Remedial Investigation Report
City of Durham Parks – Northgate Park, NONCD0000825
300 West Club Blvd. & 404 West Lavender Ave.
Durham, Durham County, North Carolina
Task Order RI-8
S&ME Project No. 23050630

PREPARED FOR:

North Carolina Department of Environmental Quality
Division of Waste Management – Inactive Hazardous Sites 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: Mr. Kevin Kelt
Hydrogeologist
via email: kevin.kelt@deq.nc.gov

Reference: **Remedial Investigation-Soil Gas, Groundwater & Surface Water/Sediment Report**
Northgate Park – 300 West Club Blvd. & 404 West Lavender Ave.
Durham, Durham County, North Carolina
NCDEQ ID No. NONCD0000825
NCDEQ Task Orders 825RI-8
S&ME Project No. 23050630

Dear Mr. Kelt:

S&ME, Inc. (S&ME) is submitting this report summarizing the results of the Remedial Investigation Waste Delineation activities conducted at the above-referenced site in Durham, North Carolina. S&ME completed this investigation in general conformance with S&ME Proposal No. 23050630, dated February 17, 2025, for Task Order 825RI-8 under the terms of Contract Number N42621-B, dated January 4, 2022, between NCDEQ and S&ME.

Please call us at 919-872-2660 with any questions or comments.

Sincerely,

S&ME, Inc.

Rachel Moore
Environmental Staff Professional
RachelMoore@smeinc.com

Senior Project Manager
jpaul@smeinc.com

Senior Reviewed by: Thomas P. Raymond, P.E. - Senior Engineer

Attachment: Remedial Investigation Report

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1.0 Summary of Current Investigation

S&ME completed the following Scope of Services listed below for this investigation in general conformance with S&ME Proposal No. 23050630, dated March 13, 2025, for Task Orders 821RI-8 under the terms of Contract Number N42621-B, dated January 4, 2022, between NCDEQ and S&ME.

- Groundwater monitoring well installation and assessment;
- Landfill gas probe installation and assessment;
- Surface water and sediment assessment; and
- Preparation of this report.

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

2.0 Landfill Gas Assessment

2.1 Landfill Gas Implant Installation

On April 11, 2025, five Landfill Gas Implants (LFGI) were installed using a track mounted Geoprobe® unit (7822 DT) outfitted with six-inch diameter rods. Landfill gas probes (LFGP) could not be installed due to a shallow water table, therefore, landfill gas implants were installed to collect representative LFG samples. S&ME personnel screened the soil for VOCs during installation of the soil gas implants. No visual indications of contamination or elevated organic vapors were noted during installation.

Landfill Gas Implants were installed to depths of 3 feet below ground surface (ft-bgs). The stainless steel implants were placed at the bottom of the boring. A sand pack of #2 filter sand was placed in the annulus between the borehole wall and the implant screen up to approximately six inches above the top of the implant screen. Next, a six inch bentonite seal was then installed above the top of the sand pack. Grout was then installed above the bentonite seal up to the ground surface where the implants encased in a steel protective casing and protective concrete pad. The LFGI construction details are presented in **Table 1** and the location of the LFGI's are shown in **Figure 1**. The Coordinates of Selected Features are included in **Appendix I.**

2.2 Field Screening Methods

On August 22, 2025, landfill gas 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 implants 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 III**.

2.3 Landfill Gas Screening Results

2.3.1 Volatile Organic Compounds

VOCs were detected in all the landfill gas implants and in one of the screening locations. Screening was done at landfill gas implant locations LFGP-1 and LFGP-2 where the water table was not too high for screening. During screening, VOCs were detected at a concentration of 11.3 ppm-v at LFGP-2. During the screening event, concentrations ranged from 0.0 parts per million by volume (ppm-v) to 11.3 ppm-v.

2.3.2 Methane

During the screening event, methane was detected at LFGP-1 and LFGP-2, but concentrations did not exceed the lower explosive limit (LEL) for methane. 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

Hydrogen Sulfide was not detected in any of the landfill gas implants. 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 on **Figure 2**.

2.4 Landfill Gas Sampling

On September 4, 2025, S&ME personnel used batch-certified sampling canisters to collect samples (including a duplicate sample) from five landfill gas pro implants for laboratory analysis of VOCs by EPA Method TO-15, Methane by ASTM Method D1946, and Hydrogen sulfide by EPA Method 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 SILO canisters.

After collecting the gas samples, the SILO canisters were shipped under standard chain-of-custody protocol to Enthalpy Analytical for VOC analysis and Hydrogen Sulfide by EPA Method TO-15 and Methane by ASTM Method D1946. The laboratory reports and chain of custody are in **Appendix IV.**

2.5 Landfill Gas Sample Results

Due to gas composition and laboratory instrument limitations, the landfill gas samples were diluted by the laboratory. Sample dilutions result in higher laboratory detection limits. Therefore, compounds may be present at concentrations below the elevated detection limit and could be considered unacceptable risk based on the NCDEQ Risk Calculator. For this assessment, only compounds detected above the laboratory

detection limits were entered into the NCDEQ Risk Calculator. As a result, additional sampling is necessary to further evaluate potential risk from landfill gas at the site.

The laboratory reported detections of multiple VOCs and other analytes 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 not exceeded at any sample location. Methane did not exceed the LEL (5%) in any of the samples. Hydrogen Sulfide was not detected at any sample location. See **Section 5.0** for the Risk Calculator details.

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

3.0 Groundwater Assessment

3.1 Monitoring Well Elevation Measuring

On July 23, 2025, eight groundwater monitor wells (MW-2 through MW-9) were installed using a track mounted Geoprobe® unit (7822 DT) outfitted with six-inch diameter rods. S&ME personnel screened the soil for VOCs during installation of the monitor wells. No visual indications of contamination or elevated organic vapors were noted during the installation of the monitoring wells.

The monitor wells were installed to depths of 13.5 to 29 ft-bgs. Once the total depth of the monitor wells was determined, a 2-inch diameter 10-foot-long section of PVC 0.010-inch slotted well screen was installed with PVC well riser casing installed from the top of the well screen up to two feet above 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 bentonite seal was then installed up to approximately two feet above the top of the sand pack. Prior to placing the bentonite in the annulus of the borehole, the well was developed with a submersible pump until turbidity had visually improved. Over five well volumes of water were removed from each well during development. The monitor wells were completed with expandable well caps. The monitor well construction details are presented in **Table 4** and the location of the monitoring wells are shown on **Figure 1**. The Coordinates of Selected Features is included in **Appendix I** and the Well Construction Records are included in **Appendix II**.

3.2 Monitor Well Purging and Sampling

On August 18, 2025, the depth to groundwater was measured in each well with an electronic water level meter. A licensed surveyor located and measured horizontal coordinates and vertical elevations for the monitor wells under Task Order 821DP-6. The approximate depth of groundwater and elevations at each monitor well are displayed on **Table 4** and are represented on **Figure 5**. Groundwater generally flows southwest towards the surface water feature in the center of the site, surface water flows to the southeast.

Before sample collection, the monitor wells were purged using a monsoon pump or peristaltic pump, and field parameter data (pH, temperature, conductivity, and turbidity) was recorded (**Table 5**). Groundwater sampling field forms are included with the field documents in **Appendix III**. Once three well volumes were purged, groundwater samples were collected, placed on ice, and sent under the chain-of-custody protocol to Eurofins | Environment Testing America (Eurofins) in Savannah Georgia for analysis. Analysis includes volatile organic compounds (VOCs) by EPA Method 8260D, semi-volatile-organic compounds (SVOCs) by EPA Method 8270E, 1,4 Dioxane by EPA Method 8270E SIM, metals by EPA Method 6020B, mercury by EPA Method 7470A, nitrate and sulfate by EPA Method 300.0, and ammonia by EPA Method 350.1.

3.3 Monitor Well Sample Results

The laboratory reported detections of multiple constituents above the NCAC 2L Groundwater Standards in samples collected from multiple monitoring wells. Analytes that were detected at concentrations exceeding the respective NCAC 2L Groundwater Standards are shown on **Figure 4.** See **Table 6** for a summary of the groundwater analytical results.

4.0 Surface Water and Sediment Sampling

On May 22, 2025, S&ME collected surface water and stream sediment samples for laboratory analysis from six locations. Surface water sample locations are identified as SW-1 through SW-6 with laboratory data on **Table 7.** Stream sediment sample locations are identified as SED-1 through SED-6 with laboratory data summarized on **Table 8**. Surface water and stream sediment locations SED/SW-1 through SED/SW-6 are shown on **Figure 6** and **Figure 7**.

Surface water and stream sediment samples were collected, placed in a cooler with ice, and delivered under chain-of-custody protocol to Eurofins Environmental Testing. Analysis includes VOCs by EPA Method 8260D, semi-volatile organic compounds (SVOCs) by EPA Method 8270E SIM, metals by EPA Method 6020B, mercury by EPA Method 7471B, nitrate and sulfate by EPA Method 39056A, and ammonia by EPA Method 350.1.

4.1.1 Surface Water Sampling Results

Table 7 summarizes the surface water sample analytical results from locations SW-1 through SW-6. Exceedances of the 15A NCAC 02B (2B Standards) surface water quality standards are shown on **Figure 6**. Several other detections were reported, however 2B Standards are not established for those constituents. The reported dissolved concentrations above the 2B Standards are summarized below in micrograms per Liter (µg/l).

The NCDEQ Risk Calculator was used to assess the risk for direct contact of surface water. See **Section 5.0** for the Risk Calculator details. The carcinogenic risk and non-carcinogenic hazard index for surface water were not exceeded at any of the sample locations for the recreator/trespasser receptor.

4.1.2 Sediment Sampling Results

Table 8 summarizes sediment analytical results for samples collected from locations SED-1 through SED-6. The laboratory report and chain of custody record are included in **Appendix IV**.

The NCDEQ Risk Calculator was used to assess the risk for direct contact of soil. The carcinogenic risk and non-carcinogenic hazard index for each of the sediment sample locations were not exceeded for all receptors. Exceedances of the United States Environmental Protection Agency Regional Soil Screening Levels (USEPA RSLs)) are shown on **Figure 7**.

5.0 NCDEQ Risk Calculator

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).

5.1 Landfill Gas Samples

The NCDEQ Risk Calculator was run for each landfill gas sample location. The risk calculator uses analytical results and generates a Carcinogenic Risk and Hazard Index value. None of the sample locations exceeded the Residential Receptor or the Non-Residential Worker for landfill gas from the concentrations reported by the laboratory.

5.2 Surface Water Samples

The NCDEQ Risk Calculator was run for each individual surface water sample location. None of the sample locations exceeded risk for the recreator/trespasser receptor.

5.3 Sediment Samples

The NCDEQ Risk Calculator was run for each individual sediment sample location. None of the sample locations exceeded risk for the residential, non-residential, nor recreator/trespasser receptor.

Appendix V contains the NCDEQ Risk Calculator Inputs and Outputs.

6.0 Quality Control

6.1 Quality Control Samples

Quality control samples were collected and analyzed as follows:

Soil Gas Duplicates

- One soil gas duplicate sample, called LFGP-DUP, was collected on September 04, 2025, from LFGP-1. Analytical results of the duplicate sample were within an acceptable relative difference with the record samples.

Groundwater Duplicates

- One groundwater duplicate sample, called Duplicate-1, was collected on August 25, 2025, from MW-3. Another duplicate, called Duplicate-2, was collected from MW-9 on August 26, 2025. Analytical results of the duplicate samples were within an acceptable relative difference with the record samples.

Surface Water/Sediment Duplicates

- One duplicate sample was collected for the day of sampling for both surface water and sediment. The surface water duplicate was taken at SW-3, and the sediment duplicate was taken at SED-4. Analytical results of the duplicate samples were within an acceptable relative difference with the record samples.

Trip Blank

- One trip blank sample of laboratory provided Deionized Water was kept with the laboratory samples throughout the groundwater sampling event and analyzed for VOCs by 8260D. No analytes were reported above the laboratory's minimum detection limit.

7.0 Work Plan Deviation

Landfill gas probes could not be installed due to a shallow water table and landfill gas implants were installed to collect representative landfill gas samples. No other work plan deviations were encountered during sampling events.

8.0 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. 23050630, dated March 13, 2025, for Task Orders 821RI-8 under the terms of Contract Number N42621-B, dated January 4, 2022, between NCDEQ and S&ME.

9.0 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."

Gerald Paul / S&ME, Inc.
Name of Environmental Consultant / Company

Signature of Environmental Consultant

January 12, 2026
Date

I, Wilma Craft, a Notary Public of said County and State, do hereby certify that Gerald Paul did personally appear and sign before me this day, produced proper identification in the form of North Carolina 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.

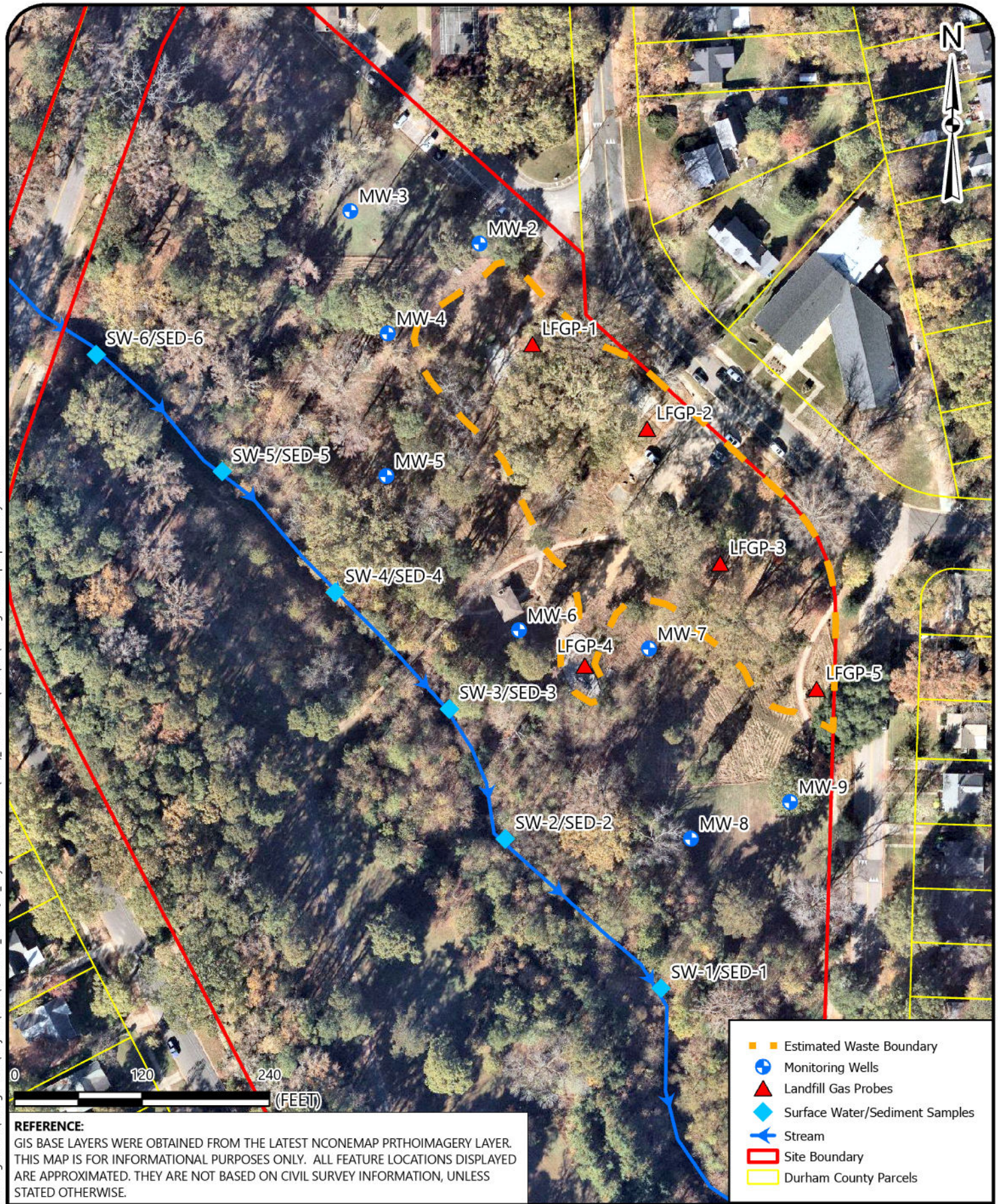
Wilma Craft
Notary Public (signature)

(OFFICIAL SEAL)

WILMA CRAFT
Notary Public, North Carolina
Wake County
My Commission Expires
March 12, 2028

My commission expires: March 12 2028

Figures



REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE LATEST NCONEMAP PRTHOIMAGERY LAYER. 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\23050630_NCDEQ LF_City of Durham Parks (PRLF)_Durham NC\ENV\GIS\Northgate RI-8.aprx plotted by RachelMoore

SITE MAP

NORTHGATE PARK
NCDE ID NO. NONCD0000825, TASK ORDER 825 RI-8
300 W. CLUB BOULEVARD & 404 W. LAVENDER AVENUE
DURHAM, NORTH CAROLINA

SCALE:	FIGURE NO.
1 in = 240 ft	1
DATE: 12/8/2025	
PROJECT NUMBER 23050630	

NOTES:
LANDFILL GAS SCREENING WAS CONDUCTED ON AUGUST 22, 2025. ONLY SCREENING RESULTS ABOVE THE BACKGROUND LEVELS ARE SHOWN. VOCs MEASURED IN PPM-V.
VOC - VOLATILE ORGANIC CARBONS.
PPM-V - PARTS PER MILLION BY VOLUME.

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

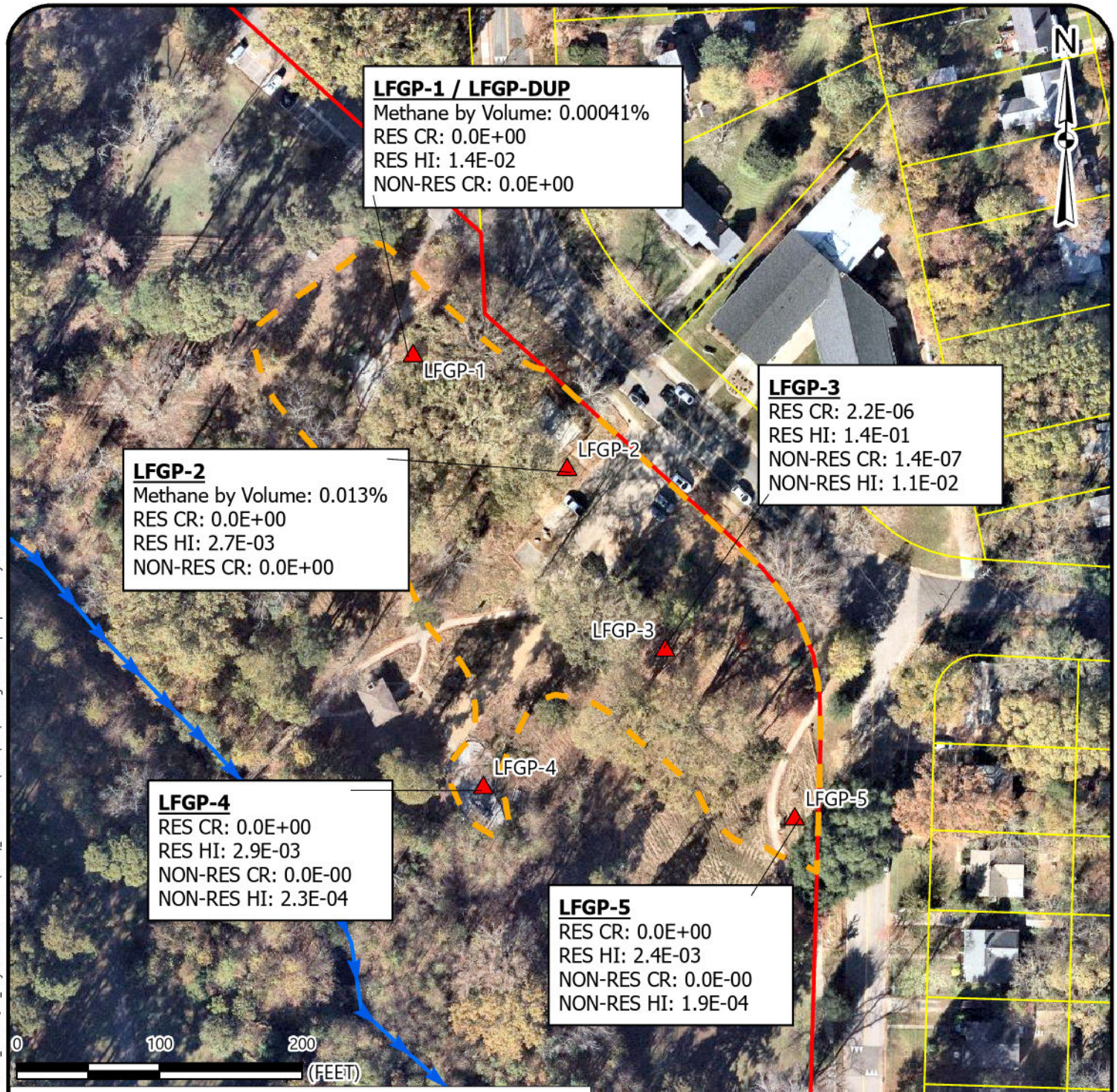
- Estimated Waste Boundary
- Landfill Gas Probes
- Stream
- Site Boundary
- Durham County Parcels

LANDFILL GAS SCREENING RESULTS

NORTHGATE PARK
NCDE ID NO. NONCD0000825, TASK ORDER 825 RI-8
300 W. CLUB BOULEVARD & 404 W. LAVENDER AVENUE
DURHAM, NORTH CAROLINA

SCALE: 1 in = 100 ft
DATE: 12/8/2025
PROJECT NUMBER 23050630
FIGURE NO. 2

Drawing Path: T:\Raleigh-1050\Projects\2023\23050630_NCDEQ LF_City of Durham Parks (PRLF)_Durham NC\ENV\GIS\Northgate RI-8.aprx plotted by RachelMoore



NOTES:
LANDFILL GAS SAMPLING WAS CONDUCTED ON SEPTEMBER 4, 2025. ONLY SAMPLING LOCATIONS THAT EXCEED THE LOWER EXPLOSIVE LIMIT (LEL) FOR METHANE (5%) ARE SHOWN IN RED.
RES CR: RESIDENTIAL CARCINOGENIC RISK
RES HI: RESIDENTIAL HAZARD INDEX
NON-RES CR: NON-RESIDENTIAL CARCINOGENIC RISK
NON-RES HI: NON-RESIDENTIAL HAZARD INDEX

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

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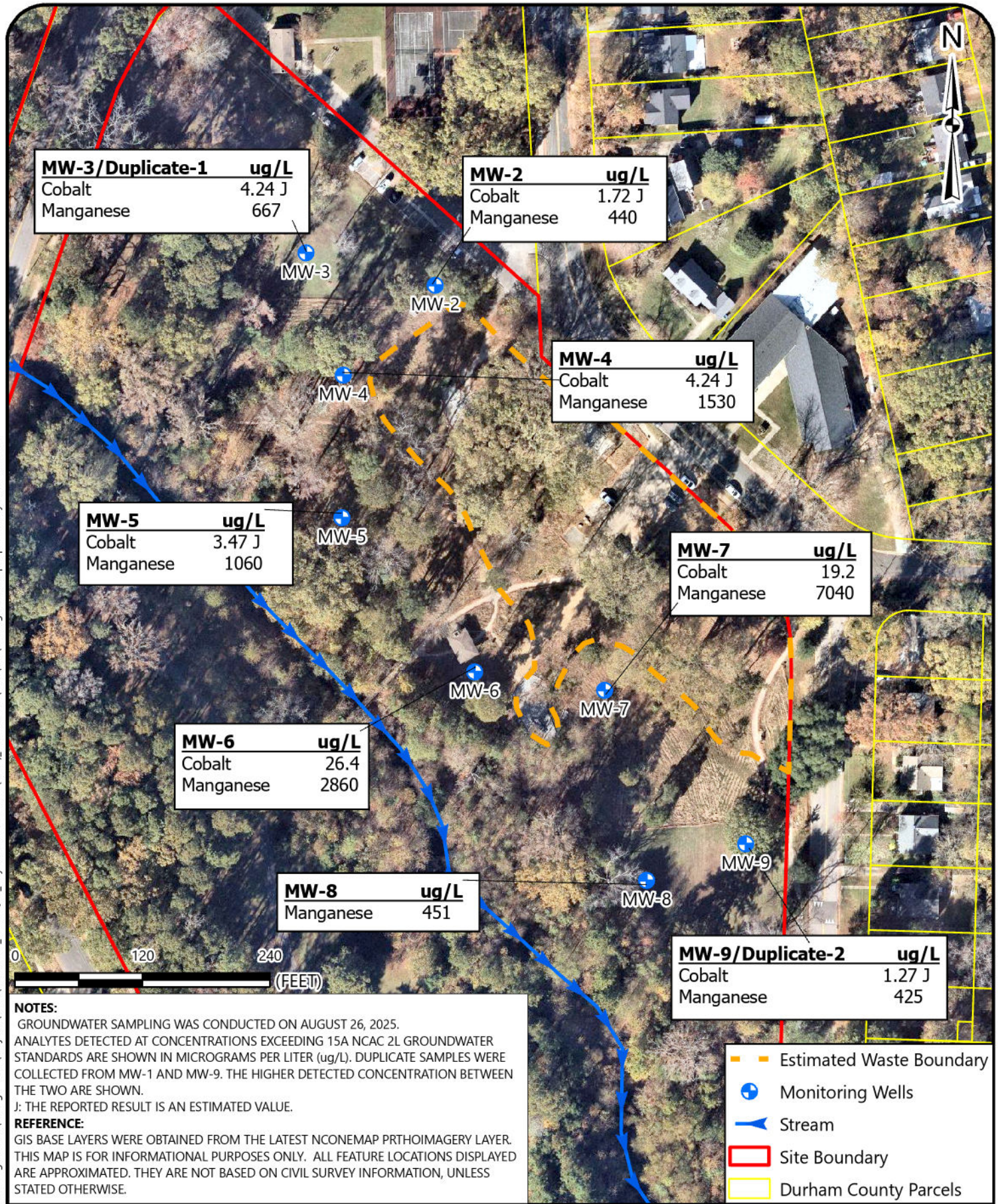
LANDFILL GAS RISK ASSESSMENT & LABORATORY RESULTS

NORTHGATE PARK
NCDE ID NO. NONCD0000825, TASK ORDER 825 RI-8
300 W. CLUB BOULEVARD & 404 W. LAVENDER AVENUE
DURHAM, NORTH CAROLINA

SCALE: 1 in = 100 ft
DATE: 12/8/2025
PROJECT NUMBER 23050630
FIGURE NO. 3



NOTES:
GROUNDWATER SAMPLING WAS CONDUCTED ON AUGUST 26, 2025.
ANALYTES DETECTED AT CONCENTRATIONS EXCEEDING 15A NCAC 2L GROUNDWATER STANDARDS ARE SHOWN IN MICROGRAMS PER LITER (ug/L). DUPLICATE SAMPLES WERE COLLECTED FROM MW-1 AND MW-9. THE HIGHER DETECTED CONCENTRATION BETWEEN THE TWO ARE SHOWN.
J: THE REPORTED RESULT IS AN ESTIMATED VALUE.

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

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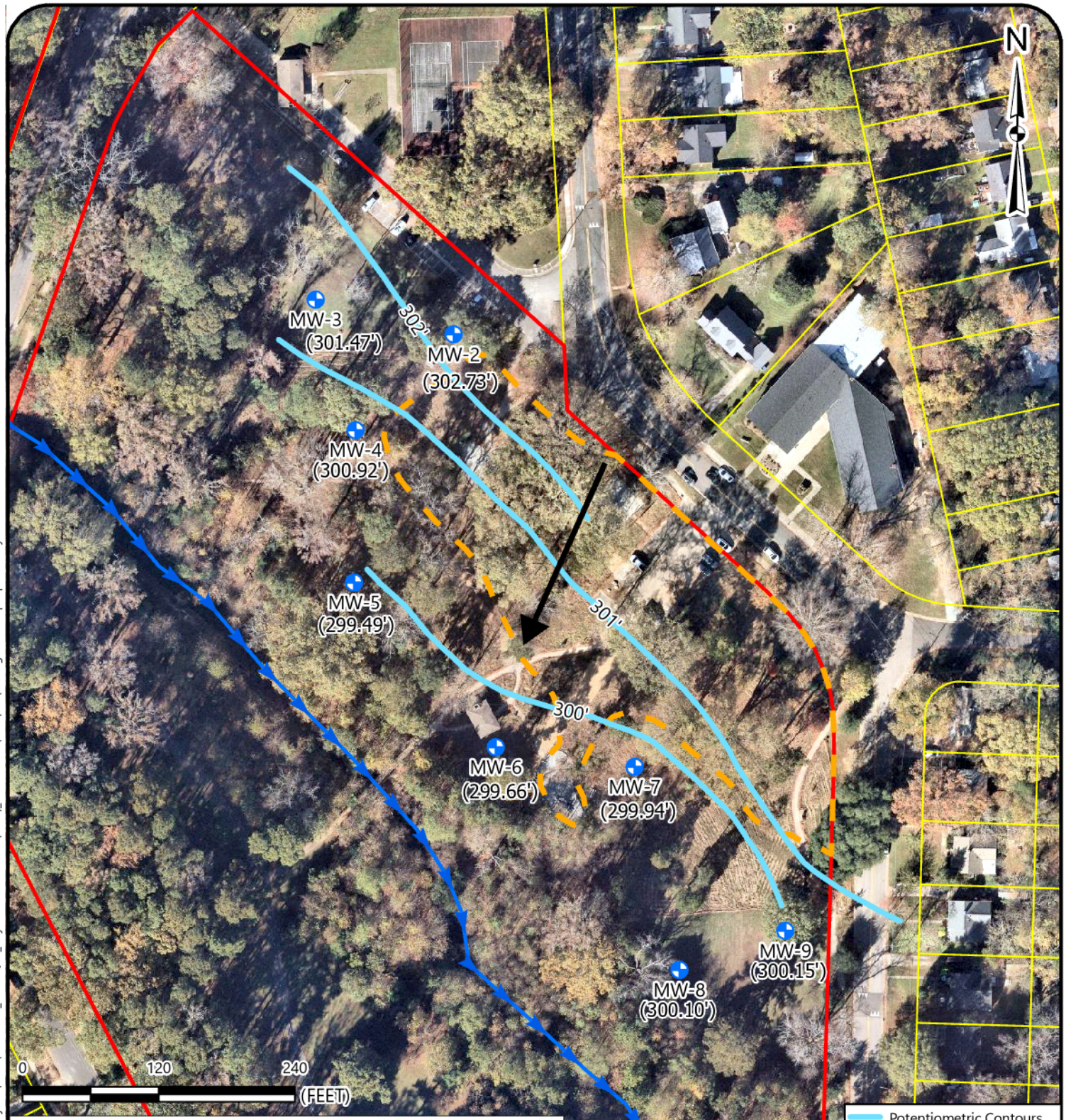
GROUNWDWATER ANALYTICAL RESULTS

NORTHGATE PARK
NCDE ID NO. NONCD0000825, TASK ORDER 825 RI-8
300 W. CLUB BOULEVARD & 404 W. LAVENDER AVENUE
DURHAM, NORTH CAROLINA

SCALE: 1 in = 120 ft
DATE: 12/8/2025
PROJECT NUMBER 23050630
FIGURE NO. 4



NOTES:
DEPTH TO GROUNDWATER WAS MEASURED ON AUGUST 8, 2025.
GROUNDWATER ELEVATIONS ARE SHOWN IN FEET ABOVE MEAN SE LEVEL (FT-AMSL).
APPROXIMATE GROUNDWATER FLOW IS DEPICTED WITH THE ARROW.

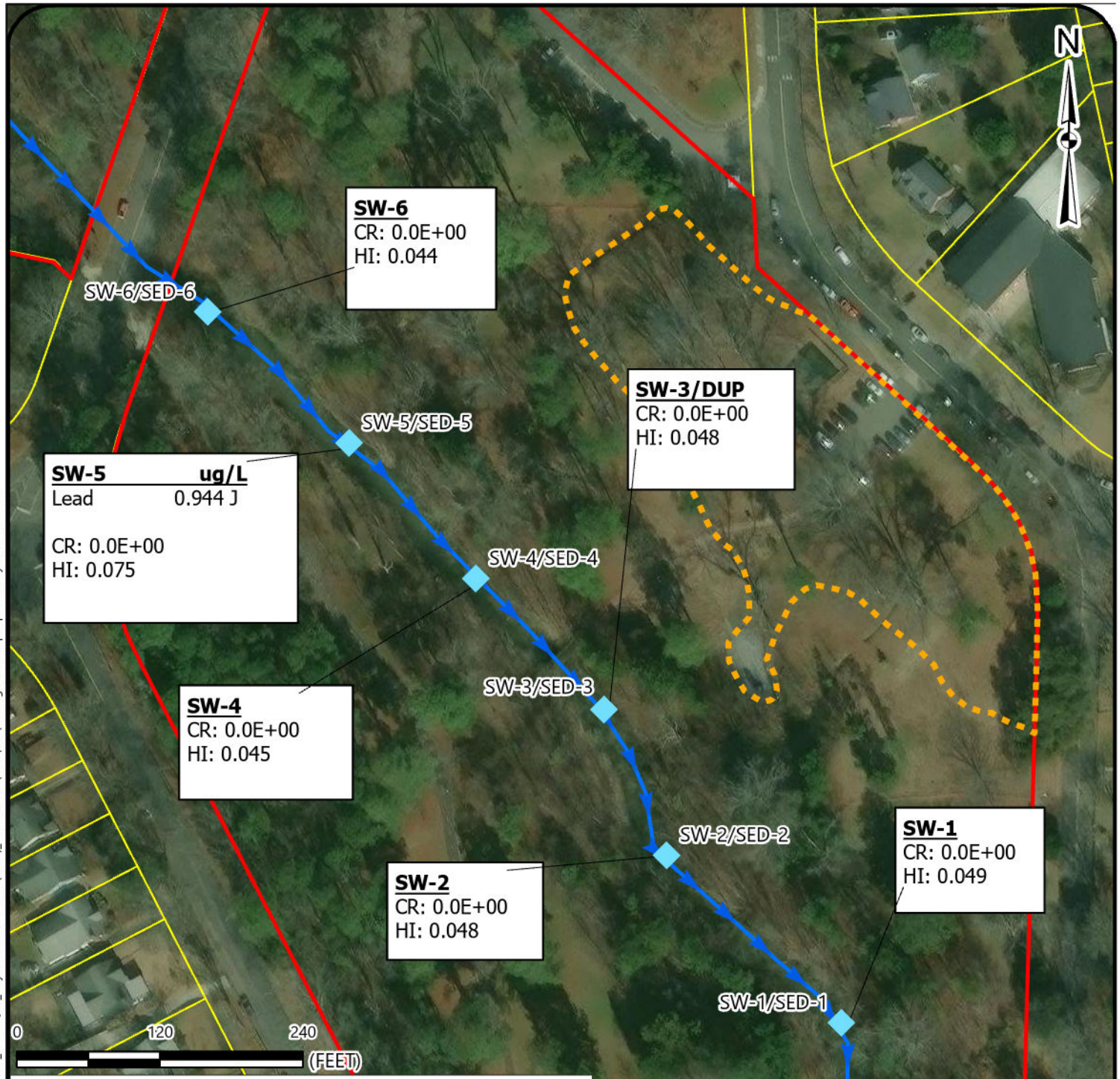
REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE LATEST NCONEMAP PRTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

GROUNWDWATER POTENTIOMETRIC MAP

NORTHGATE PARK
NCDE ID NO. NONCD0000825, TASK ORDER 825 RI-8
300 W. CLUB BOULEVARD & 404 W. LAVENDER AVENUE
DURHAM, NORTH CAROLINA

SCALE: 1 in = 120 ft
DATE: 12/16/2025
PROJECT NUMBER 23050630
FIGURE NO. 5

Drawing Path: T:\Raleigh-1050\Projects\2023\23050630_NCDEQ LF_City of Durham Parks (PRLF)_Durham NC\ENV\GIS\Northgate RI-8.aprx plotted by RachelMoore



NOTES:
SURFACE WATER FLOWS FROM THE NORTHWEST TO THE SOUTHEAST. SURFACE WATER SAMPLING WAS CONDUCTED ON MAY 22, 2025. ANALYTES DETECTED AT CONCENTRATIONS EXCEEDING THE NCAC 2B STANDARDS ARE SHOWN IN MICROGRAMS PER LITER (ug/L). A DUPLICATE SAMPLE WAS COLLECTED FROM SW-3. DIRECT CONTACT RISK LEVELS ARE SHOWN FOR THE RECREATOR/TRESPASSER RECEPTOR.
CR: CARCINOGENIC RISK
HI: HAZARD INDEX
J: RESULT IS AN ESTIMATED VALUE

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

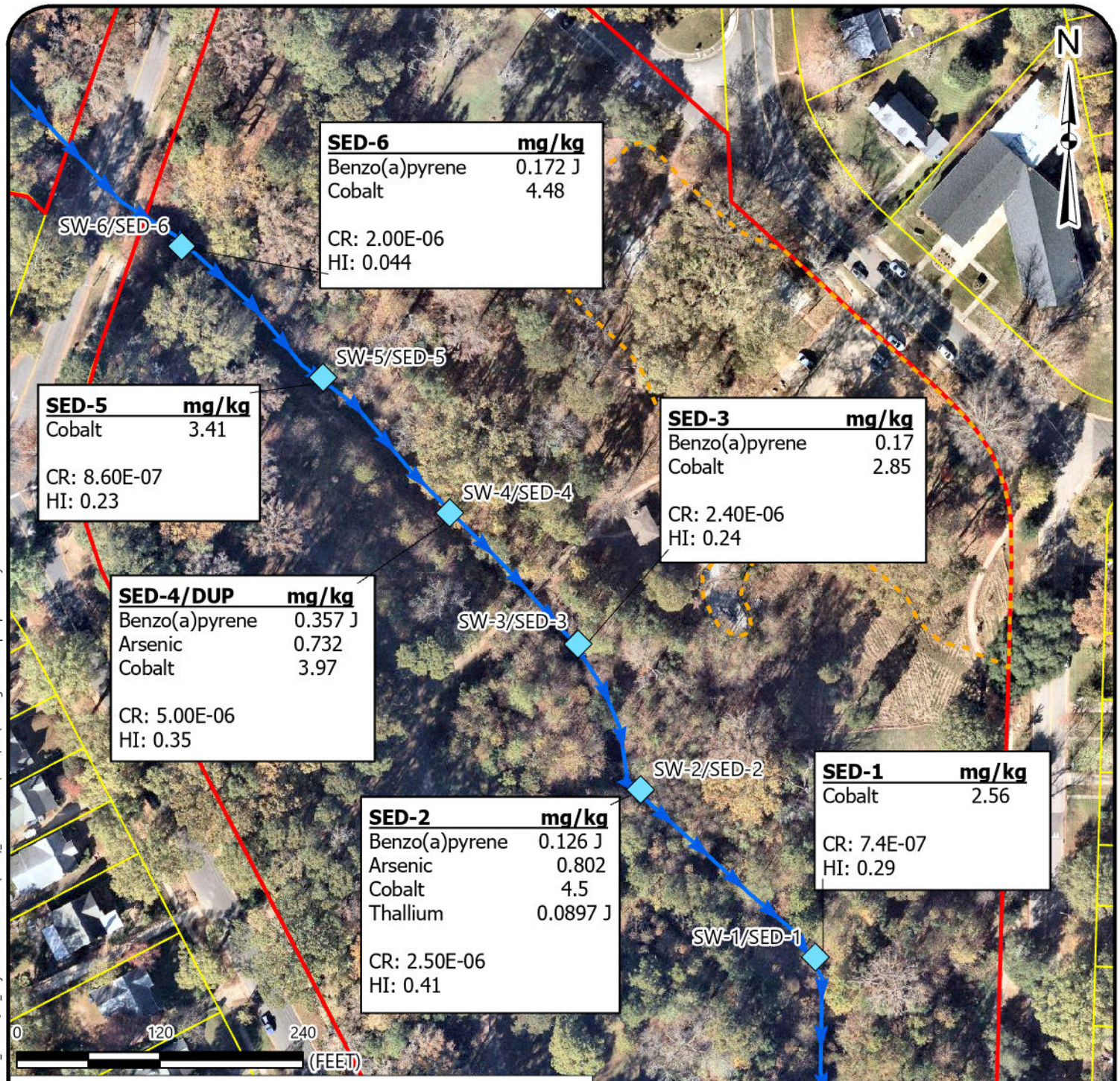
- Estimated Waste Boundary
- Surface Water/Sediment Samples
- Stream
- Site Boundary
- Durham County Parcels

Drawing Path: T:\Raleigh-1050\Projects\2023\23050630_NCDEQ LF_City of Durham Parks (PRLF)_Durham NC\ENV\GIS\Northgate RI-8.aprx plotted by RachelMoore

SURFACE WATER ANALYTICAL RESULTS

NORTHGATE PARK
NCDE ID NO. NONCD0000825, TASK ORDER 825 RI-8
300 W. CLUB BOULEVARD & 404 W. LAVENDER AVENUE
DURHAM, NORTH CAROLINA

SCALE: 1 in = 120 ft
DATE: 12/8/2025
PROJECT NUMBER 23050630
FIGURE NO. 6



NOTES:
SEDIMENT SAMPLING WAS CONDUCTED ON MAY 22, 2025. SAMPLES ARE MEASURED IN MILLIGRAMS PER KILOGRAM (mg/kg). ONLY RESULTS EXCEEDING THE UNITED STATES EPA (USEPA) REGIONAL SCREENING LEVELS (RSL) FOR SOIL ARE SHOWN. DIRECT CONTACT RISK LEVELS ARE SHOWN FOR THE RESIDENTIAL RECEPTOR. A DUPLICATE SAMPLE WAS COLLECTED AT SED-4. THE HIGHEST CONCENTRATION BETWEEN THE TWO IS SHOWN.
CR: CARCINOGENIC RISK
HI: HAZARD INDEX
J: RESULT IS AN ESTIMATED VALUE

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

SEDIMENT SAMPLE ANALYTICAL RESULTS

NORTHGATE PARK
NCDE ID NO. NONCD0000825, TASK ORDER 825 RI-8
300 W. CLUB BOULEVARD & 404 W. LAVENDER AVENUE
DURHAM, NORTH CAROLINA

SCALE: 1 in = 120 ft
DATE: 12/8/2025
PROJECT NUMBER 23050630
FIGURE NO. 7

Drawing Path: T:\Raleigh-1050\Projects\2023\23050630_NCDEQ LF_City of Durham Parks (PRLF)_Durham NC\ENV\GIS\Northgate RI-8.aprx plotted by RachelMoore

Tables

TABLE 1
Landfill Gas Probe & Gas Implant Construction Details
City of Durham Parks - East Durham Park (NONCD0000825)
300 W. Club Boulevard & 404 W. Lavender Avenue, Durham, Durham County, North Carolina
S&ME Project No. 23050630 Task Order RI-8

ID	Date Installed	Type	Casing Material	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)
LFGP-1	4/11/25	Flushmount-Gas Implant	1/4" tubing	3.0	NA	2.5 - 3.0	0.0 - 1.5	1.5 - 2.0	2.0 - 3.0
LFGP-2	4/11/25	Flushmount-Gas Implant	1/4" tubing	3.0	NA	2.5 - 3.0	0.0 - 1.5	1.5 - 2.0	2.0 - 3.0
LFGP-3	4/11/25	Flushmount-Gas Implant	1/4" tubing	3.0	NA	2.5 - 3.0	0.0 - 1.5	1.5 - 2.0	2.0 - 3.0
LFGP-4	4/11/25	Flushmount-Gas Implant	1/4" tubing	3.0	NA	2.5 - 3.0	0.0 - 1.5	1.5 - 2.0	2.0 - 3.0
LFGP-5	4/11/25	Flushmount-Gas Implant	1/4" tubing	3.0	NA	2.5 - 3.0	0.0 - 1.5	1.5 - 2.0	2.0 - 3.0

Notes:
All landfill gas points were installed as soil gas implants due to shallow groundwater.
ft-bgs: feet below ground surface.
in: inches
N/A: Not Applicable
The Soil Gas Implant locations are indicated on **Figure 1.**

TABLE 2

Landfill Gas Field Screening Results

City of Durham Parks - Northgate Park (NONCD0000825)

300 W. Club Boulevard & 404 W. Lavender Avenue, Durham, Durham County, North Carolina

S&ME Project No. 23050630 Task Order RI-8

Field Parameter		Volatile Organic Compounds (ppm-v)	Methane (Volume in Air %)	Methane (% Lower Explosive Limit)	Hydrogen Sulfide (ppm-v)
Sample ID	Screening Date				
LFGP-1	8/22/2025	0.0	0.0	0.0	0.0
LFGP-2	8/22/2025	**11.3**	0.0	0.0	0.0
LFGP-3	8/22/2025	NM			
LFGP-4	8/22/2025	NM			
LFGP-5	8/22/2025	NM			

Notes:

Percent %: Percent methane in air, Lower Explosive Limit for Methane is 5%.

PPM-V: Parts Per Million by Volume in Air

NM: Not Measured

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.

See **Figure 2** for landfill screening locations

LFGP-3, LFGP-4 and LFGP-5 were not measured due to equipment malfunction.

TABLE 3
Landfill Gas Sample Analytical Results Summary
City of Durham Parks - Northgate Park (NONCD0000825)
300 W. Club Boulevard & 404 W. Lavender Avenue, Durham, Durham County, North Carolina
S&ME Project No. 23050630 Task Order RI-8

Analytical Method		Analyte	CAS Number	Sample ID	LFGP-1	LFGP-2	LFGP-3	LFGP-4	LFGP-5	LFGP-DUP (LFGP-1)
				Date Collected	9/4/2025	9/4/2025	9/4/2025	9/4/2025	9/4/2025	9/4/2025
Volatile Organic Compounds by Method TO-15 (µg/m3)		Acetone	67-64-1		**54**	**50**	**25**	**39**	**29**	**29**
		Chloroform	67-66-3		<4.0	<3.8	**9.1**	<4.2	<4.2	<4.2
		Hexane	110-54-3		**5.5**	**2.9**	<2.8	<3.0	<3.0	<3.0
		2-Propanol	67-63-0		**94**	**18**	**45**	**20**	**17**	**15**
		1,3-Dichlorobenzene	541-73-1		<4.7	**5**	<4.7	<4.7	<4.7	<4.7
ASTM D5504-12 (ug/m3)		Hydrogen Sulfide	7783-06-4		<14	<14	<14	<14	<14	<14
NIOSH 6009 (ug/m3)		Mercury	7439-97-6		<0.67	<0.67	<0.67	<0.67	<0.67	<0.67
EPA Method 3C (%)		Methane	74-82-8		**0.00041**	**0.013**	<0.00016	<0.00017	<0.00017	<0.00017
NCDEQ Risk Calculator Values	Vapor Intrusion Resident Soil Gas To Indoor Air	Cumulative Carcinogenic Risk			0.0E+00	0.0E+00	2.2E-06	0.0E+00	0.0E+00	See LFGP-1 Risk Assessment.
		Non-Carcinogenic Hazard Quotiennt			1.4E-02	2.7E-03	1.4E-01	2.9E-03	2.4E-03	
	Vapor Intrustion Non-Residential Worker Soil Gas To Indoor Air	Cumulative Carcinogenic Risk			0.0E+00	0.0E+00	1.7E-07	0.0E+00	0.0E+00	
		Non-Carcinogenic Hazard Quotiennt			1.1E-03	2.1E-04	1.1E-02	2.3E-04	1.9E-04	

Notes:

Concentrations shown in **BOLD** exceed the laboratory detection limits.

Concentrations not were 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.

E: Estimated value, exceeds instrument calibration range.

CN: See Case Narrative

NIOSH 6009 Mercury Samples were collected on September 5, 2025.

LFGP-DUP was taken at LFGP-1.

TABLE 4
Groundwater Monitor Well Construction & Groundwater Level
City of Durham Parks - Northgate Park (NONCD0000825)
300 W. Club Boulevard & 404 W. Lavender Avenue, Durham, Durham County, North Carolina
S&ME Project No. 23050630 Task Order RI-8

ID	Date Installed	Type	Casing Material	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)			Top of Casing Elevation (ft-amsl)	Date Water Level Measured	Depth to Groundwater (ft-btoc)	Groundwater Elevation (ft-amsl)
MW-1	Not Installed																						
MW-2	7/23/25	Flush Mount - Monitoring Well	2-in Sch 40 PVC	29.0	0.0	to	9.0	9.0	to	29.0	0.0	to	5.0	5.0	to	7.0	7.0	to	29.0	304.17'	8/18/2025	1.44	302.73
MW-3	7/23/25	Flush Mount - Monitoring Well	2-in Sch 40 PVC	15.0	0.0	to	5.0	5.0	to	15.0	0.0	to	3.0	3.0	to	4.0	4.0	to	15.0	303.19'	8/18/2025	1.72	301.47
MW-4	7/23/25	Flush Mount - Monitoring Well	2-in Sch 40 PVC	15.0	0.0	to	5.0	5.0	to	15.0	0.0	to	3.0	3.0	to	4.0	4.0	to	15.0	302.95'	8/18/2025	2.03	300.92
MW-5	7/23/25	Flush Mount - Monitoring Well	2-in Sch 40 PVC	14.0	0.0	to	4.0	4.0	to	14.0	0.0	to	2.0	2.0	to	3.0	3.0	to	14.0	303.22'	8/18/2025	3.73	299.49
MW-6	7/23/25	Flush Mount - Monitoring Well	2-in Sch 40 PVC	17.0	0.0	to	7.0	7.0	to	17.0	0.0	to	3.0	3.0	to	5.0	5.0	to	17.0	302.55'	8/18/2025	2.89	299.66
MW-7	7/23/25	Flush Mount - Monitoring Well	2-in Sch 40 PVC	13.5	0.0	to	3.5	3.5	to	13.5	0.0	to	2.0	2.0	to	3.0	3.0	to	13.5	302.32'	8/18/2025	2.38	299.94
MW-8	7/23/25	Flush Mount - Monitoring Well	2-in Sch 40 PVC	16.5	0.0	to	6.5	6.5	to	16.5	0.0	to	3.0	3.0	to	5.0	5.0	to	16.5	301.89'	8/18/2025	1.79	300.10
MW-9	7/23/25	Flush Mount - Monitoring Well	2-in Sch 40 PVC	24.0	0.0	to	14.0	14.0	to	24.0	0.0	to	10.0	10.0	to	12.0	12.0	to	24.0	301.61	8/18/2025	1.46	300.15

Notes:
ft-bgs: feet below ground surface.
in: inches
Monitoring Well locations are indicated on **Figure 1.**

TABLE 5

Groundwater Field Screening Parameters

City of Durham Parks - Northgate Park (NONCD0000825)

300 W. Club Boulevard & 404 W. Lavender Avenue, Durham, Durham County, North Carolina

S&ME Project No. 23050630 Task Order RI-8

Sample Location ID	Date	Field Parameter			
		pH	Temperature (°C)	Conductivity (µS/cm)	Turbidity (NTU)
MW-1	Not Installed				
MW-2	8/25/2025	6.50	21.7	575	44.2
MW-3	8/25/2025	6.56	21.3	644	8.7
MW-4	8/25/2025	6.56	21.8	1527	8.57
MW-5	8/25/2025	6.38	22.6	977	46.5
MW-6	8/26/2025	6.46	20.9	669	0.89
MW-7	8/26/2025	6.46	21.1	1099	3.28
MW-8	8/26/2025	7.42	19.4	634	10
MW-9	8/26/2025	6.98	20.7	901	14

Notes:

Temperature: degrees Celsius (°C)

Conductivity: microsiemens per centimeter (µS/cm)

Turbidity: Nephelometric Turbidity Units

TABLE 6
Groundwater Sample Analytical Results Summary
City of Durham Parks - Northgate Park (NONCD0000825)
300 W. Club Boulevard & 404 W. Lavender Avenue, Durham, Durham County, North Carolina
S&ME Project No. 23050630 Task Order RI-8

Analytical Method		Method 8260 - VOCs (µg/L)	Method 8270E - Semi Volatile Organic Compounds (µg/L)			Method 6020B - Metals (µg/L)										Method 7470A (µg/L)	Method 350.1 (µg/L)	Method 9056A (µg/L)	
CAS Number		74-87-3	105-60-2	108-95-2	123-91-1	7440-38-2	7440-39-3	7440-47-3	7440-48-4	7440-50-8	7439-92-1	7439-96-5	7440-02-0	7440-62-2	7440-66-6	7439-97-6	7664-41-7	14797-55-8	14808-79-8
Analyte		Chloromethane	Caprolactam	Phenol	1,4-Dioxane	Arsenic	Barium	Chromium, Total	Cobalt	Copper	Lead	Manganese	Nickel	Vanadium	Zinc	Mercury	Ammonia Nitrogen	Nitrate as (N)	Sulfate
Sample ID	Date Collected																		
MW-2	8/25/2025	<0.400	<2.42	<0.687	<0.300	<1.32	**329**	**4.03 J**	**1.72 J**	**1.45 J**	<0.864	**440**	**1.09 J**	**1.61 J**	**454**	<0.166 *+ ^+	<20	<0.0250	**13300 F2**
MW-3	8/25/2025	<0.400	<2.41	**1.56 J**	**1.65**	**2.36 J**	**203**	**5.75**	**4.24 J**	**2.51**	<0.864	**667**	**2.59 J**	**6.44**	**14.8**	<0.166 *+ ^+	**127**	<0.0250	**16300 F1 F2**
MW-4	8/25/2025	<0.400	<2.42	<0.685	<0.284	<1.32	**150**	<3.69	**4.24 J**	**1.14 J**	<0.864	**1530**	**1.75 J**	<1.22	<8.91	<0.166 *+ ^+	<20	<0.0250	<1400
MW-5	8/25/2025	<0.400	<2.42	<0.687	<0.290	<1.32	**103**	<3.69	**3.47 J**	**1.42 J**	<0.864	**1060**	**3.56 J**	**4.31 J**	<8.91	<0.166 *+ ^+	**24 J F1**	**607**	**35700**
MW-6	8/26/2025	**1.23**	**2.95 J *+**	<0.671	<0.291	**1.72 J**	**240**	<3.69	**26.4**	<0.642	<0.864	**2860**	**2.22 J**	<1.22	<8.91	<0.166	**263 F1**	<0.0250	**87600**
MW-7	8/26/2025	<0.400	<2.38 *+	<0.673	<0.314	**2.28 J**	**281**	<3.69	**19.2**	<0.642	<0.864	**7040**	**2.28 J**	<1.22	<8.91	<0.166	**20 J**	<0.0250	<1400
MW-8	8/26/2025	<0.400	<2.37 *+	<0.671	<0.286	<1.32	**304**	<3.69	<0.411	<0.642	<0.864	**451**	<0.422	<1.22	<8.91	<0.166	<20	<0.0250	**9500**
MW-9	8/26/2025	<0.400	**7.16 J *+**	<0.680	<0.280	<1.32	**65.1**	<3.69	**1.22 J**	<0.642	<0.864	**410**	**0.569 J**	<1.22	<8.91	<0.166	<20	<0.0250	**56800**
Duplicate-1 (MW-3)	8/25/2025	<0.400	<2.42	**2.59 J**	**1.78**	**2.70 J**	**184**	**7.82**	**4.21 J**	**3.97**	<0.864	**623**	**3.02 J**	**9.89**	**19.3**	<0.166 *+ ^+	**138**	<0.0250	**16100**
Duplicate-2 (MW-9)	8/26/2025	<0.400	**8.12 J *+**	<0.678	<0.300	<1.32	**68.5**	<3.69	**1.27 J**	<0.642	<0.864	**425**	**0.471 J**	<1.22	<8.91	<0.166	<20	<0.0250	**58400**
15A NCAC 2L Groundwater Standards & IMACs		3	4,000	30	3	10	700	10	1	1,000	15	15	100	7	1000	1	1,500	10,000	250,000

Notes:
µg/L: Micrograms per liter.
Concentrations shown with "<" do not exceed the laboratory method detection limits (MDLs).
Concentrations shown in **BOLD** exceed the laboratory MDLs.
Detections that exceed the 15A NCAC 2L Groundwater Standards or IMACs
J: The reported result is an estimated value.
F1: MS and/or MSD recovery exceeds control limits.
F2: MS/MSD RPD exceeds control limits.
^+: Continuing Calibration Verification is outside acceptance limits, high biased.
*+: LCS and/or LCSD is outside acceptance limits, high biased.
DUPLICATE-1 was taken at MW-3.
DUPLICATE-2 was taken at MW-9.

TABLE 7
Surface Water Sample Analytical Results Summary
City of Durham Parks - Northgate Park (NONCD0000825)
2500 East Main Street, Durham, Durham County, North Carolina
S&ME Project No. 23050630 Task Order RI-8

Analytical Method		Method 6020B - Metals (µg/L)								Method 350.1 (µg/L)	Method 9056A (µg/L)	NCDEQ Risk Calculator for Direct Contact Recreator/Trespasser Receptor	
CAS Number		7440-39-3	7440-48-4	7440-50-8	7439-92-1	7439-96-5	7440-02-0	7440-62-2	7440-66-6	7664-41-7	14808-79-8		
Analyte		Barium	Cobalt	Copper	Lead	Manganese	Nickel	Vanadium	Zinc	Ammonia Nitrogen	Sulfate	Cumulative Carcinogenic Risk	Non-Carcinogenic Hazard Quotient
Sample ID	Date Collected												
SW-1	5/22/2025	46.3	0.567 J	2.09	<1	91.8	1.66 J	1.77 J	13.7	27.2 J	16,000	0.00E+00	4.90E-02
SW-2	5/22/2025	49.8	0.568 J	2.22	<1	88.5	1.56 J	1.75 J	13	31 J	16,100	0.00E+00	4.80E-02
SW-3	5/22/2025	47.4	0.564 J	2.17	<1	88.7	1.7 J	1.72 J	17.5	<50	16,600	0.00E+00	4.80E-02
SW-4	5/22/2025	42.1	0.528 J	2.39	<1	76.7	1.71 J	2.78 J	14.5	25.2 J	16,900	0.00E+00	4.50E-02
SW-5	5/22/2025	46.8	0.78 J	2.2	0.944 J	146	1.64 J	2.65 J	16.2	40.4 J	13,400	0.00E+00	7.50E-02
SW-6	5/22/2025	42.8	0.507 J	2.29	<1	74.4	1.82 J	2.53 J	19	83 J	59,500	0.00E+00	4.40E-02
DUP (SW-3)	5/22/2025	44.4	0.508 J	2.12	<1	78.4	1.51 J	1.62 J	13.9	27.2 J	16,800	See SW-3 Risk Assessment	
15A NCAC 2B Surface Water Standards		1000	NE	2.7	0.54	NE	16	NE	36	NE	250,000		

Notes:
Concentrations in BOLD exceed the Laboratory MDLs
NE: 15A NCAC 2B Surace Water Standard Not Established
Target constituents not shown for the method were not detected
Detections that exceed the 15A NCAC 2B Surface Water Standards
Compound not in NCDEQ Risk Calculator, not entered
Analyte was not detected above the MDL and the MDL value is greater than the respective screening level. Value is not included in risk calculations.
J: estimated value less than the reporting limit but greater than the method detection limit
DUP was taken from SW-3

TABLE 8
Sediment Sample Analytical Results Summary
City of Durham Parks - Northgate Park (NONCD0000825)
300 W. Club Boulevard & 404 W. Lavender Avenue, Durham, Durham County, North Carolina
S&ME Project No. 23050630 Task Order RI-8

Analytical Method		Method 8260D - VOCs (mg/Kg)		Method 8270E - Semi Volatile Organic Compounds (SVOC) (mg/Kg)								Method 6020B - Metals (mg/Kg)														Method 9056A (mg/Kg)	NCDEQ Risk Calculator					
CAS Number		67-64-1	78-93-3	56-55-3	50-32-8	205-99-2	207-08-9	218-01-9	206-44-0	85-01-8	129-00-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	7439-92-1	7439-96-5	7440-02-0	7782-49-2	7440-22-4	7440-28-0	7440-62-2	7440-66-6	14808-79-8	Direct Contact Resident		Direct Contact Non-Residential Worker		Direct Contact Recreator/Trespasser	
Analyte		Acetone	2-Butanone (MEK)	Benz[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[k]fluoranthene	Chrysene	Fluoranthene	Phenanthrene	Pyrene	Arsenic	Barium	Beryllium	Cadmium	Chromium, Total	Cobalt	Copper	Lead	Manganese	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Sulfate						
Sample ID	Date Collected																										Cumulative Carcinogenic Risk	Non-Carcinogenic Hazard Quotient	Cumulative Carcinogenic Risk	Non-Carcinogenic Hazard Quotient	Cumulative Carcinogenic Risk	Non-Carcinogenic Hazard Quotient
SED-1	5/22/2025	**0.0226 J**	<0.0324	<0.699	<0.699	<0.699	<0.699	<0.699	**0.24 J**	<0.699	**0.182 J**	**0.499**	**10.5**	**0.128 J**	**0.0533 J**	**9.9**	**2.56**	**2.61**	**3.47**	**73.3**	**3.8**	**0.183 J**	**0.208**	**0.0662 J**	**12.3**	**15.9**	**12.9 J**	7.40E-07	2.90E-01	1.70E-07	2.00E-02	3.20E-07	1.30E-01
SED-2	5/22/2025	**0.0379**	<0.0238	<0.717	**0.126 J**	**0.238 J**	<0.717	<0.717	**0.361 J**	<0.717	**0.259 J**	**0.802**	**26.4 F1**	**0.185 J**	**0.0709 J**	**11.8 F1**	**4.5**	**6.94**	**10.4 F1**	**25.1 F1**	**6.88**	**0.23 J**	**0.275**	**0.0897 J**	**14.8**	**32.2**	**8.25 J**	2.50E-06	4.10E-01	3.40E-07	2.80E-02	1.10E-06	1.80E-01
SED-3	5/22/2025	**0.0216 J**	<0.0219	<0.664	**0.17 J**	**0.253 J**	<0.664	<0.664	**0.235 J**	<0.664	**0.275 J**	**0.486**	**13.3**	**0.0964 J**	**0.026 J**	**8.96**	**2.85**	**2.91**	**4.34**	**83.5**	**4.95**	**0.117 J**	**0.211**	<0.461	**15.5**	**18.2**	<20.4	2.40E-06	2.40E-01	2.50E-07	1.60E-02	1.00E-06	1.00E-01
SED-4	5/22/2025	**0.0127 J**	<0.0202	<0.39	<0.39	<0.39	<0.39	<0.39	**0.107 J**	<0.39	<0.39	**0.345 J**	**11.6**	**0.075 J**	**0.0373 J**	**7.33**	**2.95**	**2.55**	**3.82**	**82.7**	**5.34**	<1.73	**0.178**	<0.484	**19**	**17.7**	**16.2 J**	5.00E-06	3.50E-01	4.60E-07	2.40E-02	2.10E-06	1.50E-01
SED-5	5/22/2025	**0.0375**	<0.0193	<0.726	<0.726	<0.726	<0.726	<0.726	**0.205 J**	<0.726	<0.726	**0.582**	**20**	**0.113 J**	**0.0523 J**	**9.59**	**3.41**	**4.46**	**6.08**	**45.3**	**5.11**	**0.184 J**	**0.197**	<0.509	**12.6**	**24.9**	**9.96 J**	8.60E-07	2.30E-01	1.90E-07	1.60E-02	3.70E-07	1.00E-01
SED-6	5/22/2025	**0.0154 J**	<0.0234	**0.116 J**	**0.127 J**	**0.204 J**	**0.0869 J**	**0.136 J**	**0.337**	**0.098 J**	**0.225 J**	**0.436**	**13.4**	**0.0768 J**	**0.0375 J**	**8.46**	**4.48**	**2.75**	**3.75**	**79**	**4.51**	**0.128 J**	**0.194**	<0.502	**11.7**	**15.9**	<20.3	2.00E-06	2.90E-01	2.20E-07	2.00E-02	8.70E-07	1.30E-01
DUP (SED-4)	5/22/2025	**0.0903**	**0.00951 J**	**0.354 J**	**0.357 J**	**0.544 J**	**0.325 J**	**0.408 J**	**1.15**	**0.671 J**	**0.808**	**0.732**	**20.6**	**0.146 J**	**0.0631 J**	**13**	**3.97**	**5.23**	**7.04**	**142**	**6.27**	**0.161 J**	**0.281**	<0.55	**18.4**	**28.4**	<20.7	See SED-4 Risk Assessment.					
EPA Resident Soil Screening Levels		7,000	2,700	1.1	0.11	1.1	11	110	240	NE	180	0.68	1,500	16	0.71	NE	2.3	310	200	180	140	39	39	0.078	39	2,300	NE						

Notes:
(mg/Kg): milligrams per kilogram.
Concentrations shown with "<" do not exceed the laboratory method detection limits (MDLs)
Target constituents not shown for the method were not detected.
Detections are shown in **BOLD**.
J: Result is less than the reporting limit but greater than or equal to the MDL and the concentration is an approximate value.
F1 (Metals): MS and/ or MSD recovery exceeds control limits.
NE: Standard Not Established
Detections that exceed the EPA Resident Soil Screening Levels
Compound not in NCDEQ Risk Calculator, not entered
Analyte was not detected above the MDL and the MDL value is greater than the respective screening level. Value is not included in risk calculations.
DUP was taken from SED-4.

Appendices

Appendix I- Coordinates of Selected Features

APPENDIX I
Coordinates of Selected Features
City of Durham Parks - Northgate Park (NONCD0000825)
300 W. Club Boulevard & 404 W. Lavender Avenue, Durham, Durham County, North Carolina
S&ME Project No. 23050630 Task Order RI-8

Site Feature	Type	Location			
		Latitude	Longitude	Northing	Easting
LFGP-1	Landfill Gas Probe	36.022220	-78.895765	827003.25	2030824.07
LFGP-2	Landfill Gas Probe	36.022001	-78.895401	826923.48	2030931.99
LFGP-3	Landfill Gas Probe	36.021653	-78.895168	826796.80	2031000.80
LFGP-4	Landfill Gas Probe	36.021389	-78.895600	826700.61	2030873.34
LFGP-5	Landfill Gas Probe	36.021328	-78.894862	826678.71	2031091.52
MW-2	Monitor Well	36.022478	-78.895933	827096.88	2030774.39
MW-3	Monitor Well	36.022562	-78.896344	827127.43	2030652.78
MW-4	Monitor Well	36.022246	-78.896226	827012.35	2030687.91
MW-5	Monitor Well	36.021877	-78.896231	826878.10	2030686.63
MW-6	Monitor Well	36.021478	-78.895809	826733.03	2030811.52
MW-7	Monitor Well	36.021430	-78.895395	826715.71	2030933.91
MW-8	Monitor Well	36.020938	-78.895262	826536.76	2030973.36
MW-9	Monitor Well	36.021033	-78.894947	826571.26	2031066.63
SW-1/SED-1	Surface Water Sediment	36.020552	-78.895358	826395.96	2030945.13
SW-2/SED-2	Surface Water Sediment	36.020938	-78.895853	826536.48	2030798.51
SW-3/SED-3	Surface Water Sediment	36.021274	-78.896031	826658.67	2030745.96
SW-4/SED-4	Surface Water Sediment	36.021576	-78.896394	826768.65	2030638.44
SW-5/SED-5	Surface Water Sediment	36.021889	-78.896753	826882.28	2030532.13
SW-6/SED-6	Surface Water Sediment	36.022191	-78.897153	826992.25	2030413.61

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 - Construction Records for LFGP and MW

Print Form

WELL CONSTRUCTION RECORD (GW-1)

For Internal Use Only:

1. Well Contractor Information:

T. Bolyard
Well Contractor Name

3307
NC Well Contractor Certification Number

Environmental Drilling & Probing Services, LLC (EDPS)
Company Name

2. Well Construction Permit #: _____
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Industrial/Commercial
- ☐ Irrigation
- ☐ Municipal/Public
- ☐ Residential Water Supply (single)
- ☐ Residential Water Supply (shared)

Non-Water Supply Well:
- ☑ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Aquifer Storage and Recovery
- ☐ Aquifer Test
- ☐ Experimental Technology
- ☐ Geothermal (Closed Loop)
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Groundwater Remediation
- ☐ Salinity Barrier
- ☐ Stormwater Drainage
- ☐ Subsidence Control
- ☐ Tracer
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 7/21-7/23/2025 **Well ID#** MW-2

5a. Well Location:

Northgate Park
Facility/Owner Name

Facility ID# (if applicable)

300 W. Club Blvd. & 404 W. Lavender Ave. Durham NC
Physical Address, City, and Zip

Durham
County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

6. Is(are) the well(s): ☑ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same construction, only 1 GW-1 is needed. Indicate TOTAL NUMBER of wells drilled: One

9. Total well depth below land surface: 1 @ 29 **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ **(ft.)**
If water level is above casing, use "-"

11. Borehole diameter: 8 **(in.)**

12. Well construction method: HSA
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
9 ft.	0 ft.	2 in.	Sch. 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
29 ft.	9 ft.	2 in.	0.01	Sch. 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
7 ft.	5 ft.	Bentonite	pour
5 ft.	0 ft.	Grout	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
29 ft.	7 ft.	#2 med.	pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

_____ 7/23/25
Signature of Certified Well Contractor — Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit one copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD (GW-1)

Print Form

For Internal Use Only:

1. Well Contractor Information:

T. Bolyard
Well Contractor Name

3307
NC Well Contractor Certification Number

Environmental Drilling & Probing Services, LLC (edps)
Company Name

2. Well Construction Permit #: _____
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☑ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 7/21-7/23/2025 **Well ID#** MW-3

5a. Well Location:

Northgate Park.
Facility/Owner Name

Facility ID# (if applicable)

300 W. Club Blvd. & 404 W. Lavender Ave. Durham NC
Physical Address, City, and Zip

Durham
County

Parcel Identification No (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

6. Is(are) the well(s): ☑ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same construction, only 1 GW-1 is needed. Indicate TOTAL NUMBER of wells drilled: One

9. Total well depth below land surface: 10 15 **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ **(ft.)**
If water level is above casing, use "-"

11. Borehole diameter: 8 **(in.)**

12. Well construction method: HSA
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
5 ft.	0 ft.	2 in.	Sch. 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
15 ft.	5 ft.	2 in.	0.01	Sch. 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
4 ft.	3 ft.	Bentonite	pour
3 ft.	0 ft.	Grout	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
15 ft.	4 ft.	# 2 med.	pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

_____ 7/23/25
Signature of Certified Well Contractor — Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit one copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD (GW-1)

Print Form

For Internal Use Only:

1. Well Contractor Information:

T. Bolyard
Well Contractor Name

3307
NC Well Contractor Certification Number

Environmental Drilling & Probing Services, LLC (edps)
Company Name

2. Well Construction Permit #: _____
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Industrial/Commercial
- ☐ Irrigation
- ☐ Municipal/Public
- ☐ Residential Water Supply (single)
- ☐ Residential Water Supply (shared)

Non-Water Supply Well:
- ☑ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Aquifer Storage and Recovery
- ☐ Aquifer Test
- ☐ Experimental Technology
- ☐ Geothermal (Closed Loop)
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Groundwater Remediation
- ☐ Salinity Barrier
- ☐ Stormwater Drainage
- ☐ Subsidence Control
- ☐ Tracer
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 7/21-7/23/2025 **Well ID#** MW-4

5a. Well Location:

Northgate Park
Facility/Owner Name

Facility ID# (if applicable)

300 W. Club Blvd. & 404 W. Lavender Ave. Durham NC
Physical Address, City, and Zip

Durham
County

Parcel Identification No. (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

6. Is(are) the well(s): ☑ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same construction, only 1 GW-1 is needed. Indicate TOTAL NUMBER of wells drilled: One

9. Total well depth below land surface: 1 @ 15 **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ **(ft.)**
If water level is above casing, use "-"

11. Borehole diameter: 8 **(in.)**

12. Well construction method: HSA
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
5 ft.	0 ft.	2 in.	Sch. 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
15 ft.	5 ft.	2 in.	0.01	Sch. 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
4 ft.	3 ft.	Bentonite	pour
3 ft.	0 ft.	Grout	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
15 ft.	4 ft.	#2 med.	pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

_____ 7/28/25
Signature of Certified Well Contractor — Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit one copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

Print Form

WELL CONSTRUCTION RECORD (GW-1)

For Internal Use Only:

1. Well Contractor Information:

T. Bolyard
Well Contractor Name

3307
NC Well Contractor Certification Number

Environmental Drilling & Probing Services, LLC (EDPS)
Company Name

2. Well Construction Permit #: _____
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☑ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 7/21-7/23/2025 **Well ID#** MW-5

5a. Well Location:

Northgate Park
Facility/Owner Name

Facility ID# (if applicable)

300 W. Club Blvd. & 404 W. Lavender Ave. Durham NC
Physical Address, City, and Zip

Durham
County

Parcel Identification No (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

6. Is(are) the well(s): ☑ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same construction, only 1 GW-1 is needed. Indicate TOTAL NUMBER of wells drilled: one

9. Total well depth below land surface: 1 @ 14 **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ **(ft.)**
If water level is above casing, use "

11. Borehole diameter: 8 **(in.)**

12. Well construction method: HSA
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
4 ft.	0 ft.	2 in.	Sch. 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
14 ft.	4 ft.	2 in.	0.01	Sch. 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
3 ft.	2 ft.	Bentonite	pour
2 ft.	0 ft.	Grout	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
14 ft.	3 ft.	#2 med.	pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

_____ 7/28/25
Signature of Certified Well Contractor — Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit one copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD (GW-1)

Print Form

For Internal Use Only:

1. Well Contractor Information:

T. Bolyard
Well Contractor Name

3307
NC Well Contractor Certification Number

Environmental Drilling & Probing Services, LLC (edps)
Company Name

2. Well Construction Permit #: _____
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☑ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 7/21-7/23/2025 **Well ID#** MW-6

5a. Well Location:

Northgate Park
Facility/Owner Name

Facility ID# (if applicable)

300 W. Club Blvd. & 404 W. Lavender Ave. Durham NC
Physical Address, City, and Zip

Durham
County

Parcel Identification No (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

6. Is(are) the well(s): ☑ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same construction, only 1 GW-1 is needed. Indicate TOTAL NUMBER of wells drilled: one

9. Total well depth below land surface: 1 @ 17 **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ **(ft.)**
If water level is above casing, use "-"

11. Borehole diameter: 8 **(in.)**

12. Well construction method: HSA
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
7 ft.	0 ft.	2 in.	Sch.40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
17 ft.	7 ft.	2 in.	0.01	Sch.40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
5 ft.	3 ft.	Bentonite	pour
3 ft.	0 ft.	Grout	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
17 ft.	5 ft.	#2 med.	pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

_____ 7/28/25
Signature of Certified Well Contractor — Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit one copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

Print Form

WELL CONSTRUCTION RECORD (GW-1)

For Internal Use Only:

1. Well Contractor Information:

T. Bolyard
Well Contractor Name

3307
NC Well Contractor Certification Number

Environmental Drilling & Probing Services, LLC (edps)
Company Name

2. Well Construction Permit #: _____
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☑ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 7/21-7/23/2025 **Well ID#** MW-7

5a. Well Location:

Northgate Park
Facility/Owner Name

Facility ID# (if applicable)

300 W. Club Blvd. & 404 W. Lavender Ave. Durham NC
Physical Address, City, and Zip

Durham
County

Parcel Identification No (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

6. Is(are) the well(s): ☑ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same construction, only 1 GW-1 is needed. Indicate TOTAL NUMBER of wells drilled: one

9. Total well depth below land surface: 1 @ 13.5 **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ **(ft.)**
If water level is above casing, use "-"

11. Borehole diameter: 8 **(in.)**

12. Well construction method: HSA
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
3.5 ft.	0 ft.	2 in.	Sch. 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
13.5 ft.	3.5 ft.	2 in.	0.01	Sch. 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
3 ft.	2 ft.	Bentonite	pour
2 ft.	0 ft.	Grout	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
13.5 ft.	3 ft.	#2 med.	pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

_____ 7/28/25
Signature of Certified Well Contractor — Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit one copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

Print Form

WELL CONSTRUCTION RECORD (GW-1)

For Internal Use Only:

1. Well Contractor Information:

T. Bolyard
Well Contractor Name

3307
NC Well Contractor Certification Number

Environmental Drilling & Probing Services, LLC (EDPS)
Company Name

2. Well Construction Permit #: _____
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☑ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 7/21-7/23/2025 **Well ID#** MW-8

5a. Well Location:

Northgate Park
Facility/Owner Name

Facility ID# (if applicable)

300 W. Club Blvd. & 404 W. Lavender Ave. Durham NC
Physical Address, City, and Zip

Durham
County

Parcel Identification No (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

6. Is(are) the well(s): ☑ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same construction, only 1 GW-1 is needed. Indicate TOTAL NUMBER of wells drilled: One

9. Total well depth below land surface: 1 @ 16.5 **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ **(ft.)**
If water level is above casing, use "-"

11. Borehole diameter: 8 **(in.)**

12. Well construction method: HSA
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
6.5 ft.	0 ft.	2 in.	Sch. 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
16.5 ft.	6.5 ft.	2 in.	0.01	Sch. 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
5 ft.	3 ft.	Bentonite	pour
3 ft.	0 ft.	Grout	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
16.5 ft.	5 ft.	#2 med.	pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

_____ 7/28/25
Signature of Certified Well Contractor — Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit one copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD (GW-1)

Print Form

For Internal Use Only:

1. Well Contractor Information:

T. Bolyard
Well Contractor Name

3307
NC Well Contractor Certification Number

Environmental Drilling & Probing Services, LLC (edps)
Company Name

2. Well Construction Permit #: _____
List all applicable well construction permits (i.e. UIC, County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:
- ☐ Agricultural
- ☐ Municipal/Public
- ☐ Geothermal (Heating/Cooling Supply)
- ☐ Residential Water Supply (single)
- ☐ Industrial/Commercial
- ☐ Residential Water Supply (shared)
- ☐ Irrigation

Non-Water Supply Well:
- ☑ Monitoring
- ☐ Recovery

Injection Well:
- ☐ Aquifer Recharge
- ☐ Groundwater Remediation
- ☐ Aquifer Storage and Recovery
- ☐ Salinity Barrier
- ☐ Aquifer Test
- ☐ Stormwater Drainage
- ☐ Experimental Technology
- ☐ Subsidence Control
- ☐ Geothermal (Closed Loop)
- ☐ Tracer
- ☐ Geothermal (Heating/Cooling Return)
- ☐ Other (explain under #21 Remarks)

4. Date Well(s) Completed: 7/21-7/23/2025 **Well ID#** MW-9

5a. Well Location:

Northgate Park
Facility/Owner Name

Facility ID# (if applicable)

300 W. Club Blvd. & 404 W. Lavender Ave. Durham NC
Physical Address, City, and Zip

Durham
County

Parcel Identification No (PIN)

5b. Latitude and longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

_____ N _____ W

6. Is(are) the well(s): ☑ **Permanent** or ☐ **Temporary**

7. Is this a repair to an existing well: ☐ **Yes** or ☑ **No**
If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. For Geoprobe/DPT or Closed-Loop Geothermal Wells having the same construction, only 1 GW-1 is needed. Indicate TOTAL NUMBER of wells drilled one

9. Total well depth below land surface: 1 @ 24 **(ft.)**
For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ **(ft.)**
If water level is above casing, use "-"

11. Borehole diameter: 8 **(in.)**

12. Well construction method: HSA
(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
14 ft.	0 ft.	2 in.	Sch. 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
24 ft.	14 ft.	2 in.	0.01	Sch. 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
12 ft.	10 ft.	Bentonite	pour
10 ft.	0 ft.	Grout	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
24 ft.	12 ft.	#2 med.	pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

_____ 7/28/25
Signature of Certified Well Contractor — Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:
You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary

SUBMITTAL INSTRUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Resources, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit one copy of this form within 30 days of completion of well construction to the following:

Division of Water Resources, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

Appendix III - S&ME Field Notes

LANDFILL GAS SCREENING FORM

Project Name:	**Northgate Park**	Location:	Durham, NC	**Meter Type/ Meter Name/ Serial No.:**				
NCDEQ ID No.:	**NONCD0000825**	Date:	5/22/2025	Gas Analyzer	GEM 5000	G500537		
S&ME Project No.:	**23050630**	Weather:	Sunny	PID	Mini Rae 3000	592-926385	Pre Calibration Time:	820
Task Order:	**821RI-10**	S&ME Personnel:	Jonathan Olanin / Bob Walton	Thermo Hygrometer	UEI OTH 10	00256M	Post Calibration Time:	

PRE Equipment Calibration					**Calibration Notes**	**POST Equipment Calibration**				
PID (Isobutylene)	0 ppm =	0	100 ppm =	101		PID (Isobutylene)	0 ppm =		100 ppm =	
Fresh Air	CH_4 (0%) =	0	O_2 (20.9%) =	21.1		Fresh Air	CH_4 (0%) =		O_2 (20.9%) =	
Methane High	CH_4 (50%) =	50	CO_2 (35%) =	35		Methane High	CH_4 (50%) =		CO_2 (35%) =	
	O_2 (0%) =	0					O_2 (0%)=			
H2S Mix	CH_4 (2.5%) =	2.5	O_2 (18%) =	18		H2S Mix	CH_4 (2.5%) =		O_2 (18%) =	
	H_2S (10 ppm) =	10	CO (50 ppm) =	50			H_2S (10 ppm) =		CO (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	08:45	0.0		0.0		0.1	19.7	0	29.77	46.0	47
BG-2	08:50	0.0		0.0		0.1	19.7	0	29.80		
BG-3	08:55	0.0		0.0		0.1	19.7	0	29.80		
BG-4	09:00	0.0		0.0		0.1	19.7	0	29.81		
AGV-1	09:08	0.0		0.0		0.1	19.7	0	29.77	46.0	47
AGV-2	09:13	0.0		0.0		0.1	19.6	0	29.80		
AGV-3	09:16	0.0		0.0		0.1	19.5	0	29.80		
AGV-4	09:20	0.0		0.0		0.1	19.5	0	29.81		
AGV-5	09:23	0.0		0.0		0.1	19.5	0	29.81		
AGV-6	09:26	0.0		0.0		0.1	19.5	0	29.82		
AGV-7	09:30	0.0		0.0		0.1	19.5	0	29.81		
AGV-8	09:34	0.0		0.0		0.1	19.5	0	29.82	46.0	47
AGV-9	09:37	0.0		0.0		0.1	19.5	0	29.82		
AGV-10	09:41	0.0		0.0		0.1	19.5	0	29.81		
AGV-11	09:43	0.0		0.0		0.1	19.5	0	29.81	46.0	47
AGV-12	09:45	0.0		0.0		0.1	19.5	0	29.81		
AGV-13	09:48	0.0		0.0		0.1	19.5	0	29.81		
AGV-14	09:50	0.0		0.0		0.1	19.5	0	29.81		
AGV-15	10:11	0.0		0.0		0.1	19.7	0	29.81		
AGV-16	10:14	0.0		0.0		0.1	19.7	0	29.81		
AGV-17	10:17	0.0		0.0		0.1	19.7	0	29.81		
AGV-18	10:19	0.0		0.0		0.1	19.6	0	29.82	50.0	33
AGV-19	10:22	0.0		0.0		0.1	19.6	0	29.82		

Name	**Signature**	**Date**	**Notes:**
(1) Jonathan Olanin		12/16/2025	

LANDFILL GAS SCREENING FORM

Project Name:	**Northgate Park**	Location:	Durham, NC	**Meter Type/ Meter Name/ Serial No.:**				
NCDEQ ID No.:	**NONCD0000825**	Date:	5/22/2025 and 5/23/2025	Gas Analyzer	GEM 5000	G500537		
S&ME Project No.:	**23050630**	Weather:	Sunny	PID	Mini Rae 3000	592-926385	Pre Calibration Time:	820
Task Order:	**821RI-10**	S&ME Personnel:	Jonathan Olanin / Bob Walton	Thermo Hygrometer	UEI OTH 10	00256M	Post Calibration Time:	

PRE Equipment Calibration					**Calibration Notes**	**POST Equipment Calibration**				
PID (Isobutylene)	0 ppm =	0	100 ppm =	101		PID (Isobutylene)	0 ppm =		100 ppm =	
Fresh Air	CH_4 (0%) =	0	O_2 (20.9%) =	21.1		Fresh Air	CH_4 (0%) =		O_2 (20.9%) =	
Methane High	CH_4 (50%) =	50	CO_2 (35%) =	35		Methane High	CH_4 (50%) =		CO_2 (35%) =	
	O_2 (0%) =	0					O_2 (0%)=			
H2S Mix	CH_4 (2.5%) =	2.5	O_2 (18%) =	18		H2S Mix	CH_4 (2.5%) =		O_2 (18%) =	
	H_2S (10 ppm) =	10	CO (50 ppm) =	50			H_2S (10 ppm) =		CO (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	%
AGV-20	10:25	0.0		0.0		0.1	19.7	0	29.82	50.0	33
AGV-21	10:28	0.0		0.0		0.1	19.7	0	29.82		
AGV-22	10:30	0.0		0.0		0.1	19.7	0	29.81		
AGV-23	10:34	0.0		0.0		0.1	19.7	0	29.81	56.0	32
AGV-24	10:38	0.0		0.0		0.1	19"7	0	29.82		
AGV-25	10:40	0.0		0.0		0.1	19.8	0	29.83		
AGV-27	10:47	0.0		0.0		0.1	19.8	0	29.83		
AGV-28	10:51	0.0		0.0		0.1	19.8	0	29.83		
AGV-29	10:55	0.0		0.0		0.1	19.8	0	29.83		
AGV-30	10:58	0.0		0.0		0.1	19.8	0	29.83	57.0	29
AGV-31	11:01	0.0		0.0		0.1	19.8	0	29.83		
AGV-32	11:04	0.0		0.0		0.1	19.7	0	29.83		
AGV-33	11:06	0.0		0.0		0.1	19.6	0	29.83		
AGV-34	11:08	0.0		0.0		0.1	19.6	0	29.83		
AGV-35	11:10	0.0		0.0		0.1	19.6	0	29.83		
AGV-36	11:12	0.0		0.0		0.1	19.6	0	29.83		
AGV-37	11:14	0.0		0.0		0.1	19..7	0	29.83		
AGV-38	11:18	0.0		0.0		0.1	19.5	0	29.83		
AGV-39	11:20	0.0		0.0		0.1	19.6	0	29.83		
AGV-40	11:21	0.0		0.0		0.1	19.6	0	29.83		
AGV-41	11:23	0.0		0.0		0.1	19.6	0	29.83		
AGV-42	11:25	0.0		0.0		0.1	19.6	0	29.83	59.0	27
SV-43	12:01	0.0		0.0		0.1	19.5	0	29.83	62.0	25

Name	**Signature**	**Date**	**Notes:**
(1) Jonathan Olanin		12/16/2025	**Grid #26 was inadvertantly skipped.**

LANDFILL GAS SCREENING FORM

Project Name:	**Northgate Park**	Location:	Durham, NC	**Meter Type/ Meter Name/ Serial No.:**				
NCDEQ ID No.:	**NONCD0000825**	Date:	5/22/2025 and 5/23/2025	Gas Analyzer	GEM 5000	G500537		
S&ME Project No.:	**23050630**	Weather:	Sunny	PID	Mini Rae 3000	592-926385	Pre Calibration Time:	820
Task Order:	**821RI-10**	S&ME Personnel:	Jonathan Olanin / Bob Walton	Thermo Hygrometer	UEI OTH 10	00256M	Post Calibration Time:	1300

PRE Equipment Calibration					**Calibration Notes**	**POST Equipment Calibration**				
PID (Isobutylene)	0 ppm =	0	100 ppm =	101		PID (Isobutylene)	0 ppm =	1	100 ppm =	102
Fresh Air	CH_4 (0%) =	0	O_2 (20.9%) =	21.1		Fresh Air	CH_4 (0%) =	0	O_2 (20.9%) =	19.5
Methane High	CH_4 (50%) =	50	CO_2 (35%) =	35		Methane High	CH_4 (50%) =	50	CO_2 (35%) =	
	O_2 (0%) =	0					O_2 (0%)=	0		
H2S Mix	CH_4 (2.5%) =	2.5	O_2 (18%) =	18		H2S Mix	CH_4 (2.5%) =	2.5	O_2 (18%) =	18
	H_2S (10 ppm) =	10	CO (50 ppm) =	50			H_2S (10 ppm) =	10	CO (50 ppm) =	50

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	%
AGV-44	12:04	0.0		0.0		0.1	19.5	0	29.83	62.0	25
AGV-45	12:07	0.0		0.0		0.1	19.4	0	29.83		
AGV-46	12:09	0.0		0.0		0.1	19.4	0	29.83		
AGV-47	12:11	0.0		0.0		0.1	19.4	0	29.83		
AGV-48	12:15	0.0		0.0		0.1	19.4	0	29.83		
AGV-49	12:17	0.0		0.0		0.1	19.5	0	29.83		
AGV-50	12:18	0.0		0.0		0.1	19.5	0	29.83		
AGV-51	12:20	0.0		0.0		0.1	19.5	0	29.83		
AGV-52	12:22	0.0		0.0		0.1	19.6	0	29.83	63.0	24
AGV-53	12:24	0.0		0.0		0.1	19.6	0	29.83		
AGV-54	12:26	0.0		0.0		0.1	19.6	0	29.83		
AGV-55	12:28	0.0		0.0		0.1	19.5	0	29.83		
AGV-56	12:30	0.0		0.0		0.1	19.5	0	29.81		
AGV-57	12:31	0.0		0.0		0.1	19.5	0	29.81		
AGV-58	12:33	0.0		0.0		0.1	19.5	0	29.81		
BG-1	12:40	0.0		0.0		0.1	19.5	0	29.81		
BG-2	12:45	0.0		0.0		0.1	19.5	0	29.81		
BG-3	12:50	0.0		0.0		0.1	19.5	0	29.81		
BG-4	12:55	0.0		0.0		0.1	19.5	0	29.81		

Name	**Signature**	**Date**	**Notes:**
(1) Jonathan Olanin		12/16/2025	**Grid #26 was inadvertantly skipped. Total of 57 screening locations.**

LANDFILL GAS SCREENING FORM

Project Name:	**Northgate Park**	Location:	Durham, NC	**Meter Type/ Meter Name/ Serial No.:**				
NCDEQ ID No.:	**NONCD0000825**	Date:	5/23/2025	Gas Analyzer	GEM 5000	G500537		
S&ME Project No.:	**23050630**	Weather:	Sunny	PID	Mini Rae 3000	592-926385	Pre Calibration Time:	820
Task Order:	**825RI-10**	S&ME Personnel:	Jonathan Olanin / Bob Walton	Thermo Hygrometer	UEI OTH 10	00256M	Post Calibration Time:	

PRE Equipment Calibration					**Calibration Notes**	**POST Equipment Calibration**			
PID (Isobutylene)	0 ppm =	0	100 ppm =	101	2 point calibration since CO/H2S/H2 gas cilindar threading was compromised.	PID (Isobutylene)	0 ppm =		100 ppm =
Fresh Air	CH_4 (0%) =	0	O_2 (20.9%) =	21.1		Fresh Air	CH_4 (0%) =		O_2 (20.9%) =
Methane High	CH_4 (50%) =	50	CO_2 (35%) =	35		Methane High	CH_4 (50%) =		CO_2 (35%) =
	O_2 (0%) =	0					O_2 (0%)=		
H2S Mix	CH_4 (2.5%) =	2.5	O_2 (18%) =	18		H2S Mix	CH_4 (2.5%) =		O_2 (18%) =
	H_2S (10 ppm) =	10	CO (50 ppm) =	50			H_2S (10 ppm) =		CO (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	09:45	0.0		0.2		0.6	18.8	0	30.00	71.9	35.3
BG-2	10:10	0.0		0.0		0.1	19.8	0	30.02	74.8	38.2
BG-3	12:30	0.0		0.0		0.0	19.7	0	29.68	81.3	26.6
BG-4	12:53	0.0		0.0		0.0	19.7	0	29.68	79.5	26.2
AGV-1	09:20	0.0		0.0		0.1	19.5	0	30.00	71.5	30.2
AGV-2	09:35	0.0		0.0		0.2	19.3	0	30.00	73.0	36.3
AGV-3	09:40	0.1		0.1		0.5	19.0	0	30.01	67.8	36.7
AGV-4	10:03	0.0		0.0		0.0	19.7	0	30.02	71.4	40.4
AGV-5	10:00	0.0		0.0		0.1	19.6	0	30.02	70.1	43.3
AGV-6	09:58	0.0		0.0		0.1	19.6	0	30.01	71.9	35.5
AGV-7	09:55	0.0		0.0		0.1	19.5	0	30.01	75.9	36
AGV-8	09:50	0.0		0.0		0.0	19.5	0	30.01	73.4	36.3
AGV-9	10:15	0.0		0.0		0.0	19.8	0	30.02	71.4	35.8
AGV-10	10:17	0.0		0.0		0.0	19.8	0	30.02	68.5	36.3
AGV-11	10:20	0.0		0.0		0.0	19.8	0	30.02	67.8	38.9
AGV-12	10:22	0.0		0.1		0.0	19.9	0	30.02	68.7	38.7
AGV-13	10:24	0.1		0.1		0.0	19.9	0	30.02	79.1	30.3
AGV-14	10:26	0.1		0.0		0.0	19.8	0	30.02	78.4	29.9
AGV-15	10:59	0.0		0.0		0.0	19.5	0	29.70	71.7	32
AGV-16	10:55	0.1		0.0		0.0	19.4	0	29.68	74.3	29.2
AGV-17	10:52	0.1		0.0		0.0	19.4	0	30.01	77.7	22.6
AGV-18	10:49	0.1		0.0		0.0	19.5	0	30.01	81.1	25.1
AGV-19	10:46	0.1		0.0		0.0	19.5	0	30.01	78.6	26.8

Name	**Signature**	**Date**	**Notes:**
(1) Jonathan Olanin		12/16/2025	

LANDFILL GAS SCREENING FORM

Project Name:	**Northgate Park**	Location:	Durham, NC	**Meter Type/ Meter Name/ Serial No.:**				
NCDEQ ID No.:	**NONCD0000825**	Date:	5/22/2025 and 5/23/2025	Gas Analyzer	GEM 5000	G500537		
S&ME Project No.:	**23050630**	Weather:	Sunny	PID	Mini Rae 3000	592-926385	Pre Calibration Time:	820
Task Order:	**825RI-10**	S&ME Personnel:	Jonathan Olanin / Bob Walton	Thermo Hygrometer	UEI OTH 10	00256M	Post Calibration Time:	

PRE Equipment Calibration					**Calibration Notes**	**POST Equipment Calibration**			
PID (Isobutylene)	0 ppm =	0	100 ppm =	101		PID (Isobutylene)	0 ppm =		100 ppm =
Fresh Air	CH_4 (0%) =	0	O_2 (20.9%) =	21.1		Fresh Air	CH_4 (0%) =		O_2 (20.9%) =
Methane High	CH_4 (50%) =	50	CO_2 (35%) =	35		Methane High	CH_4 (50%) =		CO_2 (35%) =
	O_2 (0%) =	0					O_2 (0%)=		
H2S Mix	CH_4 (2.5%) =	2.5	O_2 (18%) =	18		H2S Mix	CH_4 (2.5%) =		O_2 (18%) =
	H_2S (10 ppm) =	10	CO (50 ppm) =	50			H_2S (10 ppm) =		CO (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**	**%**
AGV-20	10:42	0.1		0.0		0.0	19.6	0	30.02	77.3	32.4
AGV-21	11:02	0.0		0.0		0.0	19.5	0	29.68	80.9	29.2
AGV-22	11:06	0.0		0.0		0.0	19.6	0	29.68	75.7	27.9
AGV-23	11:09	0.1		0.0		0.0	19.7	0	29.68	79.8	28.1
AGV-24	11:12	0.0		0.0		0.0	19.8	0	29.68	73.0	30.9
AGV-25	11:14	0.0		0.0		0.0	19.7	0	29.68	79.5	29.6
AGV-26	11:22	0.0		0.0		0.0	19.7	0	29.68	75.9	30.4
AGV-27	11:25	0.0		0.1		0.0	19.7	0	29.68	71.0	30.3
AGV-28	12:00	0.0		0.1		0.0	20.2	0	29.68	77.1	26.5
AGV-29	12:02	0.0		0.0		0.0	20.1	0	29.68	75.3	28.9
AGV-30	12:04	0.0		0.0		0.0	20.1	0	29.68	75.0	28.3
AGV-31	12:06	0.0		0.0		0.0	20.0	0	29.68	74.3	29.2
AGV-32	12:08	0.0		0.0		0.0	19.9	0	29.68	77.3	29.5
AGV-33	12:10	0.0		0.0		0.0	19.9	0	29.68	81.0	22.8
AGV-34	12:13	0.0		0.1		0.0	19.9	0	29.68	76.2	26.3
AGV-35	12:28	0.0		0.1		0.0	19.7	0	29.67	77.1	30.3
AGV-36	12:26	0.0		0.0		0.0	19.7	0	29.67	75.5	32
AGV-37	12:24	0.0		0.1		0.0	19.7	0	29.67	75.7	28.6
AGV-38	12:22	0.0		0.1		0.0	19.6	0	29.67	76.4	28.8
AGV-39	12:20	0.0		0.0		0.0	19.7	0	29.67	84.0	26.8
AGV-40	12:17	0.0		0.1		0.0	19.8	0	29.68	71.9	28.5
AGV-41	12:36	0.0		0.0		0.0	19.8	0	29.68	78.8	27.6

Name	**Signature**	**Date**	**Notes:**
(1) Jonathan Olanin		12/16/2025	

LANDFILL GAS SCREENING FORM

Project Name:	**Northgate Park**	Location:	Durham, NC	**Meter Type/ Meter Name/ Serial No.:**				
NCDEQ ID No.:	**NONCD0000825**	Date:	5/22/2025 and 5/23/2025	Gas Analyzer	GEM 5000	G500537		
S&ME Project No.:	**23050630**	Weather:	Sunny	PID	Mini Rae 3000	592-926385	Pre Calibration Time:	820
Task Order:	**825RI-10**	S&ME Personnel:	Jonathan Olanin / Bob Walton	Thermo Hygrometer	UEI OTH 10	00256M	Post Calibration Time:	1300

PRE Equipment Calibration					**Calibration Notes**
PID (Isobutylene)	0 ppm =	0	100 ppm =	101	
Fresh Air	CH_4 (0%) =	0	O_2 (20.9%) =	21.1	
Methane High	CH_4 (50%) =	50	CO_2 (35%) =	35	
	O_2 (0%) =	0			
H2S Mix	CH_4 (2.5%) =	2.5	O_2 (18%) =	18	
	H_2S (10 ppm) =	10	CO (50 ppm) =	50	

POST Equipment Calibration				
PID (Isobutylene)	0 ppm =	1	100 ppm =	102
Fresh Air	CH_4 (0%) =	0	O_2 (20.9%) =	19.5
Methane High	CH_4 (50%) =	50	CO_2 (35%) =	
	O_2 (0%)=	0		
H2S Mix	CH_4 (2.5%) =	2.5	O_2 (18%) =	18
	H_2S (10 ppm) =	10	CO (50 ppm) =	50

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	%
AGV-42	12:42	0.0		0.1		0.0	19.7	0	29.67	74.3	31.3
AGV-43	12:43	0.0		0.1		0.0	19.7	0	29.67	75.7	31
AGV-44	12:47	0.0		0.1		0.0	19.8	0	29.67	83.6	25.1
AGV-45	12:50	0.0		0.0		0.0	19.7	0	29.67	78.0	22.5
AGV-46	13:02	0.0		0.0		0.0	19.7	0	29.67	81.1	25.9
AGV-47	12:58	0.0		0.0		0.0	19.7	0	29.67	78.0	23.1
AGV-48	12:56	0.0		0.0		0.0	19.7	0	29.67	84.9	23.4
AGV-49	12:53	0.0		0.0		0.0	19.7	0	29.67	75.5	25.1

Name	Signature	Date	Notes:
(1) Jonathan Olanin		12/16/2025	**Grid #26 was inadvertantly skipped. Total of 57 screening locations.**

LANDFILL GAS SCREENING FORM

Project Name:	**Northgate Park AGVS**	Location:	300 W Club Blvd Durham NC 27704	**Meter Type/ Meter Name/ Serial No.:**				
NCDEQ ID No.:	**NONCD0000825**	Date:	6/5/2025	Gas Analyzer	GEM 5000			
S&ME Project No.:	**23050630**	Weather:	Sunny	PID	Mini Rae 3000	592-603681	Pre Calibration Time:	1045
Task Order:	**825RI-7**	S&ME Personnel:	C.Faircloth	Thermo Hygrometer	UEI OTH 10		Post Calibration Time:	

PRE Equipment Calibration					**Calibration Notes**	**POST Equipment Calibration**				
PID (Isobutylene)	0 ppm =	0	100 ppm =	100		PID (Isobutylene)	0 ppm =		100 ppm =	
Fresh Air	CH_4 (0%) =	0	O_2 (20.9%) =	20.8		Fresh Air	CH_4 (0%) =		O_2 (20.9%) =	
Methane High	CH_4 (50%) =	50	CO_2 (35%) =	35		Methane High	CH_4 (50%) =		CO_2 (35%) =	
	O_2 (0%) =	0					O_2 (0%)=			
H2S Mix	CH_4 (2.5%) =	2.4	O_2 (18%) =	18		H2S Mix	CH_4 (2.5%) =		O_2 (18%) =	
	H_2S (10 ppm) =	10	CO (50 ppm) =	50			H_2S (10 ppm) =		CO (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-01	10:50	0.0		0.0		0.0	18.6	0	29.86	81.0	62
BG-02	10:52	0.0		0.0		0.0	18.6	0	29.86	81.0	62
BG-03	10:54	0.0		0.0		0.0	18.8	0	29.86	81.0	62
BG-04	10:56	0.0		0.0		0.0	18.6	0	29.86	81.0	62
AG-01	10:58	0.0		0.0		0.0	18.5	0	29.86	81.0	62
AG-02	11:00	0.0		0.0		0.0	18.5	0	29.86	81.0	62
AG-03	11:02	0.0		0.0		0.0	18.5	0	29.86	81.0	62
AG-04	11:04	0.0		0.0		0.0	18.5	0	29.86	81.0	62
AG-05	11:06	0.0		0.0		0.0	18.6	0	29.86	81.0	62
AG-06	11:08	0.0		0.0		0.0	18.6	0	29.86	81.0	62
AG-07	11:09	0.0		0.0		0.0	18.5	0	29.86	81.0	62
AG-08	11:10	0.0		0.0		0.0	18.5	0	29.86	81.0	62
AG-09	11:12	0.0		0.0		0.0	18.5	0	29.86	81.0	62
AG-10	11:14	0.0		0.0		0.0	18.5	0	29.86	81.0	62
AG-11	11:16	0.0		0.0		0.0	18.5	0	29.86	81.0	60
AG-12	11:18	0.0		0.0		0.0	18.5	0	29.86	81.0	60
AG-13	11:20	0.0		0.0		0.0	18.5	0	29.86	81.0	60
AG-14	11:22	0.0		0.0		0.0	18.6	0	29.86	81.0	60
AG-15	11:24	0.0		0.0		0.0	18.6	0	29.86	81.0	60
AG-16	11:26	0.0		0.0		0.0	18.6	0	29.86	81.0	60
AG-17	11:28	0.0		0.0		0.0	18.6	0	29.86	81.0	60
AG-18	11:30	0.0		0.0		0.0	18.6	0	29.86	81.0	60
AG-19	11:32	0.0		0.0		0.0	18.6	0	29.86	81.0	60

Name	**Signature**	**Date**	**Notes:**
(1)			

LANDFILL GA

Project Name:	**Northgate Park AGVS**	Location:	300 W
NCDEQ ID No.:	**NONCD0000825**	Date:	
S&ME Project No.:	**23050630**	Weather:	
Task Order:	**825RI-7**	S&ME Personnel:	

PRE Equipment Calibration

PID (Isobutylene)	0 ppm =	0	100 ppm =	10
Fresh Air	CH_4 (0%) =	0	O_2 (20.9%) =	20
Methane High	CH_4 (50%) =	50	CO_2 (35%) =	3
	O_2 (0%) =	0		
H2S Mix	CH_4 (2.5%) =	2.4	O_2 (18%) =	1
	H_2S (10 ppm) =	10	CO (50 ppm) =	5

Sample Location	Time	VOCs		Methane	
ID	hr:min	ppm-v	%	volume	% L
BG-01	10:50	0.0		0.0	
BG-02	10:52	0.0		0.0	
BG-03	10:54	0.0		0.0	
BG-04	10:56	0.0		0.0	
AG-20	11:34	0.0		0.0	
AG-21	11:36	0.0		0.0	
AG-22	11:38	0.0		0.0	
AG-23	11:40	0.0		0.0	
AG-24	11:42	0.0		0.0	
AG-25	11:44	0.0		0.0	
AG-26	11:46	0.0		0.0	
AG-27	11:48	0.0		0.0	
AG-28	11:50	0.0		0.0	
AG-29	11:52	0.0		0.0	
AG-30	11:54	0.0		0.0	
AG-31	11:56	0.0		0.0	
AG-32	11:58	0.0		0.0	
AG-33	12:00	0.0		0.0	
AG-34	12:02	0.0		0.0	
AG-35	12:04	0.0		0.0	
AG-36	12:06	0.0		0.0	
AG-37	12:08	0.0		0.0	

Name **Signature**

(1)

S SCREENING FORM

/ Club Blvd Durham NC 27704		**Meter Type/ Meter Name/ Serial No.:**		
6/5/2025		Gas Analyzer	GEM 5000	
Sunny		PID	Mini Rae 3000	592-603681
C.Faircloth		Thermo Hygrometer	UEI OTH 10	

	Calibration Notes			**POST Equipment Calibrati**
00		PID (Isobutylene)	0 ppm =	
.8		Fresh Air	CH_4 (0%) =	
5		Methane High	CH_4 (50%) =	
			O_2 (0%)=	
8		H2S Mix	CH_4 (2.5%) =	
0			H_2S (10 ppm) =	

Screening Data

	Carbon Dioxide	**Oxygen**	**Hydrogen Sulfide**	**Barometric Pressure**
LEL	**%**	**%**	**ppm-v**	**in-Hg**
	0.0	18.6	0	29.86
	0.0	18.6	0	29.86
	0.0	18.8	0	29.86
	0.0	18.6	0	29.86
	0.0	18.7	0	29.86
	0.0	18.6	0	29.86
	0.0	18.6	0	29.86
	0.0	18.7	0	29.86
	0.0	18.5	0	29.86
	0.0	18.6	0	29.86
	0.0	18.7	0	29.86
	0.0	18.6	0	29.86
	0.0	18.6	0	29.86
	0.0	18.5	0	29.86
	0.0	18.5	0	29.86
	0.0	18.5	0	29.86
	0.0	18.6	0	29.86
	0.0	18.5	0	29.86
	0.0	18.6	0	29.86
	0.0	18.5	0	29.86
	0.0	18.5	0	29.86
	0.0	18.6	0	29.86

Date **Notes:**

_____

Pre Calibration Time:	
Post Calibration Time:	

on

100 ppm =	
O_2 (20.9%) =	
CO_2 (35%) =	
O_2 (18%) =	
CO (50 ppm) =	

Temperature	Humidity
°F	%
81.0	62
81.0	62
81.0	62
81.0	62
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60

LANDFILL GA

Project Name:	**Northgate Park AGVS**	Location:	300 W
NCDEQ ID No.:	**NONCD0000825**	Date:	
S&ME Project No.:	**23050630**	Weather:	
Task Order:	**825RI-7**	S&ME Personnel:	

PRE Equipment Calibration

PID (Isobutylene)	0 ppm =	0	100 ppm =	10
Fresh Air	CH_4 (0%) =	0	O_2 (20.9%) =	20
Methane High	CH_4 (50%) =	50	CO_2 (35%) =	3
	O_2 (0%) =	0		
H2S Mix	CH_4 (2.5%) =	2.4	O_2 (18%) =	1
	H_2S (10 ppm) =	10	CO (50 ppm) =	5

Sample Location	Time	VOCs		Methane	
ID	hr:min	ppm-v	%	volume	% L
BG-01	10:50	0.0		0.0	
BG-02	10:52	0.0		0.0	
BG-03	10:54	0.0		0.0	
BG-04	10:56	0.0		0.0	
AG-38	12:10	0.0		0.0	
AG-39	12:12	0.0		0.0	
AG-40	12:14	0.0		0.0	
AG-41	12:16	0.0		0.0	
AG-42	12:18	0.0		0.0	
AG-43	12:20	0.0		0.0	
AG-44	12:22	0.0		0.0	
AG-45	12:24	0.0		0.0	
AG-46	12:26	0.0		0.0	
AG-47	12:28	0.0		0.0	
AG-48	12:30	0.0		0.0	
AG-49	12:32	0.0		0.0	

Name **Signature**

(1)

S SCREENING FORM

/ Club Blvd Durham NC 27704	**Meter Type/ Meter Name/ Serial No.:**		
6/5/2025	Gas Analyzer	GEM 5000	
Sunny	PID	Mini Rae 3000	592-603681
C.Faircloth	Thermo Hygrometer	UEI OTH 10	

	Calibration Notes	POST Equipment Calibrati		
00		PID (Isobutylene)	0 ppm =	
0.8		Fresh Air	CH_4 (0%) =	
5		Methane High	CH_4 (50%) =	
			O_2 (0%)=	
8		H2S Mix	CH_4 (2.5%) =	
0			H_2S (10 ppm) =	

Screening Data

LEL	Carbon Dioxide	Oxygen	Hydrogen Sulfide	Barometric Pressure
	%	%	ppm-v	in-Hg
	0.0	18.6	0	29.86
	0.0	18.6	0	29.86
	0.0	18.8	0	29.86
	0.0	18.6	0	29.86
	0.0	18.6	0	29.86
	0.0	18.6	0	29.86
	0.0	18.5	0	29.86
	0.0	18.6	0	29.86
	0.0	18.4	0	29.86
	0.0	18.5	0	29.86
	0.0	18.5	0	29.86
	0.0	18.5	0	29.86
	0.0	18.6	0	29.86
	0.0	18.6	0	29.86
	0.0	18.6	0	29.86
	0.0	18.5	0	29.86

Date **Notes:**

_____

Pre Calibration Time:	
Post Calibration Time:	

on

100 ppm =	
O_2 (20.9%) =	
CO_2 (35%) =	
O_2 (18%) =	
CO (50 ppm) =	

Temperature	Humidity
°F	%
81.0	62
81.0	62
81.0	62
81.0	62
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60
81.0	60

LANDFILL GAS SCREENING FORM

Project Name:	**Northgate Park**	Location:	Durham, NC	**Meter Type/ Meter Name/ Serial No.:**				
NCDEQ ID No.:	**NONCD0000825**	Date:	8/22/2025	Gas Analyzer	GEM 5000			
S&ME Project No.:	**23050630**	Weather:	Sunny	PID	Mini Rae 3000		Pre Calibration Time:	830
Task Order:	**825RI-7**	S&ME Personnel:	Brandon Governo, Madison Allen	Thermo Hygrometer	UEI OTH 10		Post Calibration Time:	-

PRE Equipment Calibration					**Calibration Notes**	**POST Equipment Calibration**				
PID (Isobutylene)	0 ppm =	0	100 ppm =	101		PID (Isobutylene)	0 ppm =	0	100 ppm =	100
Fresh Air	CH_4 (0%) =	0	O_2 (20.9%) =	21.1		Fresh Air	CH_4 (0%) =	0	O_2 (20.9%) =	20.9
Methane High	CH_4 (50%) =	49.8	CO_2 (35%) =	35.6		Methane High	CH_4 (50%) =	49.9	CO_2 (35%) =	35.5
	O_2 (0%) =	0					O_2 (0%)=	0		
H2S Mix	CH_4 (2.5%) =	2.48	O_2 (18%) =	17.8		H2S Mix	CH_4 (2.5%) =	2.51	O_2 (18%) =	17.9
	H_2S (10 ppm) =	10	CO (50 ppm) =	49			H_2S (10 ppm) =	10	CO (50 ppm) =	50

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	09:55	0.0	0	0.0	0	0.0	20.1	0	29.77	80.0	60
BG-2	10:00	0.0	0	0.0	0	0.0	20.1	0	29.77	80.0	60
BG-3	10:05	0.0	0	0.0	0	0.0	20.1	0	29.77	80.0	60
BG-4	10:10	0.0	0	0.0	0	0.0	20.1	0	29.77	80.0	60
LFGP-1	10:30	0.0	0	0.00	0.00	0.3	18.8	0	29.77	80.00	59.00
LFGP-2	11:30	11.3	0	2.00	0.00	12.40	1.10	0	29.77	81.00	59.00
LFGP-3	11:50	0.0	0	not screened				0	29.78	82.00	60.00
LFGP-4	12:00	14.6	0	not screened				0	29.79	80.00	62.00
LFGP-5	12:15	0.5	0	not screened				0	29.80	81.00	62.00

Name	**Signature**	**Date**	**Notes:**
(1) Madison Allen	Mr Allen	8/22/2025	**Gem 5000 drew water into the input port through LFGP-1 tubing, causing it to stop working remainder of the day**

GROUNDWATER SAMPLING FORM

Project Name:	City of Durham Parks - Northgate Park		
Project Location:	Northgate Park		
Project Number:	23050630, Phase 821RI-7	Purge Date:	August 25, 2025
Source Well:	**MW-2**	Purge Time (Min.):	30
Locked?:	No	Sample Date:	August 25, 2025
Sampled By:	Brandon Governo and Madison Allen	Sample Time:	14:50
Weather:	Sunny	Air Temp:	82 ° F

Equipment Calibration Information:

Equipment	Date	Time	Calibration Solution	Calibration Check		
pH	8/25/25	08:15	4.00, 7.00, 10.00	4.0	7.0	10.0
Conductivity	8/25/25	08:15	1,413 µS/cm		1,413 µS/cm	

Water Level & Well Data

Measuring Point:	Top of Casing	
Depth to Water:	2.23	ft-TOC
Total Well Depth:	29.00	ft-TOC
Height of Water Column:	26.77	feet
Screen Length:	10	ft-GRD
Stickup Height:	0	ft-GRD

Well Volume		
Well Diameter	2	inch
Well Volume	4.4	gal
3 * Well Volume	13.1	gal
5 * Well Volume	21.8	gal

Well Purging Information

Purge Method: Peristaltic Pump **Purge Start Time:** 14:15 **End Time:** 14:45

Total Volume Purged: gal **Well Purged Dry?:** No

Field Parameters

Cumulative Volume (Gal)	Time	pH (s.u.)	Temp (°C)	Cond µS/cm	Turbidity NTU	Comments
	14:20	6.55	27.1	686	53	
	14:25	6.46	23.8	611	52	
	14:30	6.62	22.5	572	43	
	14:35	6.45	21.7	533	44	
	14:40	6.54	21.1	525	44	
	14:45	6.50	21.7	575	44	

Sample Method: Peristaltic Pump **Sample Time:** 14:50

Analytical Data

Method	Qty	Container	Pres.	Method	Qty	Container	Pres.
8260D-VOC NC 02L List	3	40 ml VOAs	HCl	0B-PRLF 16 Metals, inc. prep; 74	1	250 ml P	HNO3
8270E-SVOCs TCL OLM4.2	4	40 ml VOAs	None	350.1-Ammonia as N	1	250 ml P	H2SO4
8270E-SIM-MS-ID-1,4 Dioxane	2	250 ml A	None	350.1, 353.2			H2SO4
9056A-ORGFM-28D/48H	1	125 ml P	None	3.2 Nitrite, Nitrate Calc (48 hr ho			H2SO4

Name	Signature	Date
(1)		

Notes:

Form Revision Date: 9/13/17 8:00 AM

GROUNDWATER SAMPLING FORM

Project Name:	City of Durham Parks - Northgate Park		
Project Location:	Northgate Park		
Project Number:	23050630, Phase 821RI-7	Purge Date:	August 25, 2025
Source Well:	**MW-3**	Purge Time (Min.):	45
Locked?:	No	Sample Date:	August 25, 2025
Sampled By:	Brandon Governo and Madison Allen	Sample Time:	13:31
Weather:	Sunny	Air Temp:	82 ° F

Equipment Calibration Information:

Equipment	Date	Time	Calibration Solution	Calibration Check		
pH	8/25/25	08:15	4.00, 7.00, 10.00	4.0	7.0	10.0
Conductivity	8/25/25	08:15	1,413 µS/cm		1,413 µS/cm	

Water Level & Well Data

Measuring Point:	Top of Casing	
Depth to Water:	2.50	ft-TOC
Total Well Depth:	15.00	ft-TOC
Height of Water Column:	12.50	feet
Screen Length:	10	ft-GRD
Stickup Height:	0	ft-GRD

Well Volume		
Well Diameter	2	inch
Well Volume	2.0	gal
3 * Well Volume	6.1	gal
5 * Well Volume	10.2	gal

Well Purging Information

Purge Method: Peristaltic Pump **Purge Start Time:** 12:45 **End Time:** 13:30

Total Volume Purged: 1.8 gal **Well Purged Dry?:**

Field Parameters

Cumulative Volume (Gal)	Time	pH (s.u.)	Temp (°C)	Cond µS/cm	Turbidity NTU	Comments
0.2	12:50	6.9	24.8	717	67	
0.4	12:55	6.7	24.6	659	57	
0.6	13:00	6.8	24.4	664	61	
0.8	13:05	6.9	24.5	666	68	
1.0	13:10	7.7	24.4	698	65	
1.2	13:15	7.6	24.4	690	44	
1.4	13:20	7.4	25.4	918	44	
1.6	13:25	7.4	25.4	929	42	
1.8	13:30	7.4	25.5	951	44	

Sample Method: Peristaltic Pump **Sample Time:** 13:35

Analytical Data

Method	Qty	Container	Pres.	Method	Qty	Container	Pres.
8260D-VOC NC 02L List	3	40 ml VOAs	HCl	0B-PRLF 16 Metals, inc. prep; 74	1	250 ml P	HNO3
8270E-SVOCs TCL OLM4.2	4	40 ml VOAs	None	350.1-Ammonia as N	1	250 ml P	H2SO4
8270E-SIM-MS-ID-1,4 Dioxane	2	250 ml A	None	350.1, 353.2			H2SO4
9056A-ORGFM-28D/48H	1	125 ml P	None	3.2 Nitrite, Nitrate Calc (48 hr ho			H2SO4

Name	Signature	Date
(1)		

Notes: Duplicate-1 collected here.

Form Revision Date: 9/13/17 8:00 AM

GROUNDWATER SAMPLING FORM

Project Name:	City of Durham Parks - Northgate Park		
Project Location:	Northgate Park		
Project Number:	23050630, Phase 821RI-7	Purge Date:	August 25, 2025
Source Well:	**MW-4**	Purge Time (Min.):	
Locked?:	No	Sample Date:	August 25, 2025
Sampled By:	Brandon Governo and Madison Allen	Sample Time:	15:37
Weather:	Sunny	Air Temp:	82 ° F

Equipment Calibration Information:

Equipment	Date	Time	Calibration Solution	Calibration Check		
pH	8/25/25	08:15	4.00, 7.00, 10.00	4.0	7.0	10.0
Conductivity	8/25/25	08:15	1,413 µS/cm		1,413 µS/cm	

Water Level & Well Data

Measuring Point:	Top of Casing	
Depth to Water:		ft-TOC
Total Well Depth:	15.00	ft-TOC
Height of Water Column:	15.00	feet
Screen Length:	10	ft-GRD
Stickup Height:	0	ft-GRD

Well Volume		
Well Diameter	2	inch
Well Volume	2.4	gal
3 * Well Volume	7.3	gal
5 * Well Volume	12.2	gal

Well Purging Information

Purge Method: Peristaltic Pump **Purge Start Time:** 15:08 **End Time:** 15:37

Total Volume Purged: gal **Well Purged Dry?:** No

Field Parameters

Cumulative Volume (Gal)	Time	pH (s.u.)	Temp (°C)	Cond µS/cm	Turbidity NTU	Comments
	15:13	6.6	24.3	1,576	41	
	15:18	6.5	22.8	1,530	27	
	15:23	6.5	22.3	1,520	14	
	15:28	6.5	21.4	1,524	9.4	
	15:32	6.6	21.8	1,527	8.6	

Sample Method: Peristaltic Pump **Sample Time:** 15:37

Analytical Data

Method	Qty	Container	Pres.	Method	Qty	Container	Pres.
8260D-VOC NC 02L List	3	40 ml VOAs	HCl	0B-PRLF 16 Metals, inc. prep; 74	1	250 ml P	HNO3
8270E-SVOCs TCL OLM4.2	4	40 ml VOAs	None	350.1-Ammonia as N	1	250 ml P	H2SO4
8270E-SIM-MS-ID-1,4 Dioxane	2	250 ml A	None	350.1, 353.2			H2SO4
9056A-ORGFM-28D/48H	1	125 ml P	None	3.2 Nitrite, Nitrate Calc (48 hr ho			H2SO4

Name	Signature	Date
(1)		

Notes:

Form Revision Date: 9/13/17 8:00 AM

GROUNDWATER SAMPLING FORM

Project Name:	City of Durham Parks - Northgate Park		
Project Location:	Northgate Park		
Project Number:	23050630, Phase 821RI-7	Purge Date:	August 25, 2025
Source Well:	**MW-5**	Purge Time (Min.):	55
Locked?:	No	Sample Date:	August 25, 2025
Sampled By:	Brandon Governo and Madison Allen	Sample Time:	17:07
Weather:	Sunny	Air Temp:	82 ° F

Equipment Calibration Information:

Equipment	Date	Time	Calibration Solution	Calibration Check		
pH	8/25/25	08:15	4.00, 7.00, 10.00	4.0	7.0	10.0
Conductivity	8/25/25	08:15	1,413 µS/cm	1,413 µS/cm		

Water Level & Well Data

Measuring Point:	Top of Casing	
Depth to Water:	4.62	ft-TOC
Total Well Depth:	14.00	ft-TOC
Height of Water Column:	9.38	feet
Screen Length:	10	ft-GRD
Stickup Height:	0	ft-GRD

Well Volume		
Well Diameter	2	inch
Well Volume	1.5	gal
3 * Well Volume	4.6	gal
5 * Well Volume	7.7	gal

Well Purging Information

Purge Method: Peristaltic Pump **Purge Start Time:** 16:07 **End Time:** 17:02

Total Volume Purged: gal **Well Purged Dry?:**

Field Parameters

Cumulative Volume (Gal)	Time	pH (s.u.)	Temp (°C)	Cond µS/cm	Turbidity NTU	Comments
	16:12	6.35	22.8	1,173	36	
	16:17	6.44	22.3	1,175	40	
	16:22	6.37	22.8	1,168	118	
	16:27	6.43	22.8	884	112	
	16:32	6.37	22.2	893	95	
	16:37	6.42	23.3	902	89	
	16:42	6.37	22.3	923	74	
	16:47	6.44	22.4	942	63	
	16:52	6.37	22.4	950	48	
	16:57	6.43	22.4	963	48	
	17:02	6.38	22.6	977	47	

Sample Method: Peristaltic Pump **Sample Time:** 17:07

Analytical Data

Method	Qty	Container	Pres.	Method	Qty	Container	Pres.
8260D-VOC NC 02L List	3	40 ml VOAs	HCl	PRLF 16 Metals, inc. prep	1	250 ml P	HNO3
8270E-SVOCs TCL OLM4.2	4	40 ml VOAs	None	350.1-Ammonia as N	1	250 ml P	H2SO4
270E-SIM-MS-ID-1,4 Dioxan	2	250 ml A	None	350.1, 353.2			H2SO4
9056A-ORGFM-28D/48H	1	125 ml P	None	Nitrite, Nitrate Calc (48 h			H2SO4

Name	Signature	Date
(1)		

Notes:

Form Revision Date: 9/13/17 8:00 AM

GROUNDWATER SAMPLING FORM

Project Name:	City of Durham Parks - Northgate Park		
Project Location:	Northgate Park		
Project Number:	23050630, Phase 821RI-10	Purge Date:	August 26, 2025
Source Well:	**MW-6**	Purge Time (Min.):	30
Locked?:	No	Sample Date:	August 26, 2025
Sampled By:	Brandon Governo and Madison Allen	Sample Time:	10:25
Weather:	Sunny	Air Temp:	82 ° F

Equipment Calibration Information:

Equipment	Date	Time	Calibration Solution	Calibration Check		
pH	8/26/25	08:15	4.00, 7.00, 10.00	4.0	7.0	10.0
Conductivity	8/26/25	08:15	1,413 µS/cm	1,413 µS/cm		

Water Level & Well Data

Measuring Point:	Top of Casing	
Depth to Water:	3.65	ft-TOC
Total Well Depth:	17.00	ft-TOC
Height of Water Column:	13.35	feet
Screen Length:	10	ft-GRD
Stickup Height:	0	ft-GRD

Well Volume		
Well Diameter	2	inch
Well Volume	2.2	gal
3 * Well Volume	6.5	gal
5 * Well Volume	10.9	gal

Well Purging Information

Purge Method: Peristaltic Pump **Purge Start Time:** 09:50 **End Time:** 10:20

Total Volume Purged: gal **Well Purged Dry?:**

Field Parameters

Cumulative Volume (Gal)	Time	pH (s.u.)	Temp (°C)	Cond µS/cm	Turbidity NTU	Comments
	09:55	6.7	20.5	671	6.4	
	10:00	6.7	20.5	673	0.02	
	10:05	6.7	21.1	667	0.27	
	10:10	6.6	20.9	665	2.6	
	10:15	6.7	21	670	1.6	
	10:20	6.6	20.9	669	0.89	

Sample Method: Peristaltic Pump **Sample Time:** 10:25

Analytical Data

Method	Qty	Container	Pres.	Method	Qty	Container	Pres.
8260D-VOC NC 02L List	3	40 ml VOAs	HCl	PRLF 16 Metals, inc. prep	1	250 ml P	HNO3
8270E-SVOCs TCL OLM4.2	4	40 ml VOAs	None	350.1-Ammonia as N	1	250 ml P	H2SO4
270E-SIM-MS-ID-1,4 Dioxan	2	250 ml A	None	350.1, 353.2			H2SO4
9056A-ORGFM-28D/48H	1	125 ml P	None	Nitrite, Nitrate Calc (48 hr			H2SO4

Name	Signature	Date
(1)		

Notes:

Form Revision Date: 9/13/17 8:00 AM

GROUNDWATER SAMPLING FORM

Project Name:	City of Durham Parks - Northgate Park		
Project Location:	Northgate Park		
Project Number:	23050630, Phase 821RI-7	Purge Date:	August 26, 2025
Source Well:	**MW-7**	Purge Time (Min.):	25
Locked?:	No	Sample Date:	August 26, 2025
Sampled By:	Brandon Governo and Madison Allen	Sample Time:	11:17
Weather:	Sunny	Air Temp:	82 ° F

Equipment Calibration Information:

Equipment	Date	Time	Calibration Solution	Calibration Check		
pH	8/26/25	08:15	4.00, 7.00, 10.00	4.0	7.0	10.0
Conductivity	8/26/25	08:15	1,413 µS/cm	1,413 µS/cm		

Water Level & Well Data

Measuring Point:	Top of Casing	
Depth to Water:	3.14	ft-TOC
Total Well Depth:	13.50	ft-TOC
Height of Water Column:	10.36	feet
Screen Length:	10	ft-GRD
Stickup Height:	0	ft-GRD

Well Volume		
Well Diameter	2	inch
Well Volume	1.7	gal
3 * Well Volume	5.1	gal
5 * Well Volume	8.5	gal

Well Purging Information

Purge Method: Peristaltic Pump **Purge Start Time:** 10:47 **End Time:** 11:12

Total Volume Purged: gal **Well Purged Dry?:**

Field Parameters

Cumulative Volume (Gal)	Time	pH (s.u.)	Temp (°C)	Cond µS/cm	Turbidity NTU	Comments
	10:52	6.5	21.2	1,156	3.6	
	10:57	6.5	20.9	1,134	10	
	10:02	6.5	20.8	1,119	7.9	
	11:07	6.5	20.8	1,103	5.7	
	11:12	6.5	21.1	1,099	3.3	

Sample Method: Peristaltic Pump **Sample Time:** 11:17

Analytical Data

Method	Qty	Container	Pres.	Method	Qty	Container	Pres.
8260D-VOC NC 02L List	3	40 ml VOAs	HCl	PRLF 16 Metals, inc. prep	1	250 ml P	HNO3
8270E-SVOCs TCL OLM4.2	4	40 ml VOAs	None	350.1-Ammonia as N	1	250 ml P	H2SO4
270E-SIM-MS-ID-1,4 Dioxan	2	250 ml A	None	350.1, 353.2			H2SO4
9056A-ORGFM-28D/48H	1	125 ml P	None	Nitrite, Nitrate Calc (48 hr			H2SO4

Name	Signature	Date
(1)		

Notes:

Form Revision Date: 9/13/17 8:00 AM

GROUNDWATER SAMPLING FORM

Project Name:	City of Durham Parks - Northgate Park		
Project Location:	Northgate Park		
Project Number:	23050630, Phase 821RI-7	Purge Date:	August 26, 2025
Source Well:	**MW-8**	Purge Time (Min.):	43
Locked?:	No	Sample Date:	August 26, 2025
Sampled By:	Brandon Governo and Madison Allen	Sample Time:	12:33
Weather:	Sunny	Air Temp:	82 ° F

Equipment Calibration Information:

Equipment	Date	Time	Calibration Solution	Calibration Check		
pH	8/26/25	08:15	4.00, 7.00, 10.00	4.0	7.0	10.0
Conductivity	8/26/25	08:15	1,413 µS/cm	1,413 µS/cm		

Water Level & Well Data

Measuring Point:	Top of Casing	
Depth to Water:	2.72	ft-TOC
Total Well Depth:	16.50	ft-TOC
Height of Water Column:	13.78	feet
Screen Length:	10	ft-GRD
Stickup Height:	0	ft-GRD

Well Volume		
Well Diameter	2	inch
Well Volume	2.2	gal
3 * Well Volume	6.7	gal
5 * Well Volume	11.2	gal

Well Purging Information

Purge Method: Peristaltic Pump **Purge Start Time:** 11:45 **End Time:** 12:28

Total Volume Purged: gal **Well Purged Dry?:**

Field Parameters

Cumulative Volume (Gal)	Time	pH (s.u.)	Temp (°C)	Cond µS/cm	Turbidity NTU	Comments
	11:48	7.7	20.8	638	87	
	11:53	7.5	20.5	613	50	
	11:58	7.6	19.8	627	44	
	12:03	7.4	20.4	623	41	
	12:08	7.5	1935	628	35	
	12:13	7.4	19.5	631	17	
	12:18	7.5	19.9	632	20	
	12:23	7.5	19.5	634	16	
	12:28	7.4	19.4	634	10	

Sample Method: Peristaltic Pump **Sample Time:** 12:33

Analytical Data

Method	Qty	Container	Pres.	Method	Qty	Container	Pres.
8260D-VOC NC 02L List	3	40 ml VOAs	HCl	-PRLF 16 Metals, inc. prep;	1	250 ml P	HNO3
8270E-SVOCs TCL OLM4.2	4	40 ml VOAs	None	350.1-Ammonia as N	1	250 ml P	H2SO4
270E-SIM-MS-ID-1,4 Dioxan	2	250 ml A	None	350.1, 353.2			H2SO4
9056A-ORGFM-28D/48H	1	125 ml P	None	Nitrite, Nitrate Calc (48 hr			H2SO4

Name	Signature	Date
(1)		

Notes:

Form Revision Date: 9/13/17 8:00 AM

GROUNDWATER SAMPLING FORM

Project Name:	City of Durham Parks - Northgate Park		
Project Location:	Northgate Park		
Project Number:	23050630, Phase 821RI-7	Purge Date:	August 26, 2025
Source Well:	**MW-9**	Purge Time (Min.):	25
Locked?:	No	Sample Date:	August 26, 2025
Sampled By:	Brandon Governo and Madison Allen	Sample Time:	13:43
Weather:	Sunny	Air Temp:	82 ° F

Equipment Calibration Information:

Equipment	Date	Time	Calibration Solution	Calibration Check		
pH	8/26/25	08:15	4.00, 7.00, 10.00	4.0	7.0	10.0
Conductivity	8/26/25	08:15	1,413 µS/cm	1,413 µS/cm		

Water Level & Well Data

Measuring Point:	Top of Casing	
Depth to Water:	2.29	ft-TOC
Total Well Depth:	24.00	ft-TOC
Height of Water Column:	21.71	feet
Screen Length:	10	ft-GRD
Stickup Height:	0	ft-GRD

Well Volume		
Well Diameter	2	inch
Well Volume	3.5	gal
3 * Well Volume	10.6	gal
5 * Well Volume	17.7	gal

Well Purging Information

Purge Method: Peristaltic Pump **Purge Start Time:** 13:03 **End Time:** 13:38

Total Volume Purged: gal **Well Purged Dry?:**

Field Parameters

Cumulative Volume (Gal)	Time	pH (s.u.)	Temp (°C)	Cond µS/cm	Turbidity NTU	Comments
	13:08	7.1	21.9	927	52	
	13:13	7.0	20.7	926	49	
	13:18	7.0	20.4	905	44	
	13:23	7.0	20.6	899	28	
	13:28	7.0	20.4	903	20	
	13:33	6.9	20.3	897	11	
	13:38	7.0	20.7	901	14	

Sample Method: Peristaltic Pump **Sample Time:** 13:43

Analytical Data

Method	Qty	Container	Pres.	Method	Qty	Container	Pres.
8260D-VOC NC 02L List	3	40 ml VOAs	HCl	PRLF 16 Metals, inc. prep	1	250 ml P	HNO3
8270E-SVOCs TCL OLM4.2	4	40 ml VOAs	None	350.1-Ammonia as N	1	250 ml P	H2SO4
270E-SIM-MS-ID-1,4 Dioxan	2	250 ml A	None	350.1, 353.2			H2SO4
9056A-ORGFM-28D/48H	1	125 ml P	None	Nitrite, Nitrate Calc (48 hr			H2SO4

Name	Signature	Date
(1)		

Notes: Duplicate-2 collected here.

Form Revision Date: 9/13/17 8:00 AM

SOIL VAPOR FIELD SAMPLING FORM

Project Name:	Northgate Park		
Project Number:	23050630 - 825RI-7		
Location:	Durham, NC	**Date:**	9/4/2025
Weather:	Sunny	**Air Temp (°F):**	73
Helium Detector Serial No.:	Dielectric Helium Detector 42585 (Field Environmental Instruments)	**Calibration Date:**	9/3/2025

Sample Information					
Sample Type					
Sample ID	825-LFGP-5	825-LFGP-4	825-LFGP-3	825-LFGP-2	825-LFGP-1
Canister ID	6L2985	6L0116	6L0491	6L2226	6L1785
Regulator ID	24041	24379	23796	26666	2337
Canister Volume (L)	6	6	6	6	6
Leak Test Information					
Purge Method	Personal Pump	Personal Pump	Personal Pump	Personal Pump	Personal Pump
He Concentration in Shroud (%)	15.4	16.8	15.5	15.6	14.9
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)
	3	0	12	3	0	12	3	0	12	3	0	12	3	0	12
Sand Pack Interval Depth (in-bgs)	24	to	36	24	to	36	24	to	36	24	to	36	24	to	36
Volume (mL)	263			263			263			263			263		
Purge Flow Rate (mL/min)	200			200			200			200			200		
Purge Interval (3x Vol.) (min)	3.9			3.9			3.9			3.9			3.9		
Actual Purge Time (min)	12.0			12.0			12.0			12.0			20.0		
Sample Collection															
Start Time	13:35			13:10			12:50			12:20			11:45		
Initial Vacuum (inHg)	28			30			30			29			30		
End Time	16:30			16:15			15:50			15:05			14:50		
Final Vacuum (inHg)	5			8			4			6			7		
Approximate Total Time (min)	175			185			180			165			185		
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: Brandon Governo and Clay Faircloth Sampler Signature: Date: 9/4/2025

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

Revision Date: 5/3/18 11:30

SOIL VAPOR FIELD SAMPLING FORM

Project Name:	Northgate Park		
Project Number:	23050630 - 825RI-7		
Location:	Durham, NC	**Date:**	9/4/2025
Weather:	Sunny	**Air Temp (°F):**	73
Helium Detector Serial No.:	Dielectric Helium Detector 42585 (Field Environmental Instruments)	**Calibration Date:**	9/3/2025

Sample Information					
Sample Type					
Sample ID	825-LFGP-DUP				
Canister ID	6L0775				
Regulator ID	2321				
Canister Volume (L)	6				
Leak Test Information					
Purge Method	Personal Pump				
He Concentration in Shroud (%)	14.7				
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)
→	3	0	12												
Sand Pack Interval Depth (in-bgs)	24	to	36												
Volume (mL)	263														
Purge Flow Rate (mL/min)	200														
Purge Interval (3x Vol.) (min)	3.9														
Actual Purge Time (min)	20.0														

Sample Collection					
Start Time	13:35				
Initial Vacuum (inHg)	27				
End Time	16:30				
Final Vacuum (inHg)	7				
Approximate Total Time (min)	175				
Sample Analysis	VOCs by TO-15				

Sampler Information

Sampled by: Brandon Governo and Clay Faircloth Sampler Signature: Date: 9/4/2025

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. LFGP-DUP-01 taken at LFGP-1.
3. Samples taken on 9-4 starting with LFGP-9

Revision Date: 5/3/18 11:30

GROUNDWATER SAMPLING FORM

Project Name:	City of Durham Parks - Northgate Park		
Project Location:	Durham, Durham County, North Carolina		
Project Number:	23050630	Purge Date:	10.31.2025
Source Well:	**MW-2**	Purge Time (Min.):	30
Locked?:	No	Sample Date:	10.31.2025
Sampled By:	Clay Faircloth	Sample Time:	15:20
Weather:	Sunny	Air Temp:	63 ° F

Equipment Calibration Information:

Equipment	Date	Time	Calibration Solution	Calibration Check		
pH	10.29.2025	08:45	4.00, 7.00, 10.00	4.0	7.0	10.0
Conductivity	10.29.2025	09:45	1,413 µS/cm	1,413 µS/cm		

Water Level & Well Data

Measuring Point:	Top of Casing	
Depth to Water:		ft-TOC
Total Well Depth:	29.00	ft-TOC
Height of Water Column:	29.00	feet
Screen Length:	10	ft-GRD
Stickup Height:	0	ft-GRD

Well Volume		
Well Diameter	2	inch
Well Volume	4.7	gal
3 * Well Volume	14.2	gal
5 * Well Volume	23.7	gal

Well Purging Information

Purge Method: Peristaltic Pump **Purge Start Time:** 14:45 **End Time:** 15:15

Total Volume Purged: gal **Well Purged Dry?:** No

Field Parameters

Cumulative Volume (Gal)	Time	pH (s.u.)	Temp (°C)	Cond µS/cm	Turbidity NTU	Comments
	14:45	6.7	21.3	471	3.9	
	15:15	6.8	19.4	416	1.5	

Sample Method: Peristaltic Pump **Sample Time:** 15:20

Analytical Data

Method	Qty	Container	Pres.	Method	Qty	Container	Pres.
8260D-VOC NC 02L List	3	40 ml VOAs	HCl	3-PRLF 16 Metals, inc. prep; 7	1	250 ml P	HNO3
8270E-SVOCs TCL OLM4.2	4	40 ml VOAs	None	350.1-Ammonia as N	1	250 ml P	H2SO4
8270E-SIM-MS-ID-1,4 Dioxane	2	250 ml A	None	Sulfate 300.0	1	250mL P	None
9056A-ORGFM-28D/48H	1	125 ml P	None				

Name	Signature	Date
(1) Clay Faircloth		12/16/2025

Notes:

Form Revision Date: 9/13/17 8:00 AM

GROUNDWATER SAMPLING FORM

Project Name:	City of Durham Parks - Northgate Park		
Project Location:	Durham, Durham County, North Carolina		
Project Number:	23050630	Purge Date:	October 31, 2025
Source Well:	**MW-3**	Purge Time (Min.):	45
Locked?:	No	Sample Date:	October 31, 2025
Sampled By:	Clay Faircloth	Sample Time:	14:10
Weather:	Sunny	Air Temp:	64 ° F

Equipment Calibration Information:

Equipment	Date	Time	Calibration Solution	Calibration Check		
pH	10.29.2025	08:45	4.00, 7.00, 10.00	4.0	7.0	10.0
Conductivity	10.29.2025	09:45	1,413 µS/cm		1,413 µS/cm	

Water Level & Well Data

Measuring Point:	Top of Casing	
Depth to Water:	3.54	ft-TOC
Total Well Depth:	15.00	ft-TOC
Height of Water Column:	11.46	feet
Screen Length:	10	ft-GRD
Stickup Height:	0	ft-GRD

Well Volume		
Well Diameter	2	inch
Well Volume	1.9	gal
3 * Well Volume	5.6	gal
5 * Well Volume	9.4	gal

Well Purging Information

Purge Method: Peristaltic Pump **Purge Start Time:** 13:25 **End Time:** 13:55

Total Volume Purged: 1.4 gal **Well Purged Dry?:** No

Field Parameters

Cumulative Volume (Gal)	Time	pH (s.u.)	Temp (°C)	Cond µS/cm	Turbidity NTU	Comments
0.0	13:25	6.7	19.1	526	32	
0.2	13:30	6.7	19.2	541	28	
0.4	13:35	6.7	19.3	543	27	
0.6	13:40	6.7	19.5	554	25	
0.8	13:45	6.7	19.6	568	23	
1.0	13:50	6.7	19.7	575	22	
1.2	13:55	6.7	19.7	581	19	
1.4	14:00	6.7	19.7	581	13	

Sample Method: Peristaltic Pump **Sample Time:** 14:10

Analytical Data

Method	Qty	Container	Pres.	Method	Qty	Container	Pres.
8260D-VOC NC 02L List	3	40 ml VOAs	HCl	3-PRLF 16 Metals, inc. prep; 7	1	250 ml P	HNO3
8270E-SVOCs TCL OLM4.2	4	40 ml VOAs	None	350.1-Ammonia as N	1	250 ml P	H2SO4
8270E-SIM-MS-ID-1,4 Dioxane	2	250 ml A	None	Sulfate 300.0	1	250mL P	None
9056A-ORGFM-28D/48H	1	125 ml P	None				

Name	Signature	Date
(1) Clay Faircloth		12/16/2025

Notes:

GROUNDWATER SAMPLING FORM

Project Name:	City of Durham Parks - Northgate Park		
Project Location:	Durham, Durham County, North Carolina		
Project Number:	23050630	Purge Date:	October 31, 2025
Source Well:	**MW-7**	Purge Time (Min.):	40
Locked?:	No	Sample Date:	10.31.2025
Sampled By:	Clay Faircloth	Sample Time:	12:35
Weather:	Sunny	Air Temp:	64 ° F

Equipment Calibration Information:

Equipment	Date	Time	Calibration Solution	Calibration Check		
pH	10.29.2025	08:45	4.00, 7.00, 10.00	4.0	7.0	10.0
Conductivity	10.29.2025	09:45	1,413 µS/cm	1,413 µS/cm		

Water Level & Well Data

Measuring Point:	Top of Casing	
Depth to Water:	4.65	ft-TOC
Total Well Depth:	13.50	ft-TOC
Height of Water Column:	8.85	feet
Screen Length:	10	ft-GRD
Stickup Height:	0	ft-GRD

Well Volume		
Well Diameter	2	inch
Well Volume	1.4	gal
3 * Well Volume	4.3	gal
5 * Well Volume	7.2	gal

Well Purging Information

Purge Method: | **Purge Start Time:** 11:50 | **End Time:** 12:30

Total Volume Purged: 2.2 gal | **Well Purged Dry?:**

Field Parameters

Cumulative Volume (Gal)	Time	pH (s.u.)	Temp (°C)	Cond µS/cm	Turbidity NTU	Comments
0.0	11:50	6.6	18.1	844	12	
0.2	11:55	6.6	19.4	855	19	
0.4	12:00	6.6	19.6	863	12	
0.6	12:05	6.6	19.9	869	30	
0.8	12:10	6.5	19.6	962	12	
1.0	12:15	6.5	19.6	970	13	
1.4	12:20	6.5	19.6	940	6.6	
1.8	12:25	6.5	19.5	951	2.8	
2.2	12:30	6.5	19.5	957	2.0	

Sample Method: Peristaltic Pump | **Sample Time:** 12:35

Analytical Data

Method	Qty	Container	Pres.	Method	Qty	Container	Pres.
8260D-VOC NC 02L Lis	3	40 ml VOAs	HCl	RLF 16 Metals, inc. pre	1	250 ml P	HNO3
270E-SVOCs TCL OLM4	4	40 ml VOAs	None	350.1-Ammonia as N	1	250 ml P	H2SO4
0E-SIM-MS-ID-1,4 Diox	2	250 ml A	None	Sulfate 300.0	1	250mL P	None
8056A-ORGFM-28D/48I	1	125 ml P	None				

Name		Signature	Date
(1)	Clay Faircloth		12/16/2025

Notes: Suspended particles observed in purge water. Lowered tubing and picked up purge flow rate to try to clear out particles a bit.

GROUNDWATER SAMPLING FORM

Project Name:	City of Durham Parks - Northgate Park		
Project Location:	Durham, Durham County, North Carolina		
Project Number:	23050630	Purge Date:	October 31, 2025
Source Well:	**MW-8**	Purge Time (Min.):	25
Locked?:	No	Sample Date:	October 31, 2025
Sampled By:	Clay Faircloth	Sample Time:	11:05
Weather:	Sunny	Air Temp:	65 ° F

Equipment Calibration Information:

Equipment	Date	Time	Calibration Solution	Calibration Check		
pH	10.29.2025	08:45	4.00, 7.00, 10.00	4.0	7.0	10.0
Conductivity	10.29.2025	09:00	1,413 µS/cm	1,413 µS/cm		

Water Level & Well Data

Measuring Point:	Top of Casing	
Depth to Water:	4.25	ft-TOC
Total Well Depth:	16.50	ft-TOC
Height of Water Column:	12.25	feet
Screen Length:	10	ft-GRD
Stickup Height:	0	ft-GRD

Well Volume		
Well Diameter	2	inch
Well Volume	2.0	gal
3 * Well Volume	6.0	gal
5 * Well Volume	10.0	gal

Well Purging Information

Purge Method: | **Purge Start Time:** 10:35 | **End Time:** 11:00

Total Volume Purged: 1.0 gal | **Well Purged Dry?:**

Field Parameters

Cumulative Volume (Gal)	Time	pH (s.u.)	Temp (°C)	Cond µS/cm	Turbidity NTU	Comments
0.0	10:35	7.6	16.8	488	3.9	
0.2	10:40	7.6	16.8	490	2.6	
0.4	10:45	7.6	16.6	491	3.3	
0.6	10:50	7.6	16.7	494	2.3	
0.8	10:55	7.6	16.9	494	3.1	
1.0	11:00	7.6	17	495	2.0	

Sample Method: Peristaltic Pump | **Sample Time:** 11:05

Analytical Data

Method	Qty	Container	Pres.	Method	Qty	Container	Pres.
8260D-VOC NC 02L Lis	3	40 ml VOAs	HCl	RLF 16 Metals, inc. pre	1	250 ml P	HNO3
270E-SVOCs TCL OLM4	4	40 ml VOAs	None	350.1-Ammonia as N	1	250 ml P	H2SO4
0E-SIM-MS-ID-1,4 Diox	2	250 ml A	None	Sulfate 300.0	1	250mL P	None
8056A-ORGFM-28D/48I	1	125 ml P	None				

Name		Signature	Date
(1)	Clay Faircloth		12/16/2025

Notes:

Form Revision Date: 9/13/17 8:00 AM

GROUNDWATER SAMPLING FORM

Project Name:	City of Durham Parks - Northgate Park		
Project Location:	Durham, Durham County, North Carolina		
Project Number:	23050630	Purge Date:	10.31.2025
Source Well:	**MW-4**	Purge Time (Min.):	25
Locked?:	No	Sample Date:	10.31.2025
Sampled By:	Brandon Governo	Sample Time:	15:20
Weather:	Sunny	Air Temp:	61 ° F

Equipment Calibration Information:

Equipment	Date	Time	Calibration Solution	Calibration Check		
pH	10.29.2025	08:15	4.00, 7.00, 10.00	4.0	6.9	10.0
Conductivity	10.29.2025	08:15	1,413 µS/cm	1,414 µS/cm		

Water Level & Well Data

Measuring Point:	Top of Casing	
Depth to Water:	4.55	ft-TOC
Total Well Depth:	15.00	ft-TOC
Height of Water Column:	10.45	feet
Screen Length:	10	ft-GRD
Stickup Height:	0	ft-GRD

Well Volume		
Well Diameter	2	inch
Well Volume	1.7	gal
3 * Well Volume	5.1	gal
5 * Well Volume	8.5	gal

Well Purging Information

Purge Method: Peristaltic Pump **Purge Start Time:** 14:50 **End Time:** 15:15

Total Volume Purged: 1.0 gal **Well Purged Dry?:** No

Field Parameters

Cumulative Volume (Gal)	Time	pH (s.u.)	Temp (°C)	Cond µS/cm	Turbidity (NTU)	Comments
0.0	14:50	6.3	18.2	1,142	13	
0.2	14:55	6.1	18.6	1,091	7.1	4.98
0.4	15:00	6.2	18.7	1,090	3.9	
0.6	15:05	6.2	18.6	1,110	6.8	5.02
0.8	15:10	6.2	18.6	1,114	4.9	
1.0	15:15	6.2	18.6	1,115	3.1	5.05

Sample Method: Peristaltic Pump **Sample Time:** 15:20

Analytical Data

Method	Qty	Container	Pres.	Method	Qty	Container	Pres.
8260D-VOC NC 02L List	3	40 ml VOAs	HCl	3-PRLF 16 Metals, inc. prep; 7	1	250 ml P	HNO3
8270E-SVOCs TCL OLM4.2	4	40 ml VOAs	None	350.1-Ammonia as N	1	250 ml P	H2SO4
8270E-SIM-MS-ID-1,4 Dioxane	2	250 ml A	None	Sulfate 300.0	1	250mL P	None
9056A-ORGFM-28D/48H	1	125 ml P	None				

Name	Signature	Date
(1) Brandon Governo		12/16/2025

Notes:

Form Revision Date: 9/13/17 8:00 AM

GROUNDWATER SAMPLING FORM

Project Name:	City of Durham Parks - Northgate Park		
Project Location:	Durham, Durham County, North Carolina		
Project Number:	23050630	Purge Date:	10.31.2025
Source Well:	**MW-5**	Purge Time (Min.):	25
Locked?:	No	Sample Date:	10.31.2025
Sampled By:	Brandon Governo	Sample Time:	Not Sampled
Weather:	Sunny	Air Temp:	54 ° F

Equipment Calibration Information:

Equipment	Date	Time	Calibration Solution	Calibration Check		
pH	10.29.2025	08:15	4.00, 7.00, 10.00	4.0	6.9	10.0
Conductivity	10.29.2025	08:15	1,413 µS/cm	1,414 µS/cm		

Water Level & Well Data

Measuring Point:	Top of Casing	
Depth to Water:	6.31	ft-TOC
Total Well Depth:	14.00	ft-TOC
Height of Water Column:	7.69	feet
Screen Length:	10	ft-GRD
Stickup Height:	0	ft-GRD

Well Volume		
Well Diameter	2	inch
Well Volume	1.3	gal
3 * Well Volume	3.8	gal
5 * Well Volume	6.3	gal

Well Purging Information

Purge Method: Peristaltic Pump **Purge Start Time:** 12:50 **End Time:** 13:15

Total Volume Purged: 0.6 gal **Well Purged Dry?:** No

Field Parameters

Cumulative Volume (Gal)	Time	pH (s.u.)	Temp (°C)	Cond µS/cm	Turbidity (NTU)	Comments
0.0	12:50	6.1	18.8	902	138	
0.2	12:55	6.1	17.5	885	488	8.96
0.4	13:00	6.2	18	909	612	
0.6	13:05	6.2	18.1	925	455	

Sample Method: Peristaltic Pump **Sample Time:** NA

Analytical Data

Method	Qty	Container	Pres.	Method	Qty	Container	Pres.
8260D-VOC NC 02L List	3	40 ml VOAs	HCl	3-PRLF 16 Metals, inc. prep; 7	1	250 ml P	HNO3
8270E-SVOCs TCL OLM4.2	4	40 ml VOAs	None	350.1-Ammonia as N	1	250 ml P	H2SO4
8270E-SIM-MS-ID-1,4 Dioxane	2	250 ml A	None	Sulfate 300.0	1	250mL P	None
9056A-ORGFM-28D/48H	1	125 ml P	None				

Name	Signature	Date
(1) Brandon Governo		12/16/2025

Notes: High turbidity; Pulled tubing due to clogging. Could only purge for ten minutes before water became highly turbid. DID NOT SAMPLE

Form Revision Date: 9/13/17 8:00 AM

GROUNDWATER SAMPLING FORM

Project Name:	City of Durham Parks - Northgate Park		
Project Location:	Durham, Durham County, North Carolina		
Project Number:	23050630	Purge Date:	10.31.2025
Source Well:	**MW-6**	Purge Time (Min.):	30
Locked?:	No	Sample Date:	10.31.2025
Sampled By:	Brandon Governo	Sample Time:	12:10
Weather:	Sunny	Air Temp:	62 ° F

Equipment Calibration Information:

Equipment	Date	Time	Calibration Solution	Calibration Check		
pH	10.29.2025	08:15	4.00, 7.00, 10.00	4.0	6.9	10.0
Conductivity	10.29.2025	08:15	1,413 µS/cm	1,414 µS/cm		

Water Level & Well Data

Measuring Point:	Top of Casing	
Depth to Water:	5.64	ft-TOC
Total Well Depth:	17.00	ft-TOC
Height of Water Column:	11.36	feet
Screen Length:	10	ft-GRD
Stickup Height:	0	ft-GRD

Well Volume		
Well Diameter	2	inch
Well Volume	1.9	gal
3 * Well Volume	5.6	gal
5 * Well Volume	9.3	gal

Well Purging Information

Purge Method: Peristaltic Pump **Purge Start Time:** 11:35 **End Time:** 12:05

Total Volume Purged: 1.4 gal **Well Purged Dry?:** No

Field Parameters

Cumulative Volume (Gal)	Time	pH (s.u.)	Temp (°C)	Cond µS/cm	Turbidity (NTU)	Comments
0.0	11:35	6.3	17.9	671	2.6	
0.2	11:40	6.1	18.3	663	2.1	5.92
0.4	11:45	6.1	18.6	659	2.1	
0.6	11:50	6.1	18.7	649	2.2	5.95
0.8	11:55	6.1	18.7	645	1.8	
1.0	12:00	6.1	18.7	650	2.5	5.96
1.4	12:05	6.1	18.7	654	2.6	

Sample Method: Peristaltic Pump **Sample Time:** 12:10

Analytical Data

Method	Qty	Container	Pres.	Method	Qty	Container	Pres.
8260D-VOC NC 02L List	3	40 ml VOAs	HCl	3-PRLF 16 Metals, inc. prep; 7	1	250 ml P	HNO3
8270E-SVOCs TCL OLM4.2	4	40 ml VOAs	None	350.1-Ammonia as N	1	250 ml P	H2SO4
8270E-SIM-MS-ID-1,4 Dioxane	2	250 ml A	None	Sulfate 300.0	1	250mL P	None
9056A-ORGFM-28D/48H	1	125 ml P	None				

Name	Signature	Date
(1) Brandon Governo		12/16/2025

Notes:

Form Revision Date: 9/13/17 8:00 AM

GROUNDWATER SAMPLING FORM

Project Name:	City of Durham Parks - Northgate Park		
Project Location:	Durham, Durham County, North Carolina		
Project Number:	23050630	Purge Date:	10.31.2025
Source Well:	**MW-9**	Purge Time (Min.):	25
Locked?:	No	Sample Date:	10.31.2025
Sampled By:	Brandon Governo	Sample Time:	10:50
Weather:	Sunny	Air Temp:	62 ° F

Equipment Calibration Information:

Equipment	Date	Time	Calibration Solution	Calibration Check		
pH	10.29.2025	08:15	4.00, 7.00, 10.00	4.0	6.9	10.0
Conductivity	10.29.2025	08:15	1,413 µS/cm	1,414 µS/cm		

Water Level & Well Data

Measuring Point:	Top of Casing	
Depth to Water:	4.13	ft-TOC
Total Well Depth:	24.00	ft-TOC
Height of Water Column:	19.87	feet
Screen Length:	10	ft-GRD
Stickup Height:	0	ft-GRD

Well Volume		
Well Diameter	2	inch
Well Volume	3.2	gal
3 * Well Volume	9.7	gal
5 * Well Volume	16.2	gal

Well Purging Information

Purge Method: Peristaltic Pump **Purge Start Time:** 10:20 **End Time:** 10:45

Total Volume Purged: 1.0 gal **Well Purged Dry?:** No

Field Parameters

Cumulative Volume (Gal)	Time	pH (s.u.)	Temp (°C)	Cond µS/cm	Turbidity (NTU)	Comments
0.0	10:20	6.8	16.3	760	2.5	
0.2	10:25	6.6	17.6	745	4.0	4.22
0.4	10:30	6.6	18	700	2.0	
0.6	10:35	6.5	17.9	704	1.6	4.25
0.8	10:40	6.4	17.9	706	0.89	
1.0	10:45	6.4	17.9	706	2.2	4.25

Sample Method: Peristaltic Pump **Sample Time:** 10:50

Analytical Data

Method	Qty	Container	Pres.	Method	Qty	Container	Pres.
8260D-VOC NC 02L List	3	40 ml VOAs	HCl	3-PRLF 16 Metals, inc. prep; 7	1	250 ml P	HNO3
8270E-SVOCs TCL OLM4.2	4	40 ml VOAs	None	350.1-Ammonia as N	1	250 ml P	H2SO4
8270E-SIM-MS-ID-1,4 Dioxane	2	250 ml A	None	Sulfate 300.0	1	250mL P	None
9056A-ORGFM-28D/48H	1	125 ml P	None				

Name	Signature	Date
(1) Brandon Governo		12/16/2025

Notes:

Form Revision Date: 9/13/17 8:00 AM

Environmental Field Report	
Date: 10/3/2025	**Job Number:** 23050630
Project Name: City of Durham Parks Northgate Park SED/SW Sampling	**Weather/Temperature:** 60°F
Project Location: 300 W. Club Blvd & 404 W. Lavender Avenue, Durham, NC	
Notes By: ☒ ☐	**Present at the Site:** Jonathan Olanin

Equipment Used
iPad
Sampling Tools
Multipurpose Meter
Turbidity Meter
Trimble GPS Unit "E"

Purpose: Sample the sediment and surface water along the waterway at Northgate Park.

- Arrive at the site. Scout the park area.

- Calibration of the multipurpose meter (Hanna HI98129):

Calibration of the turbidity meter (LaMotte 2020wi 1803-0312)

- Set out to sample the sediment and surface water at the designated locations. See the table below for sampling times, data, and information. I log location waypoints at the sampling locations with the Trimble GPS Unit "E."

Sampling Time	Sediment ID	Surface Water ID	pH	Conductivity (uS/cm)	Temperature (°C)	Turbidity (NTU)	Relative Flow
0940	SED-1	SW-1	7.26	206	12.1	8.81	Low
1025	SED-2	SW-2	7.25	118.6	11.8	8.67	Low
1110	SED-3	SW-3	7.19	118.2	13.0	9.70	Low
1155	SED-4	SW-4	7.17	122.9	13.7	4.76	Low
1155	SED-DUP	SW-DUP	7.17	122.9	13.7	4.76	Low
1325	SED-5	SW-5	7.38	120.2	15.9	6.16	Low
1415	SED-6	SW-6	7.25	127.6	14.9	5.38	Med

Hours	Mileage	Signature of S&ME Personnel
6.0	60	Jonathan Olanin

Eurofins Raleigh
104 Woodwinds Industrial Court Suite A
Cary, NC 27511
Phone (919) 467-3090

Chain of Custody Record

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Client Information	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-170290-59895.1
Client Contact: Jerry Paul	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: S&ME Inc	PWSID:			Job #:

Address: 3201 Spring Forest Road	Due Date Requested:
City: Raleigh	TAT Requested (days):
State, Zip: NC, 27616	Compliance Project: Δ Yes Δ No
Phone: 919-872-2660(Tel) 919-876-3958(Fax)	PO #: 23050630BM
Email: jpaul@smeinc.com	WO #:
Project Name: Northgate Park	Project #: 68026680
Site:	SSOW#:

Analysis Requested

Preservation Codes:
N - None
PL - MeOH/NaHS04
A - HCL
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	350.1 - Ammonia as N	8270E_QQQ - SVOCs, 8270E_SIM_ID_D5 - 1,4-Dioxane	8260D - VOC NC 02L List	6020B_LL - PRLF 16 Metals; 7473 - Hg	9056A_ORGFM_28D - Sulfate, 9056A_ORGFM_48H - Nitrate	7199 - Hexavalent Chromium	8260D - VOC NC 02L List	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	PL	N	N	N	A		
SED-1	10/31/25	0940	G	S			X	X	X	X	X	X	X		
SED-2		1025			N		X	X	X	X	X	X	X		
SED-3		1110					X	X	X	X	X	X	X		
SED-4		1155					X	X	X	X	X	X	X		
SED-DUP		1155					X	X	X	X	X	X	X		
SED-5		1325					X	X	X	X	X	X	X		
SED-6		1415					X	X	X	X	X	X	X		
Trip Blank															

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Jonathan Olanica	10/31/25 1625	S&ME	PL	10/31/25 16:25	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler:	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-170289-59893.1
Client Contact: Jerry Paul	Phone:	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page:
Company: S&ME Inc	PWSID:			Job #:

Address: 3201 Spring Forest Road	Due Date Requested:	
City: Raleigh	TAT Requested (days):	
State, Zip: NC, 27616	Compliance Project: Δ Yes Δ No	
Phone: 919-872-2660(Tel) 919-876-3958(Fax)	PO #: 23050630BM	
Email: jpaul@smeinc.com	WO #:	
Project Name: Northgate Park	Project #: 68026680	
Site:	SSOW#:	

Analysis Requested

Preservation Codes:
N - None
S - H2SO4
A - HCL
D - HNO3
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270E_QQQ - SVOC TCL OLM4.2	8270E_SIM_ID_D5 - 1,4 Dioxane	350.1 - Ammonia as N; 353.2 - NOx, Nitrate_Calc	8260D - VOC NC 02L List	6020B - PRLF Metals; 7470A - Hg	353.2_Nitrite - Nitrite (48 Hour HT)	SM4500_SO4_E - Sulfate	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	S	A	D	N	N		
SW-1	10/31/25	0940	G	W	N		X	X	X	X	X	X	X		
SW-2		1025					X	X	X	X	X	X	X		
SW-3		1110					X	X	X	X	X	X	X		
SW-4		1155					X	X	X	X	X	X	X		
SW-DUP		1155					X	X	X	X	X	X	X		
SW-5		1325					X	X	X	X	X	X	X		
SW-6		1415					X	X	X	X	X	X	X		
Trip Blank															

Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Jonathan Olanin	Date/Time: 10/31/25 1625	Company S&ME	Received by: PL	Date/Time: 10/31/25 16:25	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Appendix IV - Laboratory Analytical Reports and COC

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Analytical Report

9/25/2025
Mr. Logan Hester
S & ME, Inc.
3201 Spring Forest Road

Raleigh NC 27616

Project Name:
Project #: 23050630
Workorder #: 2509452B

Dear Mr. Logan Hester

The following report includes the data for the above referenced project for sample(s) received on 9/11/2025 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 #: 2509452B

Work Order Summary

CLIENT:	Mr. Logan Hester S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Mr. Logan Hester S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616
PHONE:	919-872-2660	**P.O. #**	
FAX:	919-790-8909	**PROJECT #**	23050630
DATE RECEIVED:	09/11/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	09/25/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	825-LFGP-DUP	Modified ASTM D-1946	10.2 "Hg	1.9 psi
02A	825-LFGP-5	Modified ASTM D-1946	10.2 "Hg	1.9 psi
03A	825-LFGP-3	Modified ASTM D-1946	8.4 "Hg	2.1 psi
04A	825-LFGP-4	Modified ASTM D-1946	10.2 "Hg	1.8 psi
05A	825-LFGP-1	Modified ASTM D-1946	9.2 "Hg	2.1 psi
06A	825-LFGP-2	Modified ASTM D-1946	8.4 "Hg	1.9 psi
07A	Lab Blank	Modified ASTM D-1946	NA	NA
08A	CCV	Modified ASTM D-1946	NA	NA
09A	LCS	Modified ASTM D-1946	NA	NA
09AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 09/25/25

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.

LABORATORY NARRATIVE
Modified ASTM D-1946
S & ME, Inc.
Workorder# 2509452B

Six 6 Liter Summa Canister samples were received on September 11, 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

The Chain of Custody (COC) information for sample 825-LFGP-1 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

The Chain of Custody contained incorrect method information. The laboratory proceeded with the

analysis as per the original contract or verbal agreement.

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: 825-LFGP-DUP

Lab ID#: 2509452B-01A

No Detections Were Found.

Client Sample ID: 825-LFGP-5

Lab ID#: 2509452B-02A

No Detections Were Found.

Client Sample ID: 825-LFGP-3

Lab ID#: 2509452B-03A

No Detections Were Found.

Client Sample ID: 825-LFGP-4

Lab ID#: 2509452B-04A

No Detections Were Found.

Client Sample ID: 825-LFGP-1

Lab ID#: 2509452B-05A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.00041

Client Sample ID: 825-LFGP-2

Lab ID#: 2509452B-06A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.013

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Client Sample ID: 825-LFGP-DUP

Lab ID#: 2509452B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092405**	**Date of Collection: 9/4/25 4:30:00 PM**	
Dil. Factor:	**1.71**	**Date of Analysis: 9/24/25 12:56 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	Not Detected

Container Type: 6 Liter Summa Canister

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Client Sample ID: 825-LFGP-5

Lab ID#: 2509452B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092406**	**Date of Collection: 9/4/25 4:30:00 PM**	
Dil. Factor:	**1.71**	**Date of Analysis: 9/24/25 01:21 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	Not Detected

Container Type: 6 Liter Summa Canister

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Client Sample ID: 825-LFGP-3

Lab ID#: 2509452B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092407**	**Date of Collection: 9/4/25 3:50:00 PM**	
Dil. Factor:	**1.58**	**Date of Analysis: 9/24/25 01:45 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

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Client Sample ID: 825-LFGP-4

Lab ID#: 2509452B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092408**	**Date of Collection: 9/4/25 4:15:00 PM**	
Dil. Factor:	**1.70**	**Date of Analysis: 9/24/25 02:10 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	Not Detected

Container Type: 6 Liter Summa Canister

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Client Sample ID: 825-LFGP-1

Lab ID#: 2509452B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092409**	**Date of Collection: 9/4/25 2:50:00 PM**	
Dil. Factor:	**1.65**	**Date of Analysis: 9/24/25 02:34 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.00041

Container Type: 6 Liter Summa Canister

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Client Sample ID: 825-LFGP-2

Lab ID#: 2509452B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092410**	**Date of Collection: 9/4/25 3:05:00 PM**	
Dil. Factor:	**1.57**	**Date of Analysis: 9/24/25 02:58 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.013

Container Type: 6 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 2509452B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/24/25 12:06 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00010	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 2509452B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092401**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/24/25 10:55 AM**	

Compound	%Recovery
Methane	99

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 2509452B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/24/25 11:17 AM**	

Compound	%Recovery	Method Limits
Methane	99	85-115

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 2509452B-09AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092425**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/25 07:53 AM**	

Compound	%Recovery	Method Limits
Methane	98	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

9/29/2025
Mr. Logan Hester
S & ME, Inc.
3201 Spring Forest Road

Raleigh NC 27616

Project Name:
Project #: 23050630
Workorder #: 2509452A

Dear Mr. Logan Hester

The following report includes the data for the above referenced project for sample(s) received on 9/11/2025 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 #: 2509452A

Work Order Summary

CLIENT:	Mr. Logan Hester S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Mr. Logan Hester S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616
PHONE:	919-872-2660	**P.O. #**	
FAX:	919-790-8909	**PROJECT #**	23050630
DATE RECEIVED:	09/11/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	09/29/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	825-LFGP-DUP	TO-15	10.2 "Hg	1.9 psi
02A	825-LFGP-5	TO-15	10.2 "Hg	1.9 psi
03A	825-LFGP-3	TO-15	8.4 "Hg	2.1 psi
04A	825-LFGP-4	TO-15	10.2 "Hg	1.8 psi
05A	825-LFGP-1	TO-15	9.2 "Hg	2.1 psi
06A	825-LFGP-2	TO-15	8.4 "Hg	1.9 psi
07A	Lab Blank	TO-15	NA	NA
08A	CCV	TO-15	NA	NA
09A	LCS	TO-15	NA	NA
09AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 09/29/25

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
S & ME, Inc.
Workorder# 2509452A

Six 6 Liter Summa Canister samples were received on September 11, 2025. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

The Chain of Custody (COC) information for sample 825-LFGP-1 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

Analytical Notes

There were no analytical discrepancies.

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: 825-LFGP-DUP

Lab ID#: 2509452A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	8.6	12	20	28
2-Propanol	3.4	6.0	8.4	15

Client Sample ID: 825-LFGP-5

Lab ID#: 2509452A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	8.6	12	20	29
2-Propanol	3.4	7.0	8.4	17

Client Sample ID: 825-LFGP-3

Lab ID#: 2509452A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	8.0	11	19	25
2-Propanol	3.2	18	7.8	45
Chloroform	0.80	1.8	3.9	9.1

Client Sample ID: 825-LFGP-4

Lab ID#: 2509452A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	8.5	16	20	39
2-Propanol	3.4	8.1	8.4	20

Client Sample ID: 825-LFGP-1

Lab ID#: 2509452A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	8.2	23	20	54
2-Propanol	3.3	38	8.1	94
Hexane	0.82	1.6	2.9	5.5

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

Client Sample ID: 825-LFGP-2

Lab ID#: 2509452A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	7.8	21	19	50
2-Propanol	3.1	7.2	7.7	18
Hexane	0.78	0.83	2.8	2.9
1,3-Dichlorobenzene	0.78	0.82	4.7	5.0

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Client Sample ID: 825-LFGP-DUP

Lab ID#: 2509452A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092521**	**Date of Collection:**	**9/4/25 4:30:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**9/25/25 11:27 PM**

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
Vinyl Chloride	0.86	Not Detected	2.2	Not Detected
1,3-Butadiene	0.86	Not Detected	1.9	Not Detected
Bromomethane	8.6	Not Detected	33	Not Detected
Chloroethane	3.4	Not Detected	9.0	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	12	20	28
2-Propanol	3.4	6.0	8.4	15
Carbon Disulfide	3.4	Not Detected	11	Not Detected
3-Chloropropene	3.4	Not Detected	11	Not Detected
Methylene Chloride	8.6	Not Detected	30	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
Chloroform	0.86	Not Detected	4.2	Not Detected
1,1,1-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Cyclohexane	0.86	Not Detected	2.9	Not Detected
Carbon Tetrachloride	0.86	Not Detected	5.4	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Benzene	0.86	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.86	Not Detected	3.5	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	3.4	Not Detected	12	Not Detected
Bromodichloromethane	0.86	Not Detected	5.7	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	6.4	Not Detected
trans-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
1,1,2-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Tetrachloroethene	0.86	Not Detected	5.8	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected

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Client Sample ID: 825-LFGP-DUP

Lab ID#: 2509452A-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092521**	**Date of Collection:**	**9/4/25 4:30:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**9/25/25 11:27 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.86	Not Detected	7.3	Not Detected
1,2-Dibromoethane (EDB)	0.86	Not Detected	6.6	Not Detected
Chlorobenzene	0.86	Not Detected	3.9	Not Detected
Ethyl Benzene	0.86	Not Detected	3.7	Not Detected
m,p-Xylene	1.7	Not Detected	7.4	Not Detected
o-Xylene	0.86	Not Detected	3.7	Not Detected
Styrene	0.86	Not Detected	3.6	Not Detected
Bromoform	0.86	Not Detected	8.8	Not Detected
Cumene	0.86	Not Detected	4.2	Not Detected
1,1,2,2-Tetrachloroethane	0.86	Not Detected	5.9	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	5.1	Not Detected
1,4-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
alpha-Chlorotoluene	0.86	Not Detected	4.4	Not Detected
1,2-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected
Naphthalene	1.7	Not Detected	9.0	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	101	70-130

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Client Sample ID: 825-LFGP-5

Lab ID#: 2509452A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092522**	**Date of Collection:**	**9/4/25 4:30:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**9/25/25 11:55 PM**

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
Vinyl Chloride	0.86	Not Detected	2.2	Not Detected
1,3-Butadiene	0.86	Not Detected	1.9	Not Detected
Bromomethane	8.6	Not Detected	33	Not Detected
Chloroethane	3.4	Not Detected	9.0	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	12	20	29
2-Propanol	3.4	7.0	8.4	17
Carbon Disulfide	3.4	Not Detected	11	Not Detected
3-Chloropropene	3.4	Not Detected	11	Not Detected
Methylene Chloride	8.6	Not Detected	30	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
Chloroform	0.86	Not Detected	4.2	Not Detected
1,1,1-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Cyclohexane	0.86	Not Detected	2.9	Not Detected
Carbon Tetrachloride	0.86	Not Detected	5.4	Not Detected
2,2,4-Trimethylpentane	0.86	Not Detected	4.0	Not Detected
Benzene	0.86	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.86	Not Detected	3.5	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	3.4	Not Detected	12	Not Detected
Bromodichloromethane	0.86	Not Detected	5.7	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	6.4	Not Detected
trans-1,3-Dichloropropene	0.86	Not Detected	3.9	Not Detected
1,1,2-Trichloroethane	0.86	Not Detected	4.7	Not Detected
Tetrachloroethene	0.86	Not Detected	5.8	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected

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Client Sample ID: 825-LFGP-5

Lab ID#: 2509452A-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092522**	**Date of Collection:**	**9/4/25 4:30:00 PM**
Dil. Factor:	**1.71**	**Date of Analysis:**	**9/25/25 11:55 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.86	Not Detected	7.3	Not Detected
1,2-Dibromoethane (EDB)	0.86	Not Detected	6.6	Not Detected
Chlorobenzene	0.86	Not Detected	3.9	Not Detected
Ethyl Benzene	0.86	Not Detected	3.7	Not Detected
m,p-Xylene	1.7	Not Detected	7.4	Not Detected
o-Xylene	0.86	Not Detected	3.7	Not Detected
Styrene	0.86	Not Detected	3.6	Not Detected
Bromoform	0.86	Not Detected	8.8	Not Detected
Cumene	0.86	Not Detected	4.2	Not Detected
1,1,2,2-Tetrachloroethane	0.86	Not Detected	5.9	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	5.1	Not Detected
1,4-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
alpha-Chlorotoluene	0.86	Not Detected	4.4	Not Detected
1,2-Dichlorobenzene	0.86	Not Detected	5.1	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected
Naphthalene	1.7	Not Detected	9.0	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	101	70-130

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Client Sample ID: 825-LFGP-3

Lab ID#: 2509452A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092523**	**Date of Collection:**	**9/4/25 3:50:00 PM**
Dil. Factor:	**1.59**	**Date of Analysis:**	**9/26/25 12:23 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
Vinyl Chloride	0.80	Not Detected	2.0	Not Detected
1,3-Butadiene	0.80	Not Detected	1.8	Not Detected
Bromomethane	8.0	Not Detected	31	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	11	19	25
2-Propanol	3.2	18	7.8	45
Carbon Disulfide	3.2	Not Detected	9.9	Not Detected
3-Chloropropene	3.2	Not Detected	10	Not Detected
Methylene Chloride	8.0	Not Detected	28	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
Chloroform	0.80	1.8	3.9	9.1
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
Benzene	0.80	Not Detected	2.5	Not Detected
1,2-Dichloroethane	0.80	Not Detected	3.2	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	3.2	Not Detected	11	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
1,1,2-Trichloroethane	0.80	Not Detected	4.3	Not Detected
Tetrachloroethene	0.80	Not Detected	5.4	Not Detected
2-Hexanone	3.2	Not Detected	13	Not Detected

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Client Sample ID: 825-LFGP-3

Lab ID#: 2509452A-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092523**	**Date of Collection:**	**9/4/25 3:50:00 PM**
Dil. Factor:	**1.59**	**Date of Analysis:**	**9/26/25 12:23 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.80	Not Detected	6.8	Not Detected
1,2-Dibromoethane (EDB)	0.80	Not Detected	6.1	Not Detected
Chlorobenzene	0.80	Not Detected	3.6	Not Detected
Ethyl Benzene	0.80	Not Detected	3.4	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
Bromoform	0.80	Not Detected	8.2	Not Detected
Cumene	0.80	Not Detected	3.9	Not Detected
1,1,2,2-Tetrachloroethane	0.80	Not Detected	5.4	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
Naphthalene	1.6	Not Detected	8.3	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	100	70-130

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Client Sample ID: 825-LFGP-4

Lab ID#: 2509452A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092524**	**Date of Collection:**	**9/4/25 4:15:00 PM**
Dil. Factor:	**1.70**	**Date of Analysis:**	**9/26/25 12:51 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.85	Not Detected	4.2	Not Detected
Freon 114	0.85	Not Detected	5.9	Not Detected
Chloromethane	8.5	Not Detected	18	Not Detected
Vinyl Chloride	0.85	Not Detected	2.2	Not Detected
1,3-Butadiene	0.85	Not Detected	1.9	Not Detected
Bromomethane	8.5	Not Detected	33	Not Detected
Chloroethane	3.4	Not Detected	9.0	Not Detected
Freon 11	0.85	Not Detected	4.8	Not Detected
Ethanol	8.5	Not Detected	16	Not Detected
Freon 113	0.85	Not Detected	6.5	Not Detected
1,1-Dichloroethene	0.85	Not Detected	3.4	Not Detected
Acetone	8.5	16	20	39
2-Propanol	3.4	8.1	8.4	20
Carbon Disulfide	3.4	Not Detected	10	Not Detected
3-Chloropropene	3.4	Not Detected	11	Not Detected
Methylene Chloride	8.5	Not Detected	30	Not Detected
Methyl tert-butyl ether	3.4	Not Detected	12	Not Detected
trans-1,2-Dichloroethene	0.85	Not Detected	3.4	Not Detected
Hexane	0.85	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.85	Not Detected	3.4	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.4	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	0.85	Not Detected	3.4	Not Detected
Tetrahydrofuran	0.85	Not Detected	2.5	Not Detected
Chloroform	0.85	Not Detected	4.2	Not Detected
1,1,1-Trichloroethane	0.85	Not Detected	4.6	Not Detected
Cyclohexane	0.85	Not Detected	2.9	Not Detected
Carbon Tetrachloride	0.85	Not Detected	5.3	Not Detected
2,2,4-Trimethylpentane	0.85	Not Detected	4.0	Not Detected
Benzene	0.85	Not Detected	2.7	Not Detected
1,2-Dichloroethane	0.85	Not Detected	3.4	Not Detected
Heptane	0.85	Not Detected	3.5	Not Detected
Trichloroethene	0.85	Not Detected	4.6	Not Detected
1,2-Dichloropropane	0.85	Not Detected	3.9	Not Detected
1,4-Dioxane	3.4	Not Detected	12	Not Detected
Bromodichloromethane	0.85	Not Detected	5.7	Not Detected
cis-1,3-Dichloropropene	0.85	Not Detected	3.8	Not Detected
4-Methyl-2-pentanone	0.85	Not Detected	3.5	Not Detected
Toluene	1.7	Not Detected	6.4	Not Detected
trans-1,3-Dichloropropene	0.85	Not Detected	3.8	Not Detected
1,1,2-Trichloroethane	0.85	Not Detected	4.6	Not Detected
Tetrachloroethene	0.85	Not Detected	5.8	Not Detected
2-Hexanone	3.4	Not Detected	14	Not Detected

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Client Sample ID: 825-LFGP-4

Lab ID#: 2509452A-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092524**	**Date of Collection:**	**9/4/25 4:15:00 PM**
Dil. Factor:	**1.70**	**Date of Analysis:**	**9/26/25 12:51 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.85	Not Detected	7.2	Not Detected
1,2-Dibromoethane (EDB)	0.85	Not Detected	6.5	Not Detected
Chlorobenzene	0.85	Not Detected	3.9	Not Detected
Ethyl Benzene	0.85	Not Detected	3.7	Not Detected
m,p-Xylene	1.7	Not Detected	7.4	Not Detected
o-Xylene	0.85	Not Detected	3.7	Not Detected
Styrene	0.85	Not Detected	3.6	Not Detected
Bromoform	0.85	Not Detected	8.8	Not Detected
Cumene	0.85	Not Detected	4.2	Not Detected
1,1,2,2-Tetrachloroethane	0.85	Not Detected	5.8	Not Detected
Propylbenzene	0.85	Not Detected	4.2	Not Detected
4-Ethyltoluene	0.85	Not Detected	4.2	Not Detected
1,3,5-Trimethylbenzene	0.85	Not Detected	4.2	Not Detected
1,2,4-Trimethylbenzene	0.85	Not Detected	4.2	Not Detected
1,3-Dichlorobenzene	0.85	Not Detected	5.1	Not Detected
1,4-Dichlorobenzene	0.85	Not Detected	5.1	Not Detected
alpha-Chlorotoluene	0.85	Not Detected	4.4	Not Detected
1,2-Dichlorobenzene	0.85	Not Detected	5.1	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	25	Not Detected
Hexachlorobutadiene	3.4	Not Detected	36	Not Detected
Naphthalene	1.7	Not Detected	8.9	Not Detected

Container Type: 6 Liter Summa Canister

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

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Client Sample ID: 825-LFGP-1

Lab ID#: 2509452A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092525**	**Date of Collection:**	**9/4/25 2:50:00 PM**
Dil. Factor:	**1.65**	**Date of Analysis:**	**9/26/25 01:19 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.82	Not Detected	4.1	Not Detected
Freon 114	0.82	Not Detected	5.8	Not Detected
Chloromethane	8.2	Not Detected	17	Not Detected
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
1,3-Butadiene	0.82	Not Detected	1.8	Not Detected
Bromomethane	8.2	Not Detected	32	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	23	20	54
2-Propanol	3.3	38	8.1	94
Carbon Disulfide	3.3	Not Detected	10	Not Detected
3-Chloropropene	3.3	Not Detected	10	Not Detected
Methylene Chloride	8.2	Not Detected	29	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	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	3.3	Not Detected
Tetrahydrofuran	0.82	Not Detected	2.4	Not Detected
Chloroform	0.82	Not Detected	4.0	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
Benzene	0.82	Not Detected	2.6	Not Detected
1,2-Dichloroethane	0.82	Not Detected	3.3	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	3.3	Not Detected	12	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
1,1,2-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
2-Hexanone	3.3	Not Detected	14	Not Detected

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Client Sample ID: 825-LFGP-1

Lab ID#: 2509452A-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092525**	**Date of Collection:**	**9/4/25 2:50:00 PM**
Dil. Factor:	**1.65**	**Date of Analysis:**	**9/26/25 01:19 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.82	Not Detected	7.0	Not Detected
1,2-Dibromoethane (EDB)	0.82	Not Detected	6.3	Not Detected
Chlorobenzene	0.82	Not Detected	3.8	Not Detected
Ethyl Benzene	0.82	Not Detected	3.6	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
Bromoform	0.82	Not Detected	8.5	Not Detected
Cumene	0.82	Not Detected	4.0	Not Detected
1,1,2,2-Tetrachloroethane	0.82	Not Detected	5.7	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
Naphthalene	1.6	Not Detected	8.6	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: 825-LFGP-2

Lab ID#: 2509452A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092526**	**Date of Collection:**	**9/4/25 3:05:00 PM**
Dil. Factor:	**1.57**	**Date of Analysis:**	**9/26/25 01:47 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
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
1,3-Butadiene	0.78	Not Detected	1.7	Not Detected
Bromomethane	7.8	Not Detected	30	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	21	19	50
2-Propanol	3.1	7.2	7.7	18
Carbon Disulfide	3.1	Not Detected	9.8	Not Detected
3-Chloropropene	3.1	Not Detected	9.8	Not Detected
Methylene Chloride	7.8	Not Detected	27	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	0.83	2.8	2.9
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
Chloroform	0.78	Not Detected	3.8	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
Benzene	0.78	Not Detected	2.5	Not Detected
1,2-Dichloroethane	0.78	Not Detected	3.2	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	3.1	Not Detected	11	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
1,1,2-Trichloroethane	0.78	Not Detected	4.3	Not Detected
Tetrachloroethene	0.78	Not Detected	5.3	Not Detected
2-Hexanone	3.1	Not Detected	13	Not Detected

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Client Sample ID: 825-LFGP-2

Lab ID#: 2509452A-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092526**	**Date of Collection:**	**9/4/25 3:05:00 PM**
Dil. Factor:	**1.57**	**Date of Analysis:**	**9/26/25 01:47 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.78	Not Detected	6.7	Not Detected
1,2-Dibromoethane (EDB)	0.78	Not Detected	6.0	Not Detected
Chlorobenzene	0.78	Not Detected	3.6	Not Detected
Ethyl Benzene	0.78	Not Detected	3.4	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
Bromoform	0.78	Not Detected	8.1	Not Detected
Cumene	0.78	Not Detected	3.8	Not Detected
1,1,2,2-Tetrachloroethane	0.78	Not Detected	5.4	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	0.82	4.7	5.0
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
Naphthalene	1.6	Not Detected	8.2	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	101	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2509452A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/25 02:56 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
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	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	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	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
Chloroform	0.50	Not Detected	2.4	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
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	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	2.0	Not Detected	7.2	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
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2509452A-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092506**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/25 02:56 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	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
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	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
Naphthalene	1.0	Not Detected	5.2	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: CCV

Lab ID#: 2509452A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092502**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/25 01:10 PM**

Compound	%Recovery
Freon 12	101
Freon 114	100
Chloromethane	97
Vinyl Chloride	99
1,3-Butadiene	99
Bromomethane	106
Chloroethane	101
Freon 11	101
Ethanol	109
Freon 113	103
1,1-Dichloroethene	106
Acetone	98
2-Propanol	112
Carbon Disulfide	96
3-Chloropropene	105
Methylene Chloride	99
Methyl tert-butyl ether	108
trans-1,2-Dichloroethene	105
Hexane	107
1,1-Dichloroethane	101
2-Butanone (Methyl Ethyl Ketone)	106
cis-1,2-Dichloroethene	102
Tetrahydrofuran	91
Chloroform	98
1,1,1-Trichloroethane	99
Cyclohexane	108
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	104
Benzene	99
1,2-Dichloroethane	99
Heptane	97
Trichloroethene	101
1,2-Dichloropropane	101
1,4-Dioxane	124
Bromodichloromethane	100
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	106
Toluene	102
trans-1,3-Dichloropropene	102
1,1,2-Trichloroethane	97
Tetrachloroethene	101
2-Hexanone	106

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Client Sample ID: CCV

Lab ID#: 2509452A-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/25 01:10 PM**	

Compound	%Recovery
Dibromochloromethane	100
1,2-Dibromoethane (EDB)	103
Chlorobenzene	100
Ethyl Benzene	104
m,p-Xylene	106
o-Xylene	106
Styrene	107
Bromoform	101
Cumene	109
1,1,2,2-Tetrachloroethane	101
Propylbenzene	106
4-Ethyltoluene	105
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	102
alpha-Chlorotoluene	103
1,2-Dichlorobenzene	101
1,2,4-Trichlorobenzene	97
Hexachlorobutadiene	100
Naphthalene	91

Container Type: NA - Not Applicable

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

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Client Sample ID: LCS

Lab ID#: 2509452A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/25 01:35 PM**	

Compound	%Recovery	Method Limits
Freon 12	108	70-130
Freon 114	108	70-130
Chloromethane	99	70-130
Vinyl Chloride	98	70-130
1,3-Butadiene	100	70-130
Bromomethane	114	70-130
Chloroethane	104	70-130
Freon 11	108	70-130
Ethanol	104	70-130
Freon 113	106	70-130
1,1-Dichloroethene	105	70-130
Acetone	102	70-130
2-Propanol	121	70-130
Carbon Disulfide	99	70-130
3-Chloropropene	111	70-130
Methylene Chloride	104	70-130
Methyl tert-butyl ether	112	70-130
trans-1,2-Dichloroethene	108	70-130
Hexane	116	70-130
1,1-Dichloroethane	110	70-130
2-Butanone (Methyl Ethyl Ketone)	117	70-130
cis-1,2-Dichloroethene	111	70-130
Tetrahydrofuran	97	70-130
Chloroform	103	70-130
1,1,1-Trichloroethane	107	70-130
Cyclohexane	116	70-130
Carbon Tetrachloride	107	70-130
2,2,4-Trimethylpentane	110	70-130
Benzene	106	70-130
1,2-Dichloroethane	105	70-130
Heptane	103	70-130
Trichloroethene	108	70-130
1,2-Dichloropropane	109	70-130
1,4-Dioxane	112	70-130
Bromodichloromethane	104	70-130
cis-1,3-Dichloropropene	113	70-130
4-Methyl-2-pentanone	108	70-130
Toluene	108	70-130
trans-1,3-Dichloropropene	112	70-130
1,1,2-Trichloroethane	110	70-130
Tetrachloroethene	111	70-130
2-Hexanone	107	70-130

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Client Sample ID: LCS

Lab ID#: 2509452A-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/25 01:35 PM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	107	70-130
1,2-Dibromoethane (EDB)	109	70-130
Chlorobenzene	110	70-130
Ethyl Benzene	116	70-130
m,p-Xylene	116	70-130
o-Xylene	118	70-130
Styrene	119	70-130
Bromoform	111	70-130
Cumene	117	70-130
1,1,2,2-Tetrachloroethane	109	70-130
Propylbenzene	113	70-130
4-Ethyltoluene	112	70-130
1,3,5-Trimethylbenzene	117	70-130
1,2,4-Trimethylbenzene	116	70-130
1,3-Dichlorobenzene	112	70-130
1,4-Dichlorobenzene	112	70-130
alpha-Chlorotoluene	110	70-130
1,2-Dichlorobenzene	110	70-130
1,2,4-Trichlorobenzene	119	70-130
Hexachlorobutadiene	118	70-130
Naphthalene	98	60-140

Container Type: NA - Not Applicable

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: LCSD

Lab ID#: 2509452A-09AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/25 01:59 PM**	

Compound	%Recovery	Method Limits
Freon 12	104	70-130
Freon 114	106	70-130
Chloromethane	95	70-130
Vinyl Chloride	99	70-130
1,3-Butadiene	98	70-130
Bromomethane	112	70-130
Chloroethane	104	70-130
Freon 11	105	70-130
Ethanol	106	70-130
Freon 113	102	70-130
1,1-Dichloroethene	104	70-130
Acetone	101	70-130
2-Propanol	120	70-130
Carbon Disulfide	97	70-130
3-Chloropropene	109	70-130
Methylene Chloride	100	70-130
Methyl tert-butyl ether	109	70-130
trans-1,2-Dichloroethene	109	70-130
Hexane	112	70-130
1,1-Dichloroethane	106	70-130
2-Butanone (Methyl Ethyl Ketone)	113	70-130
cis-1,2-Dichloroethene	107	70-130
Tetrahydrofuran	95	70-130
Chloroform	101	70-130
1,1,1-Trichloroethane	105	70-130
Cyclohexane	113	70-130
Carbon Tetrachloride	106	70-130
2,2,4-Trimethylpentane	107	70-130
Benzene	108	70-130
1,2-Dichloroethane	103	70-130
Heptane	106	70-130
Trichloroethene	107	70-130
1,2-Dichloropropane	109	70-130
1,4-Dioxane	122	70-130
Bromodichloromethane	103	70-130
cis-1,3-Dichloropropene	113	70-130
4-Methyl-2-pentanone	110	70-130
Toluene	110	70-130
trans-1,3-Dichloropropene	109	70-130
1,1,2-Trichloroethane	107	70-130
Tetrachloroethene	110	70-130
2-Hexanone	106	70-130

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Client Sample ID: LCSD

Lab ID#: 2509452A-09AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17092504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/25 01:59 PM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	105	70-130
1,2-Dibromoethane (EDB)	108	70-130
Chlorobenzene	110	70-130
Ethyl Benzene	115	70-130
m,p-Xylene	116	70-130
o-Xylene	116	70-130
Styrene	118	70-130
Bromoform	110	70-130
Cumene	117	70-130
1,1,2,2-Tetrachloroethane	108	70-130
Propylbenzene	113	70-130
4-Ethyltoluene	112	70-130
1,3,5-Trimethylbenzene	115	70-130
1,2,4-Trimethylbenzene	113	70-130
1,3-Dichlorobenzene	112	70-130
1,4-Dichlorobenzene	110	70-130
alpha-Chlorotoluene	109	70-130
1,2-Dichlorobenzene	108	70-130
1,2,4-Trichlorobenzene	119	70-130
Hexachlorobutadiene	118	70-130
Naphthalene	96	60-140

Container Type: NA - Not Applicable

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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Method : TO-15 + 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	0.50
106-99-0	1,3-Butadiene	0.50
74-83-9	Bromomethane	5.0
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	2.0
75-09-2	Methylene Chloride	5.0
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	0.50
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	0.50
107-06-2	1,2-Dichloroethane	0.50
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	2.0
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	0.50
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)	0.50

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Method : TO-15 + Naph

CAS Number	Compound	Rpt. Limit (ppbv)
108-90-7	Chlorobenzene	0.50
100-41-4	Ethyl Benzene	0.50
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	0.50
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	1.0

	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

EMSL Analytical, Inc.

6340 Castleplace Drive, Indianapolis, IN, 46250
Telephone: 317.803.2997 Fax:317.803.3047
www.emsl.com

EMSL Order ID: 162560761
LIMS Reference ID: CD60761
EMSL Customer ID: SMEI60

Attention: Jerry Paul
S&ME, Inc. [SMEI60]
3201 Spring Forest Road
Raleigh, NC 27616
(919) 872-2660
jpaul@smeinc.com

Project Name: DURHAM PARKS/23050630

Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 09/10/2025 10:50
Reported: 09/24/2025 14:43

Analytical Results

Analyte	Results	RL	Volume(L)	Prep Date & Tech	Prep Method	Analysis Date & Analyst	Analytical Method	Q	DF
Client Sample ID: LFGP-1/LYON PARK-822									**Date Sampled: 09/04/25**
Matrix: Tubes									**LIMS Reference ID: CD60761-01**
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-2/LYON PARK-822									**Date Sampled: 09/04/25**
Matrix: Tubes									**LIMS Reference ID: CD60761-02**
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-3/LYON PARK-822									**Date Sampled: 09/04/25**
Matrix: Tubes									**LIMS Reference ID: CD60761-03**
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-4/LYON PARK-822									**Date Sampled: 09/04/25**
Matrix: Tubes									**LIMS Reference ID: CD60761-04**
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-5/LYON PARK-822									**Date Sampled: 09/04/25**
Matrix: Tubes									**LIMS Reference ID: CD60761-05**
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-6/LYON PARK-822									**Date Sampled: 09/04/25**
Matrix: Tubes									**LIMS Reference ID: CD60761-06**
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-7/LYON PARK-822									**Date Sampled: 09/04/25**
Matrix: Tubes									**LIMS Reference ID: CD60761-07**
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-9/LYON PARK-822									**Date Sampled: 09/04/25**
Matrix: Tubes									**LIMS Reference ID: CD60761-08**
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-10/LYON PARK-822									**Date Sampled: 09/04/25**
Matrix: Tubes									**LIMS Reference ID: CD60761-09**
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									

EMSL Analytical, Inc.

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EMSL Order ID: 162560761
LIMS Reference ID: CD60761
EMSL Customer ID: SMEI60

Attention: Jerry Paul
S&ME, Inc. [SMEI60]
3201 Spring Forest Road
Raleigh, NC 27616
(919) 872-2660
jpaul@smeinc.com

Project Name: DURHAM PARKS/23050630

Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 09/10/2025 10:50
Reported: 09/24/2025 14:43

Analytical Results (Continued)

Analyte	Results	RL	Volume(L)	Prep Date & Tech	Prep Method	Analysis Date & Analyst	Analytical Method	Q	DF
Client Sample ID: LFGP-DUP-01/LYON PARK-822								**Date Sampled: 09/10/25**	
Matrix: Tubes								**LIMS Reference ID: CD60761-10**	
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-8/LYON PARK-822								**Date Sampled: 09/10/25**	
Matrix: Tubes								**LIMS Reference ID: CD60761-11**	
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-1/NORTHGATE-825								**Date Sampled: 09/10/25**	
Matrix: Tubes								**LIMS Reference ID: CD60761-12**	
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-2/NORTHGATE-825								**Date Sampled: 09/10/25**	
Matrix: Tubes								**LIMS Reference ID: CD60761-13**	
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-3/NORTHGATE-825								**Date Sampled: 09/10/25**	
Matrix: Tubes								**LIMS Reference ID: CD60761-14**	
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-4/NORTHGATE-825								**Date Sampled: 09/10/25**	
Matrix: Tubes								**LIMS Reference ID: CD60761-15**	
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-5/NORTHGATE-825								**Date Sampled: 09/10/25**	
Matrix: Tubes								**LIMS Reference ID: CD60761-16**	
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-DUP-02/NORTHGATE-825								**Date Sampled: 09/10/25**	
Matrix: Tubes								**LIMS Reference ID: CD60761-17**	
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-2/WALLTOWN PARK-824								**Date Sampled: 09/10/25**	
Matrix: Tubes								**LIMS Reference ID: CD60761-18**	
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									

EMSL Analytical, Inc.

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EMSL Order ID: 162560761
LIMS Reference ID: CD60761
EMSL Customer ID: SMEI60

Attention: Jerry Paul
S&ME, Inc. [SMEI60]
3201 Spring Forest Road
Raleigh, NC 27616
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jpaul@smeinc.com

Project Name: DURHAM PARKS/23050630

Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 09/10/2025 10:50
Reported: 09/24/2025 14:43

Analytical Results (Continued)

Analyte	Results	RL	Volume(L)	Prep Date & Tech	Prep Method	Analysis Date & Analyst	Analytical Method	Q	DF
Client Sample ID: LFGP-3/WALLTOWN PARK-824									**Date Sampled: 09/10/25**
Matrix: Tubes									**LIMS Reference ID: CD60761-19**
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-DUP-03/WALLTOWN PARK-824									**Date Sampled: 09/10/25**
Matrix: Tubes									**LIMS Reference ID: CD60761-20**
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-1/WALLTOWN PARK-824									**Date Sampled: 09/10/25**
Matrix: Tubes									**LIMS Reference ID: CD60761-21**
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-4/WALLTOWN PARK-824									**Date Sampled: 09/10/25**
Matrix: Tubes									**LIMS Reference ID: CD60761-22**
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-5/WALLTOWN PARK-824									**Date Sampled: 09/10/25**
Matrix: Tubes									**LIMS Reference ID: CD60761-23**
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-6/WALLTOWN PARK-824									**Date Sampled: 09/10/25**
Matrix: Tubes									**LIMS Reference ID: CD60761-24**
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-7/WALLTOWN PARK-824									**Date Sampled: 09/10/25**
Matrix: Tubes									**LIMS Reference ID: CD60761-25**
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-8/WALLTOWN PARK-824									**Date Sampled: 09/10/25**
Matrix: Tubes									**LIMS Reference ID: CD60761-26**
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									
Client Sample ID: LFGP-9/WALLTOWN PARK-824									**Date Sampled: 09/10/25**
Matrix: Tubes									**LIMS Reference ID: CD60761-27**
Mercury	<0.67 µg/m³	0.67 µg/m³	15	09/23/25 JW	NIOSH 6009	09/23/25 JW	NIOSH 6009		1
Sample Comments:									

EMSL Analytical, Inc.

6340 Castleplace Drive, Indianapolis, IN, 46250
Telephone: 317.803.2997 Fax:317.803.3047
www.emsl.com

EMSL Order ID: 162560761
LIMS Reference ID: CD60761
EMSL Customer ID: SMEI60

Attention: Jerry Paul
S&ME, Inc. [SMEI60]
3201 Spring Forest Road
Raleigh, NC 27616
(919) 872-2660
jpaul@smeinc.com

Project Name: DURHAM PARKS/23050630

Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 09/10/2025 10:50
Reported: 09/24/2025 14:43

Certified Analyses included in this Report

Analyte	Certifications
NIOSH 6009 in Tubes	
Mercury	16-AIHA IHLAP

List of Certifications

Code	Description	Number	Expires
16-MO	Missouri Drinking Water	10180	03/31/2026
16-NYDOH	New York Potable Water, Metals Solid and Hazardous Waste - Asbestos	12130	04/01/2026
16-AIHA ELLAP	American Industrial Hygiene Association (AIHA LAP, LLC) - ELLAP	157245	08/01/2027
16-AIHA IHLAP	American Industrial Hygiene Association (AIHA LAP, LLC) - IHLAP	157245	08/01/2027
16-CA ELAP	California Metals in DW, Chemistry and Bulk Asbestos in Hazardous Waste	2575	06/30/2026
16-A2LA Food	A2LA Food Microbiology	2845.11	01/31/2026
16-A2LA Chemistry	A2LA Environmental and Chemistry	2845.25	11/30/2025
16-IN Metals/Asbestos	Indiana Lead and Metals and Asbestos in Drinking Water	C-49-09	12/31/2026
16-OHDOH	Ohio - Lead in Paint Chips, Wipes, Soil and Air	E10040	05/03/2026
16-FLDOH	Florida Asbestos and Metals in Drinking Water, PCBs	E871170	06/30/2026
16-NJDEP	New Jersey Metals, Organics and Inorganics in DW PCBs	IN002	06/30/2026
16-IN Colilert/HPC	Indiana Colilert and HPC	M-49-06	12/31/2026

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.

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.

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Telephone: 317.803.2997 Fax:317.803.3047
www.emsl.com

EMSL Order ID: 162560761
LIMS Reference ID: CD60761
EMSL Customer ID: SMEI60

Attention: Jerry Paul
S&ME, Inc. [SMEI60]
3201 Spring Forest Road
Raleigh, NC 27616
(919) 872-2660
jpaul@smeinc.com

Project Name: DURHAM PARKS/23050630

Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 09/10/2025 10:50
Reported: 09/24/2025 14:43

Aleks Kuchenbrod 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.
TESTING LABS • PRODUCTS • TRAINING

Silica - Chain of Custody

EMSL Order Number / Lab Use Only: 162560761

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077
PHONE: (800) 220-3675
EMAIL: CinnAslab@EMSL.com

If Bill-To is the same as Report-To leave this section blank. Third-party billing requires written authorization.

Customer Information		Billing Information	
Customer ID:		Billing ID:	
Company Name:	SAME	Company Name:	
Contact Name:	Jerry Paul	Billing Contact:	
Street Address:	3201 Spring Forest Rd	Street Address:	
City, State, Zip:	Raleigh, NC	City, State, Zip:	
Country:		Country:	
Phone:	419-872-2660	Phone:	
Email(s) for Report:	JPaul@smeinc.com	Email(s) for Invoice:	

Project Name/No: Durham Parks / 2305 0630 — 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)

Media Type:

Media Manufacturer/ Part Number:

Media Lot Number:

Sampled By Name: Logan Mester

Sampled By Signature:

No. Samples in Shipment:

Method Requested:

- ☐ NIOSH 7500 by XRD
  - ☐ Include: Respirable Dust
  - ☐ Include: Total Dust
  - ***Check only one of the above**
  - ☐ Include: TWA
- ☐ NIOSH 7602 by IR
  - ***Charlotte (Pineville), NC Lab ONLY**

Media Submitted:

Cassette
- ☐ 37mm PVC 5.0um Cassette / Pre-Weighed Filter ☐ No Cyclone
- ☐ 37mm PVC 5.0um Cassette / NON Pre-Weighed Filter ☐ No Cyclone

(Lab assumes cyclone utilized in sampling train unless No Cyclone selected.)

PPI
- ☐ 2 LPM PPI / Pre-Weighed Filter ☐ 2 LPM PPI / NON Pre-Weighed Filter
- ☐ 4 LPM PPI / Pre-Weighed Filter ☐ 4 LPM PPI / NON Pre-Weighed Filter
- ☐ 8 LPM PPI / Pre-Weighed Filter ☐ 8 LPM PPI / NON Pre-Weighed Filter

Species Requested:

- ☐ ALL Species *(Includes Alpha Quartz, Cristobalite, Tridymite)*
- ☐ Single Species *(Please check one or two below)*
  - ☐ Alpha Quartz
  - ☐ Cristobalite
  - ☐ Tridymite

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 (Call Lab)

Client Sample ID	Location/Description	Analyte/ Method	Media	Flow (lpm)	Sample Time On	Sample Time Off	Sample Type	Sample Date	Comments
LFGP-1	LYON Park - B22	6009	Sorbent Tube	0.25	1255	1355	☐ Area ☐ Personal	9-4-25	
LFGP-2					1250	1350	☐ Area ☐ Personal		
LFGP-3					1245	1345	☐ Area ☐ Personal		
LFGP-4					1240	1340	☐ Area ☐ Personal		
LFGP-5					1235	1335	☐ Area ☐ Personal		
LFGP-6					1425	1525	☐ Area ☐ Personal		
LFGP-7					1420	1520	☐ Area ☐ Personal		

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

~~EtOH~~ Mercury NIOSH 6009 Sorbent Tubes

Method of Shipment: FedEx

Relinquished by: Logan Mester — Date/Time: 9/4/25 17:20

Relinquished by: — Date/Time:

Sample Condition Upon Receipt:

Received by: — Date/Time: 9/10/25 1020

Received by: — Date/Time:

Controlled Document - COC-73 Silica R1 03/18/2021

☐ 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.

EMSL ANALYTICAL, INC.
TESTING LABS • PRODUCTS • TRAINING

Silica - Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: CinnAsblab@EMSL.com

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	Sample Type	Sample Date	Comments
LFGP-9	LYON PARK-822	6009	Sorbent Tube	0.25	1410	1510	☐ Area ☐ Personal	9-4-25	
LFGP-10	"	"	"	"	1405	1505	☐ Area ☐ Personal	"	
LFGP-DUP-01	"	"	"	"	1255	1355	☐ Area ☐ Personal	"	
LFGP-8	"	"	"	"	1415	1515	☐ Area ☐ Personal	"	
LFGP-1	Northgate - 825	"	"	"	735	835	☐ Area ☐ Personal	9-5-25	
LFGP-2	"	"	"	"	740	840	☐ Area ☐ Personal	"	
LFGP-3	"	"	"	"	745	845	☐ Area ☐ Personal	"	
LFGP-4	"	"	"	"	750	850	☐ Area ☐ Personal	"	
LFGP-5	"	"	"	"	755	855	☐ Area ☐ Personal	"	
LFGP-DUP-02	"	"	"	"	755	855	☐ Area ☐ Personal	"	
LFGP-2	Walltown Park-824	"	"	"	1117	1217	☐ Area ☐ Personal	9-8-25	
LFGP-3	"	"	"	"	1125	1225	☐ Area ☐ Personal	"	
LFGP-DUP-03	"	"	"	"	1125	1225	☐ Area ☐ Personal	"	
LFGP-1	"	"	"	"	1133	1233	☐ Area ☐ Personal	"	
LFGP-4	"	"	"	"	1137	1237	☐ Area ☐ Personal	"	
LFGP-5	"	"	"	"	1130	1230	☐ Area ☐ Personal	"	
LFGP-6	"	"	"	"	1310	1410	☐ Area ☐ Personal	"	
LFGP-7	"	"	"	"	1305	1405	☐ Area ☐ Personal	"	
LFGP-8	"	"	"	"	1308	1408	☐ Area ☐ Personal	"	
LFGP-9	"	"	"	"	1340	1440	☐ Area ☐ Personal	"	
							☐ Area ☐ Personal		
							☐ Area ☐ Personal		

Method of Shipment: FedEx		Sample Condition Upon Receipt:	
Relinquished by: Clay Shiller	Date/Time: 9/9/25 17:20	Received by:	Date/Time
Relinquished by:	Date/Time:	Received by:	Date/Time

Controlled Document - COC-73 Silica R1 03/18/2021

☐ **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.

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Analytical Report

9/25/2025
Mr. Logan Hester
S & ME, Inc.
3201 Spring Forest Road

Raleigh NC 27616

Project Name:
Project #: 23050630
Workorder #: 2509452B

Dear Mr. Logan Hester

The following report includes the data for the above referenced project for sample(s) received on 9/11/2025 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 #: 2509452B

Work Order Summary

CLIENT:	Mr. Logan Hester S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616	**BILL TO:**	Mr. Logan Hester S & ME, Inc. 3201 Spring Forest Road Raleigh, NC 27616
PHONE:	919-872-2660	**P.O. #**	
FAX:	919-790-8909	**PROJECT #**	23050630
DATE RECEIVED:	09/11/2025	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	09/25/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	825-LFGP-DUP	Modified ASTM D-1946	10.2 "Hg	1.9 psi
02A	825-LFGP-5	Modified ASTM D-1946	10.2 "Hg	1.9 psi
03A	825-LFGP-3	Modified ASTM D-1946	8.4 "Hg	2.1 psi
04A	825-LFGP-4	Modified ASTM D-1946	10.2 "Hg	1.8 psi
05A	825-LFGP-1	Modified ASTM D-1946	9.2 "Hg	2.1 psi
06A	825-LFGP-2	Modified ASTM D-1946	8.4 "Hg	1.9 psi
07A	Lab Blank	Modified ASTM D-1946	NA	NA
08A	CCV	Modified ASTM D-1946	NA	NA
09A	LCS	Modified ASTM D-1946	NA	NA
09AA	LCSD	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 09/25/25

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.

LABORATORY NARRATIVE
Modified ASTM D-1946
S & ME, Inc.
Workorder# 2509452B

Six 6 Liter Summa Canister samples were received on September 11, 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

The Chain of Custody (COC) information for sample 825-LFGP-1 did not match the entry on the sample tag with regard to sample identification. The information on the COC was used to process and report the sample.

The Chain of Custody contained incorrect method information. The laboratory proceeded with the

analysis as per the original contract or verbal agreement.

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: 825-LFGP-DUP

Lab ID#: 2509452B-01A

No Detections Were Found.

Client Sample ID: 825-LFGP-5

Lab ID#: 2509452B-02A

No Detections Were Found.

Client Sample ID: 825-LFGP-3

Lab ID#: 2509452B-03A

No Detections Were Found.

Client Sample ID: 825-LFGP-4

Lab ID#: 2509452B-04A

No Detections Were Found.

Client Sample ID: 825-LFGP-1

Lab ID#: 2509452B-05A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.00041

Client Sample ID: 825-LFGP-2

Lab ID#: 2509452B-06A

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.013

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Client Sample ID: 825-LFGP-DUP

Lab ID#: 2509452B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092405**	**Date of Collection: 9/4/25 4:30:00 PM**	
Dil. Factor:	**1.71**	**Date of Analysis: 9/24/25 12:56 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	Not Detected

Container Type: 6 Liter Summa Canister

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Client Sample ID: 825-LFGP-5

Lab ID#: 2509452B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092406**	**Date of Collection: 9/4/25 4:30:00 PM**	
Dil. Factor:	**1.71**	**Date of Analysis: 9/24/25 01:21 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	Not Detected

Container Type: 6 Liter Summa Canister

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Client Sample ID: 825-LFGP-3

Lab ID#: 2509452B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092407**	**Date of Collection: 9/4/25 3:50:00 PM**	
Dil. Factor:	**1.58**	**Date of Analysis: 9/24/25 01:45 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	Not Detected

Container Type: 6 Liter Summa Canister

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Client Sample ID: 825-LFGP-4

Lab ID#: 2509452B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092408**	**Date of Collection: 9/4/25 4:15:00 PM**	
Dil. Factor:	**1.70**	**Date of Analysis: 9/24/25 02:10 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00017	Not Detected

Container Type: 6 Liter Summa Canister

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Client Sample ID: 825-LFGP-1

Lab ID#: 2509452B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092409**	**Date of Collection: 9/4/25 2:50:00 PM**	
Dil. Factor:	**1.65**	**Date of Analysis: 9/24/25 02:34 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.00041

Container Type: 6 Liter Summa Canister

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Client Sample ID: 825-LFGP-2

Lab ID#: 2509452B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092410**	**Date of Collection: 9/4/25 3:05:00 PM**	
Dil. Factor:	**1.57**	**Date of Analysis: 9/24/25 02:58 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00016	0.013

Container Type: 6 Liter Summa Canister

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Client Sample ID: Lab Blank

Lab ID#: 2509452B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/24/25 12:06 PM**	

Compound	Rpt. Limit (%)	Amount (%)
Methane	0.00010	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 2509452B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092401**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/24/25 10:55 AM**	

Compound	%Recovery
Methane	99

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 2509452B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/24/25 11:17 AM**	

Compound	%Recovery	Method Limits
Methane	99	85-115

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 2509452B-09AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**10092425**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/25/25 07:53 AM**	

Compound	%Recovery	Method Limits
Methane	98	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

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012533686
LIMS Reference ID: AD33686
EMSL Customer ID: SMEI60

Attention: Gerald Paul
S&ME, Inc. [SMEI60]
3201 Spring Forest Road
Raleigh, NC 27616
(919) 872-2660
jpaul@smeinc.com

Project Name: City of Durham Parks-Northgate Park 23050630 Phase Z
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 09/05/2025 09:30
Reported: 09/19/2025 16:59

Samples in this Report

Lab ID	Sample	Matrix	Date Sampled	Date Received
AD33686-01	825-LFGP-1	Air	09/04/2025	09/05/2025
AD33686-02	825-LFGP-2	Air	09/04/2025	09/05/2025
AD33686-03	825-LFGP-3	Air	09/04/2025	09/05/2025
AD33686-04	825-LFGP-4	Air	09/04/2025	09/05/2025
AD33686-05	825-LFGP-5	Air	09/04/2025	09/05/2025
AD33686-06	825-LFGP-DUP	Air	09/04/2025	09/05/2025

Owen McKenna Laboratory Manager or other approved signatory

Test results meet all NELAP requirements unless otherwise specified. NJDEP Certification #: 03036

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EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:cs@emsl.com
EMSL-CIN-01

EMSL Order ID: 012533686
LIMS Reference ID: AD33686
EMSL Customer ID: SMEI60

Attention: Gerald Paul
S&ME, Inc. [SMEI60]
3201 Spring Forest Road
Raleigh, NC 27616
(919) 872-2660
jpaul@smeinc.com

Project Name: City of Durham Parks-Northgate Park 23050630 Phase Z
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 09/05/2025 09:30
Reported: 09/19/2025 16:59

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: 012533686
LIMS Reference ID: AD33686
EMSL Customer ID: SMEI60

Attention: Gerald Paul
S&ME, Inc. [SMEI60]
3201 Spring Forest Road
Raleigh, NC 27616
(919) 872-2660
jpaul@smeinc.com

Project Name: City of Durham Parks-Northgate Park 23050630 Phase Z
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 09/05/2025 09:30
Reported: 09/19/2025 16:59

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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Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 09/05/2025 09:30
Reported: 09/19/2025 16:59

EMSL Sample ID: AD33686-01
Customer Sample ID: 825-LFGP-1
Collected: 09/04/2025 16:45
Received: 09/05/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
09/05/25 16:20	BDI0614	R1333.D	825-LFGP-1	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	09/05/25 16:20	
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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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: 012533686
LIMS Reference ID: AD33686
EMSL Customer ID: SMEI60

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3201 Spring Forest Road
Raleigh, NC 27616
(919) 872-2660
jpaul@smeinc.com

Project Name: City of Durham Parks-Northgate Park 23050630 Phase Z
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 09/05/2025 09:30
Reported: 09/19/2025 16:59

EMSL Sample ID: AD33686-02
Customer Sample ID: 825-LFGP-2
Collected: 09/04/2025 16:55
Received: 09/05/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
09/05/25 16:33	BDI0614	R1334.D	825-LFGP-2	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	09/05/25 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**

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LIMS Reference ID: AD33686
EMSL Customer ID: SMEI60

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3201 Spring Forest Road
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(919) 872-2660
jpaul@smeinc.com

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Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 09/05/2025 09:30
Reported: 09/19/2025 16:59

EMSL Sample ID: AD33686-03
Customer Sample ID: 825-LFGP-3
Collected: 09/04/2025 17:10
Received: 09/05/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
09/05/25 16:47	BDI0614	R1335.D	825-LFGP-3	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	09/05/25 16:47	
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

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LIMS Reference ID: AD33686
EMSL Customer ID: SMEI60

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3201 Spring Forest Road
Raleigh, NC 27616
(919) 872-2660
jpaul@smeinc.com

Project Name: City of Durham Parks-Northgate Park 23050630 Phase Z
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 09/05/2025 09:30
Reported: 09/19/2025 16:59

EMSL Sample ID: AD33686-04
Customer Sample ID: 825-LFGP-4
Collected: 09/04/2025 17:00
Received: 09/05/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
09/05/25 17:00	BDI0614	R1336.D	825-LFGP-4	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	09/05/25 17:00	
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-CIN-01

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LIMS Reference ID: AD33686
EMSL Customer ID: SMEI60

Attention: Gerald Paul
S&ME, Inc. [SMEI60]
3201 Spring Forest Road
Raleigh, NC 27616
(919) 872-2660
jpaul@smeinc.com

Project Name: City of Durham Parks-Northgate Park 23050630 Phase Z
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 09/05/2025 09:30
Reported: 09/19/2025 16:59

EMSL Sample ID: AD33686-05
Customer Sample ID: 825-LFGP-5
Collected: 09/04/2025 17:15
Received: 09/05/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
09/05/25 17:14	BDI0614	R1337.D	825-LFGP-5	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	09/05/25 17:14	
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**

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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: 012533686
LIMS Reference ID: AD33686
EMSL Customer ID: SMEI60

Attention: Gerald Paul
S&ME, Inc. [SMEI60]
3201 Spring Forest Road
Raleigh, NC 27616
(919) 872-2660
jpaul@smeinc.com

Project Name: City of Durham Parks-Northgate Park 23050630 Phase Z
Customer PO:
EMSL Sales Rep: Jason McDonald
Received: 09/05/2025 09:30
Reported: 09/19/2025 16:59

EMSL Sample ID: AD33686-06
Customer Sample ID: 825-LFGP-DUP
Collected: 09/04/2025 17:15
Received: 09/05/2025 09:30

Analysis	Prep Batch	Lab File ID	Canister ID	Sample Vol.	Dil. Factor	Analyst Init.
09/05/25 17:28	BDI0614	R1338.D	825-LFGP-DUP	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	09/05/25 17:28	
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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2 "Odor Threshholds for Chemicals with Established Occupational Health Standards", AIHA, Fairfax VA, 1989
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EMSL Customer ID: SMEI60

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EMSL Sales Rep: Jason McDonald
Received: 09/05/2025 09:30
Reported: 09/19/2025 16:59

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.

Environmental Chemistry - Sampling Event Chain of Custody

AD 33686

EMSL ANALYTICAL, INC.

EMSL Order Number / Lab Use Only

RECEIVED EMSL CINNAMINSON, NJ

25 SEP -5 AM 9:37

EMSL Analytical, Inc.
200 Rt. 130 N
Cinnaminson, NJ 08077
PHONE: (800) 220-3675
EMAIL: EnvChemistry2@EMSL.com

Customer Information

Customer ID:
Company Name: S+ME
Contact Name: Gerald Paul
Street Address: 3201 Spring Forest Road
City, State, Zip: Raleigh, NC 27616 Country: USA
Phone: 919-801-6482
Email(s) for Report: jpaul@smeinc.com

Billing Information

Billing ID:
Company Name: S+ME
Billing Contact: Gerald Paul
Street Address: 3201 Spring Forest Rd.
City, State, Zip: Raleigh, NC 27616 Country: USA
Phone: 919-801-6482
Email(s) for Invoice: jpaul@smeinc.com

Project Name/No: City of Durham Parks - Northgate Park 23050630 Phase II
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: Clay Faircloth
Sampled By Signature: Clay Faircloth
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 D5954	Test 2:	Test 3:	Test 4:	Field pH	Field pH Test Time	Field Temp. Deg. C	Field Temp. Test Time	Comments
825-LFGP-1	☐	☑	9/4/25 1645	A		/								Low Level H2S
825-LFGP-2	☐	☑	9/4/25 1655	A		/								
825-LFGP-3	☐	☑	9/4/25 1710	A		/								
825-LFGP-4	☐	☑	9/4/25 1700	A		/								

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Please use MDL of 14 µg/m3

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: [signature] Date/Time: 9-4-25 1745
Received by: Stericycle FX Date/Time 9/5/25 0930

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.

6 SAM Page 1 of 2 10 SAT 3/4

EMSL ANALYTICAL, INC.

Environmental Chemistry - Sampling Event

AD33686

Chain of Custody

EMSL Order Number / Lab Use Only

EMSL Analytical, Inc.
200 Rt. 130 N
Cinnaminson, NJ 08077
PHONE: (800) 220-3675
EnvChemistry2@EMSL.com

RECEIVED
EMSL
CINNAMINSON, NJ
25 SEP -5 AM 9:37

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
825-LFGP-S	☐	☑	9/4/25 1715	A		✓								Low Level H2S
825-LFGP-DUP	☐	☑	9/4/25	A		✓								
	☐	☐												
	☐	☐												
	☐	☐												
	☐	☐												
	☐	☐												
	☐	☐												
	☐	☐												

Method of Shipment:		Sample Condition Upon Receipt:	Received on Ice? Check if Yes ☐
Relinquished by:	Date/Time:	Received by:	Date/Time
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.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Jerry Paul
S&ME Inc
3201 Spring Forest Road
Raleigh, North Carolina 27616

Generated 9/17/2025 6:02:23 PM

JOB DESCRIPTION

Northgate Park

JOB NUMBER

752-36231-1

Eurofins Raleigh
104 Woodwinds Industrial Court
Suite A
Cary NC 27511

See page two for job notes and contact information.

Job Notes

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

Authorization

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Definitions/Glossary

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36231-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
752-36231-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 8/27/2025 10:08 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.7°C and 3.3°C.

GC/MS VOA
Method 8260D: The laboratory control sample (LCS) for analytical batch 400-721749 recovered outside control limits for the following analytes: Bromomethane and n-Butylbenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA
Method 8270E_QQQ: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 400-721396 and analytical batch 400-721385 recovered outside control limits for the following analyte: Caprolactam. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8270E_QQQ: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 400-721396 and analytical batch 400-721385 recovered outside control limits for the following analyte: 2,4-Dinitrophenol.

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

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

General Chemistry
Method SM4500_SO4_E: The following samples were diluted to bring the concentration of Sulfate within the calibration range: MW-6 (752-36231-1), MW-9 (752-36231-4) and Duplicate-2 (752-36231-5). Elevated reporting limits (RLs) are provided.

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

Detection Summary

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36231-1

Client Sample ID: MW-6 — Lab Sample ID: 752-36231-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	1.23		1.00	0.400	ug/L	1		8260D	Total/NA
Caprolactam	2.95	J *+	9.87	2.37	ug/L	1		8270E	Total/NA
Arsenic	1.72	J	5.00	1.32	ug/L	1		6020B	Total Recoverable
Barium	240		10.0	0.410	ug/L	1		6020B	Total Recoverable
Cobalt	26.4		5.00	0.411	ug/L	1		6020B	Total Recoverable
Manganese	2860		5.00	1.29	ug/L	1		6020B	Total Recoverable
Nickel	2.22	J	5.00	0.422	ug/L	1		6020B	Total Recoverable
Ammonia	0.263	F1	0.0500	0.0200	mg/L	1		350.1	Total/NA
Sulfate	87.6		25.0	7.00	mg/L	5		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-7 — Lab Sample ID: 752-36231-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.28	J	5.00	1.32	ug/L	1		6020B	Total Recoverable
Barium	281		20.0	0.820	ug/L	2		6020B	Total Recoverable
Cobalt	19.2		5.00	0.411	ug/L	1		6020B	Total Recoverable
Manganese	7040		10.0	2.58	ug/L	2		6020B	Total Recoverable
Nickel	2.28	J	5.00	0.422	ug/L	1		6020B	Total Recoverable
Ammonia	0.0200	J	0.0500	0.0200	mg/L	1		350.1	Total/NA

Client Sample ID: MW-8 — Lab Sample ID: 752-36231-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	304		10.0	0.410	ug/L	1		6020B	Total Recoverable
Manganese	451		5.00	1.29	ug/L	1		6020B	Total Recoverable
Sulfate	9.50		5.00	1.40	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-9 — Lab Sample ID: 752-36231-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Caprolactam	7.16	J *+	10.0	2.40	ug/L	1		8270E	Total/NA
Barium	65.1		10.0	0.410	ug/L	1		6020B	Total Recoverable
Cobalt	1.22	J	5.00	0.411	ug/L	1		6020B	Total Recoverable
Manganese	410		5.00	1.29	ug/L	1		6020B	Total Recoverable
Nickel	0.569	J	5.00	0.422	ug/L	1		6020B	Total Recoverable
Sulfate	56.8		10.0	2.80	mg/L	2		SM 4500 SO4 E	Total/NA

Client Sample ID: Duplicate-2 — Lab Sample ID: 752-36231-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Caprolactam	8.12	J *+	9.97	2.39	ug/L	1		8270E	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: Duplicate-2 (Continued)

Lab Sample ID: 752-36231-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	68.5		10.0	0.410	ug/L	1		6020B	Total Recoverable
Cobalt	1.27	J	5.00	0.411	ug/L	1		6020B	Total Recoverable
Manganese	425		5.00	1.29	ug/L	1		6020B	Total Recoverable
Nickel	0.471	J	5.00	0.422	ug/L	1		6020B	Total Recoverable
Sulfate	58.4		10.0	2.80	mg/L	2		SM 4500 SO4 E	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 752-36231-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36231-1

Client Sample ID: MW-6

Date Collected: 08/26/25 10:25
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	10.0	ug/L			09/03/25 14:03	1
Benzene	ND		1.00	0.500	ug/L			09/03/25 14:03	1
Bromobenzene	ND		1.00	0.540	ug/L			09/03/25 14:03	1
Bromoform	ND		5.00	0.250	ug/L			09/03/25 14:03	1
Bromomethane	ND	F1 *+	1.00	0.980	ug/L			09/03/25 14:03	1
2-Butanone (MEK)	ND		25.0	2.60	ug/L			09/03/25 14:03	1
Carbon disulfide	ND		1.00	0.500	ug/L			09/03/25 14:03	1
Carbon tetrachloride	ND		1.00	0.190	ug/L			09/03/25 14:03	1
Chlorobenzene	ND		1.00	0.420	ug/L			09/03/25 14:03	1
Chlorobromomethane	ND		1.00	0.520	ug/L			09/03/25 14:03	1
Chlorodibromomethane	ND		1.00	0.240	ug/L			09/03/25 14:03	1
Chloroethane	ND		1.00	0.760	ug/L			09/03/25 14:03	1
Chloroform	ND		1.00	0.900	ug/L			09/03/25 14:03	1
Chloromethane	**1.23**		1.00	0.400	ug/L			09/03/25 14:03	1
2-Chlorotoluene	ND	F2	1.00	0.570	ug/L			09/03/25 14:03	1
4-Chlorotoluene	ND	F2	1.00	0.560	ug/L			09/03/25 14:03	1
cis-1,2-Dichloroethene	ND		1.00	0.200	ug/L			09/03/25 14:03	1
cis-1,3-Dichloropropene	ND		5.00	0.500	ug/L			09/03/25 14:03	1
1,2-Dibromo-3-Chloropropane	ND		5.00	1.50	ug/L			09/03/25 14:03	1
Dibromomethane	ND		5.00	0.220	ug/L			09/03/25 14:03	1
1,2-Dichlorobenzene	ND		1.00	0.500	ug/L			09/03/25 14:03	1
1,3-Dichlorobenzene	ND		1.00	0.540	ug/L			09/03/25 14:03	1
1,4-Dichlorobenzene	ND	F2	1.00	0.640	ug/L			09/03/25 14:03	1
Dichlorobromomethane	ND		1.00	0.500	ug/L			09/03/25 14:03	1
1,1-Dichloroethane	ND		1.00	0.500	ug/L			09/03/25 14:03	1
1,2-Dichloroethane	ND		1.00	0.550	ug/L			09/03/25 14:03	1
1,1-Dichloroethene	ND		1.00	0.500	ug/L			09/03/25 14:03	1
1,2-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 14:03	1
1,3-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 14:03	1
2,2-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 14:03	1
1,1-Dichloropropene	ND		1.00	0.0900	ug/L			09/03/25 14:03	1
Ethyl acetate	ND		10.0	6.14	ug/L			09/03/25 14:03	1
Ethylbenzene	ND		1.00	0.500	ug/L			09/03/25 14:03	1
Ethylene Dibromide	ND		1.00	0.230	ug/L			09/03/25 14:03	1
Hexachlorobutadiene	ND	F2	5.00	0.900	ug/L			09/03/25 14:03	1
Hexane	ND		1.00	0.960	ug/L			09/03/25 14:03	1
2-Hexanone	ND	F1	25.0	4.26	ug/L			09/03/25 14:03	1
Iodomethane	ND		1.00	0.900	ug/L			09/03/25 14:03	1
Isopropylbenzene	ND	F2	1.00	0.530	ug/L			09/03/25 14:03	1
Isopropyl ether	ND		1.00	0.740	ug/L			09/03/25 14:03	1
4-Isopropyltoluene	ND	F2	1.00	0.710	ug/L			09/03/25 14:03	1
Methylene Chloride	ND		5.00	3.00	ug/L			09/03/25 14:03	1
4-Methyl-2-pentanone (MIBK)	ND		25.0	1.80	ug/L			09/03/25 14:03	1
Methyl tert-butyl ether	ND		1.00	0.220	ug/L			09/03/25 14:03	1
m-Xylene & p-Xylene	ND	F2	5.00	3.00	ug/L			09/03/25 14:03	1
Naphthalene	ND		5.00	3.00	ug/L			09/03/25 14:03	1
n-Butylbenzene	ND	F2 *+	1.00	0.760	ug/L			09/03/25 14:03	1
n-Heptane	ND	F1	1.00	0.210	ug/L			09/03/25 14:03	1
N-Propylbenzene	ND	F2	1.00	0.690	ug/L			09/03/25 14:03	1

Client Sample ID: MW-6
Date Collected: 08/26/25 10:25
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		5.00	3.00	ug/L			09/03/25 14:03	1
sec-Butylbenzene	ND	F2	1.00	0.700	ug/L			09/03/25 14:03	1
Styrene	ND		1.00	1.00	ug/L			09/03/25 14:03	1
tert-Butylbenzene	ND	F2	1.00	0.630	ug/L			09/03/25 14:03	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.380	ug/L			09/03/25 14:03	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.500	ug/L			09/03/25 14:03	1
Tetrachloroethene	ND		1.00	0.330	ug/L			09/03/25 14:03	1
Toluene	ND		1.00	0.900	ug/L			09/03/25 14:03	1
trans-1,4-Dichloro-2-butene	ND		5.00	1.00	ug/L			09/03/25 14:03	1
trans-1,2-Dichloroethene	ND		1.00	0.500	ug/L			09/03/25 14:03	1
trans-1,3-Dichloropropene	ND		5.00	0.200	ug/L			09/03/25 14:03	1
1,2,3-Trichlorobenzene	ND		1.00	0.900	ug/L			09/03/25 14:03	1
1,2,4-Trichlorobenzene	ND		1.00	0.820	ug/L			09/03/25 14:03	1
1,1,1-Trichloroethane	ND		1.00	0.180	ug/L			09/03/25 14:03	1
1,1,2-Trichloroethane	ND		5.00	0.210	ug/L			09/03/25 14:03	1
Trichloroethene	ND		1.00	0.150	ug/L			09/03/25 14:03	1
Trichlorofluoromethane	ND	F2	1.00	0.250	ug/L			09/03/25 14:03	1
1,2,3-Trichloropropane	ND		5.00	0.840	ug/L			09/03/25 14:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.500	ug/L			09/03/25 14:03	1
1,2,4-Trimethylbenzene	ND	F2	1.00	0.820	ug/L			09/03/25 14:03	1
1,3,5-Trimethylbenzene	ND	F2	1.00	0.560	ug/L			09/03/25 14:03	1
Vinyl acetate	ND		25.0	0.930	ug/L			09/03/25 14:03	1
Vinyl chloride	ND		1.00	0.500	ug/L			09/03/25 14:03	1
Xylenes, Total	ND		10.0	6.00	ug/L			09/03/25 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*56 - 136*		*09/03/25 14:03*	*1*
Dibromofluoromethane	*105*		*79 - 130*		*09/03/25 14:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*59 - 146*		*09/03/25 14:03*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*09/03/25 14:03*	*1*

Method: SW846 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.291	0.291	ug/L		08/28/25 07:00	08/29/25 20:31	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*27*		*10 - 140*	*08/28/25 07:00*	*08/29/25 20:31*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		9.87	0.414	ug/L		08/29/25 07:00	08/29/25 16:53	1
2,4,5-Trichlorophenol	ND		9.87	0.533	ug/L		08/29/25 07:00	08/29/25 16:53	1
2,4,6-Trichlorophenol	ND		9.87	1.08	ug/L		08/29/25 07:00	08/29/25 16:53	1
2,4-Dichlorophenol	ND		9.87	0.563	ug/L		08/29/25 07:00	08/29/25 16:53	1
2,4-Dimethylphenol	ND		9.87	0.237	ug/L		08/29/25 07:00	08/29/25 16:53	1
2,4-Dinitrophenol	ND	*- *1	29.6	4.62	ug/L		08/29/25 07:00	08/29/25 16:53	1
2,4-Dinitrotoluene	ND		9.87	0.641	ug/L		08/29/25 07:00	08/29/25 16:53	1
2,6-Dinitrotoluene	ND		9.87	0.286	ug/L		08/29/25 07:00	08/29/25 16:53	1
2-Chloronaphthalene	ND		9.87	0.375	ug/L		08/29/25 07:00	08/29/25 16:53	1
2-Chlorophenol	ND		9.87	0.829	ug/L		08/29/25 07:00	08/29/25 16:53	1
2-Methylnaphthalene	ND		9.87	0.799	ug/L		08/29/25 07:00	08/29/25 16:53	1

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36231-1

Client Sample ID: MW-6
Date Collected: 08/26/25 10:25
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-1
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		9.87	0.750	ug/L		08/29/25 07:00	08/29/25 16:53	1
2-Nitroaniline	ND		9.87	1.35	ug/L		08/29/25 07:00	08/29/25 16:53	1
2-Nitrophenol	ND		9.87	1.15	ug/L		08/29/25 07:00	08/29/25 16:53	1
3 & 4 Methylphenol	ND		19.7	4.54	ug/L		08/29/25 07:00	08/29/25 16:53	1
3,3'-Dichlorobenzidine	ND		10.9	0.405	ug/L		08/29/25 07:00	08/29/25 16:53	1
3-Nitroaniline	ND		9.87	0.938	ug/L		08/29/25 07:00	08/29/25 16:53	1
4,6-Dinitro-2-methylphenol	ND		9.87	1.94	ug/L		08/29/25 07:00	08/29/25 16:53	1
4-Bromophenyl phenyl ether	ND		9.87	0.128	ug/L		08/29/25 07:00	08/29/25 16:53	1
4-Chloro-3-methylphenol	ND		9.87	0.720	ug/L		08/29/25 07:00	08/29/25 16:53	1
4-Chloroaniline	ND		9.87	0.572	ug/L		08/29/25 07:00	08/29/25 16:53	1
4-Chlorophenyl phenyl ether	ND		9.87	0.237	ug/L		08/29/25 07:00	08/29/25 16:53	1
4-Nitroaniline	ND		9.87	3.45	ug/L		08/29/25 07:00	08/29/25 16:53	1
4-Nitrophenol	ND		9.87	2.70	ug/L		08/29/25 07:00	08/29/25 16:53	1
Acenaphthene	ND		9.87	0.622	ug/L		08/29/25 07:00	08/29/25 16:53	1
Acenaphthylene	ND		9.87	0.750	ug/L		08/29/25 07:00	08/29/25 16:53	1
Acetophenone	ND		9.87	3.16	ug/L		08/29/25 07:00	08/29/25 16:53	1
Anthracene	ND		9.87	0.898	ug/L		08/29/25 07:00	08/29/25 16:53	1
Atrazine	ND		9.87	1.12	ug/L		08/29/25 07:00	08/29/25 16:53	1
Benzaldehyde	ND		9.87	0.661	ug/L		08/29/25 07:00	08/29/25 16:53	1
Benzo[a]anthracene	ND		9.87	0.987	ug/L		08/29/25 07:00	08/29/25 16:53	1
Benzo[a]pyrene	ND		9.87	1.09	ug/L		08/29/25 07:00	08/29/25 16:53	1
Benzo[b]fluoranthene	ND		9.87	1.18	ug/L		08/29/25 07:00	08/29/25 16:53	1
Benzo[g,h,i]perylene	ND		9.87	1.48	ug/L		08/29/25 07:00	08/29/25 16:53	1
Benzo[k]fluoranthene	ND		9.87	1.48	ug/L		08/29/25 07:00	08/29/25 16:53	1
bis (2-chloroisopropyl) ether	ND		9.87	0.918	ug/L		08/29/25 07:00	08/29/25 16:53	1
Bis(2-chloroethoxy)methane	ND		9.87	0.336	ug/L		08/29/25 07:00	08/29/25 16:53	1
Bis(2-chloroethyl)ether	ND		9.87	0.720	ug/L		08/29/25 07:00	08/29/25 16:53	1
Bis(2-ethylhexyl) phthalate	ND		9.87	3.95	ug/L		08/29/25 07:00	08/29/25 16:53	1
Butyl benzyl phthalate	ND		9.87	3.95	ug/L		08/29/25 07:00	08/29/25 16:53	1
Caprolactam	**2.95**	**J *+**	9.87	2.37	ug/L		08/29/25 07:00	08/29/25 16:53	1
Carbazole	ND		9.87	0.316	ug/L		08/29/25 07:00	08/29/25 16:53	1
Chrysene	ND		9.87	1.18	ug/L		08/29/25 07:00	08/29/25 16:53	1
Dibenz(a,h)anthracene	ND		9.87	1.28	ug/L		08/29/25 07:00	08/29/25 16:53	1
Dibenzofuran	ND		9.87	0.632	ug/L		08/29/25 07:00	08/29/25 16:53	1
Diethyl phthalate	ND		9.87	3.95	ug/L		08/29/25 07:00	08/29/25 16:53	1
Dimethyl phthalate	ND		9.87	3.95	ug/L		08/29/25 07:00	08/29/25 16:53	1
Di-n-butyl phthalate	ND		9.87	8.08	ug/L		08/29/25 07:00	08/29/25 16:53	1
Di-n-octyl phthalate	ND		9.87	3.95	ug/L		08/29/25 07:00	08/29/25 16:53	1
Fluoranthene	ND		9.87	0.622	ug/L		08/29/25 07:00	08/29/25 16:53	1
Fluorene	ND		9.87	0.661	ug/L		08/29/25 07:00	08/29/25 16:53	1
Hexachlorobenzene	ND		9.87	0.247	ug/L		08/29/25 07:00	08/29/25 16:53	1
Hexachlorobutadiene	ND		9.87	0.543	ug/L		08/29/25 07:00	08/29/25 16:53	1
Hexachlorocyclopentadiene	ND		19.7	0.316	ug/L		08/29/25 07:00	08/29/25 16:53	1
Hexachloroethane	ND		9.87	0.523	ug/L		08/29/25 07:00	08/29/25 16:53	1
Indeno[1,2,3-cd]pyrene	ND		9.87	1.09	ug/L		08/29/25 07:00	08/29/25 16:53	1
Isophorone	ND		9.87	0.789	ug/L		08/29/25 07:00	08/29/25 16:53	1
Naphthalene	ND		9.87	0.740	ug/L		08/29/25 07:00	08/29/25 16:53	1
Nitrobenzene	ND		9.87	0.592	ug/L		08/29/25 07:00	08/29/25 16:53	1
N-Nitrosodi-n-propylamine	ND		9.87	0.326	ug/L		08/29/25 07:00	08/29/25 16:53	1

Client Sample ID: MW-6

Lab Sample ID: 752-36231-1

Date Collected: 08/26/25 10:25

Matrix: Water

Date Received: 08/27/25 10:08

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		9.87	0.188	ug/L		08/29/25 07:00	08/29/25 16:53	1
Pentachlorophenol	ND		9.87	2.76	ug/L		08/29/25 07:00	08/29/25 16:53	1
Phenanthrene	ND		9.87	0.730	ug/L		08/29/25 07:00	08/29/25 16:53	1
Phenol	ND		9.87	0.671	ug/L		08/29/25 07:00	08/29/25 16:53	1
Pyrene	ND		9.87	0.622	ug/L		08/29/25 07:00	08/29/25 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*10 - 150*	*08/29/25 07:00*	*08/29/25 16:53*	*1*
2-Fluorobiphenyl (Surr)	*74*		*25 - 139*	*08/29/25 07:00*	*08/29/25 16:53*	*1*
2-Fluorophenol (Surr)	*72*		*10 - 150*	*08/29/25 07:00*	*08/29/25 16:53*	*1*
Nitrobenzene-d5 (Surr)	*88*		*22 - 150*	*08/29/25 07:00*	*08/29/25 16:53*	*1*
Phenol-d5 (Surr)	*78*		*10 - 150*	*08/29/25 07:00*	*08/29/25 16:53*	*1*
Terphenyl-d14 (Surr)	*52*		*28 - 150*	*08/29/25 07:00*	*08/29/25 16:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	2.45	ug/L		09/02/25 12:35	09/04/25 01:09	1
Arsenic	**1.72**	**J**	5.00	1.32	ug/L		09/02/25 12:35	09/04/25 01:09	1
Barium	**240**		10.0	0.410	ug/L		09/02/25 12:35	09/05/25 20:52	1
Beryllium	ND		1.00	0.147	ug/L		09/02/25 12:35	09/04/25 01:09	1
Cadmium	ND		0.700	0.237	ug/L		09/02/25 12:35	09/04/25 01:09	1
Chromium	ND		5.00	3.69	ug/L		09/02/25 12:35	09/04/25 01:09	1
Cobalt	**26.4**		5.00	0.411	ug/L		09/02/25 12:35	09/04/25 01:09	1
Copper	ND		2.00	0.642	ug/L		09/02/25 12:35	09/04/25 01:09	1
Lead	ND		1.00	0.864	ug/L		09/02/25 12:35	09/04/25 01:09	1
Manganese	**2860**		5.00	1.29	ug/L		09/02/25 12:35	09/05/25 20:52	1
Nickel	**2.22**	**J**	5.00	0.422	ug/L		09/02/25 12:35	09/04/25 01:09	1
Selenium	ND		5.00	2.29	ug/L		09/02/25 12:35	09/04/25 01:09	1
Silver	ND		1.00	0.167	ug/L		09/02/25 12:35	09/04/25 01:09	1
Thallium	ND		1.00	0.190	ug/L		09/02/25 12:35	09/04/25 01:09	1
Vanadium	ND		5.00	1.22	ug/L		09/02/25 12:35	09/04/25 01:09	1
Zinc	ND		10.0	8.91	ug/L		09/02/25 12:35	09/04/25 01:09	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.166	ug/L		09/08/25 13:31	09/08/25 18:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.263**	**F1**	0.0500	0.0200	mg/L			09/03/25 10:34	1
Nitrate as N (SM Nitrate by calc)	ND		0.100	0.0250	mg/L			09/02/25 11:27	1
Sulfate (SM 4500 SO4 E)	**87.6**		25.0	7.00	mg/L			09/08/25 11:43	5

Client Sample ID: MW-7

Lab Sample ID: 752-36231-2

Date Collected: 08/26/25 11:17

Matrix: Water

Date Received: 08/27/25 10:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	10.0	ug/L			09/03/25 16:45	1
Benzene	ND		1.00	0.500	ug/L			09/03/25 16:45	1

Client Sample ID: MW-7
Date Collected: 08/26/25 11:17
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		1.00	0.540	ug/L			09/03/25 16:45	1
Bromoform	ND		5.00	0.250	ug/L			09/03/25 16:45	1
Bromomethane	ND	*+	1.00	0.980	ug/L			09/03/25 16:45	1
2-Butanone (MEK)	ND		25.0	2.60	ug/L			09/03/25 16:45	1
Carbon disulfide	ND		1.00	0.500	ug/L			09/03/25 16:45	1
Carbon tetrachloride	ND		1.00	0.190	ug/L			09/03/25 16:45	1
Chlorobenzene	ND		1.00	0.420	ug/L			09/03/25 16:45	1
Chlorobromomethane	ND		1.00	0.520	ug/L			09/03/25 16:45	1
Chlorodibromomethane	ND		1.00	0.240	ug/L			09/03/25 16:45	1
Chloroethane	ND		1.00	0.760	ug/L			09/03/25 16:45	1
Chloroform	ND		1.00	0.900	ug/L			09/03/25 16:45	1
Chloromethane	ND		1.00	0.400	ug/L			09/03/25 16:45	1
2-Chlorotoluene	ND		1.00	0.570	ug/L			09/03/25 16:45	1
4-Chlorotoluene	ND		1.00	0.560	ug/L			09/03/25 16:45	1
cis-1,2-Dichloroethene	ND		1.00	0.200	ug/L			09/03/25 16:45	1
cis-1,3-Dichloropropene	ND		5.00	0.500	ug/L			09/03/25 16:45	1
1,2-Dibromo-3-Chloropropane	ND		5.00	1.50	ug/L			09/03/25 16:45	1
Dibromomethane	ND		5.00	0.220	ug/L			09/03/25 16:45	1
1,2-Dichlorobenzene	ND		1.00	0.500	ug/L			09/03/25 16:45	1
1,3-Dichlorobenzene	ND		1.00	0.540	ug/L			09/03/25 16:45	1
1,4-Dichlorobenzene	ND		1.00	0.640	ug/L			09/03/25 16:45	1
Dichlorobromomethane	ND		1.00	0.500	ug/L			09/03/25 16:45	1
1,1-Dichloroethane	ND		1.00	0.500	ug/L			09/03/25 16:45	1
1,2-Dichloroethane	ND		1.00	0.550	ug/L			09/03/25 16:45	1
1,1-Dichloroethene	ND		1.00	0.500	ug/L			09/03/25 16:45	1
1,2-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 16:45	1
1,3-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 16:45	1
2,2-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 16:45	1
1,1-Dichloropropene	ND		1.00	0.0900	ug/L			09/03/25 16:45	1
Ethyl acetate	ND		10.0	6.14	ug/L			09/03/25 16:45	1
Ethylbenzene	ND		1.00	0.500	ug/L			09/03/25 16:45	1
Ethylene Dibromide	ND		1.00	0.230	ug/L			09/03/25 16:45	1
Hexachlorobutadiene	ND		5.00	0.900	ug/L			09/03/25 16:45	1
Hexane	ND		1.00	0.960	ug/L			09/03/25 16:45	1
2-Hexanone	ND		25.0	4.26	ug/L			09/03/25 16:45	1
Iodomethane	ND		1.00	0.900	ug/L			09/03/25 16:45	1
Isopropylbenzene	ND		1.00	0.530	ug/L			09/03/25 16:45	1
Isopropyl ether	ND		1.00	0.740	ug/L			09/03/25 16:45	1
4-Isopropyltoluene	ND		1.00	0.710	ug/L			09/03/25 16:45	1
Methylene Chloride	ND		5.00	3.00	ug/L			09/03/25 16:45	1
4-Methyl-2-pentanone (MIBK)	ND		25.0	1.80	ug/L			09/03/25 16:45	1
Methyl tert-butyl ether	ND		1.00	0.220	ug/L			09/03/25 16:45	1
m-Xylene & p-Xylene	ND		5.00	3.00	ug/L			09/03/25 16:45	1
Naphthalene	ND		5.00	3.00	ug/L			09/03/25 16:45	1
n-Butylbenzene	ND	*+	1.00	0.760	ug/L			09/03/25 16:45	1
n-Heptane	ND		1.00	0.210	ug/L			09/03/25 16:45	1
N-Propylbenzene	ND		1.00	0.690	ug/L			09/03/25 16:45	1
o-Xylene	ND		5.00	3.00	ug/L			09/03/25 16:45	1
sec-Butylbenzene	ND		1.00	0.700	ug/L			09/03/25 16:45	1

Client Sample ID: MW-7
Date Collected: 08/26/25 11:17
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.00	1.00	ug/L			09/03/25 16:45	1
tert-Butylbenzene	ND		1.00	0.630	ug/L			09/03/25 16:45	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.380	ug/L			09/03/25 16:45	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.500	ug/L			09/03/25 16:45	1
Tetrachloroethene	ND		1.00	0.330	ug/L			09/03/25 16:45	1
Toluene	ND		1.00	0.900	ug/L			09/03/25 16:45	1
trans-1,4-Dichloro-2-butene	ND		5.00	1.00	ug/L			09/03/25 16:45	1
trans-1,2-Dichloroethene	ND		1.00	0.500	ug/L			09/03/25 16:45	1
trans-1,3-Dichloropropene	ND		5.00	0.200	ug/L			09/03/25 16:45	1
1,2,3-Trichlorobenzene	ND		1.00	0.900	ug/L			09/03/25 16:45	1
1,2,4-Trichlorobenzene	ND		1.00	0.820	ug/L			09/03/25 16:45	1
1,1,1-Trichloroethane	ND		1.00	0.180	ug/L			09/03/25 16:45	1
1,1,2-Trichloroethane	ND		5.00	0.210	ug/L			09/03/25 16:45	1
Trichloroethene	ND		1.00	0.150	ug/L			09/03/25 16:45	1
Trichlorofluoromethane	ND		1.00	0.250	ug/L			09/03/25 16:45	1
1,2,3-Trichloropropane	ND		5.00	0.840	ug/L			09/03/25 16:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.500	ug/L			09/03/25 16:45	1
1,2,4-Trimethylbenzene	ND		1.00	0.820	ug/L			09/03/25 16:45	1
1,3,5-Trimethylbenzene	ND		1.00	0.560	ug/L			09/03/25 16:45	1
Vinyl acetate	ND		25.0	0.930	ug/L			09/03/25 16:45	1
Vinyl chloride	ND		1.00	0.500	ug/L			09/03/25 16:45	1
Xylenes, Total	ND		10.0	6.00	ug/L			09/03/25 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*56 - 136*		*09/03/25 16:45*	*1*
Dibromofluoromethane	*105*		*79 - 130*		*09/03/25 16:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*59 - 146*		*09/03/25 16:45*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*09/03/25 16:45*	*1*

Method: SW846 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.314	0.314	ug/L		08/28/25 07:00	08/29/25 20:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*26*		*10 - 140*	*08/28/25 07:00*	*08/29/25 20:53*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		9.90	0.416	ug/L		08/29/25 07:00	08/29/25 17:23	1
2,4,5-Trichlorophenol	ND		9.90	0.535	ug/L		08/29/25 07:00	08/29/25 17:23	1
2,4,6-Trichlorophenol	ND		9.90	1.08	ug/L		08/29/25 07:00	08/29/25 17:23	1
2,4-Dichlorophenol	ND		9.90	0.564	ug/L		08/29/25 07:00	08/29/25 17:23	1
2,4-Dimethylphenol	ND		9.90	0.238	ug/L		08/29/25 07:00	08/29/25 17:23	1
2,4-Dinitrophenol	ND	*- *1	29.7	4.63	ug/L		08/29/25 07:00	08/29/25 17:23	1
2,4-Dinitrotoluene	ND		9.90	0.644	ug/L		08/29/25 07:00	08/29/25 17:23	1
2,6-Dinitrotoluene	ND		9.90	0.287	ug/L		08/29/25 07:00	08/29/25 17:23	1
2-Chloronaphthalene	ND		9.90	0.376	ug/L		08/29/25 07:00	08/29/25 17:23	1
2-Chlorophenol	ND		9.90	0.832	ug/L		08/29/25 07:00	08/29/25 17:23	1
2-Methylnaphthalene	ND		9.90	0.802	ug/L		08/29/25 07:00	08/29/25 17:23	1
2-Methylphenol	ND		9.90	0.752	ug/L		08/29/25 07:00	08/29/25 17:23	1
2-Nitroaniline	ND		9.90	1.36	ug/L		08/29/25 07:00	08/29/25 17:23	1

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36231-1

Client Sample ID: MW-7
Date Collected: 08/26/25 11:17
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-2
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		9.90	1.16	ug/L		08/29/25 07:00	08/29/25 17:23	1
3 & 4 Methylphenol	ND		19.8	4.55	ug/L		08/29/25 07:00	08/29/25 17:23	1
3,3'-Dichlorobenzidine	ND		10.9	0.406	ug/L		08/29/25 07:00	08/29/25 17:23	1
3-Nitroaniline	ND		9.90	0.941	ug/L		08/29/25 07:00	08/29/25 17:23	1
4,6-Dinitro-2-methylphenol	ND		9.90	1.95	ug/L		08/29/25 07:00	08/29/25 17:23	1
4-Bromophenyl phenyl ether	ND		9.90	0.129	ug/L		08/29/25 07:00	08/29/25 17:23	1
4-Chloro-3-methylphenol	ND		9.90	0.723	ug/L		08/29/25 07:00	08/29/25 17:23	1
4-Chloroaniline	ND		9.90	0.574	ug/L		08/29/25 07:00	08/29/25 17:23	1
4-Chlorophenyl phenyl ether	ND		9.90	0.238	ug/L		08/29/25 07:00	08/29/25 17:23	1
4-Nitroaniline	ND		9.90	3.47	ug/L		08/29/25 07:00	08/29/25 17:23	1
4-Nitrophenol	ND		9.90	2.71	ug/L		08/29/25 07:00	08/29/25 17:23	1
Acenaphthene	ND		9.90	0.624	ug/L		08/29/25 07:00	08/29/25 17:23	1
Acenaphthylene	ND		9.90	0.752	ug/L		08/29/25 07:00	08/29/25 17:23	1
Acetophenone	ND		9.90	3.17	ug/L		08/29/25 07:00	08/29/25 17:23	1
Anthracene	ND		9.90	0.901	ug/L		08/29/25 07:00	08/29/25 17:23	1
Atrazine	ND		9.90	1.12	ug/L		08/29/25 07:00	08/29/25 17:23	1
Benzaldehyde	ND		9.90	0.663	ug/L		08/29/25 07:00	08/29/25 17:23	1
Benzo[a]anthracene	ND		9.90	0.990	ug/L		08/29/25 07:00	08/29/25 17:23	1
Benzo[a]pyrene	ND		9.90	1.09	ug/L		08/29/25 07:00	08/29/25 17:23	1
Benzo[b]fluoranthene	ND		9.90	1.19	ug/L		08/29/25 07:00	08/29/25 17:23	1
Benzo[g,h,i]perylene	ND		9.90	1.49	ug/L		08/29/25 07:00	08/29/25 17:23	1
Benzo[k]fluoranthene	ND		9.90	1.49	ug/L		08/29/25 07:00	08/29/25 17:23	1
bis (2-chloroisopropyl) ether	ND		9.90	0.921	ug/L		08/29/25 07:00	08/29/25 17:23	1
Bis(2-chloroethoxy)methane	ND		9.90	0.337	ug/L		08/29/25 07:00	08/29/25 17:23	1
Bis(2-chloroethyl)ether	ND		9.90	0.723	ug/L		08/29/25 07:00	08/29/25 17:23	1
Bis(2-ethylhexyl) phthalate	ND		9.90	3.96	ug/L		08/29/25 07:00	08/29/25 17:23	1
Butyl benzyl phthalate	ND		9.90	3.96	ug/L		08/29/25 07:00	08/29/25 17:23	1
Caprolactam	ND	*+	9.90	2.38	ug/L		08/29/25 07:00	08/29/25 17:23	1
Carbazole	ND		9.90	0.317	ug/L		08/29/25 07:00	08/29/25 17:23	1
Chrysene	ND		9.90	1.19	ug/L		08/29/25 07:00	08/29/25 17:23	1
Dibenz(a,h)anthracene	ND		9.90	1.29	ug/L		08/29/25 07:00	08/29/25 17:23	1
Dibenzofuran	ND		9.90	0.634	ug/L		08/29/25 07:00	08/29/25 17:23	1
Diethyl phthalate	ND		9.90	3.96	ug/L		08/29/25 07:00	08/29/25 17:23	1
Dimethyl phthalate	ND		9.90	3.96	ug/L		08/29/25 07:00	08/29/25 17:23	1
Di-n-butyl phthalate	ND		9.90	8.11	ug/L		08/29/25 07:00	08/29/25 17:23	1
Di-n-octyl phthalate	ND		9.90	3.96	ug/L		08/29/25 07:00	08/29/25 17:23	1
Fluoranthene	ND		9.90	0.624	ug/L		08/29/25 07:00	08/29/25 17:23	1
Fluorene	ND		9.90	0.663	ug/L		08/29/25 07:00	08/29/25 17:23	1
Hexachlorobenzene	ND		9.90	0.248	ug/L		08/29/25 07:00	08/29/25 17:23	1
Hexachlorobutadiene	ND		9.90	0.545	ug/L		08/29/25 07:00	08/29/25 17:23	1
Hexachlorocyclopentadiene	ND		19.8	0.317	ug/L		08/29/25 07:00	08/29/25 17:23	1
Hexachloroethane	ND		9.90	0.525	ug/L		08/29/25 07:00	08/29/25 17:23	1
Indeno[1,2,3-cd]pyrene	ND		9.90	1.09	ug/L		08/29/25 07:00	08/29/25 17:23	1
Isophorone	ND		9.90	0.792	ug/L		08/29/25 07:00	08/29/25 17:23	1
Naphthalene	ND		9.90	0.743	ug/L		08/29/25 07:00	08/29/25 17:23	1
Nitrobenzene	ND		9.90	0.594	ug/L		08/29/25 07:00	08/29/25 17:23	1
N-Nitrosodi-n-propylamine	ND		9.90	0.327	ug/L		08/29/25 07:00	08/29/25 17:23	1
N-Nitrosodiphenylamine	ND		9.90	0.188	ug/L		08/29/25 07:00	08/29/25 17:23	1
Pentachlorophenol	ND		9.90	2.77	ug/L		08/29/25 07:00	08/29/25 17:23	1

Client Sample ID: MW-7

Date Collected: 08/26/25 11:17
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-2

Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		9.90	0.733	ug/L		08/29/25 07:00	08/29/25 17:23	1
Phenol	ND		9.90	0.673	ug/L		08/29/25 07:00	08/29/25 17:23	1
Pyrene	ND		9.90	0.624	ug/L		08/29/25 07:00	08/29/25 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*10 - 150*	*08/29/25 07:00*	*08/29/25 17:23*	*1*
2-Fluorobiphenyl (Surr)	*73*		*25 - 139*	*08/29/25 07:00*	*08/29/25 17:23*	*1*
2-Fluorophenol (Surr)	*71*		*10 - 150*	*08/29/25 07:00*	*08/29/25 17:23*	*1*
Nitrobenzene-d5 (Surr)	*89*		*22 - 150*	*08/29/25 07:00*	*08/29/25 17:23*	*1*
Phenol-d5 (Surr)	*75*		*10 - 150*	*08/29/25 07:00*	*08/29/25 17:23*	*1*
Terphenyl-d14 (Surr)	*48*		*28 - 150*	*08/29/25 07:00*	*08/29/25 17:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	2.45	ug/L		09/02/25 12:35	09/04/25 01:13	1
Arsenic	**2.28**	**J**	5.00	1.32	ug/L		09/02/25 12:35	09/04/25 01:13	1
Barium	**281**		20.0	0.820	ug/L		09/02/25 12:35	09/05/25 20:56	2
Beryllium	ND		1.00	0.147	ug/L		09/02/25 12:35	09/04/25 01:13	1
Cadmium	ND		0.700	0.237	ug/L		09/02/25 12:35	09/04/25 01:13	1
Chromium	ND		5.00	3.69	ug/L		09/02/25 12:35	09/04/25 01:13	1
Cobalt	**19.2**		5.00	0.411	ug/L		09/02/25 12:35	09/04/25 01:13	1
Copper	ND		2.00	0.642	ug/L		09/02/25 12:35	09/04/25 01:13	1
Lead	ND		1.00	0.864	ug/L		09/02/25 12:35	09/04/25 01:13	1
Manganese	**7040**		10.0	2.58	ug/L		09/02/25 12:35	09/05/25 20:56	2
Nickel	**2.28**	**J**	5.00	0.422	ug/L		09/02/25 12:35	09/04/25 01:13	1
Selenium	ND		5.00	2.29	ug/L		09/02/25 12:35	09/04/25 01:13	1
Silver	ND		1.00	0.167	ug/L		09/02/25 12:35	09/04/25 01:13	1
Thallium	ND		1.00	0.190	ug/L		09/02/25 12:35	09/04/25 01:13	1
Vanadium	ND		5.00	1.22	ug/L		09/02/25 12:35	09/04/25 01:13	1
Zinc	ND		10.0	8.91	ug/L		09/02/25 12:35	09/04/25 01:13	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.166	ug/L		09/08/25 13:31	09/08/25 18:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.0200**	**J**	0.0500	0.0200	mg/L			09/03/25 10:39	1
Nitrate as N (SM Nitrate by calc)	ND		0.100	0.0250	mg/L			09/02/25 11:27	1
Sulfate (SM 4500 SO4 E)	ND		5.00	1.40	mg/L			09/08/25 10:48	1

Client Sample ID: MW-8

Date Collected: 08/26/25 12:33
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	10.0	ug/L			09/03/25 17:12	1
Benzene	ND		1.00	0.500	ug/L			09/03/25 17:12	1
Bromobenzene	ND		1.00	0.540	ug/L			09/03/25 17:12	1
Bromoform	ND		5.00	0.250	ug/L			09/03/25 17:12	1

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36231-1

Client Sample ID: MW-8
Date Collected: 08/26/25 12:33
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND	*+	1.00	0.980	ug/L			09/03/25 17:12	1
2-Butanone (MEK)	ND		25.0	2.60	ug/L			09/03/25 17:12	1
Carbon disulfide	ND		1.00	0.500	ug/L			09/03/25 17:12	1
Carbon tetrachloride	ND		1.00	0.190	ug/L			09/03/25 17:12	1
Chlorobenzene	ND		1.00	0.420	ug/L			09/03/25 17:12	1
Chlorobromomethane	ND		1.00	0.520	ug/L			09/03/25 17:12	1
Chlorodibromomethane	ND		1.00	0.240	ug/L			09/03/25 17:12	1
Chloroethane	ND		1.00	0.760	ug/L			09/03/25 17:12	1
Chloroform	ND		1.00	0.900	ug/L			09/03/25 17:12	1
Chloromethane	ND		1.00	0.400	ug/L			09/03/25 17:12	1
2-Chlorotoluene	ND		1.00	0.570	ug/L			09/03/25 17:12	1
4-Chlorotoluene	ND		1.00	0.560	ug/L			09/03/25 17:12	1
cis-1,2-Dichloroethene	ND		1.00	0.200	ug/L			09/03/25 17:12	1
cis-1,3-Dichloropropene	ND		5.00	0.500	ug/L			09/03/25 17:12	1
1,2-Dibromo-3-Chloropropane	ND		5.00	1.50	ug/L			09/03/25 17:12	1
Dibromomethane	ND		5.00	0.220	ug/L			09/03/25 17:12	1
1,2-Dichlorobenzene	ND		1.00	0.500	ug/L			09/03/25 17:12	1
1,3-Dichlorobenzene	ND		1.00	0.540	ug/L			09/03/25 17:12	1
1,4-Dichlorobenzene	ND		1.00	0.640	ug/L			09/03/25 17:12	1
Dichlorobromomethane	ND		1.00	0.500	ug/L			09/03/25 17:12	1
1,1-Dichloroethane	ND		1.00	0.500	ug/L			09/03/25 17:12	1
1,2-Dichloroethane	ND		1.00	0.550	ug/L			09/03/25 17:12	1
1,1-Dichloroethene	ND		1.00	0.500	ug/L			09/03/25 17:12	1
1,2-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 17:12	1
1,3-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 17:12	1
2,2-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 17:12	1
1,1-Dichloropropene	ND		1.00	0.0900	ug/L			09/03/25 17:12	1
Ethyl acetate	ND		10.0	6.14	ug/L			09/03/25 17:12	1
Ethylbenzene	ND		1.00	0.500	ug/L			09/03/25 17:12	1
Ethylene Dibromide	ND		1.00	0.230	ug/L			09/03/25 17:12	1
Hexachlorobutadiene	ND		5.00	0.900	ug/L			09/03/25 17:12	1
Hexane	ND		1.00	0.960	ug/L			09/03/25 17:12	1
2-Hexanone	ND		25.0	4.26	ug/L			09/03/25 17:12	1
Iodomethane	ND		1.00	0.900	ug/L			09/03/25 17:12	1
Isopropylbenzene	ND		1.00	0.530	ug/L			09/03/25 17:12	1
Isopropyl ether	ND		1.00	0.740	ug/L			09/03/25 17:12	1
4-Isopropyltoluene	ND		1.00	0.710	ug/L			09/03/25 17:12	1
Methylene Chloride	ND		5.00	3.00	ug/L			09/03/25 17:12	1
4-Methyl-2-pentanone (MIBK)	ND		25.0	1.80	ug/L			09/03/25 17:12	1
Methyl tert-butyl ether	ND		1.00	0.220	ug/L			09/03/25 17:12	1
m-Xylene & p-Xylene	ND		5.00	3.00	ug/L			09/03/25 17:12	1
Naphthalene	ND		5.00	3.00	ug/L			09/03/25 17:12	1
n-Butylbenzene	ND	*+	1.00	0.760	ug/L			09/03/25 17:12	1
n-Heptane	ND		1.00	0.210	ug/L			09/03/25 17:12	1
N-Propylbenzene	ND		1.00	0.690	ug/L			09/03/25 17:12	1
o-Xylene	ND		5.00	3.00	ug/L			09/03/25 17:12	1
sec-Butylbenzene	ND		1.00	0.700	ug/L			09/03/25 17:12	1
Styrene	ND		1.00	1.00	ug/L			09/03/25 17:12	1
tert-Butylbenzene	ND		1.00	0.630	ug/L			09/03/25 17:12	1

Client Sample ID: MW-8

Date Collected: 08/26/25 12:33
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.380	ug/L			09/03/25 17:12	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.500	ug/L			09/03/25 17:12	1
Tetrachloroethene	ND		1.00	0.330	ug/L			09/03/25 17:12	1
Toluene	ND		1.00	0.900	ug/L			09/03/25 17:12	1
trans-1,4-Dichloro-2-butene	ND		5.00	1.00	ug/L			09/03/25 17:12	1
trans-1,2-Dichloroethene	ND		1.00	0.500	ug/L			09/03/25 17:12	1
trans-1,3-Dichloropropene	ND		5.00	0.200	ug/L			09/03/25 17:12	1
1,2,3-Trichlorobenzene	ND		1.00	0.900	ug/L			09/03/25 17:12	1
1,2,4-Trichlorobenzene	ND		1.00	0.820	ug/L			09/03/25 17:12	1
1,1,1-Trichloroethane	ND		1.00	0.180	ug/L			09/03/25 17:12	1
1,1,2-Trichloroethane	ND		5.00	0.210	ug/L			09/03/25 17:12	1
Trichloroethene	ND		1.00	0.150	ug/L			09/03/25 17:12	1
Trichlorofluoromethane	ND		1.00	0.250	ug/L			09/03/25 17:12	1
1,2,3-Trichloropropane	ND		5.00	0.840	ug/L			09/03/25 17:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.500	ug/L			09/03/25 17:12	1
1,2,4-Trimethylbenzene	ND		1.00	0.820	ug/L			09/03/25 17:12	1
1,3,5-Trimethylbenzene	ND		1.00	0.560	ug/L			09/03/25 17:12	1
Vinyl acetate	ND		25.0	0.930	ug/L			09/03/25 17:12	1
Vinyl chloride	ND		1.00	0.500	ug/L			09/03/25 17:12	1
Xylenes, Total	ND		10.0	6.00	ug/L			09/03/25 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*56 - 136*		*09/03/25 17:12*	*1*
Dibromofluoromethane	*108*		*79 - 130*		*09/03/25 17:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*59 - 146*		*09/03/25 17:12*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*09/03/25 17:12*	*1*

Method: SW846 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.286	0.286	ug/L		08/28/25 07:00	08/29/25 21:15	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*24*		*10 - 140*	*08/28/25 07:00*	*08/29/25 21:15*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		9.87	0.414	ug/L		08/29/25 07:00	08/29/25 17:53	1
2,4,5-Trichlorophenol	ND		9.87	0.533	ug/L		08/29/25 07:00	08/29/25 17:53	1
2,4,6-Trichlorophenol	ND		9.87	1.08	ug/L		08/29/25 07:00	08/29/25 17:53	1
2,4-Dichlorophenol	ND		9.87	0.563	ug/L		08/29/25 07:00	08/29/25 17:53	1
2,4-Dimethylphenol	ND		9.87	0.237	ug/L		08/29/25 07:00	08/29/25 17:53	1
2,4-Dinitrophenol	ND	*- *1	29.6	4.62	ug/L		08/29/25 07:00	08/29/25 17:53	1
2,4-Dinitrotoluene	ND		9.87	0.641	ug/L		08/29/25 07:00	08/29/25 17:53	1
2,6-Dinitrotoluene	ND		9.87	0.286	ug/L		08/29/25 07:00	08/29/25 17:53	1
2-Chloronaphthalene	ND		9.87	0.375	ug/L		08/29/25 07:00	08/29/25 17:53	1
2-Chlorophenol	ND		9.87	0.829	ug/L		08/29/25 07:00	08/29/25 17:53	1
2-Methylnaphthalene	ND		9.87	0.799	ug/L		08/29/25 07:00	08/29/25 17:53	1
2-Methylphenol	ND		9.87	0.750	ug/L		08/29/25 07:00	08/29/25 17:53	1
2-Nitroaniline	ND		9.87	1.35	ug/L		08/29/25 07:00	08/29/25 17:53	1
2-Nitrophenol	ND		9.87	1.15	ug/L		08/29/25 07:00	08/29/25 17:53	1
3 & 4 Methylphenol	ND		19.7	4.54	ug/L		08/29/25 07:00	08/29/25 17:53	1

Client Sample ID: MW-8
Date Collected: 08/26/25 12:33
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-3
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	ND		10.9	0.405	ug/L		08/29/25 07:00	08/29/25 17:53	1
3-Nitroaniline	ND		9.87	0.938	ug/L		08/29/25 07:00	08/29/25 17:53	1
4,6-Dinitro-2-methylphenol	ND		9.87	1.94	ug/L		08/29/25 07:00	08/29/25 17:53	1
4-Bromophenyl phenyl ether	ND		9.87	0.128	ug/L		08/29/25 07:00	08/29/25 17:53	1
4-Chloro-3-methylphenol	ND		9.87	0.720	ug/L		08/29/25 07:00	08/29/25 17:53	1
4-Chloroaniline	ND		9.87	0.572	ug/L		08/29/25 07:00	08/29/25 17:53	1
4-Chlorophenyl phenyl ether	ND		9.87	0.237	ug/L		08/29/25 07:00	08/29/25 17:53	1
4-Nitroaniline	ND		9.87	3.45	ug/L		08/29/25 07:00	08/29/25 17:53	1
4-Nitrophenol	ND		9.87	2.70	ug/L		08/29/25 07:00	08/29/25 17:53	1
Acenaphthene	ND		9.87	0.622	ug/L		08/29/25 07:00	08/29/25 17:53	1
Acenaphthylene	ND		9.87	0.750	ug/L		08/29/25 07:00	08/29/25 17:53	1
Acetophenone	ND		9.87	3.16	ug/L		08/29/25 07:00	08/29/25 17:53	1
Anthracene	ND		9.87	0.898	ug/L		08/29/25 07:00	08/29/25 17:53	1
Atrazine	ND		9.87	1.12	ug/L		08/29/25 07:00	08/29/25 17:53	1
Benzaldehyde	ND		9.87	0.661	ug/L		08/29/25 07:00	08/29/25 17:53	1
Benzo[a]anthracene	ND		9.87	0.987	ug/L		08/29/25 07:00	08/29/25 17:53	1
Benzo[a]pyrene	ND		9.87	1.09	ug/L		08/29/25 07:00	08/29/25 17:53	1
Benzo[b]fluoranthene	ND		9.87	1.18	ug/L		08/29/25 07:00	08/29/25 17:53	1
Benzo[g,h,i]perylene	ND		9.87	1.48	ug/L		08/29/25 07:00	08/29/25 17:53	1
Benzo[k]fluoranthene	ND		9.87	1.48	ug/L		08/29/25 07:00	08/29/25 17:53	1
bis (2-chloroisopropyl) ether	ND		9.87	0.918	ug/L		08/29/25 07:00	08/29/25 17:53	1
Bis(2-chloroethoxy)methane	ND		9.87	0.336	ug/L		08/29/25 07:00	08/29/25 17:53	1
Bis(2-chloroethyl)ether	ND		9.87	0.720	ug/L		08/29/25 07:00	08/29/25 17:53	1
Bis(2-ethylhexyl) phthalate	ND		9.87	3.95	ug/L		08/29/25 07:00	08/29/25 17:53	1
Butyl benzyl phthalate	ND		9.87	3.95	ug/L		08/29/25 07:00	08/29/25 17:53	1
Caprolactam	ND	*+	9.87	2.37	ug/L		08/29/25 07:00	08/29/25 17:53	1
Carbazole	ND		9.87	0.316	ug/L		08/29/25 07:00	08/29/25 17:53	1
Chrysene	ND		9.87	1.18	ug/L		08/29/25 07:00	08/29/25 17:53	1
Dibenz(a,h)anthracene	ND		9.87	1.28	ug/L		08/29/25 07:00	08/29/25 17:53	1
Dibenzofuran	ND		9.87	0.632	ug/L		08/29/25 07:00	08/29/25 17:53	1
Diethyl phthalate	ND		9.87	3.95	ug/L		08/29/25 07:00	08/29/25 17:53	1
Dimethyl phthalate	ND		9.87	3.95	ug/L		08/29/25 07:00	08/29/25 17:53	1
Di-n-butyl phthalate	ND		9.87	8.08	ug/L		08/29/25 07:00	08/29/25 17:53	1
Di-n-octyl phthalate	ND		9.87	3.95	ug/L		08/29/25 07:00	08/29/25 17:53	1
Fluoranthene	ND		9.87	0.622	ug/L		08/29/25 07:00	08/29/25 17:53	1
Fluorene	ND		9.87	0.661	ug/L		08/29/25 07:00	08/29/25 17:53	1
Hexachlorobenzene	ND		9.87	0.247	ug/L		08/29/25 07:00	08/29/25 17:53	1
Hexachlorobutadiene	ND		9.87	0.543	ug/L		08/29/25 07:00	08/29/25 17:53	1
Hexachlorocyclopentadiene	ND		19.7	0.316	ug/L		08/29/25 07:00	08/29/25 17:53	1
Hexachloroethane	ND		9.87	0.523	ug/L		08/29/25 07:00	08/29/25 17:53	1
Indeno[1,2,3-cd]pyrene	ND		9.87	1.09	ug/L		08/29/25 07:00	08/29/25 17:53	1
Isophorone	ND		9.87	0.789	ug/L		08/29/25 07:00	08/29/25 17:53	1
Naphthalene	ND		9.87	0.740	ug/L		08/29/25 07:00	08/29/25 17:53	1
Nitrobenzene	ND		9.87	0.592	ug/L		08/29/25 07:00	08/29/25 17:53	1
N-Nitrosodi-n-propylamine	ND		9.87	0.326	ug/L		08/29/25 07:00	08/29/25 17:53	1
N-Nitrosodiphenylamine	ND		9.87	0.188	ug/L		08/29/25 07:00	08/29/25 17:53	1
Pentachlorophenol	ND		9.87	2.76	ug/L		08/29/25 07:00	08/29/25 17:53	1
Phenanthrene	ND		9.87	0.730	ug/L		08/29/25 07:00	08/29/25 17:53	1
Phenol	ND		9.87	0.671	ug/L		08/29/25 07:00	08/29/25 17:53	1

Client Sample ID: MW-8

Lab Sample ID: 752-36231-3

Date Collected: 08/26/25 12:33

Matrix: Water

Date Received: 08/27/25 10:08

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		9.87	0.622	ug/L		08/29/25 07:00	08/29/25 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*10 - 150*	*08/29/25 07:00*	*08/29/25 17:53*	*1*
2-Fluorobiphenyl (Surr)	*75*		*25 - 139*	*08/29/25 07:00*	*08/29/25 17:53*	*1*
2-Fluorophenol (Surr)	*82*		*10 - 150*	*08/29/25 07:00*	*08/29/25 17:53*	*1*
Nitrobenzene-d5 (Surr)	*91*		*22 - 150*	*08/29/25 07:00*	*08/29/25 17:53*	*1*
Phenol-d5 (Surr)	*89*		*10 - 150*	*08/29/25 07:00*	*08/29/25 17:53*	*1*
Terphenyl-d14 (Surr)	*59*		*28 - 150*	*08/29/25 07:00*	*08/29/25 17:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	2.45	ug/L		09/02/25 12:35	09/04/25 01:16	1
Arsenic	ND		5.00	1.32	ug/L		09/02/25 12:35	09/04/25 01:16	1
Barium	**304**		10.0	0.410	ug/L		09/02/25 12:35	09/16/25 17:48	1
Beryllium	ND		1.00	0.147	ug/L		09/02/25 12:35	09/04/25 01:16	1
Cadmium	ND		0.700	0.237	ug/L		09/02/25 12:35	09/04/25 01:16	1
Chromium	ND		5.00	3.69	ug/L		09/02/25 12:35	09/04/25 01:16	1
Cobalt	ND		5.00	0.411	ug/L		09/02/25 12:35	09/04/25 01:16	1
Copper	ND		2.00	0.642	ug/L		09/02/25 12:35	09/04/25 01:16	1
Lead	ND		1.00	0.864	ug/L		09/02/25 12:35	09/04/25 01:16	1
Manganese	**451**		5.00	1.29	ug/L		09/02/25 12:35	09/16/25 17:48	1
Nickel	ND		5.00	0.422	ug/L		09/02/25 12:35	09/04/25 01:16	1
Selenium	ND		5.00	2.29	ug/L		09/02/25 12:35	09/04/25 01:16	1
Silver	ND		1.00	0.167	ug/L		09/02/25 12:35	09/04/25 01:16	1
Thallium	ND		1.00	0.190	ug/L		09/02/25 12:35	09/04/25 01:16	1
Vanadium	ND		5.00	1.22	ug/L		09/02/25 12:35	09/04/25 01:16	1
Zinc	ND		10.0	8.91	ug/L		09/02/25 12:35	09/04/25 01:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.166	ug/L		09/08/25 13:31	09/08/25 19:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.0500	0.0200	mg/L			09/03/25 10:41	1
Nitrate as N (SM Nitrate by calc)	ND		0.100	0.0250	mg/L			09/02/25 11:27	1
Sulfate (SM 4500 SO4 E)	**9.50**		5.00	1.40	mg/L			09/08/25 10:48	1

Client Sample ID: MW-9

Lab Sample ID: 752-36231-4

Date Collected: 08/26/25 13:43

Matrix: Water

Date Received: 08/27/25 10:08

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	10.0	ug/L			09/03/25 17:39	1
Benzene	ND		1.00	0.500	ug/L			09/03/25 17:39	1
Bromobenzene	ND		1.00	0.540	ug/L			09/03/25 17:39	1
Bromoform	ND		5.00	0.250	ug/L			09/03/25 17:39	1
Bromomethane	ND	*+	1.00	0.980	ug/L			09/03/25 17:39	1
2-Butanone (MEK)	ND		25.0	2.60	ug/L			09/03/25 17:39	1

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36231-1

Client Sample ID: MW-9
Date Collected: 08/26/25 13:43
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.00	0.500	ug/L			09/03/25 17:39	1
Carbon tetrachloride	ND		1.00	0.190	ug/L			09/03/25 17:39	1
Chlorobenzene	ND		1.00	0.420	ug/L			09/03/25 17:39	1
Chlorobromomethane	ND		1.00	0.520	ug/L			09/03/25 17:39	1
Chlorodibromomethane	ND		1.00	0.240	ug/L			09/03/25 17:39	1
Chloroethane	ND		1.00	0.760	ug/L			09/03/25 17:39	1
Chloroform	ND		1.00	0.900	ug/L			09/03/25 17:39	1
Chloromethane	ND		1.00	0.400	ug/L			09/03/25 17:39	1
2-Chlorotoluene	ND		1.00	0.570	ug/L			09/03/25 17:39	1
4-Chlorotoluene	ND		1.00	0.560	ug/L			09/03/25 17:39	1
cis-1,2-Dichloroethene	ND		1.00	0.200	ug/L			09/03/25 17:39	1
cis-1,3-Dichloropropene	ND		5.00	0.500	ug/L			09/03/25 17:39	1
1,2-Dibromo-3-Chloropropane	ND		5.00	1.50	ug/L			09/03/25 17:39	1
Dibromomethane	ND		5.00	0.220	ug/L			09/03/25 17:39	1
1,2-Dichlorobenzene	ND		1.00	0.500	ug/L			09/03/25 17:39	1
1,3-Dichlorobenzene	ND		1.00	0.540	ug/L			09/03/25 17:39	1
1,4-Dichlorobenzene	ND		1.00	0.640	ug/L			09/03/25 17:39	1
Dichlorobromomethane	ND		1.00	0.500	ug/L			09/03/25 17:39	1
1,1-Dichloroethane	ND		1.00	0.500	ug/L			09/03/25 17:39	1
1,2-Dichloroethane	ND		1.00	0.550	ug/L			09/03/25 17:39	1
1,1-Dichloroethene	ND		1.00	0.500	ug/L			09/03/25 17:39	1
1,2-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 17:39	1
1,3-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 17:39	1
2,2-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 17:39	1
1,1-Dichloropropene	ND		1.00	0.0900	ug/L			09/03/25 17:39	1
Ethyl acetate	ND		10.0	6.14	ug/L			09/03/25 17:39	1
Ethylbenzene	ND		1.00	0.500	ug/L			09/03/25 17:39	1
Ethylene Dibromide	ND		1.00	0.230	ug/L			09/03/25 17:39	1
Hexachlorobutadiene	ND		5.00	0.900	ug/L			09/03/25 17:39	1
Hexane	ND		1.00	0.960	ug/L			09/03/25 17:39	1
2-Hexanone	ND		25.0	4.26	ug/L			09/03/25 17:39	1
Iodomethane	ND		1.00	0.900	ug/L			09/03/25 17:39	1
Isopropylbenzene	ND		1.00	0.530	ug/L			09/03/25 17:39	1
Isopropyl ether	ND		1.00	0.740	ug/L			09/03/25 17:39	1
4-Isopropyltoluene	ND		1.00	0.710	ug/L			09/03/25 17:39	1
Methylene Chloride	ND		5.00	3.00	ug/L			09/03/25 17:39	1
4-Methyl-2-pentanone (MIBK)	ND		25.0	1.80	ug/L			09/03/25 17:39	1
Methyl tert-butyl ether	ND		1.00	0.220	ug/L			09/03/25 17:39	1
m-Xylene & p-Xylene	ND		5.00	3.00	ug/L			09/03/25 17:39	1
Naphthalene	ND		5.00	3.00	ug/L			09/03/25 17:39	1
n-Butylbenzene	ND	*+	1.00	0.760	ug/L			09/03/25 17:39	1
n-Heptane	ND		1.00	0.210	ug/L			09/03/25 17:39	1
N-Propylbenzene	ND		1.00	0.690	ug/L			09/03/25 17:39	1
o-Xylene	ND		5.00	3.00	ug/L			09/03/25 17:39	1
sec-Butylbenzene	ND		1.00	0.700	ug/L			09/03/25 17:39	1
Styrene	ND		1.00	1.00	ug/L			09/03/25 17:39	1
tert-Butylbenzene	ND		1.00	0.630	ug/L			09/03/25 17:39	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.380	ug/L			09/03/25 17:39	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.500	ug/L			09/03/25 17:39	1

Client Sample ID: MW-9
Date Collected: 08/26/25 13:43
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00	0.330	ug/L			09/03/25 17:39	1
Toluene	ND		1.00	0.900	ug/L			09/03/25 17:39	1
trans-1,4-Dichloro-2-butene	ND		5.00	1.00	ug/L			09/03/25 17:39	1
trans-1,2-Dichloroethene	ND		1.00	0.500	ug/L			09/03/25 17:39	1
trans-1,3-Dichloropropene	ND		5.00	0.200	ug/L			09/03/25 17:39	1
1,2,3-Trichlorobenzene	ND		1.00	0.900	ug/L			09/03/25 17:39	1
1,2,4-Trichlorobenzene	ND		1.00	0.820	ug/L			09/03/25 17:39	1
1,1,1-Trichloroethane	ND		1.00	0.180	ug/L			09/03/25 17:39	1
1,1,2-Trichloroethane	ND		5.00	0.210	ug/L			09/03/25 17:39	1
Trichloroethene	ND		1.00	0.150	ug/L			09/03/25 17:39	1
Trichlorofluoromethane	ND		1.00	0.250	ug/L			09/03/25 17:39	1
1,2,3-Trichloropropane	ND		5.00	0.840	ug/L			09/03/25 17:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.500	ug/L			09/03/25 17:39	1
1,2,4-Trimethylbenzene	ND		1.00	0.820	ug/L			09/03/25 17:39	1
1,3,5-Trimethylbenzene	ND		1.00	0.560	ug/L			09/03/25 17:39	1
Vinyl acetate	ND		25.0	0.930	ug/L			09/03/25 17:39	1
Vinyl chloride	ND		1.00	0.500	ug/L			09/03/25 17:39	1
Xylenes, Total	ND		10.0	6.00	ug/L			09/03/25 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*56 - 136*		*09/03/25 17:39*	*1*
Dibromofluoromethane	*108*		*79 - 130*		*09/03/25 17:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*59 - 146*		*09/03/25 17:39*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*09/03/25 17:39*	*1*

Method: SW846 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.280	0.280	ug/L		08/28/25 07:00	08/29/25 21:36	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*28*		*10 - 140*	*08/28/25 07:00*	*08/29/25 21:36*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		10.0	0.420	ug/L		08/29/25 07:00	08/29/25 18:23	1
2,4,5-Trichlorophenol	ND		10.0	0.540	ug/L		08/29/25 07:00	08/29/25 18:23	1
2,4,6-Trichlorophenol	ND		10.0	1.09	ug/L		08/29/25 07:00	08/29/25 18:23	1
2,4-Dichlorophenol	ND		10.0	0.570	ug/L		08/29/25 07:00	08/29/25 18:23	1
2,4-Dimethylphenol	ND		10.0	0.240	ug/L		08/29/25 07:00	08/29/25 18:23	1
2,4-Dinitrophenol	ND	*- *1	30.0	4.68	ug/L		08/29/25 07:00	08/29/25 18:23	1
2,4-Dinitrotoluene	ND		10.0	0.650	ug/L		08/29/25 07:00	08/29/25 18:23	1
2,6-Dinitrotoluene	ND		10.0	0.290	ug/L		08/29/25 07:00	08/29/25 18:23	1
2-Chloronaphthalene	ND		10.0	0.380	ug/L		08/29/25 07:00	08/29/25 18:23	1
2-Chlorophenol	ND		10.0	0.840	ug/L		08/29/25 07:00	08/29/25 18:23	1
2-Methylnaphthalene	ND		10.0	0.810	ug/L		08/29/25 07:00	08/29/25 18:23	1
2-Methylphenol	ND		10.0	0.760	ug/L		08/29/25 07:00	08/29/25 18:23	1
2-Nitroaniline	ND		10.0	1.37	ug/L		08/29/25 07:00	08/29/25 18:23	1
2-Nitrophenol	ND		10.0	1.17	ug/L		08/29/25 07:00	08/29/25 18:23	1
3 & 4 Methylphenol	ND		20.0	4.60	ug/L		08/29/25 07:00	08/29/25 18:23	1
3,3'-Dichlorobenzidine	ND		11.0	0.410	ug/L		08/29/25 07:00	08/29/25 18:23	1
3-Nitroaniline	ND		10.0	0.950	ug/L		08/29/25 07:00	08/29/25 18:23	1

Client Sample ID: MW-9
Date Collected: 08/26/25 13:43
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-4
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		10.0	1.97	ug/L		08/29/25 07:00	08/29/25 18:23	1
4-Bromophenyl phenyl ether	ND		10.0	0.130	ug/L		08/29/25 07:00	08/29/25 18:23	1
4-Chloro-3-methylphenol	ND		10.0	0.730	ug/L		08/29/25 07:00	08/29/25 18:23	1
4-Chloroaniline	ND		10.0	0.580	ug/L		08/29/25 07:00	08/29/25 18:23	1
4-Chlorophenyl phenyl ether	ND		10.0	0.240	ug/L		08/29/25 07:00	08/29/25 18:23	1
4-Nitroaniline	ND		10.0	3.50	ug/L		08/29/25 07:00	08/29/25 18:23	1
4-Nitrophenol	ND		10.0	2.74	ug/L		08/29/25 07:00	08/29/25 18:23	1
Acenaphthene	ND		10.0	0.630	ug/L		08/29/25 07:00	08/29/25 18:23	1
Acenaphthylene	ND		10.0	0.760	ug/L		08/29/25 07:00	08/29/25 18:23	1
Acetophenone	ND		10.0	3.20	ug/L		08/29/25 07:00	08/29/25 18:23	1
Anthracene	ND		10.0	0.910	ug/L		08/29/25 07:00	08/29/25 18:23	1
Atrazine	ND		10.0	1.13	ug/L		08/29/25 07:00	08/29/25 18:23	1
Benzaldehyde	ND		10.0	0.670	ug/L		08/29/25 07:00	08/29/25 18:23	1
Benzo[a]anthracene	ND		10.0	1.00	ug/L		08/29/25 07:00	08/29/25 18:23	1
Benzo[a]pyrene	ND		10.0	1.10	ug/L		08/29/25 07:00	08/29/25 18:23	1
Benzo[b]fluoranthene	ND		10.0	1.20	ug/L		08/29/25 07:00	08/29/25 18:23	1
Benzo[g,h,i]perylene	ND		10.0	1.50	ug/L		08/29/25 07:00	08/29/25 18:23	1
Benzo[k]fluoranthene	ND		10.0	1.50	ug/L		08/29/25 07:00	08/29/25 18:23	1
bis (2-chloroisopropyl) ether	ND		10.0	0.930	ug/L		08/29/25 07:00	08/29/25 18:23	1
Bis(2-chloroethoxy)methane	ND		10.0	0.340	ug/L		08/29/25 07:00	08/29/25 18:23	1
Bis(2-chloroethyl)ether	ND		10.0	0.730	ug/L		08/29/25 07:00	08/29/25 18:23	1
Bis(2-ethylhexyl) phthalate	ND		10.0	4.00	ug/L		08/29/25 07:00	08/29/25 18:23	1
Butyl benzyl phthalate	ND		10.0	4.00	ug/L		08/29/25 07:00	08/29/25 18:23	1
Caprolactam	**7.16**	**J *+**	10.0	2.40	ug/L		08/29/25 07:00	08/29/25 18:23	1
Carbazole	ND		10.0	0.320	ug/L		08/29/25 07:00	08/29/25 18:23	1
Chrysene	ND		10.0	1.20	ug/L		08/29/25 07:00	08/29/25 18:23	1
Dibenz(a,h)anthracene	ND		10.0	1.30	ug/L		08/29/25 07:00	08/29/25 18:23	1
Dibenzofuran	ND		10.0	0.640	ug/L		08/29/25 07:00	08/29/25 18:23	1
Diethyl phthalate	ND		10.0	4.00	ug/L		08/29/25 07:00	08/29/25 18:23	1
Dimethyl phthalate	ND		10.0	4.00	ug/L		08/29/25 07:00	08/29/25 18:23	1
Di-n-butyl phthalate	ND		10.0	8.19	ug/L		08/29/25 07:00	08/29/25 18:23	1
Di-n-octyl phthalate	ND		10.0	4.00	ug/L		08/29/25 07:00	08/29/25 18:23	1
Fluoranthene	ND		10.0	0.630	ug/L		08/29/25 07:00	08/29/25 18:23	1
Fluorene	ND		10.0	0.670	ug/L		08/29/25 07:00	08/29/25 18:23	1
Hexachlorobenzene	ND		10.0	0.250	ug/L		08/29/25 07:00	08/29/25 18:23	1
Hexachlorobutadiene	ND		10.0	0.550	ug/L		08/29/25 07:00	08/29/25 18:23	1
Hexachlorocyclopentadiene	ND		20.0	0.320	ug/L		08/29/25 07:00	08/29/25 18:23	1
Hexachloroethane	ND		10.0	0.530	ug/L		08/29/25 07:00	08/29/25 18:23	1
Indeno[1,2,3-cd]pyrene	ND		10.0	1.10	ug/L		08/29/25 07:00	08/29/25 18:23	1
Isophorone	ND		10.0	0.800	ug/L		08/29/25 07:00	08/29/25 18:23	1
Naphthalene	ND		10.0	0.750	ug/L		08/29/25 07:00	08/29/25 18:23	1
Nitrobenzene	ND		10.0	0.600	ug/L		08/29/25 07:00	08/29/25 18:23	1
N-Nitrosodi-n-propylamine	ND		10.0	0.330	ug/L		08/29/25 07:00	08/29/25 18:23	1
N-Nitrosodiphenylamine	ND		10.0	0.190	ug/L		08/29/25 07:00	08/29/25 18:23	1
Pentachlorophenol	ND		10.0	2.80	ug/L		08/29/25 07:00	08/29/25 18:23	1
Phenanthrene	ND		10.0	0.740	ug/L		08/29/25 07:00	08/29/25 18:23	1
Phenol	ND		10.0	0.680	ug/L		08/29/25 07:00	08/29/25 18:23	1
Pyrene	ND		10.0	0.630	ug/L		08/29/25 07:00	08/29/25 18:23	1

Client Sample ID: MW-9

Date Collected: 08/26/25 13:43
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-4

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*60*		*10 - 150*	*08/29/25 07:00*	*08/29/25 18:23*	*1*
2-Fluorobiphenyl (Surr)	*66*		*25 - 139*	*08/29/25 07:00*	*08/29/25 18:23*	*1*
2-Fluorophenol (Surr)	*66*		*10 - 150*	*08/29/25 07:00*	*08/29/25 18:23*	*1*
Nitrobenzene-d5 (Surr)	*79*		*22 - 150*	*08/29/25 07:00*	*08/29/25 18:23*	*1*
Phenol-d5 (Surr)	*69*		*10 - 150*	*08/29/25 07:00*	*08/29/25 18:23*	*1*
Terphenyl-d14 (Surr)	*51*		*28 - 150*	*08/29/25 07:00*	*08/29/25 18:23*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	2.45	ug/L		09/02/25 12:35	09/04/25 01:20	1
Arsenic	ND		5.00	1.32	ug/L		09/02/25 12:35	09/04/25 01:20	1
Barium	**65.1**		10.0	0.410	ug/L		09/02/25 12:35	09/04/25 01:20	1
Beryllium	ND		1.00	0.147	ug/L		09/02/25 12:35	09/04/25 01:20	1
Cadmium	ND		0.700	0.237	ug/L		09/02/25 12:35	09/04/25 01:20	1
Chromium	ND		5.00	3.69	ug/L		09/02/25 12:35	09/04/25 01:20	1
Cobalt	**1.22**	**J**	5.00	0.411	ug/L		09/02/25 12:35	09/04/25 01:20	1
Copper	ND		2.00	0.642	ug/L		09/02/25 12:35	09/04/25 01:20	1
Lead	ND		1.00	0.864	ug/L		09/02/25 12:35	09/04/25 01:20	1
Manganese	**410**		5.00	1.29	ug/L		09/02/25 12:35	09/16/25 17:50	1
Nickel	**0.569**	**J**	5.00	0.422	ug/L		09/02/25 12:35	09/04/25 01:20	1
Selenium	ND		5.00	2.29	ug/L		09/02/25 12:35	09/04/25 01:20	1
Silver	ND		1.00	0.167	ug/L		09/02/25 12:35	09/04/25 01:20	1
Thallium	ND		1.00	0.190	ug/L		09/02/25 12:35	09/04/25 01:20	1
Vanadium	ND		5.00	1.22	ug/L		09/02/25 12:35	09/04/25 01:20	1
Zinc	ND		10.0	8.91	ug/L		09/02/25 12:35	09/04/25 01:20	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.166	ug/L		09/08/25 13:31	09/08/25 19:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.0500	0.0200	mg/L			09/03/25 10:43	1
Nitrate as N (SM Nitrate by calc)	ND		0.100	0.0250	mg/L			09/02/25 11:27	1
Sulfate (SM 4500 SO4 E)	**56.8**		10.0	2.80	mg/L			09/08/25 11:19	2

Client Sample ID: Duplicate-2

Date Collected: 08/26/25 00:00
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	10.0	ug/L			09/03/25 18:06	1
Benzene	ND		1.00	0.500	ug/L			09/03/25 18:06	1
Bromobenzene	ND		1.00	0.540	ug/L			09/03/25 18:06	1
Bromoform	ND		5.00	0.250	ug/L			09/03/25 18:06	1
Bromomethane	ND	*+	1.00	0.980	ug/L			09/03/25 18:06	1
2-Butanone (MEK)	ND		25.0	2.60	ug/L			09/03/25 18:06	1
Carbon disulfide	ND		1.00	0.500	ug/L			09/03/25 18:06	1
Carbon tetrachloride	ND		1.00	0.190	ug/L			09/03/25 18:06	1
Chlorobenzene	ND		1.00	0.420	ug/L			09/03/25 18:06	1

Client Sample ID: Duplicate-2
Date Collected: 08/26/25 00:00
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobromomethane	ND		1.00	0.520	ug/L			09/03/25 18:06	1
Chlorodibromomethane	ND		1.00	0.240	ug/L			09/03/25 18:06	1
Chloroethane	ND		1.00	0.760	ug/L			09/03/25 18:06	1
Chloroform	ND		1.00	0.900	ug/L			09/03/25 18:06	1
Chloromethane	ND		1.00	0.400	ug/L			09/03/25 18:06	1
2-Chlorotoluene	ND		1.00	0.570	ug/L			09/03/25 18:06	1
4-Chlorotoluene	ND		1.00	0.560	ug/L			09/03/25 18:06	1
cis-1,2-Dichloroethene	ND		1.00	0.200	ug/L			09/03/25 18:06	1
cis-1,3-Dichloropropene	ND		5.00	0.500	ug/L			09/03/25 18:06	1
1,2-Dibromo-3-Chloropropane	ND		5.00	1.50	ug/L			09/03/25 18:06	1
Dibromomethane	ND		5.00	0.220	ug/L			09/03/25 18:06	1
1,2-Dichlorobenzene	ND		1.00	0.500	ug/L			09/03/25 18:06	1
1,3-Dichlorobenzene	ND		1.00	0.540	ug/L			09/03/25 18:06	1
1,4-Dichlorobenzene	ND		1.00	0.640	ug/L			09/03/25 18:06	1
Dichlorobromomethane	ND		1.00	0.500	ug/L			09/03/25 18:06	1
1,1-Dichloroethane	ND		1.00	0.500	ug/L			09/03/25 18:06	1
1,2-Dichloroethane	ND		1.00	0.550	ug/L			09/03/25 18:06	1
1,1-Dichloroethene	ND		1.00	0.500	ug/L			09/03/25 18:06	1
1,2-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 18:06	1
1,3-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 18:06	1
2,2-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 18:06	1
1,1-Dichloropropene	ND		1.00	0.0900	ug/L			09/03/25 18:06	1
Ethyl acetate	ND		10.0	6.14	ug/L			09/03/25 18:06	1
Ethylbenzene	ND		1.00	0.500	ug/L			09/03/25 18:06	1
Ethylene Dibromide	ND		1.00	0.230	ug/L			09/03/25 18:06	1
Hexachlorobutadiene	ND		5.00	0.900	ug/L			09/03/25 18:06	1
Hexane	ND		1.00	0.960	ug/L			09/03/25 18:06	1
2-Hexanone	ND		25.0	4.26	ug/L			09/03/25 18:06	1
Iodomethane	ND		1.00	0.900	ug/L			09/03/25 18:06	1
Isopropylbenzene	ND		1.00	0.530	ug/L			09/03/25 18:06	1
Isopropyl ether	ND		1.00	0.740	ug/L			09/03/25 18:06	1
4-Isopropyltoluene	ND		1.00	0.710	ug/L			09/03/25 18:06	1
Methylene Chloride	ND		5.00	3.00	ug/L			09/03/25 18:06	1
4-Methyl-2-pentanone (MIBK)	ND		25.0	1.80	ug/L			09/03/25 18:06	1
Methyl tert-butyl ether	ND		1.00	0.220	ug/L			09/03/25 18:06	1
m-Xylene & p-Xylene	ND		5.00	3.00	ug/L			09/03/25 18:06	1
Naphthalene	ND		5.00	3.00	ug/L			09/03/25 18:06	1
n-Butylbenzene	ND	*+	1.00	0.760	ug/L			09/03/25 18:06	1
n-Heptane	ND		1.00	0.210	ug/L			09/03/25 18:06	1
N-Propylbenzene	ND		1.00	0.690	ug/L			09/03/25 18:06	1
o-Xylene	ND		5.00	3.00	ug/L			09/03/25 18:06	1
sec-Butylbenzene	ND		1.00	0.700	ug/L			09/03/25 18:06	1
Styrene	ND		1.00	1.00	ug/L			09/03/25 18:06	1
tert-Butylbenzene	ND		1.00	0.630	ug/L			09/03/25 18:06	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.380	ug/L			09/03/25 18:06	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.500	ug/L			09/03/25 18:06	1
Tetrachloroethene	ND		1.00	0.330	ug/L			09/03/25 18:06	1
Toluene	ND		1.00	0.900	ug/L			09/03/25 18:06	1
trans-1,4-Dichloro-2-butene	ND		5.00	1.00	ug/L			09/03/25 18:06	1

Client Sample ID: Duplicate-2
Date Collected: 08/26/25 00:00
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.00	0.500	ug/L			09/03/25 18:06	1
trans-1,3-Dichloropropene	ND		5.00	0.200	ug/L			09/03/25 18:06	1
1,2,3-Trichlorobenzene	ND		1.00	0.900	ug/L			09/03/25 18:06	1
1,2,4-Trichlorobenzene	ND		1.00	0.820	ug/L			09/03/25 18:06	1
1,1,1-Trichloroethane	ND		1.00	0.180	ug/L			09/03/25 18:06	1
1,1,2-Trichloroethane	ND		5.00	0.210	ug/L			09/03/25 18:06	1
Trichloroethene	ND		1.00	0.150	ug/L			09/03/25 18:06	1
Trichlorofluoromethane	ND		1.00	0.250	ug/L			09/03/25 18:06	1
1,2,3-Trichloropropane	ND		5.00	0.840	ug/L			09/03/25 18:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.500	ug/L			09/03/25 18:06	1
1,2,4-Trimethylbenzene	ND		1.00	0.820	ug/L			09/03/25 18:06	1
1,3,5-Trimethylbenzene	ND		1.00	0.560	ug/L			09/03/25 18:06	1
Vinyl acetate	ND		25.0	0.930	ug/L			09/03/25 18:06	1
Vinyl chloride	ND		1.00	0.500	ug/L			09/03/25 18:06	1
Xylenes, Total	ND		10.0	6.00	ug/L			09/03/25 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*56 - 136*		*09/03/25 18:06*	*1*
Dibromofluoromethane	*105*		*79 - 130*		*09/03/25 18:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*59 - 146*		*09/03/25 18:06*	*1*
Toluene-d8 (Surr)	*102*		*64 - 132*		*09/03/25 18:06*	*1*

Method: SW846 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.300	0.300	ug/L		08/28/25 07:00	08/29/25 21:58	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*27*		*10 - 140*	*08/28/25 07:00*	*08/29/25 21:58*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		9.97	0.419	ug/L		08/29/25 07:00	08/29/25 18:53	1
2,4,5-Trichlorophenol	ND		9.97	0.538	ug/L		08/29/25 07:00	08/29/25 18:53	1
2,4,6-Trichlorophenol	ND		9.97	1.09	ug/L		08/29/25 07:00	08/29/25 18:53	1
2,4-Dichlorophenol	ND		9.97	0.568	ug/L		08/29/25 07:00	08/29/25 18:53	1
2,4-Dimethylphenol	ND		9.97	0.239	ug/L		08/29/25 07:00	08/29/25 18:53	1
2,4-Dinitrophenol	ND	*- *1	29.9	4.66	ug/L		08/29/25 07:00	08/29/25 18:53	1
2,4-Dinitrotoluene	ND		9.97	0.648	ug/L		08/29/25 07:00	08/29/25 18:53	1
2,6-Dinitrotoluene	ND		9.97	0.289	ug/L		08/29/25 07:00	08/29/25 18:53	1
2-Chloronaphthalene	ND		9.97	0.379	ug/L		08/29/25 07:00	08/29/25 18:53	1
2-Chlorophenol	ND		9.97	0.837	ug/L		08/29/25 07:00	08/29/25 18:53	1
2-Methylnaphthalene	ND		9.97	0.807	ug/L		08/29/25 07:00	08/29/25 18:53	1
2-Methylphenol	ND		9.97	0.757	ug/L		08/29/25 07:00	08/29/25 18:53	1
2-Nitroaniline	ND		9.97	1.37	ug/L		08/29/25 07:00	08/29/25 18:53	1
2-Nitrophenol	ND		9.97	1.17	ug/L		08/29/25 07:00	08/29/25 18:53	1
3 & 4 Methylphenol	ND		19.9	4.58	ug/L		08/29/25 07:00	08/29/25 18:53	1
3,3'-Dichlorobenzidine	ND		11.0	0.409	ug/L		08/29/25 07:00	08/29/25 18:53	1
3-Nitroaniline	ND		9.97	0.947	ug/L		08/29/25 07:00	08/29/25 18:53	1
4,6-Dinitro-2-methylphenol	ND		9.97	1.96	ug/L		08/29/25 07:00	08/29/25 18:53	1
4-Bromophenyl phenyl ether	ND		9.97	0.130	ug/L		08/29/25 07:00	08/29/25 18:53	1
4-Chloro-3-methylphenol	ND		9.97	0.728	ug/L		08/29/25 07:00	08/29/25 18:53	1

Client Sample ID: Duplicate-2
Date Collected: 08/26/25 00:00
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-5
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		9.97	0.578	ug/L		08/29/25 07:00	08/29/25 18:53	1
4-Chlorophenyl phenyl ether	ND		9.97	0.239	ug/L		08/29/25 07:00	08/29/25 18:53	1
4-Nitroaniline	ND		9.97	3.49	ug/L		08/29/25 07:00	08/29/25 18:53	1
4-Nitrophenol	ND		9.97	2.73	ug/L		08/29/25 07:00	08/29/25 18:53	1
Acenaphthene	ND		9.97	0.628	ug/L		08/29/25 07:00	08/29/25 18:53	1
Acenaphthylene	ND		9.97	0.757	ug/L		08/29/25 07:00	08/29/25 18:53	1
Acetophenone	ND		9.97	3.19	ug/L		08/29/25 07:00	08/29/25 18:53	1
Anthracene	ND		9.97	0.907	ug/L		08/29/25 07:00	08/29/25 18:53	1
Atrazine	ND		9.97	1.13	ug/L		08/29/25 07:00	08/29/25 18:53	1
Benzaldehyde	ND		9.97	0.668	ug/L		08/29/25 07:00	08/29/25 18:53	1
Benzo[a]anthracene	ND		9.97	0.997	ug/L		08/29/25 07:00	08/29/25 18:53	1
Benzo[a]pyrene	ND		9.97	1.10	ug/L		08/29/25 07:00	08/29/25 18:53	1
Benzo[b]fluoranthene	ND		9.97	1.20	ug/L		08/29/25 07:00	08/29/25 18:53	1
Benzo[g,h,i]perylene	ND		9.97	1.50	ug/L		08/29/25 07:00	08/29/25 18:53	1
Benzo[k]fluoranthene	ND		9.97	1.50	ug/L		08/29/25 07:00	08/29/25 18:53	1
bis (2-chloroisopropyl) ether	ND		9.97	0.927	ug/L		08/29/25 07:00	08/29/25 18:53	1
Bis(2-chloroethoxy)methane	ND		9.97	0.339	ug/L		08/29/25 07:00	08/29/25 18:53	1
Bis(2-chloroethyl)ether	ND		9.97	0.728	ug/L		08/29/25 07:00	08/29/25 18:53	1
Bis(2-ethylhexyl) phthalate	ND		9.97	3.99	ug/L		08/29/25 07:00	08/29/25 18:53	1
Butyl benzyl phthalate	ND		9.97	3.99	ug/L		08/29/25 07:00	08/29/25 18:53	1
Caprolactam	**8.12**	**J *+**	9.97	2.39	ug/L		08/29/25 07:00	08/29/25 18:53	1
Carbazole	ND		9.97	0.319	ug/L		08/29/25 07:00	08/29/25 18:53	1
Chrysene	ND		9.97	1.20	ug/L		08/29/25 07:00	08/29/25 18:53	1
Dibenz(a,h)anthracene	ND		9.97	1.30	ug/L		08/29/25 07:00	08/29/25 18:53	1
Dibenzofuran	ND		9.97	0.638	ug/L		08/29/25 07:00	08/29/25 18:53	1
Diethyl phthalate	ND		9.97	3.99	ug/L		08/29/25 07:00	08/29/25 18:53	1
Dimethyl phthalate	ND		9.97	3.99	ug/L		08/29/25 07:00	08/29/25 18:53	1
Di-n-butyl phthalate	ND		9.97	8.16	ug/L		08/29/25 07:00	08/29/25 18:53	1
Di-n-octyl phthalate	ND		9.97	3.99	ug/L		08/29/25 07:00	08/29/25 18:53	1
Fluoranthene	ND		9.97	0.628	ug/L		08/29/25 07:00	08/29/25 18:53	1
Fluorene	ND		9.97	0.668	ug/L		08/29/25 07:00	08/29/25 18:53	1
Hexachlorobenzene	ND		9.97	0.249	ug/L		08/29/25 07:00	08/29/25 18:53	1
Hexachlorobutadiene	ND		9.97	0.548	ug/L		08/29/25 07:00	08/29/25 18:53	1
Hexachlorocyclopentadiene	ND		19.9	0.319	ug/L		08/29/25 07:00	08/29/25 18:53	1
Hexachloroethane	ND		9.97	0.528	ug/L		08/29/25 07:00	08/29/25 18:53	1
Indeno[1,2,3-cd]pyrene	ND		9.97	1.10	ug/L		08/29/25 07:00	08/29/25 18:53	1
Isophorone	ND		9.97	0.797	ug/L		08/29/25 07:00	08/29/25 18:53	1
Naphthalene	ND		9.97	0.748	ug/L		08/29/25 07:00	08/29/25 18:53	1
Nitrobenzene	ND		9.97	0.598	ug/L		08/29/25 07:00	08/29/25 18:53	1
N-Nitrosodi-n-propylamine	ND		9.97	0.329	ug/L		08/29/25 07:00	08/29/25 18:53	1
N-Nitrosodiphenylamine	ND		9.97	0.189	ug/L		08/29/25 07:00	08/29/25 18:53	1
Pentachlorophenol	ND		9.97	2.79	ug/L		08/29/25 07:00	08/29/25 18:53	1
Phenanthrene	ND		9.97	0.738	ug/L		08/29/25 07:00	08/29/25 18:53	1
Phenol	ND		9.97	0.678	ug/L		08/29/25 07:00	08/29/25 18:53	1
Pyrene	ND		9.97	0.628	ug/L		08/29/25 07:00	08/29/25 18:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*61*		*10 - 150*	*08/29/25 07:00*	*08/29/25 18:53*	*1*
2-Fluorobiphenyl (Surr)	*71*		*25 - 139*	*08/29/25 07:00*	*08/29/25 18:53*	*1*
2-Fluorophenol (Surr)	*67*		*10 - 150*	*08/29/25 07:00*	*08/29/25 18:53*	*1*

Client Sample ID: Duplicate-2

Date Collected: 08/26/25 00:00
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-5
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*82*		*22 - 150*	*08/29/25 07:00*	*08/29/25 18:53*	*1*
Phenol-d5 (Surr)	*69*		*10 - 150*	*08/29/25 07:00*	*08/29/25 18:53*	*1*
Terphenyl-d14 (Surr)	*48*		*28 - 150*	*08/29/25 07:00*	*08/29/25 18:53*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	2.45	ug/L		09/02/25 12:35	09/04/25 01:43	1
Arsenic	ND		5.00	1.32	ug/L		09/02/25 12:35	09/04/25 01:43	1
Barium	**68.5**		10.0	0.410	ug/L		09/02/25 12:35	09/04/25 01:43	1
Beryllium	ND		1.00	0.147	ug/L		09/02/25 12:35	09/04/25 01:43	1
Cadmium	ND		0.700	0.237	ug/L		09/02/25 12:35	09/04/25 01:43	1
Chromium	ND		5.00	3.69	ug/L		09/02/25 12:35	09/04/25 01:43	1
Cobalt	**1.27**	**J**	5.00	0.411	ug/L		09/02/25 12:35	09/04/25 01:43	1
Copper	ND		2.00	0.642	ug/L		09/02/25 12:35	09/04/25 01:43	1
Lead	ND		1.00	0.864	ug/L		09/02/25 12:35	09/04/25 01:43	1
Manganese	**425**		5.00	1.29	ug/L		09/02/25 12:35	09/16/25 18:08	1
Nickel	**0.471**	**J**	5.00	0.422	ug/L		09/02/25 12:35	09/04/25 01:43	1
Selenium	ND		5.00	2.29	ug/L		09/02/25 12:35	09/04/25 01:43	1
Silver	ND		1.00	0.167	ug/L		09/02/25 12:35	09/04/25 01:43	1
Thallium	ND		1.00	0.190	ug/L		09/02/25 12:35	09/04/25 01:43	1
Vanadium	ND		5.00	1.22	ug/L		09/02/25 12:35	09/04/25 01:43	1
Zinc	ND		10.0	8.91	ug/L		09/02/25 12:35	09/04/25 01:43	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.166	ug/L		09/09/25 14:35	09/09/25 21:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.0500	0.0200	mg/L			09/03/25 10:44	1
Nitrate as N (SM Nitrate by calc)	ND		0.100	0.0250	mg/L			09/02/25 11:27	1
Sulfate (SM 4500 SO4 E)	**58.4**		10.0	2.80	mg/L			09/08/25 11:19	2

Client Sample ID: Trip Blank

Date Collected: 08/26/25 10:25
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	10.0	ug/L			09/03/25 18:33	1
Benzene	ND		1.00	0.500	ug/L			09/03/25 18:33	1
Bromobenzene	ND		1.00	0.540	ug/L			09/03/25 18:33	1
Bromoform	ND		5.00	0.250	ug/L			09/03/25 18:33	1
Bromomethane	ND	*+	1.00	0.980	ug/L			09/03/25 18:33	1
2-Butanone (MEK)	ND		25.0	2.60	ug/L			09/03/25 18:33	1
Carbon disulfide	ND		1.00	0.500	ug/L			09/03/25 18:33	1
Carbon tetrachloride	ND		1.00	0.190	ug/L			09/03/25 18:33	1
Chlorobenzene	ND		1.00	0.420	ug/L			09/03/25 18:33	1
Chlorobromomethane	ND		1.00	0.520	ug/L			09/03/25 18:33	1
Chlorodibromomethane	ND		1.00	0.240	ug/L			09/03/25 18:33	1

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36231-1

Client Sample ID: Trip Blank

Date Collected: 08/26/25 10:25
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.00	0.760	ug/L			09/03/25 18:33	1
Chloroform	ND		1.00	0.900	ug/L			09/03/25 18:33	1
Chloromethane	ND		1.00	0.400	ug/L			09/03/25 18:33	1
2-Chlorotoluene	ND		1.00	0.570	ug/L			09/03/25 18:33	1
4-Chlorotoluene	ND		1.00	0.560	ug/L			09/03/25 18:33	1
cis-1,2-Dichloroethene	ND		1.00	0.200	ug/L			09/03/25 18:33	1
cis-1,3-Dichloropropene	ND		5.00	0.500	ug/L			09/03/25 18:33	1
1,2-Dibromo-3-Chloropropane	ND		5.00	1.50	ug/L			09/03/25 18:33	1
Dibromomethane	ND		5.00	0.220	ug/L			09/03/25 18:33	1
1,2-Dichlorobenzene	ND		1.00	0.500	ug/L			09/03/25 18:33	1
1,3-Dichlorobenzene	ND		1.00	0.540	ug/L			09/03/25 18:33	1
1,4-Dichlorobenzene	ND		1.00	0.640	ug/L			09/03/25 18:33	1
Dichlorobromomethane	ND		1.00	0.500	ug/L			09/03/25 18:33	1
1,1-Dichloroethane	ND		1.00	0.500	ug/L			09/03/25 18:33	1
1,2-Dichloroethane	ND		1.00	0.550	ug/L			09/03/25 18:33	1
1,1-Dichloroethene	ND		1.00	0.500	ug/L			09/03/25 18:33	1
1,2-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 18:33	1
1,3-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 18:33	1
2,2-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 18:33	1
1,1-Dichloropropene	ND		1.00	0.0900	ug/L			09/03/25 18:33	1
Ethyl acetate	ND		10.0	6.14	ug/L			09/03/25 18:33	1
Ethylbenzene	ND		1.00	0.500	ug/L			09/03/25 18:33	1
Ethylene Dibromide	ND		1.00	0.230	ug/L			09/03/25 18:33	1
Hexachlorobutadiene	ND		5.00	0.900	ug/L			09/03/25 18:33	1
Hexane	ND		1.00	0.960	ug/L			09/03/25 18:33	1
2-Hexanone	ND		25.0	4.26	ug/L			09/03/25 18:33	1
Iodomethane	ND		1.00	0.900	ug/L			09/03/25 18:33	1
Isopropylbenzene	ND		1.00	0.530	ug/L			09/03/25 18:33	1
Isopropyl ether	ND		1.00	0.740	ug/L			09/03/25 18:33	1
4-Isopropyltoluene	ND		1.00	0.710	ug/L			09/03/25 18:33	1
Methylene Chloride	ND		5.00	3.00	ug/L			09/03/25 18:33	1
4-Methyl-2-pentanone (MIBK)	ND		25.0	1.80	ug/L			09/03/25 18:33	1
Methyl tert-butyl ether	ND		1.00	0.220	ug/L			09/03/25 18:33	1
m-Xylene & p-Xylene	ND		5.00	3.00	ug/L			09/03/25 18:33	1
Naphthalene	ND		5.00	3.00	ug/L			09/03/25 18:33	1
n-Butylbenzene	ND	*+	1.00	0.760	ug/L			09/03/25 18:33	1
n-Heptane	ND		1.00	0.210	ug/L			09/03/25 18:33	1
N-Propylbenzene	ND		1.00	0.690	ug/L			09/03/25 18:33	1
o-Xylene	ND		5.00	3.00	ug/L			09/03/25 18:33	1
sec-Butylbenzene	ND		1.00	0.700	ug/L			09/03/25 18:33	1
Styrene	ND		1.00	1.00	ug/L			09/03/25 18:33	1
tert-Butylbenzene	ND		1.00	0.630	ug/L			09/03/25 18:33	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.380	ug/L			09/03/25 18:33	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.500	ug/L			09/03/25 18:33	1
Tetrachloroethene	ND		1.00	0.330	ug/L			09/03/25 18:33	1
Toluene	ND		1.00	0.900	ug/L			09/03/25 18:33	1
trans-1,4-Dichloro-2-butene	ND		5.00	1.00	ug/L			09/03/25 18:33	1
trans-1,2-Dichloroethene	ND		1.00	0.500	ug/L			09/03/25 18:33	1
trans-1,3-Dichloropropene	ND		5.00	0.200	ug/L			09/03/25 18:33	1

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36231-1

Client Sample ID: Trip Blank
Date Collected: 08/26/25 10:25
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.00	0.900	ug/L			09/03/25 18:33	1
1,2,4-Trichlorobenzene	ND		1.00	0.820	ug/L			09/03/25 18:33	1
1,1,1-Trichloroethane	ND		1.00	0.180	ug/L			09/03/25 18:33	1
1,1,2-Trichloroethane	ND		5.00	0.210	ug/L			09/03/25 18:33	1
Trichloroethene	ND		1.00	0.150	ug/L			09/03/25 18:33	1
Trichlorofluoromethane	ND		1.00	0.250	ug/L			09/03/25 18:33	1
1,2,3-Trichloropropane	ND		5.00	0.840	ug/L			09/03/25 18:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.500	ug/L			09/03/25 18:33	1
1,2,4-Trimethylbenzene	ND		1.00	0.820	ug/L			09/03/25 18:33	1
1,3,5-Trimethylbenzene	ND		1.00	0.560	ug/L			09/03/25 18:33	1
Vinyl acetate	ND		25.0	0.930	ug/L			09/03/25 18:33	1
Vinyl chloride	ND		1.00	0.500	ug/L			09/03/25 18:33	1
Xylenes, Total	ND		10.0	6.00	ug/L			09/03/25 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*56 - 136*		*09/03/25 18:33*	*1*
Dibromofluoromethane	*106*		*79 - 130*		*09/03/25 18:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*59 - 146*		*09/03/25 18:33*	*1*
Toluene-d8 (Surr)	*99*		*64 - 132*		*09/03/25 18:33*	*1*

Surrogate Summary

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36231-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(56-136)	(79-130)	(59-146)	(64-132)
752-36231-1	MW-6	98	105	99	101
752-36231-1 MS	MW-6	95	107	100	99
752-36231-1 MSD	MW-6	96	109	102	100
752-36231-2	MW-7	98	105	98	101
752-36231-3	MW-8	95	108	97	99
752-36231-4	MW-9	97	108	96	99
752-36231-5	Duplicate-2	96	105	95	102
752-36231-6	Trip Blank	97	106	98	99
LCS 400-721749/1002	Lab Control Sample	96	111	105	98
MB 400-721749/5	Method Blank	98	107	98	101

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(10-150)	(25-139)	(10-150)	(22-150)	(10-150)	(28-150)
752-36231-1	MW-6	88	74	72	88	78	52
752-36231-2	MW-7	78	73	71	89	75	48
752-36231-3	MW-8	85	75	82	91	89	59
752-36231-4	MW-9	60	66	66	79	69	51
752-36231-5	Duplicate-2	61	71	67	82	69	48
LCS 400-721396/2-A	Lab Control Sample	78	67	91	82	100	68
LCSD 400-721396/3-A	Lab Control Sample Dup	86	72	95	84	105	74
MB 400-721396/1-A	Method Blank	84	78	97	90	100	84

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Isotope Dilution Summary

Client: S&ME Inc
Job ID: 752-36231-1
Project/Site: Northgate Park

Method: 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DXE (10-140)						
752-36231-1	MW-6	27						
752-36231-2	MW-7	26						
752-36231-3	MW-8	24						
752-36231-4	MW-9	28						
752-36231-5	Duplicate-2	27						
LCS 400-721223/2-A	Lab Control Sample	105						
LCSD 400-721223/3-A	Lab Control Sample Dup	103						
MB 400-721223/1-A	Method Blank	128						

Surrogate Legend

DXE = 1,4-Dioxane-d8

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

Lab Sample ID: MB 400-721749/5
Matrix: Water
Analysis Batch: 721749

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	10.0	ug/L			09/03/25 13:10	1
Benzene	ND		1.00	0.500	ug/L			09/03/25 13:10	1
Bromobenzene	ND		1.00	0.540	ug/L			09/03/25 13:10	1
Bromoform	ND		5.00	0.250	ug/L			09/03/25 13:10	1
Bromomethane	ND		1.00	0.980	ug/L			09/03/25 13:10	1
2-Butanone (MEK)	ND		25.0	2.60	ug/L			09/03/25 13:10	1
Carbon disulfide	ND		1.00	0.500	ug/L			09/03/25 13:10	1
Carbon tetrachloride	ND		1.00	0.190	ug/L			09/03/25 13:10	1
Chlorobenzene	ND		1.00	0.420	ug/L			09/03/25 13:10	1
Chlorobromomethane	ND		1.00	0.520	ug/L			09/03/25 13:10	1
Chlorodibromomethane	ND		1.00	0.240	ug/L			09/03/25 13:10	1
Chloroethane	ND		1.00	0.760	ug/L			09/03/25 13:10	1
Chloroform	ND		1.00	0.900	ug/L			09/03/25 13:10	1
Chloromethane	ND		1.00	0.400	ug/L			09/03/25 13:10	1
2-Chlorotoluene	ND		1.00	0.570	ug/L			09/03/25 13:10	1
4-Chlorotoluene	ND		1.00	0.560	ug/L			09/03/25 13:10	1
cis-1,2-Dichloroethene	ND		1.00	0.200	ug/L			09/03/25 13:10	1
cis-1,3-Dichloropropene	ND		5.00	0.500	ug/L			09/03/25 13:10	1
1,2-Dibromo-3-Chloropropane	ND		5.00	1.50	ug/L			09/03/25 13:10	1
Dibromomethane	ND		5.00	0.220	ug/L			09/03/25 13:10	1
1,2-Dichlorobenzene	ND		1.00	0.500	ug/L			09/03/25 13:10	1
1,3-Dichlorobenzene	ND		1.00	0.540	ug/L			09/03/25 13:10	1
1,4-Dichlorobenzene	ND		1.00	0.640	ug/L			09/03/25 13:10	1
Dichlorobromomethane	ND		1.00	0.500	ug/L			09/03/25 13:10	1
1,1-Dichloroethane	ND		1.00	0.500	ug/L			09/03/25 13:10	1
1,2-Dichloroethane	ND		1.00	0.550	ug/L			09/03/25 13:10	1
1,1-Dichloroethene	ND		1.00	0.500	ug/L			09/03/25 13:10	1
1,2-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 13:10	1
1,3-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 13:10	1
2,2-Dichloropropane	ND		1.00	0.500	ug/L			09/03/25 13:10	1
1,1-Dichloropropene	ND		1.00	0.0900	ug/L			09/03/25 13:10	1
Ethyl acetate	ND		10.0	6.14	ug/L			09/03/25 13:10	1
Ethylbenzene	ND		1.00	0.500	ug/L			09/03/25 13:10	1
Ethylene Dibromide	ND		1.00	0.230	ug/L			09/03/25 13:10	1
Hexachlorobutadiene	ND		5.00	0.900	ug/L			09/03/25 13:10	1
Hexane	ND		1.00	0.960	ug/L			09/03/25 13:10	1
2-Hexanone	ND		25.0	4.26	ug/L			09/03/25 13:10	1
Iodomethane	ND		1.00	0.900	ug/L			09/03/25 13:10	1
Isopropylbenzene	ND		1.00	0.530	ug/L			09/03/25 13:10	1
Isopropyl ether	ND		1.00	0.740	ug/L			09/03/25 13:10	1
4-Isopropyltoluene	ND		1.00	0.710	ug/L			09/03/25 13:10	1
Methylene Chloride	ND		5.00	3.00	ug/L			09/03/25 13:10	1
4-Methyl-2-pentanone (MIBK)	ND		25.0	1.80	ug/L			09/03/25 13:10	1
Methyl tert-butyl ether	ND		1.00	0.220	ug/L			09/03/25 13:10	1
m-Xylene & p-Xylene	ND		5.00	3.00	ug/L			09/03/25 13:10	1
Naphthalene	ND		5.00	3.00	ug/L			09/03/25 13:10	1
n-Butylbenzene	ND		1.00	0.760	ug/L			09/03/25 13:10	1
n-Heptane	ND		1.00	0.210	ug/L			09/03/25 13:10	1

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

Lab Sample ID: MB 400-721749/5
Matrix: Water
Analysis Batch: 721749

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.690	ug/L			09/03/25 13:10	1
o-Xylene	ND		5.00	3.00	ug/L			09/03/25 13:10	1
sec-Butylbenzene	ND		1.00	0.700	ug/L			09/03/25 13:10	1
Styrene	ND		1.00	1.00	ug/L			09/03/25 13:10	1
tert-Butylbenzene	ND		1.00	0.630	ug/L			09/03/25 13:10	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.380	ug/L			09/03/25 13:10	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.500	ug/L			09/03/25 13:10	1
Tetrachloroethene	ND		1.00	0.330	ug/L			09/03/25 13:10	1
Toluene	ND		1.00	0.900	ug/L			09/03/25 13:10	1
trans-1,4-Dichloro-2-butene	ND		5.00	1.00	ug/L			09/03/25 13:10	1
trans-1,2-Dichloroethene	ND		1.00	0.500	ug/L			09/03/25 13:10	1
trans-1,3-Dichloropropene	ND		5.00	0.200	ug/L			09/03/25 13:10	1
1,2,3-Trichlorobenzene	ND		1.00	0.900	ug/L			09/03/25 13:10	1
1,2,4-Trichlorobenzene	ND		1.00	0.820	ug/L			09/03/25 13:10	1
1,1,1-Trichloroethane	ND		1.00	0.180	ug/L			09/03/25 13:10	1
1,1,2-Trichloroethane	ND		5.00	0.210	ug/L			09/03/25 13:10	1
Trichloroethene	ND		1.00	0.150	ug/L			09/03/25 13:10	1
Trichlorofluoromethane	ND		1.00	0.250	ug/L			09/03/25 13:10	1
1,2,3-Trichloropropane	ND		5.00	0.840	ug/L			09/03/25 13:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.500	ug/L			09/03/25 13:10	1
1,2,4-Trimethylbenzene	ND		1.00	0.820	ug/L			09/03/25 13:10	1
1,3,5-Trimethylbenzene	ND		1.00	0.560	ug/L			09/03/25 13:10	1
Vinyl acetate	ND		25.0	0.930	ug/L			09/03/25 13:10	1
Vinyl chloride	ND		1.00	0.500	ug/L			09/03/25 13:10	1
Xylenes, Total	ND		10.0	6.00	ug/L			09/03/25 13:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*56 - 136*		*09/03/25 13:10*	*1*
Dibromofluoromethane	*107*		*79 - 130*		*09/03/25 13:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*59 - 146*		*09/03/25 13:10*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*09/03/25 13:10*	*1*

Lab Sample ID: LCS 400-721749/1002
Matrix: Water
Analysis Batch: 721749

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	200	300.7		ug/L		150	43 - 150
Benzene	50.0	51.93		ug/L		104	70 - 130
Bromobenzene	50.0	52.78		ug/L		106	70 - 132
Bromoform	50.0	49.35		ug/L		99	57 - 140
Bromomethane	50.0	102.6	*+	ug/L		205	10 - 150
2-Butanone (MEK)	200	223.7		ug/L		112	61 - 145
Carbon disulfide	50.0	54.96		ug/L		110	61 - 137
Carbon tetrachloride	50.0	53.92		ug/L		108	61 - 137
Chlorobenzene	50.0	53.28		ug/L		107	70 - 130
Chlorobromomethane	50.0	55.36		ug/L		111	70 - 130
Chlorodibromomethane	50.0	53.30		ug/L		107	67 - 135

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

Lab Sample ID: LCS 400-721749/1002
Matrix: Water
Analysis Batch: 721749

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	50.0	51.51		ug/L		103	55 - 141
Chloroform	50.0	54.58		ug/L		109	69 - 130
Chloromethane	50.0	43.44		ug/L		87	58 - 137
2-Chlorotoluene	50.0	57.57		ug/L		115	70 - 130
4-Chlorotoluene	50.0	56.85		ug/L		114	70 - 130
cis-1,2-Dichloroethene	50.0	49.06		ug/L		98	68 - 130
cis-1,3-Dichloropropene	50.0	52.03		ug/L		104	69 - 132
1,2-Dibromo-3-Chloropropane	50.0	49.08		ug/L		98	54 - 135
Dibromomethane	50.0	56.14		ug/L		112	70 - 130
1,2-Dichlorobenzene	50.0	57.52		ug/L		115	67 - 130
1,3-Dichlorobenzene	50.0	56.24		ug/L		112	70 - 130
1,4-Dichlorobenzene	50.0	56.08		ug/L		112	70 - 130
Dichlorobromomethane	50.0	53.51		ug/L		107	67 - 133
1,1-Dichloroethane	50.0	46.97		ug/L		94	70 - 130
1,2-Dichloroethane	50.0	53.53		ug/L		107	69 - 130
1,1-Dichloroethene	50.0	53.96		ug/L		108	63 - 134
1,2-Dichloropropane	50.0	48.86		ug/L		98	70 - 130
1,3-Dichloropropane	50.0	50.58		ug/L		101	70 - 130
2,2-Dichloropropane	50.0	50.38		ug/L		101	52 - 135
1,1-Dichloropropene	50.0	53.00		ug/L		106	70 - 130
Ethyl acetate	100	101.9		ug/L		102	34 - 150
Ethylbenzene	50.0	55.15		ug/L		110	70 - 130
Ethylene Dibromide	50.0	52.12		ug/L		104	70 - 130
Hexachlorobutadiene	50.0	61.40		ug/L		123	53 - 140
Hexane	50.0	43.22		ug/L		86	69 - 130
2-Hexanone	200	182.6		ug/L		91	65 - 137
Iodomethane	50.0	23.04		ug/L		46	27 - 150
Isopropylbenzene	50.0	55.60		ug/L		111	70 - 130
Isopropyl ether	50.0	42.83		ug/L		86	64 - 132
4-Isopropyltoluene	50.0	60.16		ug/L		120	65 - 130
Methylene Chloride	50.0	52.73		ug/L		105	66 - 135
4-Methyl-2-pentanone (MIBK)	200	191.0		ug/L		95	69 - 138
Methyl tert-butyl ether	50.0	51.37		ug/L		103	66 - 130
m-Xylene & p-Xylene	50.0	53.92		ug/L		108	70 - 130
Naphthalene	50.0	48.41		ug/L		97	47 - 149
n-Butylbenzene	50.0	66.29	*+	ug/L		133	67 - 130
n-Heptane	50.0	43.15		ug/L		86	70 - 130
N-Propylbenzene	50.0	55.87		ug/L		112	70 - 130
o-Xylene	50.0	54.35		ug/L		109	70 - 130
sec-Butylbenzene	50.0	59.83		ug/L		120	66 - 130
Styrene	50.0	53.27		ug/L		107	70 - 130
tert-Butylbenzene	50.0	58.86		ug/L		118	64 - 139
1,1,1,2-Tetrachloroethane	50.0	52.06		ug/L		104	67 - 131
1,1,2,2-Tetrachloroethane	50.0	51.56		ug/L		103	70 - 131
Tetrachloroethene	50.0	48.30		ug/L		97	65 - 130
Toluene	50.0	51.66		ug/L		103	70 - 130
trans-1,4-Dichloro-2-butene	50.0	47.18		ug/L		94	57 - 140
trans-1,2-Dichloroethene	50.0	51.54		ug/L		103	70 - 130
trans-1,3-Dichloropropene	50.0	50.98		ug/L		102	63 - 130

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

Lab Sample ID: LCS 400-721749/1002
Matrix: Water
Analysis Batch: 721749

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichlorobenzene	50.0	52.95		ug/L		106	60 - 138
1,2,4-Trichlorobenzene	50.0	55.62		ug/L		111	60 - 140
1,1,1-Trichloroethane	50.0	52.57		ug/L		105	68 - 130
1,1,2-Trichloroethane	50.0	51.40		ug/L		103	70 - 130
Trichloroethene	50.0	51.70		ug/L		103	70 - 130
Trichlorofluoromethane	50.0	56.59		ug/L		113	65 - 138
1,2,3-Trichloropropane	50.0	50.38		ug/L		101	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	55.10		ug/L		110	60 - 139
1,2,4-Trimethylbenzene	50.0	56.83		ug/L		114	70 - 130
1,3,5-Trimethylbenzene	50.0	57.13		ug/L		114	69 - 130
Vinyl acetate	100	102.4		ug/L		102	26 - 150
Vinyl chloride	50.0	41.68		ug/L		83	59 - 136
Xylenes, Total	100	108.3		ug/L		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*56 - 136*
Dibromofluoromethane	*111*		*79 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*59 - 146*
Toluene-d8 (Surr)	*98*		*64 - 132*

Lab Sample ID: 752-36231-1 MS
Matrix: Water
Analysis Batch: 721749

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	ND		200	123.8		ug/L		62	43 - 150
Benzene	ND		50.0	47.54		ug/L		95	56 - 142
Bromobenzene	ND		50.0	46.23		ug/L		92	59 - 136
Bromoform	ND		50.0	45.71		ug/L		91	50 - 140
Bromomethane	ND	F1 *+	50.0	94.02	F1	ug/L		188	10 - 150
2-Butanone (MEK)	ND		200	131.8		ug/L		66	55 - 150
Carbon disulfide	ND		50.0	48.22		ug/L		96	48 - 150
Carbon tetrachloride	ND		50.0	47.66		ug/L		95	55 - 145
Chlorobenzene	ND		50.0	47.51		ug/L		95	64 - 130
Chlorobromomethane	ND		50.0	51.97		ug/L		104	64 - 140
Chlorodibromomethane	ND		50.0	49.10		ug/L		98	56 - 143
Chloroethane	ND		50.0	42.95		ug/L		86	50 - 150
Chloroform	ND		50.0	49.63		ug/L		99	60 - 141
Chloromethane	1.23		50.0	32.38		ug/L		62	49 - 148
2-Chlorotoluene	ND	F2	50.0	49.23		ug/L		98	53 - 134
4-Chlorotoluene	ND	F2	50.0	46.85		ug/L		94	54 - 133
cis-1,2-Dichloroethene	ND		50.0	43.79		ug/L		88	59 - 143
cis-1,3-Dichloropropene	ND		50.0	47.08		ug/L		94	57 - 140
1,2-Dibromo-3-Chloropropane	ND		50.0	46.63		ug/L		93	45 - 135
Dibromomethane	ND		50.0	51.33		ug/L		103	63 - 138
1,2-Dichlorobenzene	ND		50.0	49.78		ug/L		100	52 - 137
1,3-Dichlorobenzene	ND		50.0	46.68		ug/L		93	54 - 135
1,4-Dichlorobenzene	ND	F2	50.0	47.26		ug/L		95	53 - 135

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

Lab Sample ID: 752-36231-1 MS
Matrix: Water
Analysis Batch: 721749

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Dichlorobromomethane	ND		50.0	49.32		ug/L		99	59 - 143
1,1-Dichloroethane	ND		50.0	43.14		ug/L		86	61 - 144
1,2-Dichloroethane	ND		50.0	46.69		ug/L		93	60 - 141
1,1-Dichloroethene	ND		50.0	51.09		ug/L		102	54 - 147
1,2-Dichloropropane	ND		50.0	44.73		ug/L		89	66 - 137
1,3-Dichloropropane	ND		50.0	48.64		ug/L		97	66 - 133
2,2-Dichloropropane	ND		50.0	45.32		ug/L		91	42 - 144
1,1-Dichloropropene	ND		50.0	47.67		ug/L		95	65 - 136
Ethyl acetate	ND		100	94.93		ug/L		95	34 - 150
Ethylbenzene	ND		50.0	47.98		ug/L		96	58 - 131
Ethylene Dibromide	ND		50.0	49.19		ug/L		98	64 - 132
Hexachlorobutadiene	ND	F2	50.0	42.99		ug/L		86	31 - 149
Hexane	ND		50.0	38.15		ug/L		76	60 - 142
2-Hexanone	ND	F1	200	110.6	F1	ug/L		55	65 - 140
Iodomethane	ND		50.0	17.71		ug/L		35	20 - 150
Isopropylbenzene	ND	F2	50.0	47.84		ug/L		96	56 - 133
Isopropyl ether	ND		50.0	45.13		ug/L		90	60 - 144
4-Isopropyltoluene	ND	F2	50.0	46.62		ug/L		93	48 - 139
Methylene Chloride	ND		50.0	48.19		ug/L		96	60 - 146
4-Methyl-2-pentanone (MIBK)	ND		200	159.3		ug/L		80	63 - 146
Methyl tert-butyl ether	ND		50.0	47.21		ug/L		94	59 - 137
m-Xylene & p-Xylene	ND	F2	50.0	47.08		ug/L		94	57 - 130
Naphthalene	ND		50.0	43.96		ug/L		88	25 - 150
n-Butylbenzene	ND	F2 *+	50.0	51.70		ug/L		103	41 - 142
n-Heptane	ND	F1	50.0	36.61		ug/L		73	64 - 142
N-Propylbenzene	ND	F2	50.0	45.77		ug/L		92	51 - 138
o-Xylene	ND		50.0	47.54		ug/L		95	61 - 130
sec-Butylbenzene	ND	F2	50.0	46.92		ug/L		94	50 - 138
Styrene	ND		50.0	46.85		ug/L		94	58 - 131
tert-Butylbenzene	ND	F2	50.0	47.88		ug/L		96	54 - 146
1,1,1,2-Tetrachloroethane	ND		50.0	47.84		ug/L		96	59 - 137
1,1,2,2-Tetrachloroethane	ND		50.0	49.24		ug/L		98	66 - 135
Tetrachloroethene	ND		50.0	42.75		ug/L		85	52 - 133
Toluene	ND		50.0	46.66		ug/L		93	65 - 130
trans-1,4-Dichloro-2-butene	ND		50.0	41.39		ug/L		83	43 - 147
trans-1,2-Dichloroethene	ND		50.0	46.03		ug/L		92	61 - 143
trans-1,3-Dichloropropene	ND		50.0	47.77		ug/L		96	53 - 133
1,2,3-Trichlorobenzene	ND		50.0	44.23		ug/L		88	43 - 145
1,2,4-Trichlorobenzene	ND		50.0	45.33		ug/L		91	39 - 148
1,1,1-Trichloroethane	ND		50.0	47.49		ug/L		95	57 - 142
1,1,2-Trichloroethane	ND		50.0	48.90		ug/L		98	66 - 131
Trichloroethene	ND		50.0	46.89		ug/L		94	64 - 136
Trichlorofluoromethane	ND	F2	50.0	45.87		ug/L		92	54 - 150
1,2,3-Trichloropropane	ND		50.0	48.71		ug/L		97	65 - 133
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	52.48		ug/L		105	55 - 150
1,2,4-Trimethylbenzene	ND	F2	50.0	46.81		ug/L		94	50 - 139
1,3,5-Trimethylbenzene	ND	F2	50.0	46.76		ug/L		94	52 - 135
Vinyl acetate	ND		100	84.46		ug/L		84	26 - 150

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

Lab Sample ID: 752-36231-1 MS
Matrix: Water
Analysis Batch: 721749

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	ND		50.0	32.16		ug/L		64	46 - 150
Xylenes, Total	ND		100	94.62		ug/L		95	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*56 - 136*
Dibromofluoromethane	*107*		*79 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*59 - 146*
Toluene-d8 (Surr)	*99*		*64 - 132*

Lab Sample ID: 752-36231-1 MSD
Matrix: Water
Analysis Batch: 721749

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	ND		200	118.2		ug/L		59	43 - 150	5	30
Benzene	ND		50.0	40.80		ug/L		82	56 - 142	15	30
Bromobenzene	ND		50.0	36.58		ug/L		73	59 - 136	23	30
Bromoform	ND		50.0	39.79		ug/L		80	50 - 140	14	30
Bromomethane	ND	F1 *+	50.0	72.76		ug/L		146	10 - 150	25	50
2-Butanone (MEK)	ND		200	119.9		ug/L		60	55 - 150	9	30
Carbon disulfide	ND		50.0	41.51		ug/L		83	48 - 150	15	30
Carbon tetrachloride	ND		50.0	40.29		ug/L		81	55 - 145	17	30
Chlorobenzene	ND		50.0	36.83		ug/L		74	64 - 130	25	30
Chlorobromomethane	ND		50.0	46.00		ug/L		92	64 - 140	12	30
Chlorodibromomethane	ND		50.0	42.64		ug/L		85	56 - 143	14	30
Chloroethane	ND		50.0	33.62		ug/L		67	50 - 150	24	30
Chloroform	ND		50.0	43.84		ug/L		88	60 - 141	12	30
Chloromethane	1.23		50.0	29.59		ug/L		57	49 - 148	9	31
2-Chlorotoluene	ND	F2	50.0	33.51	F2	ug/L		67	53 - 134	38	30
4-Chlorotoluene	ND	F2	50.0	33.93	F2	ug/L		68	54 - 133	32	30
cis-1,2-Dichloroethene	ND		50.0	38.63		ug/L		77	59 - 143	13	30
cis-1,3-Dichloropropene	ND		50.0	40.71		ug/L		81	57 - 140	15	30
1,2-Dibromo-3-Chloropropane	ND		50.0	40.28		ug/L		81	45 - 135	15	30
Dibromomethane	ND		50.0	46.60		ug/L		93	63 - 138	10	30
1,2-Dichlorobenzene	ND		50.0	37.84		ug/L		76	52 - 137	27	30
1,3-Dichlorobenzene	ND		50.0	34.52		ug/L		69	54 - 135	30	30
1,4-Dichlorobenzene	ND	F2	50.0	34.69	F2	ug/L		69	53 - 135	31	30
Dichlorobromomethane	ND		50.0	43.07		ug/L		86	59 - 143	14	30
1,1-Dichloroethane	ND		50.0	38.16		ug/L		76	61 - 144	12	30
1,2-Dichloroethane	ND		50.0	43.26		ug/L		87	60 - 141	8	30
1,1-Dichloroethene	ND		50.0	45.05		ug/L		90	54 - 147	13	30
1,2-Dichloropropane	ND		50.0	38.80		ug/L		78	66 - 137	14	30
1,3-Dichloropropane	ND		50.0	42.24		ug/L		84	66 - 133	14	30
2,2-Dichloropropane	ND		50.0	39.56		ug/L		79	42 - 144	14	31
1,1-Dichloropropene	ND		50.0	39.57		ug/L		79	65 - 136	19	30
Ethyl acetate	ND		100	88.32		ug/L		88	34 - 150	7	30
Ethylbenzene	ND		50.0	35.46		ug/L		71	58 - 131	30	30
Ethylene Dibromide	ND		50.0	42.69		ug/L		85	64 - 132	14	30

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

Lab Sample ID: 752-36231-1 MSD
Matrix: Water
Analysis Batch: 721749

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorobutadiene	ND	F2	50.0	23.24	F2	ug/L		46	31 - 149	60	36
Hexane	ND		50.0	32.75		ug/L		66	60 - 142	15	30
2-Hexanone	ND	F1	200	102.0	F1	ug/L		51	65 - 140	8	30
Iodomethane	ND		50.0	21.60		ug/L		43	20 - 150	20	44
Isopropylbenzene	ND	F2	50.0	32.87	F2	ug/L		66	56 - 133	37	30
Isopropyl ether	ND		50.0	33.61		ug/L		67	60 - 144	29	30
4-Isopropyltoluene	ND	F2	50.0	29.14	F2	ug/L		58	48 - 139	46	30
Methylene Chloride	ND		50.0	44.53		ug/L		89	60 - 146	8	32
4-Methyl-2-pentanone (MIBK)	ND		200	148.9		ug/L		74	63 - 146	7	30
Methyl tert-butyl ether	ND		50.0	44.12		ug/L		88	59 - 137	7	30
m-Xylene & p-Xylene	ND	F2	50.0	34.15	F2	ug/L		68	57 - 130	32	30
Naphthalene	ND		50.0	37.71		ug/L		75	25 - 150	15	30
n-Butylbenzene	ND	F2 *+	50.0	28.28	F2	ug/L		57	41 - 142	59	31
n-Heptane	ND	F1	50.0	29.17	F1	ug/L		58	64 - 142	23	30
N-Propylbenzene	ND	F2	50.0	30.18	F2	ug/L		60	51 - 138	41	30
o-Xylene	ND		50.0	36.18		ug/L		72	61 - 130	27	30
sec-Butylbenzene	ND	F2	50.0	29.43	F2	ug/L		59	50 - 138	46	30
Styrene	ND		50.0	35.84		ug/L		72	58 - 131	27	30
tert-Butylbenzene	ND	F2	50.0	31.99	F2	ug/L		64	54 - 146	40	30
1,1,1,2-Tetrachloroethane	ND		50.0	40.18		ug/L		80	59 - 137	17	30
1,1,2,2-Tetrachloroethane	ND		50.0	43.23		ug/L		86	66 - 135	13	30
Tetrachloroethene	ND		50.0	31.67		ug/L		63	52 - 133	30	30
Toluene	ND		50.0	36.97		ug/L		74	65 - 130	23	30
trans-1,4-Dichloro-2-butene	ND		50.0	39.26		ug/L		79	43 - 147	5	36
trans-1,2-Dichloroethene	ND		50.0	40.30		ug/L		81	61 - 143	13	30
trans-1,3-Dichloropropene	ND		50.0	40.70		ug/L		81	53 - 133	16	30
1,2,3-Trichlorobenzene	ND		50.0	35.07		ug/L		70	43 - 145	23	30
1,2,4-Trichlorobenzene	ND		50.0	34.70		ug/L		69	39 - 148	27	30
1,1,1-Trichloroethane	ND		50.0	41.22		ug/L		82	57 - 142	14	30
1,1,2-Trichloroethane	ND		50.0	43.12		ug/L		86	66 - 131	13	30
Trichloroethene	ND		50.0	38.08		ug/L		76	64 - 136	21	30
Trichlorofluoromethane	ND	F2	50.0	32.02	F2	ug/L		64	54 - 150	36	30
1,2,3-Trichloropropane	ND		50.0	42.37		ug/L		85	65 - 133	14	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50.0	46.30		ug/L		93	55 - 150	13	30
1,2,4-Trimethylbenzene	ND	F2	50.0	33.26	F2	ug/L		67	50 - 139	34	30
1,3,5-Trimethylbenzene	ND	F2	50.0	32.14	F2	ug/L		64	52 - 135	37	30
Vinyl acetate	ND		100	65.49		ug/L		65	26 - 150	25	33
Vinyl chloride	ND		50.0	26.79		ug/L		54	46 - 150	18	30
Xylenes, Total	ND		100	70.33		ug/L		70	59 - 130	29	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*56 - 136*
Dibromofluoromethane	*109*		*79 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*59 - 146*
Toluene-d8 (Surr)	*100*		*64 - 132*

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Lab Sample ID: MB 400-721396/1-A
Matrix: Water
Analysis Batch: 721385

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 721396

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		10.0	0.420	ug/L		08/29/25 07:00	08/29/25 16:00	1
2,4,5-Trichlorophenol	ND		10.0	0.540	ug/L		08/29/25 07:00	08/29/25 16:00	1
2,4,6-Trichlorophenol	ND		10.0	1.09	ug/L		08/29/25 07:00	08/29/25 16:00	1
2,4-Dichlorophenol	ND		10.0	0.570	ug/L		08/29/25 07:00	08/29/25 16:00	1
2,4-Dimethylphenol	ND		10.0	0.240	ug/L		08/29/25 07:00	08/29/25 16:00	1
2,4-Dinitrophenol	ND		30.0	4.68	ug/L		08/29/25 07:00	08/29/25 16:00	1
2,4-Dinitrotoluene	ND		10.0	0.650	ug/L		08/29/25 07:00	08/29/25 16:00	1
2,6-Dinitrotoluene	ND		10.0	0.290	ug/L		08/29/25 07:00	08/29/25 16:00	1
2-Chloronaphthalene	ND		10.0	0.380	ug/L		08/29/25 07:00	08/29/25 16:00	1
2-Chlorophenol	ND		10.0	0.840	ug/L		08/29/25 07:00	08/29/25 16:00	1
2-Methylnaphthalene	ND		10.0	0.810	ug/L		08/29/25 07:00	08/29/25 16:00	1
2-Methylphenol	ND		10.0	0.760	ug/L		08/29/25 07:00	08/29/25 16:00	1
2-Nitroaniline	ND		10.0	1.37	ug/L		08/29/25 07:00	08/29/25 16:00	1
2-Nitrophenol	ND		10.0	1.17	ug/L		08/29/25 07:00	08/29/25 16:00	1
3 & 4 Methylphenol	ND		20.0	4.60	ug/L		08/29/25 07:00	08/29/25 16:00	1
3,3'-Dichlorobenzidine	ND		11.0	0.410	ug/L		08/29/25 07:00	08/29/25 16:00	1
3-Nitroaniline	ND		10.0	0.950	ug/L		08/29/25 07:00	08/29/25 16:00	1
4,6-Dinitro-2-methylphenol	ND		10.0	1.97	ug/L		08/29/25 07:00	08/29/25 16:00	1
4-Bromophenyl phenyl ether	ND		10.0	0.130	ug/L		08/29/25 07:00	08/29/25 16:00	1
4-Chloro-3-methylphenol	ND		10.0	0.730	ug/L		08/29/25 07:00	08/29/25 16:00	1
4-Chloroaniline	ND		10.0	0.580	ug/L		08/29/25 07:00	08/29/25 16:00	1
4-Chlorophenyl phenyl ether	ND		10.0	0.240	ug/L		08/29/25 07:00	08/29/25 16:00	1
4-Nitroaniline	ND		10.0	3.50	ug/L		08/29/25 07:00	08/29/25 16:00	1
4-Nitrophenol	ND		10.0	2.74	ug/L		08/29/25 07:00	08/29/25 16:00	1
Acenaphthene	ND		10.0	0.630	ug/L		08/29/25 07:00	08/29/25 16:00	1
Acenaphthylene	ND		10.0	0.760	ug/L		08/29/25 07:00	08/29/25 16:00	1
Acetophenone	ND		10.0	3.20	ug/L		08/29/25 07:00	08/29/25 16:00	1
Anthracene	ND		10.0	0.910	ug/L		08/29/25 07:00	08/29/25 16:00	1
Atrazine	ND		10.0	1.13	ug/L		08/29/25 07:00	08/29/25 16:00	1
Benzaldehyde	ND		10.0	0.670	ug/L		08/29/25 07:00	08/29/25 16:00	1
Benzo[a]anthracene	ND		10.0	1.00	ug/L		08/29/25 07:00	08/29/25 16:00	1
Benzo[a]pyrene	ND		10.0	1.10	ug/L		08/29/25 07:00	08/29/25 16:00	1
Benzo[b]fluoranthene	ND		10.0	1.20	ug/L		08/29/25 07:00	08/29/25 16:00	1
Benzo[g,h,i]perylene	ND		10.0	1.50	ug/L		08/29/25 07:00	08/29/25 16:00	1
Benzo[k]fluoranthene	ND		10.0	1.50	ug/L		08/29/25 07:00	08/29/25 16:00	1
bis (2-chloroisopropyl) ether	ND		10.0	0.930	ug/L		08/29/25 07:00	08/29/25 16:00	1
Bis(2-chloroethoxy)methane	ND		10.0	0.340	ug/L		08/29/25 07:00	08/29/25 16:00	1
Bis(2-chloroethyl)ether	ND		10.0	0.730	ug/L		08/29/25 07:00	08/29/25 16:00	1
Bis(2-ethylhexyl) phthalate	ND		10.0	4.00	ug/L		08/29/25 07:00	08/29/25 16:00	1
Butyl benzyl phthalate	ND		10.0	4.00	ug/L		08/29/25 07:00	08/29/25 16:00	1
Caprolactam	ND		10.0	2.40	ug/L		08/29/25 07:00	08/29/25 16:00	1
Carbazole	ND		10.0	0.320	ug/L		08/29/25 07:00	08/29/25 16:00	1
Chrysene	ND		10.0	1.20	ug/L		08/29/25 07:00	08/29/25 16:00	1
Dibenz(a,h)anthracene	ND		10.0	1.30	ug/L		08/29/25 07:00	08/29/25 16:00	1
Dibenzofuran	ND		10.0	0.640	ug/L		08/29/25 07:00	08/29/25 16:00	1
Diethyl phthalate	ND		10.0	4.00	ug/L		08/29/25 07:00	08/29/25 16:00	1
Dimethyl phthalate	ND		10.0	4.00	ug/L		08/29/25 07:00	08/29/25 16:00	1
Di-n-butyl phthalate	ND		10.0	8.19	ug/L		08/29/25 07:00	08/29/25 16:00	1

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: MB 400-721396/1-A
Matrix: Water
Analysis Batch: 721385

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 721396

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	ND		10.0	4.00	ug/L		08/29/25 07:00	08/29/25 16:00	1
Fluoranthene	ND		10.0	0.630	ug/L		08/29/25 07:00	08/29/25 16:00	1
Fluorene	ND		10.0	0.670	ug/L		08/29/25 07:00	08/29/25 16:00	1
Hexachlorobenzene	ND		10.0	0.250	ug/L		08/29/25 07:00	08/29/25 16:00	1
Hexachlorobutadiene	ND		10.0	0.550	ug/L		08/29/25 07:00	08/29/25 16:00	1
Hexachlorocyclopentadiene	ND		20.0	0.320	ug/L		08/29/25 07:00	08/29/25 16:00	1
Hexachloroethane	ND		10.0	0.530	ug/L		08/29/25 07:00	08/29/25 16:00	1
Indeno[1,2,3-cd]pyrene	ND		10.0	1.10	ug/L		08/29/25 07:00	08/29/25 16:00	1
Isophorone	ND		10.0	0.800	ug/L		08/29/25 07:00	08/29/25 16:00	1
Naphthalene	ND		10.0	0.750	ug/L		08/29/25 07:00	08/29/25 16:00	1
Nitrobenzene	ND		10.0	0.600	ug/L		08/29/25 07:00	08/29/25 16:00	1
N-Nitrosodi-n-propylamine	ND		10.0	0.330	ug/L		08/29/25 07:00	08/29/25 16:00	1
N-Nitrosodiphenylamine	ND		10.0	0.190	ug/L		08/29/25 07:00	08/29/25 16:00	1
Pentachlorophenol	ND		10.0	2.80	ug/L		08/29/25 07:00	08/29/25 16:00	1
Phenanthrene	ND		10.0	0.740	ug/L		08/29/25 07:00	08/29/25 16:00	1
Phenol	ND		10.0	0.680	ug/L		08/29/25 07:00	08/29/25 16:00	1
Pyrene	ND		10.0	0.630	ug/L		08/29/25 07:00	08/29/25 16:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*10 - 150*	*08/29/25 07:00*	*08/29/25 16:00*	*1*
2-Fluorobiphenyl (Surr)	*78*		*25 - 139*	*08/29/25 07:00*	*08/29/25 16:00*	*1*
2-Fluorophenol (Surr)	*97*		*10 - 150*	*08/29/25 07:00*	*08/29/25 16:00*	*1*
Nitrobenzene-d5 (Surr)	*90*		*22 - 150*	*08/29/25 07:00*	*08/29/25 16:00*	*1*
Phenol-d5 (Surr)	*100*		*10 - 150*	*08/29/25 07:00*	*08/29/25 16:00*	*1*
Terphenyl-d14 (Surr)	*84*		*28 - 150*	*08/29/25 07:00*	*08/29/25 16:00*	*1*

Lab Sample ID: LCS 400-721396/2-A
Matrix: Water
Analysis Batch: 721385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 721396

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	33.3	22.38		ug/L		67	27 - 120
2,4,5-Trichlorophenol	33.3	34.00		ug/L		102	27 - 136
2,4,6-Trichlorophenol	33.3	32.27		ug/L		97	21 - 132
2,4-Dichlorophenol	33.3	33.13		ug/L		99	30 - 125
2,4-Dimethylphenol	33.3	29.30		ug/L		88	10 - 142
2,4-Dinitrophenol	66.7	ND	*-	ug/L		6	10 - 150
2,4-Dinitrotoluene	33.3	28.74		ug/L		86	30 - 129
2,6-Dinitrotoluene	33.3	30.05		ug/L		90	34 - 132
2-Chloronaphthalene	33.3	20.50		ug/L		61	10 - 150
2-Chlorophenol	33.3	28.56		ug/L		86	28 - 127
2-Methylnaphthalene	33.3	23.43		ug/L		70	24 - 150
2-Methylphenol	33.3	34.84		ug/L		105	11 - 121
2-Nitroaniline	33.3	32.14		ug/L		96	31 - 141
2-Nitrophenol	33.3	31.37		ug/L		94	31 - 142
3 & 4 Methylphenol	33.3	33.21		ug/L		100	10 - 150
3,3'-Dichlorobenzidine	66.7	35.59		ug/L		53	10 - 150
3-Nitroaniline	33.3	29.05		ug/L		87	33 - 136

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCS 400-721396/2-A
Matrix: Water
Analysis Batch: 721385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 721396

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,6-Dinitro-2-methylphenol	66.7	8.298	J	ug/L		12	10 - 150
4-Bromophenyl phenyl ether	33.3	25.69		ug/L		77	24 - 120
4-Chloro-3-methylphenol	33.3	36.23		ug/L		109	10 - 137
4-Chloroaniline	33.3	26.93		ug/L		81	10 - 150
4-Chlorophenyl phenyl ether	33.3	24.89		ug/L		75	31 - 110
4-Nitroaniline	33.3	26.94		ug/L		81	37 - 139
4-Nitrophenol	66.7	70.73		ug/L		106	10 - 150
Acenaphthene	33.3	25.52		ug/L		77	29 - 150
Acenaphthylene	33.3	27.81		ug/L		83	30 - 150
Acetophenone	33.3	29.06		ug/L		87	27 - 119
Anthracene	33.3	27.45		ug/L		82	31 - 150
Atrazine	33.3	24.45		ug/L		73	10 - 150
Benzaldehyde	33.3	21.84		ug/L		66	10 - 150
Benzo[a]anthracene	33.3	33.51		ug/L		101	36 - 150
Benzo[a]pyrene	33.3	28.20		ug/L		85	29 - 150
Benzo[b]fluoranthene	33.3	28.83		ug/L		86	32 - 150
Benzo[g,h,i]perylene	33.3	28.28		ug/L		85	28 - 150
Benzo[k]fluoranthene	33.3	28.66		ug/L		86	30 - 150
bis (2-chloroisopropyl) ether	33.3	25.35	I	ug/L		76	32 - 115
Bis(2-chloroethoxy)methane	33.3	30.76		ug/L		92	34 - 120
Bis(2-chloroethyl)ether	33.3	28.88		ug/L		87	32 - 114
Bis(2-ethylhexyl) phthalate	33.3	29.37		ug/L		88	24 - 133
Butyl benzyl phthalate	33.3	24.81		ug/L		74	24 - 140
Caprolactam	33.3	53.30	*+	ug/L		160	10 - 150
Carbazole	33.3	26.66		ug/L		80	28 - 123
Chrysene	33.3	33.39		ug/L		100	34 - 150
Dibenz(a,h)anthracene	33.3	28.27		ug/L		85	29 - 150
Dibenzofuran	33.3	25.98		ug/L		78	35 - 110
Diethyl phthalate	33.3	17.71		ug/L		53	31 - 118
Dimethyl phthalate	33.3	17.54		ug/L		53	24 - 125
Di-n-butyl phthalate	33.3	21.03		ug/L		63	30 - 127
Di-n-octyl phthalate	33.3	31.49		ug/L		94	28 - 142
Fluoranthene	33.3	26.32		ug/L		79	30 - 150
Fluorene	33.3	25.77		ug/L		77	30 - 150
Hexachlorobenzene	33.3	25.68		ug/L		77	29 - 113
Hexachlorobutadiene	33.3	9.355	J	ug/L		28	10 - 117
Hexachlorocyclopentadiene	33.3	4.003	J	ug/L		12	10 - 150
Hexachloroethane	33.3	11.58		ug/L		35	10 - 112
Indeno[1,2,3-cd]pyrene	33.3	26.55		ug/L		80	28 - 150
Isophorone	33.3	28.53		ug/L		86	29 - 125
Naphthalene	33.3	22.42		ug/L		67	27 - 150
Nitrobenzene	33.3	29.31		ug/L		88	29 - 129
N-Nitrosodi-n-propylamine	33.3	27.75		ug/L		83	53 - 134
N-Nitrosodiphenylamine	33.1	28.86		ug/L		87	62 - 132
Pentachlorophenol	66.7	42.91		ug/L		64	14 - 150
Phenanthrene	33.3	27.38		ug/L		82	32 - 150
Phenol	33.3	34.89	I	ug/L		105	10 - 150
Pyrene	33.3	25.52		ug/L		77	30 - 150

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCS 400-721396/2-A
Matrix: Water
Analysis Batch: 721385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 721396

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*78*		*10 - 150*
2-Fluorobiphenyl (Surr)	*67*		*25 - 139*
2-Fluorophenol (Surr)	*91*		*10 - 150*
Nitrobenzene-d5 (Surr)	*82*		*22 - 150*
Phenol-d5 (Surr)	*100*		*10 - 150*
Terphenyl-d14 (Surr)	*68*		*28 - 150*

Lab Sample ID: LCSD 400-721396/3-A
Matrix: Water
Analysis Batch: 721385

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 721396

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl			33.3	23.18		ug/L		70	27 - 120	4	40
2,4,5-Trichlorophenol			33.3	37.14		ug/L		111	27 - 136	9	40
2,4,6-Trichlorophenol			33.3	34.46		ug/L		103	21 - 132	7	40
2,4-Dichlorophenol			33.3	35.17		ug/L		106	30 - 125	6	40
2,4-Dimethylphenol			33.3	31.04		ug/L		93	10 - 142	6	40
2,4-Dinitrophenol			66.7	6.905	J *1	ug/L		10	10 - 150	48	40
2,4-Dinitrotoluene			33.3	30.65		ug/L		92	30 - 129	6	40
2,6-Dinitrotoluene			33.3	31.56		ug/L		95	34 - 132	5	40
2-Chloronaphthalene			33.3	21.30		ug/L		64	10 - 150	4	40
2-Chlorophenol			33.3	29.28		ug/L		88	28 - 127	2	40
2-Methylnaphthalene			33.3	23.55		ug/L		71	24 - 150	0	40
2-Methylphenol			33.3	33.69		ug/L		101	11 - 121	3	40
2-Nitroaniline			33.3	34.06		ug/L		102	31 - 141	6	40
2-Nitrophenol			33.3	33.86		ug/L		102	31 - 142	8	40
3 & 4 Methylphenol			33.3	33.84		ug/L		102	10 - 150	2	40
3,3'-Dichlorobenzidine			66.7	36.87		ug/L		55	10 - 150	4	40
3-Nitroaniline			33.3	30.01		ug/L		90	33 - 136	3	40
4,6-Dinitro-2-methylphenol			66.7	11.13		ug/L		17	10 - 150	29	40
4-Bromophenyl phenyl ether			33.3	27.19		ug/L		82	24 - 120	6	40
4-Chloro-3-methylphenol			33.3	38.87		ug/L		117	10 - 137	7	40
4-Chloroaniline			33.3	27.28		ug/L		82	10 - 150	1	40
4-Chlorophenyl phenyl ether			33.3	26.22		ug/L		79	31 - 110	5	40
4-Nitroaniline			33.3	27.96		ug/L		84	37 - 139	4	40
4-Nitrophenol			66.7	76.75		ug/L		115	10 - 150	8	40
Acenaphthene			33.3	26.38		ug/L		79	29 - 150	3	40
Acenaphthylene			33.3	28.57		ug/L		86	30 - 150	3	40
Acetophenone			33.3	28.74		ug/L		86	27 - 119	1	40
Anthracene			33.3	28.71		ug/L		86	31 - 150	4	40
Atrazine			33.3	26.25		ug/L		79	10 - 150	7	40
Benzaldehyde			33.3	22.34		ug/L		67	10 - 150	2	40
Benzo[a]anthracene			33.3	36.53		ug/L		110	36 - 150	9	40
Benzo[a]pyrene			33.3	30.52		ug/L		92	29 - 150	8	40
Benzo[b]fluoranthene			33.3	30.91		ug/L		93	32 - 150	7	40
Benzo[g,h,i]perylene			33.3	30.16		ug/L		90	28 - 150	6	40
Benzo[k]fluoranthene			33.3	30.70		ug/L		92	30 - 150	7	40
bis (2-chloroisopropyl) ether			33.3	24.79	I	ug/L		74	32 - 115	2	40

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCSD 400-721396/3-A
Matrix: Water
Analysis Batch: 721385

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 721396

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-chloroethoxy)methane			33.3	31.19		ug/L		94	34 - 120	1	40
Bis(2-chloroethyl)ether			33.3	28.40		ug/L		85	32 - 114	2	40
Bis(2-ethylhexyl) phthalate			33.3	30.98		ug/L		93	24 - 133	5	40
Butyl benzyl phthalate			33.3	26.97		ug/L		81	24 - 140	8	40
Caprolactam			33.3	53.73	*+	ug/L		161	10 - 150	1	40
Carbazole			33.3	28.22		ug/L		85	28 - 123	6	40
Chrysene			33.3	35.04		ug/L		105	34 - 150	5	40
Dibenz(a,h)anthracene			33.3	30.12		ug/L		90	29 - 150	6	40
Dibenzofuran			33.3	27.16		ug/L		81	35 - 110	4	40
Diethyl phthalate			33.3	19.85		ug/L		60	31 - 118	11	40
Dimethyl phthalate			33.3	19.62		ug/L		59	24 - 125	11	40
Di-n-butyl phthalate			33.3	22.68		ug/L		68	30 - 127	8	40
Di-n-octyl phthalate			33.3	33.15		ug/L		99	28 - 142	5	40
Fluoranthene			33.3	27.53		ug/L		83	30 - 150	4	40
Fluorene			33.3	27.03		ug/L		81	30 - 150	5	40
Hexachlorobenzene			33.3	26.91		ug/L		81	29 - 113	5	40
Hexachlorobutadiene			33.3	9.425	J	ug/L		28	10 - 117	1	40
Hexachlorocyclopentadiene			33.3	4.527	J	ug/L		14	10 - 150	12	40
Hexachloroethane			33.3	10.81		ug/L		32	10 - 112	7	40
Indeno[1,2,3-cd]pyrene			33.3	28.55		ug/L		86	28 - 150	7	40
Isophorone			33.3	27.98		ug/L		84	29 - 125	2	40
Naphthalene			33.3	22.40		ug/L		67	27 - 150	0	40
Nitrobenzene			33.3	29.27		ug/L		88	29 - 129	0	40
N-Nitrosodi-n-propylamine			33.3	26.67		ug/L		80	53 - 134	4	40
N-Nitrosodiphenylamine			33.1	30.03		ug/L		91	62 - 132	4	40
Pentachlorophenol			66.7	47.39		ug/L		71	14 - 150	10	40
Phenanthrene			33.3	28.93		ug/L		87	32 - 150	5	40
Phenol			33.3	35.46	I	ug/L		106	10 - 150	2	40
Pyrene			33.3	27.07		ug/L		81	30 - 150	6	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*86*		*10 - 150*
2-Fluorobiphenyl (Surr)	*72*		*25 - 139*
2-Fluorophenol (Surr)	*95*		*10 - 150*
Nitrobenzene-d5 (Surr)	*84*		*22 - 150*
Phenol-d5 (Surr)	*105*		*10 - 150*
Terphenyl-d14 (Surr)	*74*		*28 - 150*

Method: 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 400-721223/1-A
Matrix: Water
Analysis Batch: 721460

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 721223

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.300	0.300	ug/L		08/28/25 07:00	08/29/25 16:54	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*128*		*10 - 140*	*08/28/25 07:00*	*08/29/25 16:54*	*1*

Method: 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: LCS 400-721223/2-A
Matrix: Water
Analysis Batch: 721460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 721223

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			16.0	15.94		ug/L		100	30 - 150		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*105*		*10 - 140*

Lab Sample ID: LCSD 400-721223/3-A
Matrix: Water
Analysis Batch: 721460

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 721223

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			16.0	16.14		ug/L		101	30 - 150	1	

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8	*103*		*10 - 140*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-78884/1-A
Matrix: Water
Analysis Batch: 79775

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 78884

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	2.45	ug/L		09/02/25 12:35	09/03/25 23:55	1
Arsenic	ND		5.00	1.32	ug/L		09/02/25 12:35	09/03/25 23:55	1
Barium	ND		10.0	0.410	ug/L		09/02/25 12:35	09/03/25 23:55	1
Beryllium	ND		1.00	0.147	ug/L		09/02/25 12:35	09/03/25 23:55	1
Cadmium	ND		0.700	0.237	ug/L		09/02/25 12:35	09/03/25 23:55	1
Chromium	ND		5.00	3.69	ug/L		09/02/25 12:35	09/03/25 23:55	1
Cobalt	ND		5.00	0.411	ug/L		09/02/25 12:35	09/03/25 23:55	1
Copper	ND		2.00	0.642	ug/L		09/02/25 12:35	09/03/25 23:55	1
Lead	ND		1.00	0.864	ug/L		09/02/25 12:35	09/03/25 23:55	1
Manganese	ND		5.00	1.29	ug/L		09/02/25 12:35	09/03/25 23:55	1
Nickel	ND		5.00	0.422	ug/L		09/02/25 12:35	09/03/25 23:55	1
Selenium	ND		5.00	2.29	ug/L		09/02/25 12:35	09/03/25 23:55	1
Silver	ND		1.00	0.167	ug/L		09/02/25 12:35	09/03/25 23:55	1
Thallium	ND		1.00	0.190	ug/L		09/02/25 12:35	09/03/25 23:55	1
Vanadium	ND		5.00	1.22	ug/L		09/02/25 12:35	09/03/25 23:55	1
Zinc	ND		10.0	8.91	ug/L		09/02/25 12:35	09/03/25 23:55	1

Lab Sample ID: LCS 705-78884/2-A
Matrix: Water
Analysis Batch: 79775

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 78884

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Antimony			100	100.9		ug/L		101	80 - 120		
Arsenic			100	103.5		ug/L		103	80 - 120		
Barium			100	98.05		ug/L		98	80 - 120		
Beryllium			100	95.68		ug/L		96	80 - 120		
Cadmium			100	101.9		ug/L		102	80 - 120		

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

Lab Sample ID: LCS 705-78884/2-A
Matrix: Water
Analysis Batch: 79775

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 78884

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	100	104.0		ug/L		104	80 - 120
Cobalt	100	101.9		ug/L		102	80 - 120
Copper	100	101.3		ug/L		101	80 - 120
Lead	100	98.63		ug/L		99	80 - 120
Manganese	100	100.2		ug/L		100	80 - 120
Nickel	100	100.9		ug/L		101	80 - 120
Selenium	100	96.96		ug/L		97	80 - 120
Silver	10.0	9.889		ug/L		99	80 - 120
Thallium	100	95.48		ug/L		95	80 - 120
Vanadium	100	101.9		ug/L		102	80 - 120
Zinc	100	100.8		ug/L		101	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 705-80208/1-A
Matrix: Water
Analysis Batch: 80304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 80208

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.166	ug/L		09/08/25 13:31	09/08/25 16:48	1

Lab Sample ID: LCS 705-80208/2-A
Matrix: Water
Analysis Batch: 80304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 80208

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	4.00	3.814		ug/L		95	80 - 120

Lab Sample ID: MB 705-80559/1-A
Matrix: Water
Analysis Batch: 80891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 80559

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.200	0.166	ug/L		09/09/25 14:35	09/09/25 21:44	1

Lab Sample ID: LCS 705-80559/2-A
Matrix: Water
Analysis Batch: 80891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 80559

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	4.00	3.993		ug/L		100	80 - 120

Lab Sample ID: 752-36231-5 MS
Matrix: Water
Analysis Batch: 80891

Client Sample ID: Duplicate-2
Prep Type: Total/NA
Prep Batch: 80559

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		4.00	3.918		ug/L		98	75 - 125

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

Lab Sample ID: 752-36231-5 MSD
Matrix: Water
Analysis Batch: 80891

Client Sample ID: Duplicate-2
Prep Type: Total/NA
Prep Batch: 80559

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		4.00	4.040		ug/L		101	75 - 125	3	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 752-13331/12
Matrix: Water
Analysis Batch: 13331

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.0500	0.0200	mg/L			09/03/25 10:27	1

Lab Sample ID: LCS 752-13331/13
Matrix: Water
Analysis Batch: 13331

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.02	1.012		mg/L		100	90 - 110

Lab Sample ID: 752-36231-1 MS
Matrix: Water
Analysis Batch: 13331

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	0.263	F1	0.395	0.3358	F1	mg/L		19	90 - 110

Lab Sample ID: 752-36231-1 MSD
Matrix: Water
Analysis Batch: 13331

Client Sample ID: MW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	0.263	F1	0.395	0.3344	F1	mg/L		18	90 - 110	0	30

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-722270/31
Matrix: Water
Analysis Batch: 722270

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.00	1.40	mg/L			09/08/25 10:36	1

Lab Sample ID: LCS 400-722270/32
Matrix: Water
Analysis Batch: 722270

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	15.0	14.72		mg/L		98	90 - 110

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: MRL 400-722270/33
Matrix: Water
Analysis Batch: 722270

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			5.00	4.658	J	mg/L		93	50 - 150		

GC/MS VOA

Analysis Batch: 721749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36231-1	MW-6	Total/NA	Water	8260D	
752-36231-2	MW-7	Total/NA	Water	8260D	
752-36231-3	MW-8	Total/NA	Water	8260D	
752-36231-4	MW-9	Total/NA	Water	8260D	
752-36231-5	Duplicate-2	Total/NA	Water	8260D	
752-36231-6	Trip Blank	Total/NA	Water	8260D	
MB 400-721749/5	Method Blank	Total/NA	Water	8260D	
LCS 400-721749/1002	Lab Control Sample	Total/NA	Water	8260D	
752-36231-1 MS	MW-6	Total/NA	Water	8260D	
752-36231-1 MSD	MW-6	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 721223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36231-1	MW-6	Total/NA	Water	3510C	
752-36231-2	MW-7	Total/NA	Water	3510C	
752-36231-3	MW-8	Total/NA	Water	3510C	
752-36231-4	MW-9	Total/NA	Water	3510C	
752-36231-5	Duplicate-2	Total/NA	Water	3510C	
MB 400-721223/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-721223/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-721223/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 721385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-721396/1-A	Method Blank	Total/NA	Water	8270E	721396
LCS 400-721396/2-A	Lab Control Sample	Total/NA	Water	8270E	721396
LCSD 400-721396/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	721396

Prep Batch: 721396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36231-1	MW-6	Total/NA	Water	3511	
752-36231-2	MW-7	Total/NA	Water	3511	
752-36231-3	MW-8	Total/NA	Water	3511	
752-36231-4	MW-9	Total/NA	Water	3511	
752-36231-5	Duplicate-2	Total/NA	Water	3511	
MB 400-721396/1-A	Method Blank	Total/NA	Water	3511	
LCS 400-721396/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 400-721396/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 721460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36231-1	MW-6	Total/NA	Water	8270E SIM ID	721223
752-36231-2	MW-7	Total/NA	Water	8270E SIM ID	721223
752-36231-3	MW-8	Total/NA	Water	8270E SIM ID	721223
752-36231-4	MW-9	Total/NA	Water	8270E SIM ID	721223
752-36231-5	Duplicate-2	Total/NA	Water	8270E SIM ID	721223
MB 400-721223/1-A	Method Blank	Total/NA	Water	8270E SIM ID	721223
LCS 400-721223/2-A	Lab Control Sample	Total/NA	Water	8270E SIM ID	721223
LCSD 400-721223/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM ID	721223

GC/MS Semi VOA

Analysis Batch: 721493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36231-1	MW-6	Total/NA	Water	8270E	721396
752-36231-2	MW-7	Total/NA	Water	8270E	721396
752-36231-3	MW-8	Total/NA	Water	8270E	721396
752-36231-4	MW-9	Total/NA	Water	8270E	721396
752-36231-5	Duplicate-2	Total/NA	Water	8270E	721396

Metals

Prep Batch: 78884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36231-1	MW-6	Total Recoverable	Water	3005A	
752-36231-2	MW-7	Total Recoverable	Water	3005A	
752-36231-3	MW-8	Total Recoverable	Water	3005A	
752-36231-4	MW-9	Total Recoverable	Water	3005A	
752-36231-5	Duplicate-2	Total Recoverable	Water	3005A	
MB 705-78884/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 705-78884/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 79775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36231-1	MW-6	Total Recoverable	Water	6020B	78884
752-36231-2	MW-7	Total Recoverable	Water	6020B	78884
752-36231-3	MW-8	Total Recoverable	Water	6020B	78884
752-36231-4	MW-9	Total Recoverable	Water	6020B	78884
752-36231-5	Duplicate-2	Total Recoverable	Water	6020B	78884
MB 705-78884/1-A	Method Blank	Total Recoverable	Water	6020B	78884
LCS 705-78884/2-A	Lab Control Sample	Total Recoverable	Water	6020B	78884

Analysis Batch: 80041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36231-1	MW-6	Total Recoverable	Water	6020B	78884
752-36231-2	MW-7	Total Recoverable	Water	6020B	78884

Prep Batch: 80208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36231-1	MW-6	Total/NA	Water	7470A	
752-36231-2	MW-7	Total/NA	Water	7470A	
752-36231-3	MW-8	Total/NA	Water	7470A	
752-36231-4	MW-9	Total/NA	Water	7470A	
MB 705-80208/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-80208/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 80304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36231-1	MW-6	Total/NA	Water	7470A	80208
752-36231-2	MW-7	Total/NA	Water	7470A	80208
752-36231-3	MW-8	Total/NA	Water	7470A	80208
752-36231-4	MW-9	Total/NA	Water	7470A	80208
MB 705-80208/1-A	Method Blank	Total/NA	Water	7470A	80208
LCS 705-80208/2-A	Lab Control Sample	Total/NA	Water	7470A	80208

Metals

Prep Batch: 80559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36231-5	Duplicate-2	Total/NA	Water	7470A	
MB 705-80559/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-80559/2-A	Lab Control Sample	Total/NA	Water	7470A	
752-36231-5 MS	Duplicate-2	Total/NA	Water	7470A	
752-36231-5 MSD	Duplicate-2	Total/NA	Water	7470A	

Analysis Batch: 80891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36231-5	Duplicate-2	Total/NA	Water	7470A	80559
MB 705-80559/1-A	Method Blank	Total/NA	Water	7470A	80559
LCS 705-80559/2-A	Lab Control Sample	Total/NA	Water	7470A	80559
752-36231-5 MS	Duplicate-2	Total/NA	Water	7470A	80559
752-36231-5 MSD	Duplicate-2	Total/NA	Water	7470A	80559

Analysis Batch: 82281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36231-3	MW-8	Total Recoverable	Water	6020B	78884
752-36231-4	MW-9	Total Recoverable	Water	6020B	78884
752-36231-5	Duplicate-2	Total Recoverable	Water	6020B	78884

General Chemistry

Analysis Batch: 13294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36231-1	MW-6	Total/NA	Water	Nitrate by calc	
752-36231-2	MW-7	Total/NA	Water	Nitrate by calc	
752-36231-3	MW-8	Total/NA	Water	Nitrate by calc	
752-36231-4	MW-9	Total/NA	Water	Nitrate by calc	
752-36231-5	Duplicate-2	Total/NA	Water	Nitrate by calc	

Analysis Batch: 13331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36231-1	MW-6	Total/NA	Water	350.1	
752-36231-2	MW-7	Total/NA	Water	350.1	
752-36231-3	MW-8	Total/NA	Water	350.1	
752-36231-4	MW-9	Total/NA	Water	350.1	
752-36231-5	Duplicate-2	Total/NA	Water	350.1	
MB 752-13331/12	Method Blank	Total/NA	Water	350.1	
LCS 752-13331/13	Lab Control Sample	Total/NA	Water	350.1	
752-36231-1 MS	MW-6	Total/NA	Water	350.1	
752-36231-1 MSD	MW-6	Total/NA	Water	350.1	

Analysis Batch: 722270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36231-1	MW-6	Total/NA	Water	SM 4500 SO4 E	
752-36231-2	MW-7	Total/NA	Water	SM 4500 SO4 E	
752-36231-3	MW-8	Total/NA	Water	SM 4500 SO4 E	
752-36231-4	MW-9	Total/NA	Water	SM 4500 SO4 E	
752-36231-5	Duplicate-2	Total/NA	Water	SM 4500 SO4 E	
MB 400-722270/31	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-722270/32	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

General Chemistry (Continued)

Analysis Batch: 722270 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 400-722270/33	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	

Lab Chronicle

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36231-1

Client Sample ID: MW-6

Date Collected: 08/26/25 10:25
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	721749	RSG	EET PEN	09/03/25 14:03
Total/NA	Prep	3511			721396	JPH	EET PEN	08/29/25 07:00
Total/NA	Analysis	8270E		1	721493	UI	EET PEN	08/29/25 16:53
Total/NA	Prep	3510C			721223	BKL	EET PEN	08/28/25 07:00
Total/NA	Analysis	8270E SIM ID		1	721460	KJA	EET PEN	08/29/25 20:31
Total Recoverable	Prep	3005A			78884	BR	EET ATL	09/02/25 12:35
Total Recoverable	Analysis	6020B		1	79775	MD	EET ATL	09/04/25 01:09
Total Recoverable	Prep	3005A			78884	BR	EET ATL	09/02/25 12:35
Total Recoverable	Analysis	6020B		1	80041	MD	EET ATL	09/05/25 20:52
Total/NA	Prep	7470A			80208	GR	EET ATL	09/08/25 13:31
Total/NA	Analysis	7470A		1	80304	GR	EET ATL	09/08/25 18:53
Total/NA	Analysis	350.1		1	13331	ME	EET RAL	09/03/25 10:34
Total/NA	Analysis	Nitrate by calc		1	13294	LEB	EET RAL	09/02/25 11:27
Total/NA	Analysis	SM 4500 SO4 E		5	722270	CJK	EET PEN	09/08/25 11:43

Client Sample ID: MW-7

Date Collected: 08/26/25 11:17
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	721749	RSG	EET PEN	09/03/25 16:45
Total/NA	Prep	3511			721396	JPH	EET PEN	08/29/25 07:00
Total/NA	Analysis	8270E		1	721493	UI	EET PEN	08/29/25 17:23
Total/NA	Prep	3510C			721223	BKL	EET PEN	08/28/25 07:00
Total/NA	Analysis	8270E SIM ID		1	721460	KJA	EET PEN	08/29/25 20:53
Total Recoverable	Prep	3005A			78884	BR	EET ATL	09/02/25 12:35
Total Recoverable	Analysis	6020B		1	79775	MD	EET ATL	09/04/25 01:13
Total Recoverable	Prep	3005A			78884	BR	EET ATL	09/02/25 12:35
Total Recoverable	Analysis	6020B		2	80041	MD	EET ATL	09/05/25 20:56
Total/NA	Prep	7470A			80208	GR	EET ATL	09/08/25 13:31
Total/NA	Analysis	7470A		1	80304	GR	EET ATL	09/08/25 18:57
Total/NA	Analysis	350.1		1	13331	ME	EET RAL	09/03/25 10:39
Total/NA	Analysis	Nitrate by calc		1	13294	LEB	EET RAL	09/02/25 11:27
Total/NA	Analysis	SM 4500 SO4 E		1	722270	CJK	EET PEN	09/08/25 10:48

Client Sample ID: MW-8

Date Collected: 08/26/25 12:33
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	721749	RSG	EET PEN	09/03/25 17:12
Total/NA	Prep	3511			721396	JPH	EET PEN	08/29/25 07:00
Total/NA	Analysis	8270E		1	721493	UI	EET PEN	08/29/25 17:53

Lab Chronicle

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36231-1

Client Sample ID: MW-8
Date Collected: 08/26/25 12:33
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			721223	BKL	EET PEN	08/28/25 07:00
Total/NA	Analysis	8270E SIM ID		1	721460	KJA	EET PEN	08/29/25 21:15
Total Recoverable	Prep	3005A			78884	BR	EET ATL	09/02/25 12:35
Total Recoverable	Analysis	6020B		1	82281	IF	EET ATL	09/16/25 17:48
Total Recoverable	Prep	3005A			78884	BR	EET ATL	09/02/25 12:35
Total Recoverable	Analysis	6020B		1	79775	MD	EET ATL	09/04/25 01:16
Total/NA	Prep	7470A			80208	GR	EET ATL	09/08/25 13:31
Total/NA	Analysis	7470A		1	80304	GR	EET ATL	09/08/25 19:01
Total/NA	Analysis	350.1		1	13331	ME	EET RAL	09/03/25 10:41
Total/NA	Analysis	Nitrate by calc		1	13294	LEB	EET RAL	09/02/25 11:27
Total/NA	Analysis	SM 4500 SO4 E		1	722270	CJK	EET PEN	09/08/25 10:48

Client Sample ID: MW-9
Date Collected: 08/26/25 13:43
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	721749	RSG	EET PEN	09/03/25 17:39
Total/NA	Prep	3511			721396	JPH	EET PEN	08/29/25 07:00
Total/NA	Analysis	8270E		1	721493	UI	EET PEN	08/29/25 18:23
Total/NA	Prep	3510C			721223	BKL	EET PEN	08/28/25 07:00
Total/NA	Analysis	8270E SIM ID		1	721460	KJA	EET PEN	08/29/25 21:36
Total Recoverable	Prep	3005A			78884	BR	EET ATL	09/02/25 12:35
Total Recoverable	Analysis	6020B		1	82281	IF	EET ATL	09/16/25 17:50
Total Recoverable	Prep	3005A			78884	BR	EET ATL	09/02/25 12:35
Total Recoverable	Analysis	6020B		1	79775	MD	EET ATL	09/04/25 01:20
Total/NA	Prep	7470A			80208	GR	EET ATL	09/08/25 13:31
Total/NA	Analysis	7470A		1	80304	GR	EET ATL	09/08/25 19:05
Total/NA	Analysis	350.1		1	13331	ME	EET RAL	09/03/25 10:43
Total/NA	Analysis	Nitrate by calc		1	13294	LEB	EET RAL	09/02/25 11:27
Total/NA	Analysis	SM 4500 SO4 E		2	722270	CJK	EET PEN	09/08/25 11:19

Client Sample ID: Duplicate-2
Date Collected: 08/26/25 00:00
Date Received: 08/27/25 10:08

Lab Sample ID: 752-36231-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	721749	RSG	EET PEN	09/03/25 18:06
Total/NA	Prep	3511			721396	JPH	EET PEN	08/29/25 07:00
Total/NA	Analysis	8270E		1	721493	UI	EET PEN	08/29/25 18:53
Total/NA	Prep	3510C			721223	BKL	EET PEN	08/28/25 07:00
Total/NA	Analysis	8270E SIM ID		1	721460	KJA	EET PEN	08/29/25 21:58
Total Recoverable	Prep	3005A			78884	BR	EET ATL	09/02/25 12:35
Total Recoverable	Analysis	6020B		1	82281	IF	EET ATL	09/16/25 18:08

Lab Chronicle

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36231-1

Client Sample ID: Duplicate-2

Lab Sample ID: 752-36231-5

Date Collected: 08/26/25 00:00

Matrix: Water

Date Received: 08/27/25 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			78884	BR	EET ATL	09/02/25 12:35
Total Recoverable	Analysis	6020B		1	79775	MD	EET ATL	09/04/25 01:43
Total/NA	Prep	7470A			80559	GR	EET ATL	09/09/25 14:35
Total/NA	Analysis	7470A		1	80891	GR	EET ATL	09/09/25 21:51
Total/NA	Analysis	350.1		1	13331	ME	EET RAL	09/03/25 10:44
Total/NA	Analysis	Nitrate by calc		1	13294	LEB	EET RAL	09/02/25 11:27
Total/NA	Analysis	SM 4500 SO4 E		2	722270	CJK	EET PEN	09/08/25 11:19

Client Sample ID: Trip Blank

Lab Sample ID: 752-36231-6

Date Collected: 08/26/25 10:25

Matrix: Water

Date Received: 08/27/25 10:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	721749	RSG	EET PEN	09/03/25 18:33

Laboratory References:

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

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET RAL = Eurofins Raleigh, 104 Woodwinds Industrial Court, Suite A, Cary, NC 27511, TEL (919)467-3090

Accreditation/Certification Summary

Client: S&ME Inc
Job ID: 752-36231-1
Project/Site: Northgate Park

Laboratory: Eurofins Raleigh

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	591	12-31-25

Laboratory: Eurofins Atlanta

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	562	12-31-25

Laboratory: Eurofins Pensacola

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	314	12-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260D		Water	Hexane
8260D		Water	n-Heptane
8270E	3511	Water	3 & 4 Methylphenol
8270E	3511	Water	4-Nitrophenol

Method Summary

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36231-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC-MS/MS)	SW846	EET PEN
8270E SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET PEN
6020B	Metals (ICP/MS)	SW846	EET ATL
7470A	Mercury (CVAA)	SW846	EET ATL
350.1	Nitrogen, Ammonia	EPA	EET RAL
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	EET RAL
SM 4500 SO4 E	Sulfate, Total	SM	EET PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET PEN
3511	Microextraction of Organic Compounds	SW846	EET PEN
5030C	Purge and Trap	SW846	EET PEN
7470A	Preparation, Mercury	SW846	EET ATL

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET RAL = Eurofins Raleigh, 104 Woodwinds Industrial Court, Suite A, Cary, NC 27511, TEL (919)467-3090

Sample Summary

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36231-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
752-36231-1	MW-6	Water	08/26/25 10:25	08/27/25 10:08	North Carolina
752-36231-2	MW-7	Water	08/26/25 11:17	08/27/25 10:08	North Carolina
752-36231-3	MW-8	Water	08/26/25 12:33	08/27/25 10:08	North Carolina
752-36231-4	MW-9	Water	08/26/25 13:43	08/27/25 10:08	North Carolina
752-36231-5	Duplicate-2	Water	08/26/25 00:00	08/27/25 10:08	North Carolina
752-36231-6	Trip Blank	Water	08/26/25 10:25	08/27/25 10:08	North Carolina

Eurofins Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Phone (912) 354-7858 Phone (912) 352-0165

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: CF	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-169224-59655.1
Client Contact: Jerry Paul	Phone: 843-503-1642	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: S&ME Inc	PWSID:			Job #:
Address: 3201 Spring Forest Road	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27616	Compliance Project: Δ Yes Δ No			
Phone: 919-872-2660(Tel) 919-876-3958(Fax)	PO #: 23050630, [redacted] Phase 2			
Email: jpaul@smeinc.com	WO #:			
Project Name: ~~Wellitown Park~~ Northgate Park	Project #: 68026680			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
N - None
S - H2SO4
D - HNO3
A - HCL
Other:

752-36231 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9056A_ORGFM_28D - Sulfate	6020B - PRLF 16 Metals, including prep; 7470A -	8260D - VOC NC 02L List	8270E_SIM_MS_ID - 1,4-Dioxane	8270E_QQQ - SVOC TCL OLM4.2	350.1, 353.2	353.2_Nitrite, Nitrate_Calc (48 hour HT)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	D	A	N	N	S		
MW-6	8/26/25	1025	C	W			/	/	/	/	/	/	/		
MW-7		1117					/	/	/	/	/	/	/		
MW-8		1233					/	/	/	/	/	/	/		
MW-9		1343					/	/	/	/	/	/	/		
DUPLICATE-2							/	/	/	/	/	/	/		
TRIP BLANK									✓						

Initial Temperature: 3.0/3.6 °C
Correction Factor: -0.3°C
Corrected Temperature: 2.7/3.3 °C
Temp IR Gun: CRY-T-132
Initials: RY BR PG DW DO LB

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	8/27/25 1000		[signature]	08/27/25 1008	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Eurofins Raleigh
104 Woodwinds Industrial Court Suite A
Cary, NC 27511
Phone: 919-467-3090

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Bechtold, Chad	Carrier Tracking No(s): N/A	COC No: 752-6443.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Chad Bechtold@et.eurofinsus.com	State of Origin: North Carolina	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast L		Accreditations Required (See note): State - North Carolina (WW/SW)		Job #: 752-36231-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 9/5/2025	Analysis Requested		Preservation Codes: -
City: Pensacola	TAT Requested (days): N/A			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Northgate Park	Project #: 68026680			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030CVOC NC 02L List	8270E_QQQ/3511SVOC TCL OLM4 2	SM4500_SO4_E	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-6 (752-36231-1)	8/26/25	10:25 Eastern	G	Water			X	X	X	3	
MW-7 (752-36231-2)	8/26/25	11 17 Eastern	G	Water			X	X	X	3	
MW-8 (752-36231-3)	8/26/25	12:33 Eastern	G	Water			X	X	X	3	
MW-9 (752-36231-4)	8/26/25	13 43 Eastern	G	Water			X	X	X	3	
Duplicate-2 (752-36231-5)	8/26/25	Eastern	G	Water			X	X	X	3	
Trip Blank (752-36231-6)	8/26/25	10:25 Eastern	G	Water			X			1	

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	PG	8/27/25 15:18			8-28-25 0907	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.0°C IR 60 1.5 IR 8

Ver 10/10/2024

Eurofins Raleigh
104 Woodwinds Industrial Court Suite A
Cary, NC 27511
Phone: 919-467-3090

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Bechtold, Chad	Carrier Tracking No(s): N/A	COC No: 752-6440.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin: North Carolina	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast L		Accreditations Required (See note): State - North Carolina (WW/SW)		Job #: 752-36231-1
Address: 3080 Presidential Dr, ,	Due Date Requested: 9/5/2025			Preservation Codes: -
City: Atlanta	TAT Requested (days): N/A			
State, Zip: GA, 30340				
Phone: 770-457-8177(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Northgate Park	Project #: 68026680			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/3005APRLF 16 Metals, Including prep	7470A/7470A_PrepMercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-6 (752-36231-1)	8/26/25	10:25 Eastern	G	Water			X	X	1	
MW-7 (752-36231-2)	8/26/25	11:17 Eastern	G	Water			X	X	1	
MW-8 (752-36231-3)	8/26/25	12:33 Eastern	G	Water			X	X	1	
MW-9 (752-36231-4)	8/26/25	13:43 Eastern	G	Water			X	X	1	
Duplicate-2 (752-36231-5)	8/26/25	Eastern	G	Water			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
PG	8/27/25 15:10		[illegible]	8/28/25 9:37	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.0 #2665

Ver: 10/10/2024

Login Sample Receipt Checklist

Client: S&ME Inc

Job Number: 752-36231-1

Login Number: 36231
List Number: 1
Creator: Yonish, Rachel

List Source: Eurofins Raleigh

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

Login Sample Receipt Checklist

Client: S&ME Inc

Job Number: 752-36231-1

Login Number: 36231
List Number: 2
Creator: Ceclu, Rodica

List Source: Eurofins Atlanta
List Creation: 08/28/25 10:34 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
The cooler does not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Sample custody seals, if present, are intact.	True	
Sample collection date/times are provided.	True	
The samples do not appear to have been compromised or tampered with.	True	
Containers are not broken or leaking.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Appropriate sample containers were rec'd and sufficient volume for all analyses.	True	
Samples are received within Holding Time (excluding tests with immediate HTs).	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Is there sufficient air space in bottle for bacteriological analysis.	True	

Login Sample Receipt Checklist

Client: S&ME Inc

Job Number: 752-36231-1

Login Number: 36231
List Number: 3
Creator: Bankston, Victoria K

List Source: Eurofins Pensacola
List Creation: 08/28/25 11:22 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR10, 1.5°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Jerry Paul
S&ME Inc
3201 Spring Forest Road
Raleigh, North Carolina 27616

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JOB DESCRIPTION

Northgate Park

JOB NUMBER

752-36184-1

Eurofins Raleigh
104 Woodwinds Industrial Court
Suite A
Cary NC 27511

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization

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Authorized for release by
Chad Bechtold, Project Manager
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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

Job Narrative
752-36184-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 8/26/2025 8:35 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

GC/MS VOA
Method 8260D: The laboratory control sample (LCS) for analytical batch 400-721619 recovered outside control limits for the following analyte: 1,2,4-Trimethylbenzene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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

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

Metals
Method 7470A: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 705-79866 and analytical batch 705-80061 recovered outside control limits for the following analyte: Mercury. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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

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

Detection Summary

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36184-1

Client Sample ID: MW-2 — Lab Sample ID: 752-36184-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	329		10.0	0.410	ug/L	1		6020B	Total Recoverable
Chromium	4.03	J	5.00	3.69	ug/L	1		6020B	Total Recoverable
Cobalt	1.72	J	5.00	0.411	ug/L	1		6020B	Total Recoverable
Copper	1.45	J	2.00	0.642	ug/L	1		6020B	Total Recoverable
Manganese	440		5.00	1.29	ug/L	1		6020B	Total Recoverable
Nickel	1.09	J	5.00	0.422	ug/L	1		6020B	Total Recoverable
Vanadium	1.61	J	5.00	1.22	ug/L	1		6020B	Total Recoverable
Zinc	454		10.0	8.91	ug/L	1		6020B	Total Recoverable
Sulfate	13.3	F2	5.00	1.40	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-3 — Lab Sample ID: 752-36184-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.65		0.291	0.291	ug/L	1		8270E SIM ID	Total/NA
Phenol	1.56	J	10.0	0.682	ug/L	1		8270E	Total/NA
Arsenic	2.36	J	5.00	1.32	ug/L	1		6020B	Total Recoverable
Barium	203		10.0	0.410	ug/L	1		6020B	Total Recoverable
Chromium	5.75		5.00	3.69	ug/L	1		6020B	Total Recoverable
Cobalt	4.24	J	5.00	0.411	ug/L	1		6020B	Total Recoverable
Copper	2.51		2.00	0.642	ug/L	1		6020B	Total Recoverable
Manganese	667		5.00	1.29	ug/L	1		6020B	Total Recoverable
Nickel	2.59	J	5.00	0.422	ug/L	1		6020B	Total Recoverable
Vanadium	6.44		5.00	1.22	ug/L	1		6020B	Total Recoverable
Zinc	14.8		10.0	8.91	ug/L	1		6020B	Total Recoverable
Ammonia	0.127		0.0500	0.0200	mg/L	1		350.1	Total/NA
Sulfate	16.3	F1 F2	5.00	1.40	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 752-36184-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	150		10.0	0.410	ug/L	1		6020B	Total Recoverable
Cobalt	4.24	J	5.00	0.411	ug/L	1		6020B	Total Recoverable
Copper	1.14	J	2.00	0.642	ug/L	1		6020B	Total Recoverable
Manganese	1530		5.00	1.29	ug/L	1		6020B	Total Recoverable
Nickel	1.75	J	5.00	0.422	ug/L	1		6020B	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36184-1

Client Sample ID: MW-5 — Lab Sample ID: 752-36184-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	103		10.0	0.410	ug/L	1		6020B	Total Recoverable
Cobalt	3.47	J	5.00	0.411	ug/L	1		6020B	Total Recoverable
Copper	1.42	J	2.00	0.642	ug/L	1		6020B	Total Recoverable
Manganese	1060		5.00	1.29	ug/L	1		6020B	Total Recoverable
Nickel	3.56	J	5.00	0.422	ug/L	1		6020B	Total Recoverable
Vanadium	4.31	J	5.00	1.22	ug/L	1		6020B	Total Recoverable
Ammonia	0.0240	J F1	0.0500	0.0200	mg/L	1		350.1	Total/NA
Nitrate as N	0.607		0.100	0.0250	mg/L	1		Nitrate by calc	Total/NA
Sulfate	35.7		10.0	2.80	mg/L	2		SM 4500 SO4 E	Total/NA

Client Sample ID: Duplicate-1 — Lab Sample ID: 752-36184-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.78		0.287	0.287	ug/L	1		8270E SIM ID	Total/NA
Phenol	2.59	J	10.1	0.687	ug/L	1		8270E	Total/NA
Arsenic	2.70	J	5.00	1.32	ug/L	1		6020B	Total Recoverable
Barium	184		10.0	0.410	ug/L	1		6020B	Total Recoverable
Chromium	7.82		5.00	3.69	ug/L	1		6020B	Total Recoverable
Cobalt	4.21	J	5.00	0.411	ug/L	1		6020B	Total Recoverable
Copper	3.97		2.00	0.642	ug/L	1		6020B	Total Recoverable
Manganese	623		5.00	1.29	ug/L	1		6020B	Total Recoverable
Nickel	3.02	J	5.00	0.422	ug/L	1		6020B	Total Recoverable
Vanadium	9.89		5.00	1.22	ug/L	1		6020B	Total Recoverable
Zinc	19.3		10.0	8.91	ug/L	1		6020B	Total Recoverable
Ammonia	0.138		0.0500	0.0200	mg/L	1		350.1	Total/NA
Sulfate	16.1		5.00	1.40	mg/L	1		SM 4500 SO4 E	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 752-36184-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Raleigh

Client Sample Results

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36184-1

Client Sample ID: MW-2

Date Collected: 08/25/25 14:50
Date Received: 08/26/25 08:35

Lab Sample ID: 752-36184-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	10.0	ug/L			09/02/25 19:22	1
Benzene	ND		1.00	0.500	ug/L			09/02/25 19:22	1
Bromobenzene	ND		1.00	0.540	ug/L			09/02/25 19:22	1
Bromoform	ND		5.00	0.250	ug/L			09/02/25 19:22	1
Bromomethane	ND		1.00	0.980	ug/L			09/02/25 19:22	1
2-Butanone (MEK)	ND		25.0	2.60	ug/L			09/02/25 19:22	1
Carbon disulfide	ND		1.00	0.500	ug/L			09/02/25 19:22	1
Carbon tetrachloride	ND		1.00	0.190	ug/L			09/02/25 19:22	1
Chlorobenzene	ND		1.00	0.420	ug/L			09/02/25 19:22	1
Chlorobromomethane	ND		1.00	0.520	ug/L			09/02/25 19:22	1
Chlorodibromomethane	ND		1.00	0.240	ug/L			09/02/25 19:22	1
Chloroethane	ND		1.00	0.760	ug/L			09/02/25 19:22	1
Chloroform	ND		1.00	0.900	ug/L			09/02/25 19:22	1
Chloromethane	ND		1.00	0.400	ug/L			09/02/25 19:22	1
2-Chlorotoluene	ND		1.00	0.570	ug/L			09/02/25 19:22	1
4-Chlorotoluene	ND		1.00	0.560	ug/L			09/02/25 19:22	1
cis-1,2-Dichloroethene	ND		1.00	0.200	ug/L			09/02/25 19:22	1
cis-1,3-Dichloropropene	ND		5.00	0.500	ug/L			09/02/25 19:22	1
1,2-Dibromo-3-Chloropropane	ND		5.00	1.50	ug/L			09/02/25 19:22	1
Dibromomethane	ND		5.00	0.220	ug/L			09/02/25 19:22	1
1,2-Dichlorobenzene	ND		1.00	0.500	ug/L			09/02/25 19:22	1
1,3-Dichlorobenzene	ND		1.00	0.540	ug/L			09/02/25 19:22	1
1,4-Dichlorobenzene	ND		1.00	0.640	ug/L			09/02/25 19:22	1
Dichlorobromomethane	ND		1.00	0.500	ug/L			09/02/25 19:22	1
1,1-Dichloroethane	ND		1.00	0.500	ug/L			09/02/25 19:22	1
1,2-Dichloroethane	ND		1.00	0.550	ug/L			09/02/25 19:22	1
1,1-Dichloroethene	ND		1.00	0.500	ug/L			09/02/25 19:22	1
1,2-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 19:22	1
1,3-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 19:22	1
2,2-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 19:22	1
1,1-Dichloropropene	ND		1.00	0.0900	ug/L			09/02/25 19:22	1
Ethyl acetate	ND		10.0	6.14	ug/L			09/02/25 19:22	1
Ethylbenzene	ND		1.00	0.500	ug/L			09/02/25 19:22	1
Ethylene Dibromide	ND		1.00	0.230	ug/L			09/02/25 19:22	1
Hexachlorobutadiene	ND		5.00	0.900	ug/L			09/02/25 19:22	1
Hexane	ND		1.00	0.960	ug/L			09/02/25 19:22	1
2-Hexanone	ND		25.0	4.26	ug/L			09/02/25 19:22	1
Iodomethane	ND		1.00	0.900	ug/L			09/02/25 19:22	1
Isopropylbenzene	ND		1.00	0.530	ug/L			09/02/25 19:22	1
Isopropyl ether	ND		1.00	0.740	ug/L			09/02/25 19:22	1
4-Isopropyltoluene	ND		1.00	0.710	ug/L			09/02/25 19:22	1
Methylene Chloride	ND		5.00	3.00	ug/L			09/02/25 19:22	1
4-Methyl-2-pentanone (MIBK)	ND		25.0	1.80	ug/L			09/02/25 19:22	1
Methyl tert-butyl ether	ND		1.00	0.220	ug/L			09/02/25 19:22	1
m-Xylene & p-Xylene	ND		5.00	3.00	ug/L			09/02/25 19:22	1
Naphthalene	ND		5.00	3.00	ug/L			09/02/25 19:22	1
n-Butylbenzene	ND		1.00	0.760	ug/L			09/02/25 19:22	1
n-Heptane	ND		1.00	0.210	ug/L			09/02/25 19:22	1
N-Propylbenzene	ND		1.00	0.690	ug/L			09/02/25 19:22	1

Client Sample ID: MW-2
Date Collected: 08/25/25 14:50
Date Received: 08/26/25 08:35

Lab Sample ID: 752-36184-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		5.00	3.00	ug/L			09/02/25 19:22	1
sec-Butylbenzene	ND		1.00	0.700	ug/L			09/02/25 19:22	1
Styrene	ND		1.00	1.00	ug/L			09/02/25 19:22	1
tert-Butylbenzene	ND		1.00	0.630	ug/L			09/02/25 19:22	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.380	ug/L			09/02/25 19:22	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.500	ug/L			09/02/25 19:22	1
Tetrachloroethene	ND		1.00	0.330	ug/L			09/02/25 19:22	1
Toluene	ND		1.00	0.900	ug/L			09/02/25 19:22	1
trans-1,4-Dichloro-2-butene	ND		5.00	1.00	ug/L			09/02/25 19:22	1
trans-1,2-Dichloroethene	ND		1.00	0.500	ug/L			09/02/25 19:22	1
trans-1,3-Dichloropropene	ND		5.00	0.200	ug/L			09/02/25 19:22	1
1,2,3-Trichlorobenzene	ND		1.00	0.900	ug/L			09/02/25 19:22	1
1,2,4-Trichlorobenzene	ND		1.00	0.820	ug/L			09/02/25 19:22	1
1,1,1-Trichloroethane	ND		1.00	0.180	ug/L			09/02/25 19:22	1
1,1,2-Trichloroethane	ND		5.00	0.210	ug/L			09/02/25 19:22	1
Trichloroethene	ND		1.00	0.150	ug/L			09/02/25 19:22	1
Trichlorofluoromethane	ND		1.00	0.250	ug/L			09/02/25 19:22	1
1,2,3-Trichloropropane	ND		5.00	0.840	ug/L			09/02/25 19:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.500	ug/L			09/02/25 19:22	1
1,2,4-Trimethylbenzene	ND	*+	1.00	0.820	ug/L			09/02/25 19:22	1
1,3,5-Trimethylbenzene	ND		1.00	0.560	ug/L			09/02/25 19:22	1
Vinyl acetate	ND		25.0	0.930	ug/L			09/02/25 19:22	1
Vinyl chloride	ND		1.00	0.500	ug/L			09/02/25 19:22	1
Xylenes, Total	ND		10.0	6.00	ug/L			09/02/25 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*56 - 136*		*09/02/25 19:22*	*1*
Dibromofluoromethane	*100*		*79 - 130*		*09/02/25 19:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*59 - 146*		*09/02/25 19:22*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*09/02/25 19:22*	*1*

Method: SW846 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.300	0.300	ug/L		08/28/25 07:00	08/29/25 18:42	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*24*		*10 - 140*	*08/28/25 07:00*	*08/29/25 18:42*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		10.1	0.424	ug/L		08/28/25 07:00	08/29/25 00:36	1
2,4,5-Trichlorophenol	ND		10.1	0.545	ug/L		08/28/25 07:00	08/29/25 00:36	1
2,4,6-Trichlorophenol	ND		10.1	1.10	ug/L		08/28/25 07:00	08/29/25 00:36	1
2,4-Dichlorophenol	ND		10.1	0.576	ug/L		08/28/25 07:00	08/29/25 00:36	1
2,4-Dimethylphenol	ND		10.1	0.242	ug/L		08/28/25 07:00	08/29/25 00:36	1
2,4-Dinitrophenol	ND		30.3	4.73	ug/L		08/28/25 07:00	08/29/25 00:36	1
2,4-Dinitrotoluene	ND		10.1	0.657	ug/L		08/28/25 07:00	08/29/25 00:36	1
2,6-Dinitrotoluene	ND		10.1	0.293	ug/L		08/28/25 07:00	08/29/25 00:36	1
2-Chloronaphthalene	ND		10.1	0.384	ug/L		08/28/25 07:00	08/29/25 00:36	1
2-Chlorophenol	ND		10.1	0.848	ug/L		08/28/25 07:00	08/29/25 00:36	1
2-Methylnaphthalene	ND		10.1	0.818	ug/L		08/28/25 07:00	08/29/25 00:36	1

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36184-1

Client Sample ID: MW-2
Date Collected: 08/25/25 14:50
Date Received: 08/26/25 08:35

Lab Sample ID: 752-36184-1
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	ND		10.1	0.768	ug/L		08/28/25 07:00	08/29/25 00:36	1
2-Nitroaniline	ND		10.1	1.38	ug/L		08/28/25 07:00	08/29/25 00:36	1
2-Nitrophenol	ND		10.1	1.18	ug/L		08/28/25 07:00	08/29/25 00:36	1
3 & 4 Methylphenol	ND		20.2	4.65	ug/L		08/28/25 07:00	08/29/25 00:36	1
3,3'-Dichlorobenzidine	ND		11.1	0.414	ug/L		08/28/25 07:00	08/29/25 00:36	1
3-Nitroaniline	ND		10.1	0.960	ug/L		08/28/25 07:00	08/29/25 00:36	1
4,6-Dinitro-2-methylphenol	ND		10.1	1.99	ug/L		08/28/25 07:00	08/29/25 00:36	1
4-Bromophenyl phenyl ether	ND		10.1	0.131	ug/L		08/28/25 07:00	08/29/25 00:36	1
4-Chloro-3-methylphenol	ND		10.1	0.737	ug/L		08/28/25 07:00	08/29/25 00:36	1
4-Chloroaniline	ND		10.1	0.586	ug/L		08/28/25 07:00	08/29/25 00:36	1
4-Chlorophenyl phenyl ether	ND		10.1	0.242	ug/L		08/28/25 07:00	08/29/25 00:36	1
4-Nitroaniline	ND		10.1	3.54	ug/L		08/28/25 07:00	08/29/25 00:36	1
4-Nitrophenol	ND		10.1	2.77	ug/L		08/28/25 07:00	08/29/25 00:36	1
Acenaphthene	ND		10.1	0.636	ug/L		08/28/25 07:00	08/29/25 00:36	1
Acenaphthylene	ND		10.1	0.768	ug/L		08/28/25 07:00	08/29/25 00:36	1
Acetophenone	ND		10.1	3.23	ug/L		08/28/25 07:00	08/29/25 00:36	1
Anthracene	ND		10.1	0.919	ug/L		08/28/25 07:00	08/29/25 00:36	1
Atrazine	ND		10.1	1.14	ug/L		08/28/25 07:00	08/29/25 00:36	1
Benzaldehyde	ND		10.1	0.677	ug/L		08/28/25 07:00	08/29/25 00:36	1
Benzo[a]anthracene	ND		10.1	1.01	ug/L		08/28/25 07:00	08/29/25 00:36	1
Benzo[a]pyrene	ND		10.1	1.11	ug/L		08/28/25 07:00	08/29/25 00:36	1
Benzo[b]fluoranthene	ND		10.1	1.21	ug/L		08/28/25 07:00	08/29/25 00:36	1
Benzo[g,h,i]perylene	ND		10.1	1.52	ug/L		08/28/25 07:00	08/29/25 00:36	1
Benzo[k]fluoranthene	ND		10.1	1.52	ug/L		08/28/25 07:00	08/29/25 00:36	1
bis (2-chloroisopropyl) ether	ND		10.1	0.939	ug/L		08/28/25 07:00	08/29/25 00:36	1
Bis(2-chloroethoxy)methane	ND		10.1	0.343	ug/L		08/28/25 07:00	08/29/25 00:36	1
Bis(2-chloroethyl)ether	ND		10.1	0.737	ug/L		08/28/25 07:00	08/29/25 00:36	1
Bis(2-ethylhexyl) phthalate	ND		10.1	4.04	ug/L		08/28/25 07:00	08/29/25 00:36	1
Butyl benzyl phthalate	ND		10.1	4.04	ug/L		08/28/25 07:00	08/29/25 00:36	1
Caprolactam	ND		10.1	2.42	ug/L		08/28/25 07:00	08/29/25 00:36	1
Carbazole	ND		10.1	0.323	ug/L		08/28/25 07:00	08/29/25 00:36	1
Chrysene	ND		10.1	1.21	ug/L		08/28/25 07:00	08/29/25 00:36	1
Dibenz(a,h)anthracene	ND		10.1	1.31	ug/L		08/28/25 07:00	08/29/25 00:36	1
Dibenzofuran	ND		10.1	0.646	ug/L		08/28/25 07:00	08/29/25 00:36	1
Diethyl phthalate	ND		10.1	4.04	ug/L		08/28/25 07:00	08/29/25 00:36	1
Dimethyl phthalate	ND		10.1	4.04	ug/L		08/28/25 07:00	08/29/25 00:36	1
Di-n-butyl phthalate	ND		10.1	8.27	ug/L		08/28/25 07:00	08/29/25 00:36	1
Di-n-octyl phthalate	ND		10.1	4.04	ug/L		08/28/25 07:00	08/29/25 00:36	1
Fluoranthene	ND		10.1	0.636	ug/L		08/28/25 07:00	08/29/25 00:36	1
Fluorene	ND		10.1	0.677	ug/L		08/28/25 07:00	08/29/25 00:36	1
Hexachlorobenzene	ND		10.1	0.253	ug/L		08/28/25 07:00	08/29/25 00:36	1
Hexachlorobutadiene	ND		10.1	0.556	ug/L		08/28/25 07:00	08/29/25 00:36	1
Hexachlorocyclopentadiene	ND		20.2	0.323	ug/L		08/28/25 07:00	08/29/25 00:36	1
Hexachloroethane	ND		10.1	0.535	ug/L		08/28/25 07:00	08/29/25 00:36	1
Indeno[1,2,3-cd]pyrene	ND		10.1	1.11	ug/L		08/28/25 07:00	08/29/25 00:36	1
Isophorone	ND		10.1	0.808	ug/L		08/28/25 07:00	08/29/25 00:36	1
Naphthalene	ND		10.1	0.758	ug/L		08/28/25 07:00	08/29/25 00:36	1
Nitrobenzene	ND		10.1	0.606	ug/L		08/28/25 07:00	08/29/25 00:36	1
N-Nitrosodi-n-propylamine	ND		10.1	0.333	ug/L		08/28/25 07:00	08/29/25 00:36	1

Client Sample ID: MW-2
Lab Sample ID: 752-36184-1

Date Collected: 08/25/25 14:50
Matrix: Water
Date Received: 08/26/25 08:35

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	ND		10.1	0.192	ug/L		08/28/25 07:00	08/29/25 00:36	1
Pentachlorophenol	ND		10.1	2.83	ug/L		08/28/25 07:00	08/29/25 00:36	1
Phenanthrene	ND		10.1	0.747	ug/L		08/28/25 07:00	08/29/25 00:36	1
Phenol	ND		10.1	0.687	ug/L		08/28/25 07:00	08/29/25 00:36	1
Pyrene	ND		10.1	0.636	ug/L		08/28/25 07:00	08/29/25 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*10 - 150*	*08/28/25 07:00*	*08/29/25 00:36*	*1*
2-Fluorobiphenyl (Surr)	*75*		*25 - 139*	*08/28/25 07:00*	*08/29/25 00:36*	*1*
2-Fluorophenol (Surr)	*84*		*10 - 150*	*08/28/25 07:00*	*08/29/25 00:36*	*1*
Nitrobenzene-d5 (Surr)	*80*		*22 - 150*	*08/28/25 07:00*	*08/29/25 00:36*	*1*
Phenol-d5 (Surr)	*77*		*10 - 150*	*08/28/25 07:00*	*08/29/25 00:36*	*1*
Terphenyl-d14 (Surr)	*56*		*28 - 150*	*08/28/25 07:00*	*08/29/25 00:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	2.45	ug/L		08/29/25 09:29	09/02/25 18:27	1
Arsenic	ND		5.00	1.32	ug/L		08/29/25 09:29	09/02/25 18:27	1
Barium	**329**		10.0	0.410	ug/L		08/29/25 09:29	09/02/25 18:27	1
Beryllium	ND		1.00	0.147	ug/L		08/29/25 09:29	09/02/25 18:27	1
Cadmium	ND		0.700	0.237	ug/L		08/29/25 09:29	09/02/25 18:27	1
Chromium	**4.03**	**J**	5.00	3.69	ug/L		08/29/25 09:29	09/02/25 18:27	1
Cobalt	**1.72**	**J**	5.00	0.411	ug/L		08/29/25 09:29	09/02/25 18:27	1
Copper	**1.45**	**J**	2.00	0.642	ug/L		08/29/25 09:29	09/02/25 18:27	1
Lead	ND		1.00	0.864	ug/L		08/29/25 09:29	09/02/25 18:27	1
Manganese	**440**		5.00	1.29	ug/L		08/29/25 09:29	09/02/25 18:27	1
Nickel	**1.09**	**J**	5.00	0.422	ug/L		08/29/25 09:29	09/02/25 18:27	1
Selenium	ND		5.00	2.29	ug/L		08/29/25 09:29	09/02/25 18:27	1
Silver	ND		1.00	0.167	ug/L		08/29/25 09:29	09/02/25 18:27	1
Thallium	ND		1.00	0.190	ug/L		08/29/25 09:29	09/02/25 18:27	1
Vanadium	**1.61**	**J**	5.00	1.22	ug/L		08/29/25 09:29	09/02/25 18:27	1
Zinc	**454**		10.0	8.91	ug/L		08/29/25 09:29	09/02/25 18:27	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	*+ ^+	0.200	0.166	ug/L		09/05/25 15:04	09/05/25 23:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.0500	0.0200	mg/L			08/27/25 10:16	1
Nitrate as N (SM Nitrate by calc)	ND		0.100	0.0250	mg/L			08/28/25 11:50	1
Sulfate (SM 4500 SO4 E)	**13.3**	**F2**	5.00	1.40	mg/L			09/05/25 12:35	1

Client Sample ID: MW-3
Lab Sample ID: 752-36184-2

Date Collected: 08/25/25 13:31
Matrix: Water
Date Received: 08/26/25 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	10.0	ug/L			09/02/25 19:42	1
Benzene	ND		1.00	0.500	ug/L			09/02/25 19:42	1

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36184-1

Client Sample ID: MW-3
Date Collected: 08/25/25 13:31
Date Received: 08/26/25 08:35

Lab Sample ID: 752-36184-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		1.00	0.540	ug/L			09/02/25 19:42	1
Bromoform	ND		5.00	0.250	ug/L			09/02/25 19:42	1
Bromomethane	ND		1.00	0.980	ug/L			09/02/25 19:42	1
2-Butanone (MEK)	ND		25.0	2.60	ug/L			09/02/25 19:42	1
Carbon disulfide	ND		1.00	0.500	ug/L			09/02/25 19:42	1
Carbon tetrachloride	ND		1.00	0.190	ug/L			09/02/25 19:42	1
Chlorobenzene	ND		1.00	0.420	ug/L			09/02/25 19:42	1
Chlorobromomethane	ND		1.00	0.520	ug/L			09/02/25 19:42	1
Chlorodibromomethane	ND		1.00	0.240	ug/L			09/02/25 19:42	1
Chloroethane	ND		1.00	0.760	ug/L			09/02/25 19:42	1
Chloroform	ND		1.00	0.900	ug/L			09/02/25 19:42	1
Chloromethane	ND		1.00	0.400	ug/L			09/02/25 19:42	1
2-Chlorotoluene	ND		1.00	0.570	ug/L			09/02/25 19:42	1
4-Chlorotoluene	ND		1.00	0.560	ug/L			09/02/25 19:42	1
cis-1,2-Dichloroethene	ND		1.00	0.200	ug/L			09/02/25 19:42	1
cis-1,3-Dichloropropene	ND		5.00	0.500	ug/L			09/02/25 19:42	1
1,2-Dibromo-3-Chloropropane	ND		5.00	1.50	ug/L			09/02/25 19:42	1
Dibromomethane	ND		5.00	0.220	ug/L			09/02/25 19:42	1
1,2-Dichlorobenzene	ND		1.00	0.500	ug/L			09/02/25 19:42	1
1,3-Dichlorobenzene	ND		1.00	0.540	ug/L			09/02/25 19:42	1
1,4-Dichlorobenzene	ND		1.00	0.640	ug/L			09/02/25 19:42	1
Dichlorobromomethane	ND		1.00	0.500	ug/L			09/02/25 19:42	1
1,1-Dichloroethane	ND		1.00	0.500	ug/L			09/02/25 19:42	1
1,2-Dichloroethane	ND		1.00	0.550	ug/L			09/02/25 19:42	1
1,1-Dichloroethene	ND		1.00	0.500	ug/L			09/02/25 19:42	1
1,2-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 19:42	1
1,3-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 19:42	1
2,2-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 19:42	1
1,1-Dichloropropene	ND		1.00	0.0900	ug/L			09/02/25 19:42	1
Ethyl acetate	ND		10.0	6.14	ug/L			09/02/25 19:42	1
Ethylbenzene	ND		1.00	0.500	ug/L			09/02/25 19:42	1
Ethylene Dibromide	ND		1.00	0.230	ug/L			09/02/25 19:42	1
Hexachlorobutadiene	ND		5.00	0.900	ug/L			09/02/25 19:42	1
Hexane	ND		1.00	0.960	ug/L			09/02/25 19:42	1
2-Hexanone	ND		25.0	4.26	ug/L			09/02/25 19:42	1
Iodomethane	ND		1.00	0.900	ug/L			09/02/25 19:42	1
Isopropylbenzene	ND		1.00	0.530	ug/L			09/02/25 19:42	1
Isopropyl ether	ND		1.00	0.740	ug/L			09/02/25 19:42	1
4-Isopropyltoluene	ND		1.00	0.710	ug/L			09/02/25 19:42	1
Methylene Chloride	ND		5.00	3.00	ug/L			09/02/25 19:42	1
4-Methyl-2-pentanone (MIBK)	ND		25.0	1.80	ug/L			09/02/25 19:42	1
Methyl tert-butyl ether	ND		1.00	0.220	ug/L			09/02/25 19:42	1
m-Xylene & p-Xylene	ND		5.00	3.00	ug/L			09/02/25 19:42	1
Naphthalene	ND		5.00	3.00	ug/L			09/02/25 19:42	1
n-Butylbenzene	ND		1.00	0.760	ug/L			09/02/25 19:42	1
n-Heptane	ND		1.00	0.210	ug/L			09/02/25 19:42	1
N-Propylbenzene	ND		1.00	0.690	ug/L			09/02/25 19:42	1
o-Xylene	ND		5.00	3.00	ug/L			09/02/25 19:42	1
sec-Butylbenzene	ND		1.00	0.700	ug/L			09/02/25 19:42	1

Client Sample ID: MW-3
Date Collected: 08/25/25 13:31
Date Received: 08/26/25 08:35

Lab Sample ID: 752-36184-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.00	1.00	ug/L			09/02/25 19:42	1
tert-Butylbenzene	ND		1.00	0.630	ug/L			09/02/25 19:42	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.380	ug/L			09/02/25 19:42	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.500	ug/L			09/02/25 19:42	1
Tetrachloroethene	ND		1.00	0.330	ug/L			09/02/25 19:42	1
Toluene	ND		1.00	0.900	ug/L			09/02/25 19:42	1
trans-1,4-Dichloro-2-butene	ND		5.00	1.00	ug/L			09/02/25 19:42	1
trans-1,2-Dichloroethene	ND		1.00	0.500	ug/L			09/02/25 19:42	1
trans-1,3-Dichloropropene	ND		5.00	0.200	ug/L			09/02/25 19:42	1
1,2,3-Trichlorobenzene	ND		1.00	0.900	ug/L			09/02/25 19:42	1
1,2,4-Trichlorobenzene	ND		1.00	0.820	ug/L			09/02/25 19:42	1
1,1,1-Trichloroethane	ND		1.00	0.180	ug/L			09/02/25 19:42	1
1,1,2-Trichloroethane	ND		5.00	0.210	ug/L			09/02/25 19:42	1
Trichloroethene	ND		1.00	0.150	ug/L			09/02/25 19:42	1
Trichlorofluoromethane	ND		1.00	0.250	ug/L			09/02/25 19:42	1
1,2,3-Trichloropropane	ND		5.00	0.840	ug/L			09/02/25 19:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.500	ug/L			09/02/25 19:42	1
1,2,4-Trimethylbenzene	ND	*+	1.00	0.820	ug/L			09/02/25 19:42	1
1,3,5-Trimethylbenzene	ND		1.00	0.560	ug/L			09/02/25 19:42	1
Vinyl acetate	ND		25.0	0.930	ug/L			09/02/25 19:42	1
Vinyl chloride	ND		1.00	0.500	ug/L			09/02/25 19:42	1
Xylenes, Total	ND		10.0	6.00	ug/L			09/02/25 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*56 - 136*		*09/02/25 19:42*	*1*
Dibromofluoromethane	*100*		*79 - 130*		*09/02/25 19:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*59 - 146*		*09/02/25 19:42*	*1*
Toluene-d8 (Surr)	*104*		*64 - 132*		*09/02/25 19:42*	*1*

Method: SW846 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.65		0.291	0.291	ug/L		08/28/25 07:00	08/29/25 19:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*21*		*10 - 140*	*08/28/25 07:00*	*08/29/25 19:04*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		10.0	0.421	ug/L		08/28/25 07:00	08/29/25 01:10	1
2,4,5-Trichlorophenol	ND		10.0	0.542	ug/L		08/28/25 07:00	08/29/25 01:10	1
2,4,6-Trichlorophenol	ND		10.0	1.09	ug/L		08/28/25 07:00	08/29/25 01:10	1
2,4-Dichlorophenol	ND		10.0	0.572	ug/L		08/28/25 07:00	08/29/25 01:10	1
2,4-Dimethylphenol	ND		10.0	0.241	ug/L		08/28/25 07:00	08/29/25 01:10	1
2,4-Dinitrophenol	ND		30.1	4.70	ug/L		08/28/25 07:00	08/29/25 01:10	1
2,4-Dinitrotoluene	ND		10.0	0.652	ug/L		08/28/25 07:00	08/29/25 01:10	1
2,6-Dinitrotoluene	ND		10.0	0.291	ug/L		08/28/25 07:00	08/29/25 01:10	1
2-Chloronaphthalene	ND		10.0	0.381	ug/L		08/28/25 07:00	08/29/25 01:10	1
2-Chlorophenol	ND		10.0	0.843	ug/L		08/28/25 07:00	08/29/25 01:10	1
2-Methylnaphthalene	ND		10.0	0.813	ug/L		08/28/25 07:00	08/29/25 01:10	1
2-Methylphenol	ND		10.0	0.763	ug/L		08/28/25 07:00	08/29/25 01:10	1
2-Nitroaniline	ND		10.0	1.37	ug/L		08/28/25 07:00	08/29/25 01:10	1

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36184-1

Client Sample ID: MW-3
Date Collected: 08/25/25 13:31
Date Received: 08/26/25 08:35

Lab Sample ID: 752-36184-2
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	ND		10.0	1.17	ug/L		08/28/25 07:00	08/29/25 01:10	1
3 & 4 Methylphenol	ND		20.1	4.62	ug/L		08/28/25 07:00	08/29/25 01:10	1
3,3'-Dichlorobenzidine	ND		11.0	0.411	ug/L		08/28/25 07:00	08/29/25 01:10	1
3-Nitroaniline	ND		10.0	0.953	ug/L		08/28/25 07:00	08/29/25 01:10	1
4,6-Dinitro-2-methylphenol	ND		10.0	1.98	ug/L		08/28/25 07:00	08/29/25 01:10	1
4-Bromophenyl phenyl ether	ND		10.0	0.130	ug/L		08/28/25 07:00	08/29/25 01:10	1
4-Chloro-3-methylphenol	ND		10.0	0.732	ug/L		08/28/25 07:00	08/29/25 01:10	1
4-Chloroaniline	ND		10.0	0.582	ug/L		08/28/25 07:00	08/29/25 01:10	1
4-Chlorophenyl phenyl ether	ND		10.0	0.241	ug/L		08/28/25 07:00	08/29/25 01:10	1
4-Nitroaniline	ND		10.0	3.51	ug/L		08/28/25 07:00	08/29/25 01:10	1
4-Nitrophenol	ND		10.0	2.75	ug/L		08/28/25 07:00	08/29/25 01:10	1
Acenaphthene	ND		10.0	0.632	ug/L		08/28/25 07:00	08/29/25 01:10	1
Acenaphthylene	ND		10.0	0.763	ug/L		08/28/25 07:00	08/29/25 01:10	1
Acetophenone	ND		10.0	3.21	ug/L		08/28/25 07:00	08/29/25 01:10	1
Anthracene	ND		10.0	0.913	ug/L		08/28/25 07:00	08/29/25 01:10	1
Atrazine	ND		10.0	1.13	ug/L		08/28/25 07:00	08/29/25 01:10	1
Benzaldehyde	ND		10.0	0.672	ug/L		08/28/25 07:00	08/29/25 01:10	1
Benzo[a]anthracene	ND		10.0	1.00	ug/L		08/28/25 07:00	08/29/25 01:10	1
Benzo[a]pyrene	ND		10.0	1.10	ug/L		08/28/25 07:00	08/29/25 01:10	1
Benzo[b]fluoranthene	ND		10.0	1.20	ug/L		08/28/25 07:00	08/29/25 01:10	1
Benzo[g,h,i]perylene	ND		10.0	1.51	ug/L		08/28/25 07:00	08/29/25 01:10	1
Benzo[k]fluoranthene	ND		10.0	1.51	ug/L		08/28/25 07:00	08/29/25 01:10	1
bis (2-chloroisopropyl) ether	ND		10.0	0.933	ug/L		08/28/25 07:00	08/29/25 01:10	1
Bis(2-chloroethoxy)methane	ND		10.0	0.341	ug/L		08/28/25 07:00	08/29/25 01:10	1
Bis(2-chloroethyl)ether	ND		10.0	0.732	ug/L		08/28/25 07:00	08/29/25 01:10	1
Bis(2-ethylhexyl) phthalate	ND		10.0	4.01	ug/L		08/28/25 07:00	08/29/25 01:10	1
Butyl benzyl phthalate	ND		10.0	4.01	ug/L		08/28/25 07:00	08/29/25 01:10	1
Caprolactam	ND		10.0	2.41	ug/L		08/28/25 07:00	08/29/25 01:10	1
Carbazole	ND		10.0	0.321	ug/L		08/28/25 07:00	08/29/25 01:10	1
Chrysene	ND		10.0	1.20	ug/L		08/28/25 07:00	08/29/25 01:10	1
Dibenz(a,h)anthracene	ND		10.0	1.30	ug/L		08/28/25 07:00	08/29/25 01:10	1
Dibenzofuran	ND		10.0	0.642	ug/L		08/28/25 07:00	08/29/25 01:10	1
Diethyl phthalate	ND		10.0	4.01	ug/L		08/28/25 07:00	08/29/25 01:10	1
Dimethyl phthalate	ND		10.0	4.01	ug/L		08/28/25 07:00	08/29/25 01:10	1
Di-n-butyl phthalate	ND		10.0	8.22	ug/L		08/28/25 07:00	08/29/25 01:10	1
Di-n-octyl phthalate	ND		10.0	4.01	ug/L		08/28/25 07:00	08/29/25 01:10	1
Fluoranthene	ND		10.0	0.632	ug/L		08/28/25 07:00	08/29/25 01:10	1
Fluorene	ND		10.0	0.672	ug/L		08/28/25 07:00	08/29/25 01:10	1
Hexachlorobenzene	ND		10.0	0.251	ug/L		08/28/25 07:00	08/29/25 01:10	1
Hexachlorobutadiene	ND		10.0	0.552	ug/L		08/28/25 07:00	08/29/25 01:10	1
Hexachlorocyclopentadiene	ND		20.1	0.321	ug/L		08/28/25 07:00	08/29/25 01:10	1
Hexachloroethane	ND		10.0	0.532	ug/L		08/28/25 07:00	08/29/25 01:10	1
Indeno[1,2,3-cd]pyrene	ND		10.0	1.10	ug/L		08/28/25 07:00	08/29/25 01:10	1
Isophorone	ND		10.0	0.803	ug/L		08/28/25 07:00	08/29/25 01:10	1
Naphthalene	ND		10.0	0.753	ug/L		08/28/25 07:00	08/29/25 01:10	1
Nitrobenzene	ND		10.0	0.602	ug/L		08/28/25 07:00	08/29/25 01:10	1
N-Nitrosodi-n-propylamine	ND		10.0	0.331	ug/L		08/28/25 07:00	08/29/25 01:10	1
N-Nitrosodiphenylamine	ND		10.0	0.191	ug/L		08/28/25 07:00	08/29/25 01:10	1
Pentachlorophenol	ND		10.0	2.81	ug/L		08/28/25 07:00	08/29/25 01:10	1

Client Sample ID: MW-3

Lab Sample ID: 752-36184-2

Date Collected: 08/25/25 13:31

Matrix: Water

Date Received: 08/26/25 08:35

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	ND		10.0	0.742	ug/L		08/28/25 07:00	08/29/25 01:10	1
Phenol	**1.56**	**J**	10.0	0.682	ug/L		08/28/25 07:00	08/29/25 01:10	1
Pyrene	ND		10.0	0.632	ug/L		08/28/25 07:00	08/29/25 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*10 - 150*	*08/28/25 07:00*	*08/29/25 01:10*	*1*
2-Fluorobiphenyl (Surr)	*73*		*25 - 139*	*08/28/25 07:00*	*08/29/25 01:10*	*1*
2-Fluorophenol (Surr)	*83*		*10 - 150*	*08/28/25 07:00*	*08/29/25 01:10*	*1*
Nitrobenzene-d5 (Surr)	*85*		*22 - 150*	*08/28/25 07:00*	*08/29/25 01:10*	*1*
Phenol-d5 (Surr)	*76*		*10 - 150*	*08/28/25 07:00*	*08/29/25 01:10*	*1*
Terphenyl-d14 (Surr)	*60*		*28 - 150*	*08/28/25 07:00*	*08/29/25 01:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	2.45	ug/L		08/29/25 09:29	09/02/25 18:29	1
Arsenic	**2.36**	**J**	5.00	1.32	ug/L		08/29/25 09:29	09/02/25 18:29	1
Barium	**203**		10.0	0.410	ug/L		08/29/25 09:29	09/02/25 18:29	1
Beryllium	ND		1.00	0.147	ug/L		08/29/25 09:29	09/02/25 18:29	1
Cadmium	ND		0.700	0.237	ug/L		08/29/25 09:29	09/02/25 18:29	1
Chromium	**5.75**		5.00	3.69	ug/L		08/29/25 09:29	09/02/25 18:29	1
Cobalt	**4.24**	**J**	5.00	0.411	ug/L		08/29/25 09:29	09/02/25 18:29	1
Copper	**2.51**		2.00	0.642	ug/L		08/29/25 09:29	09/02/25 18:29	1
Lead	ND		1.00	0.864	ug/L		08/29/25 09:29	09/02/25 18:29	1
Manganese	**667**		5.00	1.29	ug/L		08/29/25 09:29	09/02/25 18:29	1
Nickel	**2.59**	**J**	5.00	0.422	ug/L		08/29/25 09:29	09/02/25 18:29	1
Selenium	ND		5.00	2.29	ug/L		08/29/25 09:29	09/02/25 18:29	1
Silver	ND		1.00	0.167	ug/L		08/29/25 09:29	09/02/25 18:29	1
Thallium	ND		1.00	0.190	ug/L		08/29/25 09:29	09/02/25 18:29	1
Vanadium	**6.44**		5.00	1.22	ug/L		08/29/25 09:29	09/02/25 18:29	1
Zinc	**14.8**		10.0	8.91	ug/L		08/29/25 09:29	09/02/25 18:29	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	*+ ^+	0.200	0.166	ug/L		09/05/25 15:04	09/05/25 23:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.127**		0.0500	0.0200	mg/L			08/27/25 10:18	1
Nitrate as N (SM Nitrate by calc)	ND		0.100	0.0250	mg/L			08/28/25 11:50	1
Sulfate (SM 4500 SO4 E)	**16.3**	**F1 F2**	5.00	1.40	mg/L			09/05/25 15:30	1

Client Sample ID: MW-4

Lab Sample ID: 752-36184-3

Date Collected: 08/25/25 15:37

Matrix: Water

Date Received: 08/26/25 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	10.0	ug/L			09/02/25 20:03	1
Benzene	ND		1.00	0.500	ug/L			09/02/25 20:03	1
Bromobenzene	ND		1.00	0.540	ug/L			09/02/25 20:03	1
Bromoform	ND		5.00	0.250	ug/L			09/02/25 20:03	1

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36184-1

Client Sample ID: MW-4
Date Collected: 08/25/25 15:37
Date Received: 08/26/25 08:35

Lab Sample ID: 752-36184-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.00	0.980	ug/L			09/02/25 20:03	1
2-Butanone (MEK)	ND		25.0	2.60	ug/L			09/02/25 20:03	1
Carbon disulfide	ND		1.00	0.500	ug/L			09/02/25 20:03	1
Carbon tetrachloride	ND		1.00	0.190	ug/L			09/02/25 20:03	1
Chlorobenzene	ND		1.00	0.420	ug/L			09/02/25 20:03	1
Chlorobromomethane	ND		1.00	0.520	ug/L			09/02/25 20:03	1
Chlorodibromomethane	ND		1.00	0.240	ug/L			09/02/25 20:03	1
Chloroethane	ND		1.00	0.760	ug/L			09/02/25 20:03	1
Chloroform	ND		1.00	0.900	ug/L			09/02/25 20:03	1
Chloromethane	ND		1.00	0.400	ug/L			09/02/25 20:03	1
2-Chlorotoluene	ND		1.00	0.570	ug/L			09/02/25 20:03	1
4-Chlorotoluene	ND		1.00	0.560	ug/L			09/02/25 20:03	1
cis-1,2-Dichloroethene	ND		1.00	0.200	ug/L			09/02/25 20:03	1
cis-1,3-Dichloropropene	ND		5.00	0.500	ug/L			09/02/25 20:03	1
1,2-Dibromo-3-Chloropropane	ND		5.00	1.50	ug/L			09/02/25 20:03	1
Dibromomethane	ND		5.00	0.220	ug/L			09/02/25 20:03	1
1,2-Dichlorobenzene	ND		1.00	0.500	ug/L			09/02/25 20:03	1
1,3-Dichlorobenzene	ND		1.00	0.540	ug/L			09/02/25 20:03	1
1,4-Dichlorobenzene	ND		1.00	0.640	ug/L			09/02/25 20:03	1
Dichlorobromomethane	ND		1.00	0.500	ug/L			09/02/25 20:03	1
1,1-Dichloroethane	ND		1.00	0.500	ug/L			09/02/25 20:03	1
1,2-Dichloroethane	ND		1.00	0.550	ug/L			09/02/25 20:03	1
1,1-Dichloroethene	ND		1.00	0.500	ug/L			09/02/25 20:03	1
1,2-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 20:03	1
1,3-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 20:03	1
2,2-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 20:03	1
1,1-Dichloropropene	ND		1.00	0.0900	ug/L			09/02/25 20:03	1
Ethyl acetate	ND		10.0	6.14	ug/L			09/02/25 20:03	1
Ethylbenzene	ND		1.00	0.500	ug/L			09/02/25 20:03	1
Ethylene Dibromide	ND		1.00	0.230	ug/L			09/02/25 20:03	1
Hexachlorobutadiene	ND		5.00	0.900	ug/L			09/02/25 20:03	1
Hexane	ND		1.00	0.960	ug/L			09/02/25 20:03	1
2-Hexanone	ND		25.0	4.26	ug/L			09/02/25 20:03	1
Iodomethane	ND		1.00	0.900	ug/L			09/02/25 20:03	1
Isopropylbenzene	ND		1.00	0.530	ug/L			09/02/25 20:03	1
Isopropyl ether	ND		1.00	0.740	ug/L			09/02/25 20:03	1
4-Isopropyltoluene	ND		1.00	0.710	ug/L			09/02/25 20:03	1
Methylene Chloride	ND		5.00	3.00	ug/L			09/02/25 20:03	1
4-Methyl-2-pentanone (MIBK)	ND		25.0	1.80	ug/L			09/02/25 20:03	1
Methyl tert-butyl ether	ND		1.00	0.220	ug/L			09/02/25 20:03	1
m-Xylene & p-Xylene	ND		5.00	3.00	ug/L			09/02/25 20:03	1
Naphthalene	ND		5.00	3.00	ug/L			09/02/25 20:03	1
n-Butylbenzene	ND		1.00	0.760	ug/L			09/02/25 20:03	1
n-Heptane	ND		1.00	0.210	ug/L			09/02/25 20:03	1
N-Propylbenzene	ND		1.00	0.690	ug/L			09/02/25 20:03	1
o-Xylene	ND		5.00	3.00	ug/L			09/02/25 20:03	1
sec-Butylbenzene	ND		1.00	0.700	ug/L			09/02/25 20:03	1
Styrene	ND		1.00	1.00	ug/L			09/02/25 20:03	1
tert-Butylbenzene	ND		1.00	0.630	ug/L			09/02/25 20:03	1

Client Sample ID: MW-4
Lab Sample ID: 752-36184-3
Date Collected: 08/25/25 15:37
Matrix: Water
Date Received: 08/26/25 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.00	0.380	ug/L			09/02/25 20:03	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.500	ug/L			09/02/25 20:03	1
Tetrachloroethene	ND		1.00	0.330	ug/L			09/02/25 20:03	1
Toluene	ND		1.00	0.900	ug/L			09/02/25 20:03	1
trans-1,4-Dichloro-2-butene	ND		5.00	1.00	ug/L			09/02/25 20:03	1
trans-1,2-Dichloroethene	ND		1.00	0.500	ug/L			09/02/25 20:03	1
trans-1,3-Dichloropropene	ND		5.00	0.200	ug/L			09/02/25 20:03	1
1,2,3-Trichlorobenzene	ND		1.00	0.900	ug/L			09/02/25 20:03	1
1,2,4-Trichlorobenzene	ND		1.00	0.820	ug/L			09/02/25 20:03	1
1,1,1-Trichloroethane	ND		1.00	0.180	ug/L			09/02/25 20:03	1
1,1,2-Trichloroethane	ND		5.00	0.210	ug/L			09/02/25 20:03	1
Trichloroethene	ND		1.00	0.150	ug/L			09/02/25 20:03	1
Trichlorofluoromethane	ND		1.00	0.250	ug/L			09/02/25 20:03	1
1,2,3-Trichloropropane	ND		5.00	0.840	ug/L			09/02/25 20:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.500	ug/L			09/02/25 20:03	1
1,2,4-Trimethylbenzene	ND	*+	1.00	0.820	ug/L			09/02/25 20:03	1
1,3,5-Trimethylbenzene	ND		1.00	0.560	ug/L			09/02/25 20:03	1
Vinyl acetate	ND		25.0	0.930	ug/L			09/02/25 20:03	1
Vinyl chloride	ND		1.00	0.500	ug/L			09/02/25 20:03	1
Xylenes, Total	ND		10.0	6.00	ug/L			09/02/25 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*56 - 136*		*09/02/25 20:03*	*1*
Dibromofluoromethane	*100*		*79 - 130*		*09/02/25 20:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*59 - 146*		*09/02/25 20:03*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*09/02/25 20:03*	*1*

Method: SW846 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.284	0.284	ug/L		08/28/25 07:00	08/29/25 19:26	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*24*		*10 - 140*	*08/28/25 07:00*	*08/29/25 19:26*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		10.1	0.423	ug/L		08/28/25 07:00	08/29/25 01:43	1
2,4,5-Trichlorophenol	ND		10.1	0.544	ug/L		08/28/25 07:00	08/29/25 01:43	1
2,4,6-Trichlorophenol	ND		10.1	1.10	ug/L		08/28/25 07:00	08/29/25 01:43	1
2,4-Dichlorophenol	ND		10.1	0.574	ug/L		08/28/25 07:00	08/29/25 01:43	1
2,4-Dimethylphenol	ND		10.1	0.242	ug/L		08/28/25 07:00	08/29/25 01:43	1
2,4-Dinitrophenol	ND		30.2	4.71	ug/L		08/28/25 07:00	08/29/25 01:43	1
2,4-Dinitrotoluene	ND		10.1	0.654	ug/L		08/28/25 07:00	08/29/25 01:43	1
2,6-Dinitrotoluene	ND		10.1	0.292	ug/L		08/28/25 07:00	08/29/25 01:43	1
2-Chloronaphthalene	ND		10.1	0.383	ug/L		08/28/25 07:00	08/29/25 01:43	1
2-Chlorophenol	ND		10.1	0.846	ug/L		08/28/25 07:00	08/29/25 01:43	1
2-Methylnaphthalene	ND		10.1	0.815	ug/L		08/28/25 07:00	08/29/25 01:43	1
2-Methylphenol	ND		10.1	0.765	ug/L		08/28/25 07:00	08/29/25 01:43	1
2-Nitroaniline	ND		10.1	1.38	ug/L		08/28/25 07:00	08/29/25 01:43	1
2-Nitrophenol	ND		10.1	1.18	ug/L		08/28/25 07:00	08/29/25 01:43	1
3 & 4 Methylphenol	ND		20.1	4.63	ug/L		08/28/25 07:00	08/29/25 01:43	1

Client Sample ID: MW-4
Date Collected: 08/25/25 15:37
Date Received: 08/26/25 08:35

Lab Sample ID: 752-36184-3
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3,3'-Dichlorobenzidine	ND		11.1	0.413	ug/L		08/28/25 07:00	08/29/25 01:43	1
3-Nitroaniline	ND		10.1	0.956	ug/L		08/28/25 07:00	08/29/25 01:43	1
4,6-Dinitro-2-methylphenol	ND		10.1	1.98	ug/L		08/28/25 07:00	08/29/25 01:43	1
4-Bromophenyl phenyl ether	ND		10.1	0.131	ug/L		08/28/25 07:00	08/29/25 01:43	1
4-Chloro-3-methylphenol	ND		10.1	0.735	ug/L		08/28/25 07:00	08/29/25 01:43	1
4-Chloroaniline	ND		10.1	0.584	ug/L		08/28/25 07:00	08/29/25 01:43	1
4-Chlorophenyl phenyl ether	ND		10.1	0.242	ug/L		08/28/25 07:00	08/29/25 01:43	1
4-Nitroaniline	ND		10.1	3.52	ug/L		08/28/25 07:00	08/29/25 01:43	1
4-Nitrophenol	ND		10.1	2.76	ug/L		08/28/25 07:00	08/29/25 01:43	1
Acenaphthene	ND		10.1	0.634	ug/L		08/28/25 07:00	08/29/25 01:43	1
Acenaphthylene	ND		10.1	0.765	ug/L		08/28/25 07:00	08/29/25 01:43	1
Acetophenone	ND		10.1	3.22	ug/L		08/28/25 07:00	08/29/25 01:43	1
Anthracene	ND		10.1	0.916	ug/L		08/28/25 07:00	08/29/25 01:43	1
Atrazine	ND		10.1	1.14	ug/L		08/28/25 07:00	08/29/25 01:43	1
Benzaldehyde	ND		10.1	0.674	ug/L		08/28/25 07:00	08/29/25 01:43	1
Benzo[a]anthracene	ND		10.1	1.01	ug/L		08/28/25 07:00	08/29/25 01:43	1
Benzo[a]pyrene	ND		10.1	1.11	ug/L		08/28/25 07:00	08/29/25 01:43	1
Benzo[b]fluoranthene	ND		10.1	1.21	ug/L		08/28/25 07:00	08/29/25 01:43	1
Benzo[g,h,i]perylene	ND		10.1	1.51	ug/L		08/28/25 07:00	08/29/25 01:43	1
Benzo[k]fluoranthene	ND		10.1	1.51	ug/L		08/28/25 07:00	08/29/25 01:43	1
bis (2-chloroisopropyl) ether	ND		10.1	0.936	ug/L		08/28/25 07:00	08/29/25 01:43	1
Bis(2-chloroethoxy)methane	ND		10.1	0.342	ug/L		08/28/25 07:00	08/29/25 01:43	1
Bis(2-chloroethyl)ether	ND		10.1	0.735	ug/L		08/28/25 07:00	08/29/25 01:43	1
Bis(2-ethylhexyl) phthalate	ND		10.1	4.03	ug/L		08/28/25 07:00	08/29/25 01:43	1
Butyl benzyl phthalate	ND		10.1	4.03	ug/L		08/28/25 07:00	08/29/25 01:43	1
Caprolactam	ND		10.1	2.42	ug/L		08/28/25 07:00	08/29/25 01:43	1
Carbazole	ND		10.1	0.322	ug/L		08/28/25 07:00	08/29/25 01:43	1
Chrysene	ND		10.1	1.21	ug/L		08/28/25 07:00	08/29/25 01:43	1
Dibenz(a,h)anthracene	ND		10.1	1.31	ug/L		08/28/25 07:00	08/29/25 01:43	1
Dibenzofuran	ND		10.1	0.644	ug/L		08/28/25 07:00	08/29/25 01:43	1
Diethyl phthalate	ND		10.1	4.03	ug/L		08/28/25 07:00	08/29/25 01:43	1
Dimethyl phthalate	ND		10.1	4.03	ug/L		08/28/25 07:00	08/29/25 01:43	1
Di-n-butyl phthalate	ND		10.1	8.24	ug/L		08/28/25 07:00	08/29/25 01:43	1
Di-n-octyl phthalate	ND		10.1	4.03	ug/L		08/28/25 07:00	08/29/25 01:43	1
Fluoranthene	ND		10.1	0.634	ug/L		08/28/25 07:00	08/29/25 01:43	1
Fluorene	ND		10.1	0.674	ug/L		08/28/25 07:00	08/29/25 01:43	1
Hexachlorobenzene	ND		10.1	0.252	ug/L		08/28/25 07:00	08/29/25 01:43	1
Hexachlorobutadiene	ND		10.1	0.554	ug/L		08/28/25 07:00	08/29/25 01:43	1
Hexachlorocyclopentadiene	ND		20.1	0.322	ug/L		08/28/25 07:00	08/29/25 01:43	1
Hexachloroethane	ND		10.1	0.534	ug/L		08/28/25 07:00	08/29/25 01:43	1
Indeno[1,2,3-cd]pyrene	ND		10.1	1.11	ug/L		08/28/25 07:00	08/29/25 01:43	1
Isophorone	ND		10.1	0.805	ug/L		08/28/25 07:00	08/29/25 01:43	1
Naphthalene	ND		10.1	0.755	ug/L		08/28/25 07:00	08/29/25 01:43	1
Nitrobenzene	ND		10.1	0.604	ug/L		08/28/25 07:00	08/29/25 01:43	1
N-Nitrosodi-n-propylamine	ND		10.1	0.332	ug/L		08/28/25 07:00	08/29/25 01:43	1
N-Nitrosodiphenylamine	ND		10.1	0.191	ug/L		08/28/25 07:00	08/29/25 01:43	1
Pentachlorophenol	ND		10.1	2.82	ug/L		08/28/25 07:00	08/29/25 01:43	1
Phenanthrene	ND		10.1	0.745	ug/L		08/28/25 07:00	08/29/25 01:43	1
Phenol	ND		10.1	0.685	ug/L		08/28/25 07:00	08/29/25 01:43	1

Client Sample ID: MW-4

Lab Sample ID: 752-36184-3

Date Collected: 08/25/25 15:37

Matrix: Water

Date Received: 08/26/25 08:35

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		10.1	0.634	ug/L		08/28/25 07:00	08/29/25 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*80*		*10 - 150*	*08/28/25 07:00*	*08/29/25 01:43*	*1*
2-Fluorobiphenyl (Surr)	*68*		*25 - 139*	*08/28/25 07:00*	*08/29/25 01:43*	*1*
2-Fluorophenol (Surr)	*79*		*10 - 150*	*08/28/25 07:00*	*08/29/25 01:43*	*1*
Nitrobenzene-d5 (Surr)	*79*		*22 - 150*	*08/28/25 07:00*	*08/29/25 01:43*	*1*
Phenol-d5 (Surr)	*70*		*10 - 150*	*08/28/25 07:00*	*08/29/25 01:43*	*1*
Terphenyl-d14 (Surr)	*57*		*28 - 150*	*08/28/25 07:00*	*08/29/25 01:43*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	2.45	ug/L		08/29/25 09:29	09/02/25 17:40	1
Arsenic	ND		5.00	1.32	ug/L		08/29/25 09:29	09/02/25 17:40	1
Barium	**150**		10.0	0.410	ug/L		08/29/25 09:29	09/02/25 17:40	1
Beryllium	ND		1.00	0.147	ug/L		08/29/25 09:29	09/02/25 17:40	1
Cadmium	ND		0.700	0.237	ug/L		08/29/25 09:29	09/02/25 17:40	1
Chromium	ND		5.00	3.69	ug/L		08/29/25 09:29	09/02/25 17:40	1
Cobalt	**4.24**	**J**	5.00	0.411	ug/L		08/29/25 09:29	09/02/25 17:40	1
Copper	**1.14**	**J**	2.00	0.642	ug/L		08/29/25 09:29	09/02/25 17:40	1
Lead	ND		1.00	0.864	ug/L		08/29/25 09:29	09/02/25 17:40	1
Manganese	**1530**		5.00	1.29	ug/L		08/29/25 09:29	09/02/25 17:40	1
Nickel	**1.75**	**J**	5.00	0.422	ug/L		08/29/25 09:29	09/02/25 17:40	1
Selenium	ND		5.00	2.29	ug/L		08/29/25 09:29	09/02/25 17:40	1
Silver	ND		1.00	0.167	ug/L		08/29/25 09:29	09/02/25 17:40	1
Thallium	ND		1.00	0.190	ug/L		08/29/25 09:29	09/02/25 17:40	1
Vanadium	ND		5.00	1.22	ug/L		08/29/25 09:29	09/02/25 17:40	1
Zinc	ND		10.0	8.91	ug/L		08/29/25 09:29	09/02/25 17:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	*+ ^+	0.200	0.166	ug/L		09/05/25 15:04	09/06/25 00:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	ND		0.0500	0.0200	mg/L			08/27/25 10:20	1
Nitrate as N (SM Nitrate by calc)	ND		0.100	0.0250	mg/L			08/28/25 11:50	1
Sulfate (SM 4500 SO4 E)	ND		5.00	1.40	mg/L			09/05/25 12:37	1

Client Sample ID: MW-5

Lab Sample ID: 752-36184-4

Date Collected: 08/25/25 17:07

Matrix: Water

Date Received: 08/26/25 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	10.0	ug/L			09/02/25 20:24	1
Benzene	ND		1.00	0.500	ug/L			09/02/25 20:24	1
Bromobenzene	ND		1.00	0.540	ug/L			09/02/25 20:24	1
Bromoform	ND		5.00	0.250	ug/L			09/02/25 20:24	1
Bromomethane	ND		1.00	0.980	ug/L			09/02/25 20:24	1
2-Butanone (MEK)	ND		25.0	2.60	ug/L			09/02/25 20:24	1

Client Sample ID: MW-5
Date Collected: 08/25/25 17:07
Date Received: 08/26/25 08:35

Lab Sample ID: 752-36184-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.00	0.500	ug/L			09/02/25 20:24	1
Carbon tetrachloride	ND		1.00	0.190	ug/L			09/02/25 20:24	1
Chlorobenzene	ND		1.00	0.420	ug/L			09/02/25 20:24	1
Chlorobromomethane	ND		1.00	0.520	ug/L			09/02/25 20:24	1
Chlorodibromomethane	ND		1.00	0.240	ug/L			09/02/25 20:24	1
Chloroethane	ND		1.00	0.760	ug/L			09/02/25 20:24	1
Chloroform	ND		1.00	0.900	ug/L			09/02/25 20:24	1
Chloromethane	ND		1.00	0.400	ug/L			09/02/25 20:24	1
2-Chlorotoluene	ND		1.00	0.570	ug/L			09/02/25 20:24	1
4-Chlorotoluene	ND		1.00	0.560	ug/L			09/02/25 20:24	1
cis-1,2-Dichloroethene	ND		1.00	0.200	ug/L			09/02/25 20:24	1
cis-1,3-Dichloropropene	ND		5.00	0.500	ug/L			09/02/25 20:24	1
1,2-Dibromo-3-Chloropropane	ND		5.00	1.50	ug/L			09/02/25 20:24	1
Dibromomethane	ND		5.00	0.220	ug/L			09/02/25 20:24	1
1,2-Dichlorobenzene	ND		1.00	0.500	ug/L			09/02/25 20:24	1
1,3-Dichlorobenzene	ND		1.00	0.540	ug/L			09/02/25 20:24	1
1,4-Dichlorobenzene	ND		1.00	0.640	ug/L			09/02/25 20:24	1
Dichlorobromomethane	ND		1.00	0.500	ug/L			09/02/25 20:24	1
1,1-Dichloroethane	ND		1.00	0.500	ug/L			09/02/25 20:24	1
1,2-Dichloroethane	ND		1.00	0.550	ug/L			09/02/25 20:24	1
1,1-Dichloroethene	ND		1.00	0.500	ug/L			09/02/25 20:24	1
1,2-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 20:24	1
1,3-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 20:24	1
2,2-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 20:24	1
1,1-Dichloropropene	ND		1.00	0.0900	ug/L			09/02/25 20:24	1
Ethyl acetate	ND		10.0	6.14	ug/L			09/02/25 20:24	1
Ethylbenzene	ND		1.00	0.500	ug/L			09/02/25 20:24	1
Ethylene Dibromide	ND		1.00	0.230	ug/L			09/02/25 20:24	1
Hexachlorobutadiene	ND		5.00	0.900	ug/L			09/02/25 20:24	1
Hexane	ND		1.00	0.960	ug/L			09/02/25 20:24	1
2-Hexanone	ND		25.0	4.26	ug/L			09/02/25 20:24	1
Iodomethane	ND		1.00	0.900	ug/L			09/02/25 20:24	1
Isopropylbenzene	ND		1.00	0.530	ug/L			09/02/25 20:24	1
Isopropyl ether	ND		1.00	0.740	ug/L			09/02/25 20:24	1
4-Isopropyltoluene	ND		1.00	0.710	ug/L			09/02/25 20:24	1
Methylene Chloride	ND		5.00	3.00	ug/L			09/02/25 20:24	1
4-Methyl-2-pentanone (MIBK)	ND		25.0	1.80	ug/L			09/02/25 20:24	1
Methyl tert-butyl ether	ND		1.00	0.220	ug/L			09/02/25 20:24	1
m-Xylene & p-Xylene	ND		5.00	3.00	ug/L			09/02/25 20:24	1
Naphthalene	ND		5.00	3.00	ug/L			09/02/25 20:24	1
n-Butylbenzene	ND		1.00	0.760	ug/L			09/02/25 20:24	1
n-Heptane	ND		1.00	0.210	ug/L			09/02/25 20:24	1
N-Propylbenzene	ND		1.00	0.690	ug/L			09/02/25 20:24	1
o-Xylene	ND		5.00	3.00	ug/L			09/02/25 20:24	1
sec-Butylbenzene	ND		1.00	0.700	ug/L			09/02/25 20:24	1
Styrene	ND		1.00	1.00	ug/L			09/02/25 20:24	1
tert-Butylbenzene	ND		1.00	0.630	ug/L			09/02/25 20:24	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.380	ug/L			09/02/25 20:24	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.500	ug/L			09/02/25 20:24	1

Client Sample ID: MW-5
Date Collected: 08/25/25 17:07
Date Received: 08/26/25 08:35

Lab Sample ID: 752-36184-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.00	0.330	ug/L			09/02/25 20:24	1
Toluene	ND		1.00	0.900	ug/L			09/02/25 20:24	1
trans-1,4-Dichloro-2-butene	ND		5.00	1.00	ug/L			09/02/25 20:24	1
trans-1,2-Dichloroethene	ND		1.00	0.500	ug/L			09/02/25 20:24	1
trans-1,3-Dichloropropene	ND		5.00	0.200	ug/L			09/02/25 20:24	1
1,2,3-Trichlorobenzene	ND		1.00	0.900	ug/L			09/02/25 20:24	1
1,2,4-Trichlorobenzene	ND		1.00	0.820	ug/L			09/02/25 20:24	1
1,1,1-Trichloroethane	ND		1.00	0.180	ug/L			09/02/25 20:24	1
1,1,2-Trichloroethane	ND		5.00	0.210	ug/L			09/02/25 20:24	1
Trichloroethene	ND		1.00	0.150	ug/L			09/02/25 20:24	1
Trichlorofluoromethane	ND		1.00	0.250	ug/L			09/02/25 20:24	1
1,2,3-Trichloropropane	ND		5.00	0.840	ug/L			09/02/25 20:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.500	ug/L			09/02/25 20:24	1
1,2,4-Trimethylbenzene	ND	*+	1.00	0.820	ug/L			09/02/25 20:24	1
1,3,5-Trimethylbenzene	ND		1.00	0.560	ug/L			09/02/25 20:24	1
Vinyl acetate	ND		25.0	0.930	ug/L			09/02/25 20:24	1
Vinyl chloride	ND		1.00	0.500	ug/L			09/02/25 20:24	1
Xylenes, Total	ND		10.0	6.00	ug/L			09/02/25 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*56 - 136*		*09/02/25 20:24*	*1*
Dibromofluoromethane	*101*		*79 - 130*		*09/02/25 20:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*59 - 146*		*09/02/25 20:24*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*09/02/25 20:24*	*1*

Method: SW846 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.290	0.290	ug/L		08/28/25 07:00	08/29/25 19:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*23*		*10 - 140*	*08/28/25 07:00*	*08/29/25 19:48*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		10.1	0.424	ug/L		08/28/25 07:00	08/29/25 02:17	1
2,4,5-Trichlorophenol	ND		10.1	0.545	ug/L		08/28/25 07:00	08/29/25 02:17	1
2,4,6-Trichlorophenol	ND		10.1	1.10	ug/L		08/28/25 07:00	08/29/25 02:17	1
2,4-Dichlorophenol	ND		10.1	0.576	ug/L		08/28/25 07:00	08/29/25 02:17	1
2,4-Dimethylphenol	ND		10.1	0.242	ug/L		08/28/25 07:00	08/29/25 02:17	1
2,4-Dinitrophenol	ND		30.3	4.73	ug/L		08/28/25 07:00	08/29/25 02:17	1
2,4-Dinitrotoluene	ND		10.1	0.657	ug/L		08/28/25 07:00	08/29/25 02:17	1
2,6-Dinitrotoluene	ND		10.1	0.293	ug/L		08/28/25 07:00	08/29/25 02:17	1
2-Chloronaphthalene	ND		10.1	0.384	ug/L		08/28/25 07:00	08/29/25 02:17	1
2-Chlorophenol	ND		10.1	0.848	ug/L		08/28/25 07:00	08/29/25 02:17	1
2-Methylnaphthalene	ND		10.1	0.818	ug/L		08/28/25 07:00	08/29/25 02:17	1
2-Methylphenol	ND		10.1	0.768	ug/L		08/28/25 07:00	08/29/25 02:17	1
2-Nitroaniline	ND		10.1	1.38	ug/L		08/28/25 07:00	08/29/25 02:17	1
2-Nitrophenol	ND		10.1	1.18	ug/L		08/28/25 07:00	08/29/25 02:17	1
3 & 4 Methylphenol	ND		20.2	4.65	ug/L		08/28/25 07:00	08/29/25 02:17	1
3,3'-Dichlorobenzidine	ND		11.1	0.414	ug/L		08/28/25 07:00	08/29/25 02:17	1
3-Nitroaniline	ND		10.1	0.960	ug/L		08/28/25 07:00	08/29/25 02:17	1

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36184-1

Client Sample ID: MW-5
Date Collected: 08/25/25 17:07
Date Received: 08/26/25 08:35

Lab Sample ID: 752-36184-4
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND		10.1	1.99	ug/L		08/28/25 07:00	08/29/25 02:17	1
4-Bromophenyl phenyl ether	ND		10.1	0.131	ug/L		08/28/25 07:00	08/29/25 02:17	1
4-Chloro-3-methylphenol	ND		10.1	0.737	ug/L		08/28/25 07:00	08/29/25 02:17	1
4-Chloroaniline	ND		10.1	0.586	ug/L		08/28/25 07:00	08/29/25 02:17	1
4-Chlorophenyl phenyl ether	ND		10.1	0.242	ug/L		08/28/25 07:00	08/29/25 02:17	1
4-Nitroaniline	ND		10.1	3.54	ug/L		08/28/25 07:00	08/29/25 02:17	1
4-Nitrophenol	ND		10.1	2.77	ug/L		08/28/25 07:00	08/29/25 02:17	1
Acenaphthene	ND		10.1	0.636	ug/L		08/28/25 07:00	08/29/25 02:17	1
Acenaphthylene	ND		10.1	0.768	ug/L		08/28/25 07:00	08/29/25 02:17	1
Acetophenone	ND		10.1	3.23	ug/L		08/28/25 07:00	08/29/25 02:17	1
Anthracene	ND		10.1	0.919	ug/L		08/28/25 07:00	08/29/25 02:17	1
Atrazine	ND		10.1	1.14	ug/L		08/28/25 07:00	08/29/25 02:17	1
Benzaldehyde	ND		10.1	0.677	ug/L		08/28/25 07:00	08/29/25 02:17	1
Benzo[a]anthracene	ND		10.1	1.01	ug/L		08/28/25 07:00	08/29/25 02:17	1
Benzo[a]pyrene	ND		10.1	1.11	ug/L		08/28/25 07:00	08/29/25 02:17	1
Benzo[b]fluoranthene	ND		10.1	1.21	ug/L		08/28/25 07:00	08/29/25 02:17	1
Benzo[g,h,i]perylene	ND		10.1	1.52	ug/L		08/28/25 07:00	08/29/25 02:17	1
Benzo[k]fluoranthene	ND		10.1	1.52	ug/L		08/28/25 07:00	08/29/25 02:17	1
bis (2-chloroisopropyl) ether	ND		10.1	0.939	ug/L		08/28/25 07:00	08/29/25 02:17	1
Bis(2-chloroethoxy)methane	ND		10.1	0.343	ug/L		08/28/25 07:00	08/29/25 02:17	1
Bis(2-chloroethyl)ether	ND		10.1	0.737	ug/L		08/28/25 07:00	08/29/25 02:17	1
Bis(2-ethylhexyl) phthalate	ND		10.1	4.04	ug/L		08/28/25 07:00	08/29/25 02:17	1
Butyl benzyl phthalate	ND		10.1	4.04	ug/L		08/28/25 07:00	08/29/25 02:17	1
Caprolactam	ND		10.1	2.42	ug/L		08/28/25 07:00	08/29/25 02:17	1
Carbazole	ND		10.1	0.323	ug/L		08/28/25 07:00	08/29/25 02:17	1
Chrysene	ND		10.1	1.21	ug/L		08/28/25 07:00	08/29/25 02:17	1
Dibenz(a,h)anthracene	ND		10.1	1.31	ug/L		08/28/25 07:00	08/29/25 02:17	1
Dibenzofuran	ND		10.1	0.646	ug/L		08/28/25 07:00	08/29/25 02:17	1
Diethyl phthalate	ND		10.1	4.04	ug/L		08/28/25 07:00	08/29/25 02:17	1
Dimethyl phthalate	ND		10.1	4.04	ug/L		08/28/25 07:00	08/29/25 02:17	1
Di-n-butyl phthalate	ND		10.1	8.27	ug/L		08/28/25 07:00	08/29/25 02:17	1
Di-n-octyl phthalate	ND		10.1	4.04	ug/L		08/28/25 07:00	08/29/25 02:17	1
Fluoranthene	ND		10.1	0.636	ug/L		08/28/25 07:00	08/29/25 02:17	1
Fluorene	ND		10.1	0.677	ug/L		08/28/25 07:00	08/29/25 02:17	1
Hexachlorobenzene	ND		10.1	0.253	ug/L		08/28/25 07:00	08/29/25 02:17	1
Hexachlorobutadiene	ND		10.1	0.556	ug/L		08/28/25 07:00	08/29/25 02:17	1
Hexachlorocyclopentadiene	ND		20.2	0.323	ug/L		08/28/25 07:00	08/29/25 02:17	1
Hexachloroethane	ND		10.1	0.535	ug/L		08/28/25 07:00	08/29/25 02:17	1
Indeno[1,2,3-cd]pyrene	ND		10.1	1.11	ug/L		08/28/25 07:00	08/29/25 02:17	1
Isophorone	ND		10.1	0.808	ug/L		08/28/25 07:00	08/29/25 02:17	1
Naphthalene	ND		10.1	0.758	ug/L		08/28/25 07:00	08/29/25 02:17	1
Nitrobenzene	ND		10.1	0.606	ug/L		08/28/25 07:00	08/29/25 02:17	1
N-Nitrosodi-n-propylamine	ND		10.1	0.333	ug/L		08/28/25 07:00	08/29/25 02:17	1
N-Nitrosodiphenylamine	ND		10.1	0.192	ug/L		08/28/25 07:00	08/29/25 02:17	1
Pentachlorophenol	ND		10.1	2.83	ug/L		08/28/25 07:00	08/29/25 02:17	1
Phenanthrene	ND		10.1	0.747	ug/L		08/28/25 07:00	08/29/25 02:17	1
Phenol	ND		10.1	0.687	ug/L		08/28/25 07:00	08/29/25 02:17	1
Pyrene	ND		10.1	0.636	ug/L		08/28/25 07:00	08/29/25 02:17	1

Client Sample ID: MW-5

Lab Sample ID: 752-36184-4

Date Collected: 08/25/25 17:07

Matrix: Water

Date Received: 08/26/25 08:35

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*10 - 150*	*08/28/25 07:00*	*08/29/25 02:17*	*1*
2-Fluorobiphenyl (Surr)	*73*		*25 - 139*	*08/28/25 07:00*	*08/29/25 02:17*	*1*
2-Fluorophenol (Surr)	*87*		*10 - 150*	*08/28/25 07:00*	*08/29/25 02:17*	*1*
Nitrobenzene-d5 (Surr)	*79*		*22 - 150*	*08/28/25 07:00*	*08/29/25 02:17*	*1*
Phenol-d5 (Surr)	*83*		*10 - 150*	*08/28/25 07:00*	*08/29/25 02:17*	*1*
Terphenyl-d14 (Surr)	*46*		*28 - 150*	*08/28/25 07:00*	*08/29/25 02:17*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	2.45	ug/L		08/29/25 09:29	09/02/25 18:32	1
Arsenic	ND		5.00	1.32	ug/L		08/29/25 09:29	09/02/25 18:32	1
Barium	**103**		10.0	0.410	ug/L		08/29/25 09:29	09/02/25 18:32	1
Beryllium	ND		1.00	0.147	ug/L		08/29/25 09:29	09/02/25 18:32	1
Cadmium	ND		0.700	0.237	ug/L		08/29/25 09:29	09/02/25 18:32	1
Chromium	ND		5.00	3.69	ug/L		08/29/25 09:29	09/02/25 18:32	1
Cobalt	**3.47**	**J**	5.00	0.411	ug/L		08/29/25 09:29	09/02/25 18:32	1
Copper	**1.42**	**J**	2.00	0.642	ug/L		08/29/25 09:29	09/02/25 18:32	1
Lead	ND		1.00	0.864	ug/L		08/29/25 09:29	09/02/25 18:32	1
Manganese	**1060**		5.00	1.29	ug/L		08/29/25 09:29	09/02/25 18:32	1
Nickel	**3.56**	**J**	5.00	0.422	ug/L		08/29/25 09:29	09/02/25 18:32	1
Selenium	ND		5.00	2.29	ug/L		08/29/25 09:29	09/02/25 18:32	1
Silver	ND		1.00	0.167	ug/L		08/29/25 09:29	09/02/25 18:32	1
Thallium	ND		1.00	0.190	ug/L		08/29/25 09:29	09/02/25 18:32	1
Vanadium	**4.31**	**J**	5.00	1.22	ug/L		08/29/25 09:29	09/02/25 18:32	1
Zinc	ND		10.0	8.91	ug/L		08/29/25 09:29	09/02/25 18:32	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	*+ ^+	0.200	0.166	ug/L		09/05/25 15:04	09/06/25 00:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.0240**	**J F1**	0.0500	0.0200	mg/L			08/27/25 10:25	1
Nitrate as N (SM Nitrate by calc)	**0.607**		0.100	0.0250	mg/L			08/28/25 11:50	1
Sulfate (SM 4500 SO4 E)	**35.7**		10.0	2.80	mg/L			09/05/25 12:37	2

Client Sample ID: Duplicate-1

Lab Sample ID: 752-36184-5

Date Collected: 08/25/25 00:00

Matrix: Water

Date Received: 08/26/25 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	10.0	ug/L			09/02/25 20:44	1
Benzene	ND		1.00	0.500	ug/L			09/02/25 20:44	1
Bromobenzene	ND		1.00	0.540	ug/L			09/02/25 20:44	1
Bromoform	ND		5.00	0.250	ug/L			09/02/25 20:44	1
Bromomethane	ND		1.00	0.980	ug/L			09/02/25 20:44	1
2-Butanone (MEK)	ND		25.0	2.60	ug/L			09/02/25 20:44	1
Carbon disulfide	ND		1.00	0.500	ug/L			09/02/25 20:44	1
Carbon tetrachloride	ND		1.00	0.190	ug/L			09/02/25 20:44	1
Chlorobenzene	ND		1.00	0.420	ug/L			09/02/25 20:44	1

Client: S&ME Inc
Job ID: 752-36184-1
Project/Site: Northgate Park

Client Sample ID: Duplicate-1
Lab Sample ID: 752-36184-5
Date Collected: 08/25/25 00:00
Matrix: Water
Date Received: 08/26/25 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobromomethane	ND		1.00	0.520	ug/L			09/02/25 20:44	1
Chlorodibromomethane	ND		1.00	0.240	ug/L			09/02/25 20:44	1
Chloroethane	ND		1.00	0.760	ug/L			09/02/25 20:44	1
Chloroform	ND		1.00	0.900	ug/L			09/02/25 20:44	1
Chloromethane	ND		1.00	0.400	ug/L			09/02/25 20:44	1
2-Chlorotoluene	ND		1.00	0.570	ug/L			09/02/25 20:44	1
4-Chlorotoluene	ND		1.00	0.560	ug/L			09/02/25 20:44	1
cis-1,2-Dichloroethene	ND		1.00	0.200	ug/L			09/02/25 20:44	1
cis-1,3-Dichloropropene	ND		5.00	0.500	ug/L			09/02/25 20:44	1
1,2-Dibromo-3-Chloropropane	ND		5.00	1.50	ug/L			09/02/25 20:44	1
Dibromomethane	ND		5.00	0.220	ug/L			09/02/25 20:44	1
1,2-Dichlorobenzene	ND		1.00	0.500	ug/L			09/02/25 20:44	1
1,3-Dichlorobenzene	ND		1.00	0.540	ug/L			09/02/25 20:44	1
1,4-Dichlorobenzene	ND		1.00	0.640	ug/L			09/02/25 20:44	1
Dichlorobromomethane	ND		1.00	0.500	ug/L			09/02/25 20:44	1
1,1-Dichloroethane	ND		1.00	0.500	ug/L			09/02/25 20:44	1
1,2-Dichloroethane	ND		1.00	0.550	ug/L			09/02/25 20:44	1
1,1-Dichloroethene	ND		1.00	0.500	ug/L			09/02/25 20:44	1
1,2-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 20:44	1
1,3-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 20:44	1
2,2-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 20:44	1
1,1-Dichloropropene	ND		1.00	0.0900	ug/L			09/02/25 20:44	1
Ethyl acetate	ND		10.0	6.14	ug/L			09/02/25 20:44	1
Ethylbenzene	ND		1.00	0.500	ug/L			09/02/25 20:44	1
Ethylene Dibromide	ND		1.00	0.230	ug/L			09/02/25 20:44	1
Hexachlorobutadiene	ND		5.00	0.900	ug/L			09/02/25 20:44	1
Hexane	ND		1.00	0.960	ug/L			09/02/25 20:44	1
2-Hexanone	ND		25.0	4.26	ug/L			09/02/25 20:44	1
Iodomethane	ND		1.00	0.900	ug/L			09/02/25 20:44	1
Isopropylbenzene	ND		1.00	0.530	ug/L			09/02/25 20:44	1
Isopropyl ether	ND		1.00	0.740	ug/L			09/02/25 20:44	1
4-Isopropyltoluene	ND		1.00	0.710	ug/L			09/02/25 20:44	1
Methylene Chloride	ND		5.00	3.00	ug/L			09/02/25 20:44	1
4-Methyl-2-pentanone (MIBK)	ND		25.0	1.80	ug/L			09/02/25 20:44	1
Methyl tert-butyl ether	ND		1.00	0.220	ug/L			09/02/25 20:44	1
m-Xylene & p-Xylene	ND		5.00	3.00	ug/L			09/02/25 20:44	1
Naphthalene	ND		5.00	3.00	ug/L			09/02/25 20:44	1
n-Butylbenzene	ND		1.00	0.760	ug/L			09/02/25 20:44	1
n-Heptane	ND		1.00	0.210	ug/L			09/02/25 20:44	1
N-Propylbenzene	ND		1.00	0.690	ug/L			09/02/25 20:44	1
o-Xylene	ND		5.00	3.00	ug/L			09/02/25 20:44	1
sec-Butylbenzene	ND		1.00	0.700	ug/L			09/02/25 20:44	1
Styrene	ND		1.00	1.00	ug/L			09/02/25 20:44	1
tert-Butylbenzene	ND		1.00	0.630	ug/L			09/02/25 20:44	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.380	ug/L			09/02/25 20:44	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.500	ug/L			09/02/25 20:44	1
Tetrachloroethene	ND		1.00	0.330	ug/L			09/02/25 20:44	1
Toluene	ND		1.00	0.900	ug/L			09/02/25 20:44	1
trans-1,4-Dichloro-2-butene	ND		5.00	1.00	ug/L			09/02/25 20:44	1

Client Sample ID: Duplicate-1
Date Collected: 08/25/25 00:00
Date Received: 08/26/25 08:35

Lab Sample ID: 752-36184-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.00	0.500	ug/L			09/02/25 20:44	1
trans-1,3-Dichloropropene	ND		5.00	0.200	ug/L			09/02/25 20:44	1
1,2,3-Trichlorobenzene	ND		1.00	0.900	ug/L			09/02/25 20:44	1
1,2,4-Trichlorobenzene	ND		1.00	0.820	ug/L			09/02/25 20:44	1
1,1,1-Trichloroethane	ND		1.00	0.180	ug/L			09/02/25 20:44	1
1,1,2-Trichloroethane	ND		5.00	0.210	ug/L			09/02/25 20:44	1
Trichloroethene	ND		1.00	0.150	ug/L			09/02/25 20:44	1
Trichlorofluoromethane	ND		1.00	0.250	ug/L			09/02/25 20:44	1
1,2,3-Trichloropropane	ND		5.00	0.840	ug/L			09/02/25 20:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.500	ug/L			09/02/25 20:44	1
1,2,4-Trimethylbenzene	ND	*+	1.00	0.820	ug/L			09/02/25 20:44	1
1,3,5-Trimethylbenzene	ND		1.00	0.560	ug/L			09/02/25 20:44	1
Vinyl acetate	ND		25.0	0.930	ug/L			09/02/25 20:44	1
Vinyl chloride	ND		1.00	0.500	ug/L			09/02/25 20:44	1
Xylenes, Total	ND		10.0	6.00	ug/L			09/02/25 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*56 - 136*		*09/02/25 20:44*	*1*
Dibromofluoromethane	*101*		*79 - 130*		*09/02/25 20:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*59 - 146*		*09/02/25 20:44*	*1*
Toluene-d8 (Surr)	*101*		*64 - 132*		*09/02/25 20:44*	*1*

Method: SW846 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.78**		0.287	0.287	ug/L		08/28/25 07:00	08/29/25 20:09	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*19*		*10 - 140*	*08/28/25 07:00*	*08/29/25 20:09*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		10.1	0.424	ug/L		08/28/25 07:00	08/29/25 02:50	1
2,4,5-Trichlorophenol	ND		10.1	0.545	ug/L		08/28/25 07:00	08/29/25 02:50	1
2,4,6-Trichlorophenol	ND		10.1	1.10	ug/L		08/28/25 07:00	08/29/25 02:50	1
2,4-Dichlorophenol	ND		10.1	0.576	ug/L		08/28/25 07:00	08/29/25 02:50	1
2,4-Dimethylphenol	ND		10.1	0.242	ug/L		08/28/25 07:00	08/29/25 02:50	1
2,4-Dinitrophenol	ND		30.3	4.73	ug/L		08/28/25 07:00	08/29/25 02:50	1
2,4-Dinitrotoluene	ND		10.1	0.657	ug/L		08/28/25 07:00	08/29/25 02:50	1
2,6-Dinitrotoluene	ND		10.1	0.293	ug/L		08/28/25 07:00	08/29/25 02:50	1
2-Chloronaphthalene	ND		10.1	0.384	ug/L		08/28/25 07:00	08/29/25 02:50	1
2-Chlorophenol	ND		10.1	0.848	ug/L		08/28/25 07:00	08/29/25 02:50	1
2-Methylnaphthalene	ND		10.1	0.818	ug/L		08/28/25 07:00	08/29/25 02:50	1
2-Methylphenol	ND		10.1	0.768	ug/L		08/28/25 07:00	08/29/25 02:50	1
2-Nitroaniline	ND		10.1	1.38	ug/L		08/28/25 07:00	08/29/25 02:50	1
2-Nitrophenol	ND		10.1	1.18	ug/L		08/28/25 07:00	08/29/25 02:50	1
3 & 4 Methylphenol	ND		20.2	4.65	ug/L		08/28/25 07:00	08/29/25 02:50	1
3,3'-Dichlorobenzidine	ND		11.1	0.414	ug/L		08/28/25 07:00	08/29/25 02:50	1
3-Nitroaniline	ND		10.1	0.960	ug/L		08/28/25 07:00	08/29/25 02:50	1
4,6-Dinitro-2-methylphenol	ND		10.1	1.99	ug/L		08/28/25 07:00	08/29/25 02:50	1
4-Bromophenyl phenyl ether	ND		10.1	0.131	ug/L		08/28/25 07:00	08/29/25 02:50	1
4-Chloro-3-methylphenol	ND		10.1	0.737	ug/L		08/28/25 07:00	08/29/25 02:50	1

Client Sample ID: Duplicate-1
Date Collected: 08/25/25 00:00
Date Received: 08/26/25 08:35

Lab Sample ID: 752-36184-5
Matrix: Water

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		10.1	0.586	ug/L		08/28/25 07:00	08/29/25 02:50	1
4-Chlorophenyl phenyl ether	ND		10.1	0.242	ug/L		08/28/25 07:00	08/29/25 02:50	1
4-Nitroaniline	ND		10.1	3.54	ug/L		08/28/25 07:00	08/29/25 02:50	1
4-Nitrophenol	ND		10.1	2.77	ug/L		08/28/25 07:00	08/29/25 02:50	1
Acenaphthene	ND		10.1	0.636	ug/L		08/28/25 07:00	08/29/25 02:50	1
Acenaphthylene	ND		10.1	0.768	ug/L		08/28/25 07:00	08/29/25 02:50	1
Acetophenone	ND		10.1	3.23	ug/L		08/28/25 07:00	08/29/25 02:50	1
Anthracene	ND		10.1	0.919	ug/L		08/28/25 07:00	08/29/25 02:50	1
Atrazine	ND		10.1	1.14	ug/L		08/28/25 07:00	08/29/25 02:50	1
Benzaldehyde	ND		10.1	0.677	ug/L		08/28/25 07:00	08/29/25 02:50	1
Benzo[a]anthracene	ND		10.1	1.01	ug/L		08/28/25 07:00	08/29/25 02:50	1
Benzo[a]pyrene	ND		10.1	1.11	ug/L		08/28/25 07:00	08/29/25 02:50	1
Benzo[b]fluoranthene	ND		10.1	1.21	ug/L		08/28/25 07:00	08/29/25 02:50	1
Benzo[g,h,i]perylene	ND		10.1	1.52	ug/L		08/28/25 07:00	08/29/25 02:50	1
Benzo[k]fluoranthene	ND		10.1	1.52	ug/L		08/28/25 07:00	08/29/25 02:50	1
bis (2-chloroisopropyl) ether	ND		10.1	0.939	ug/L		08/28/25 07:00	08/29/25 02:50	1
Bis(2-chloroethoxy)methane	ND		10.1	0.343	ug/L		08/28/25 07:00	08/29/25 02:50	1
Bis(2-chloroethyl)ether	ND		10.1	0.737	ug/L		08/28/25 07:00	08/29/25 02:50	1
Bis(2-ethylhexyl) phthalate	ND		10.1	4.04	ug/L		08/28/25 07:00	08/29/25 02:50	1
Butyl benzyl phthalate	ND		10.1	4.04	ug/L		08/28/25 07:00	08/29/25 02:50	1
Caprolactam	ND		10.1	2.42	ug/L		08/28/25 07:00	08/29/25 02:50	1
Carbazole	ND		10.1	0.323	ug/L		08/28/25 07:00	08/29/25 02:50	1
Chrysene	ND		10.1	1.21	ug/L		08/28/25 07:00	08/29/25 02:50	1
Dibenz(a,h)anthracene	ND		10.1	1.31	ug/L		08/28/25 07:00	08/29/25 02:50	1
Dibenzofuran	ND		10.1	0.646	ug/L		08/28/25 07:00	08/29/25 02:50	1
Diethyl phthalate	ND		10.1	4.04	ug/L		08/28/25 07:00	08/29/25 02:50	1
Dimethyl phthalate	ND		10.1	4.04	ug/L		08/28/25 07:00	08/29/25 02:50	1
Di-n-butyl phthalate	ND		10.1	8.27	ug/L		08/28/25 07:00	08/29/25 02:50	1
Di-n-octyl phthalate	ND		10.1	4.04	ug/L		08/28/25 07:00	08/29/25 02:50	1
Fluoranthene	ND		10.1	0.636	ug/L		08/28/25 07:00	08/29/25 02:50	1
Fluorene	ND		10.1	0.677	ug/L		08/28/25 07:00	08/29/25 02:50	1
Hexachlorobenzene	ND		10.1	0.253	ug/L		08/28/25 07:00	08/29/25 02:50	1
Hexachlorobutadiene	ND		10.1	0.556	ug/L		08/28/25 07:00	08/29/25 02:50	1
Hexachlorocyclopentadiene	ND		20.2	0.323	ug/L		08/28/25 07:00	08/29/25 02:50	1
Hexachloroethane	ND		10.1	0.535	ug/L		08/28/25 07:00	08/29/25 02:50	1
Indeno[1,2,3-cd]pyrene	ND		10.1	1.11	ug/L		08/28/25 07:00	08/29/25 02:50	1
Isophorone	ND		10.1	0.808	ug/L		08/28/25 07:00	08/29/25 02:50	1
Naphthalene	ND		10.1	0.758	ug/L		08/28/25 07:00	08/29/25 02:50	1
Nitrobenzene	ND		10.1	0.606	ug/L		08/28/25 07:00	08/29/25 02:50	1
N-Nitrosodi-n-propylamine	ND		10.1	0.333	ug/L		08/28/25 07:00	08/29/25 02:50	1
N-Nitrosodiphenylamine	ND		10.1	0.192	ug/L		08/28/25 07:00	08/29/25 02:50	1
Pentachlorophenol	ND		10.1	2.83	ug/L		08/28/25 07:00	08/29/25 02:50	1
Phenanthrene	ND		10.1	0.747	ug/L		08/28/25 07:00	08/29/25 02:50	1
Phenol	**2.59**	**J**	10.1	0.687	ug/L		08/28/25 07:00	08/29/25 02:50	1
Pyrene	ND		10.1	0.636	ug/L		08/28/25 07:00	08/29/25 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*10 - 150*	*08/28/25 07:00*	*08/29/25 02:50*	*1*
2-Fluorobiphenyl (Surr)	*69*		*25 - 139*	*08/28/25 07:00*	*08/29/25 02:50*	*1*
2-Fluorophenol (Surr)	*89*		*10 - 150*	*08/28/25 07:00*	*08/29/25 02:50*	*1*

Client Sample ID: Duplicate-1
Lab Sample ID: 752-36184-5

Date Collected: 08/25/25 00:00
Matrix: Water
Date Received: 08/26/25 08:35

Method: SW846 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*80*		*22 - 150*	*08/28/25 07:00*	*08/29/25 02:50*	*1*
Phenol-d5 (Surr)	*85*		*10 - 150*	*08/28/25 07:00*	*08/29/25 02:50*	*1*
Terphenyl-d14 (Surr)	*54*		*28 - 150*	*08/28/25 07:00*	*08/29/25 02:50*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	2.45	ug/L		08/29/25 09:29	09/02/25 18:34	1
Arsenic	**2.70**	**J**	5.00	1.32	ug/L		08/29/25 09:29	09/02/25 18:34	1
Barium	**184**		10.0	0.410	ug/L		08/29/25 09:29	09/02/25 18:34	1
Beryllium	ND		1.00	0.147	ug/L		08/29/25 09:29	09/02/25 18:34	1
Cadmium	ND		0.700	0.237	ug/L		08/29/25 09:29	09/02/25 18:34	1
Chromium	**7.82**		5.00	3.69	ug/L		08/29/25 09:29	09/02/25 18:34	1
Cobalt	**4.21**	**J**	5.00	0.411	ug/L		08/29/25 09:29	09/02/25 18:34	1
Copper	**3.97**		2.00	0.642	ug/L		08/29/25 09:29	09/02/25 18:34	1
Lead	ND		1.00	0.864	ug/L		08/29/25 09:29	09/02/25 18:34	1
Manganese	**623**		5.00	1.29	ug/L		08/29/25 09:29	09/02/25 18:34	1
Nickel	**3.02**	**J**	5.00	0.422	ug/L		08/29/25 09:29	09/02/25 18:34	1
Selenium	ND		5.00	2.29	ug/L		08/29/25 09:29	09/02/25 18:34	1
Silver	ND		1.00	0.167	ug/L		08/29/25 09:29	09/02/25 18:34	1
Thallium	ND		1.00	0.190	ug/L		08/29/25 09:29	09/02/25 18:34	1
Vanadium	**9.89**		5.00	1.22	ug/L		08/29/25 09:29	09/02/25 18:34	1
Zinc	**19.3**		10.0	8.91	ug/L		08/29/25 09:29	09/02/25 18:34	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	*+ ^+	0.200	0.166	ug/L		09/05/25 15:04	09/06/25 00:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia (EPA 350.1)	**0.138**		0.0500	0.0200	mg/L			08/27/25 10:30	1
Nitrate as N (SM Nitrate by calc)	ND		0.100	0.0250	mg/L			08/28/25 11:50	1
Sulfate (SM 4500 SO4 E)	**16.1**		5.00	1.40	mg/L			09/05/25 12:38	1

Client Sample ID: Trip Blank
Lab Sample ID: 752-36184-6

Date Collected: 08/25/25 13:31
Matrix: Water
Date Received: 08/26/25 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	10.0	ug/L			09/02/25 21:05	1
Benzene	ND		1.00	0.500	ug/L			09/02/25 21:05	1
Bromobenzene	ND		1.00	0.540	ug/L			09/02/25 21:05	1
Bromoform	ND		5.00	0.250	ug/L			09/02/25 21:05	1
Bromomethane	ND		1.00	0.980	ug/L			09/02/25 21:05	1
2-Butanone (MEK)	ND		25.0	2.60	ug/L			09/02/25 21:05	1
Carbon disulfide	ND		1.00	0.500	ug/L			09/02/25 21:05	1
Carbon tetrachloride	ND		1.00	0.190	ug/L			09/02/25 21:05	1
Chlorobenzene	ND		1.00	0.420	ug/L			09/02/25 21:05	1
Chlorobromomethane	ND		1.00	0.520	ug/L			09/02/25 21:05	1
Chlorodibromomethane	ND		1.00	0.240	ug/L			09/02/25 21:05	1

Client: S&ME Inc
Job ID: 752-36184-1
Project/Site: Northgate Park

Client Sample ID: Trip Blank
Lab Sample ID: 752-36184-6
Date Collected: 08/25/25 13:31
Matrix: Water
Date Received: 08/26/25 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.00	0.760	ug/L			09/02/25 21:05	1
Chloroform	ND		1.00	0.900	ug/L			09/02/25 21:05	1
Chloromethane	ND		1.00	0.400	ug/L			09/02/25 21:05	1
2-Chlorotoluene	ND		1.00	0.570	ug/L			09/02/25 21:05	1
4-Chlorotoluene	ND		1.00	0.560	ug/L			09/02/25 21:05	1
cis-1,2-Dichloroethene	ND		1.00	0.200	ug/L			09/02/25 21:05	1
cis-1,3-Dichloropropene	ND		5.00	0.500	ug/L			09/02/25 21:05	1
1,2-Dibromo-3-Chloropropane	ND		5.00	1.50	ug/L			09/02/25 21:05	1
Dibromomethane	ND		5.00	0.220	ug/L			09/02/25 21:05	1
1,2-Dichlorobenzene	ND		1.00	0.500	ug/L			09/02/25 21:05	1
1,3-Dichlorobenzene	ND		1.00	0.540	ug/L			09/02/25 21:05	1
1,4-Dichlorobenzene	ND		1.00	0.640	ug/L			09/02/25 21:05	1
Dichlorobromomethane	ND		1.00	0.500	ug/L			09/02/25 21:05	1
1,1-Dichloroethane	ND		1.00	0.500	ug/L			09/02/25 21:05	1
1,2-Dichloroethane	ND		1.00	0.550	ug/L			09/02/25 21:05	1
1,1-Dichloroethene	ND		1.00	0.500	ug/L			09/02/25 21:05	1
1,2-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 21:05	1
1,3-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 21:05	1
2,2-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 21:05	1
1,1-Dichloropropene	ND		1.00	0.0900	ug/L			09/02/25 21:05	1
Ethyl acetate	ND		10.0	6.14	ug/L			09/02/25 21:05	1
Ethylbenzene	ND		1.00	0.500	ug/L			09/02/25 21:05	1
Ethylene Dibromide	ND		1.00	0.230	ug/L			09/02/25 21:05	1
Hexachlorobutadiene	ND		5.00	0.900	ug/L			09/02/25 21:05	1
Hexane	ND		1.00	0.960	ug/L			09/02/25 21:05	1
2-Hexanone	ND		25.0	4.26	ug/L			09/02/25 21:05	1
Iodomethane	ND		1.00	0.900	ug/L			09/02/25 21:05	1
Isopropylbenzene	ND		1.00	0.530	ug/L			09/02/25 21:05	1
Isopropyl ether	ND		1.00	0.740	ug/L			09/02/25 21:05	1
4-Isopropyltoluene	ND		1.00	0.710	ug/L			09/02/25 21:05	1
Methylene Chloride	ND		5.00	3.00	ug/L			09/02/25 21:05	1
4-Methyl-2-pentanone (MIBK)	ND		25.0	1.80	ug/L			09/02/25 21:05	1
Methyl tert-butyl ether	ND		1.00	0.220	ug/L			09/02/25 21:05	1
m-Xylene & p-Xylene	ND		5.00	3.00	ug/L			09/02/25 21:05	1
Naphthalene	ND		5.00	3.00	ug/L			09/02/25 21:05	1
n-Butylbenzene	ND		1.00	0.760	ug/L			09/02/25 21:05	1
n-Heptane	ND		1.00	0.210	ug/L			09/02/25 21:05	1
N-Propylbenzene	ND		1.00	0.690	ug/L			09/02/25 21:05	1
o-Xylene	ND		5.00	3.00	ug/L			09/02/25 21:05	1
sec-Butylbenzene	ND		1.00	0.700	ug/L			09/02/25 21:05	1
Styrene	ND		1.00	1.00	ug/L			09/02/25 21:05	1
tert-Butylbenzene	ND		1.00	0.630	ug/L			09/02/25 21:05	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.380	ug/L			09/02/25 21:05	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.500	ug/L			09/02/25 21:05	1
Tetrachloroethene	ND		1.00	0.330	ug/L			09/02/25 21:05	1
Toluene	ND		1.00	0.900	ug/L			09/02/25 21:05	1
trans-1,4-Dichloro-2-butene	ND		5.00	1.00	ug/L			09/02/25 21:05	1
trans-1,2-Dichloroethene	ND		1.00	0.500	ug/L			09/02/25 21:05	1
trans-1,3-Dichloropropene	ND		5.00	0.200	ug/L			09/02/25 21:05	1

Client Sample ID: Trip Blank
Lab Sample ID: 752-36184-6
Date Collected: 08/25/25 13:31
Matrix: Water
Date Received: 08/26/25 08:35

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.00	0.900	ug/L			09/02/25 21:05	1
1,2,4-Trichlorobenzene	ND		1.00	0.820	ug/L			09/02/25 21:05	1
1,1,1-Trichloroethane	ND		1.00	0.180	ug/L			09/02/25 21:05	1
1,1,2-Trichloroethane	ND		5.00	0.210	ug/L			09/02/25 21:05	1
Trichloroethene	ND		1.00	0.150	ug/L			09/02/25 21:05	1
Trichlorofluoromethane	ND		1.00	0.250	ug/L			09/02/25 21:05	1
1,2,3-Trichloropropane	ND		5.00	0.840	ug/L			09/02/25 21:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.500	ug/L			09/02/25 21:05	1
1,2,4-Trimethylbenzene	ND	*+	1.00	0.820	ug/L			09/02/25 21:05	1
1,3,5-Trimethylbenzene	ND		1.00	0.560	ug/L			09/02/25 21:05	1
Vinyl acetate	ND		25.0	0.930	ug/L			09/02/25 21:05	1
Vinyl chloride	ND		1.00	0.500	ug/L			09/02/25 21:05	1
Xylenes, Total	ND		10.0	6.00	ug/L			09/02/25 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*56 - 136*		*09/02/25 21:05*	*1*
Dibromofluoromethane	*101*		*79 - 130*		*09/02/25 21:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*59 - 146*		*09/02/25 21:05*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*09/02/25 21:05*	*1*

Surrogate Summary

Client: S&ME Inc
Job ID: 752-36184-1
Project/Site: Northgate Park

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(56-136)	(79-130)	(59-146)	(64-132)
752-36184-1	MW-2	101	100	83	103
752-36184-2	MW-3	101	100	84	104
752-36184-3	MW-4	99	100	84	103
752-36184-4	MW-5	104	101	86	103
752-36184-5	Duplicate-1	99	101	87	101
752-36184-6	Trip Blank	101	101	85	103
LCS 400-721619/1002	Lab Control Sample	112	93	83	105
MB 400-721619/5	Method Blank	99	92	75	103

Surrogate Legend

BFB = 4-Bromofluorobenzene
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(10-150)	(25-139)	(10-150)	(22-150)	(10-150)	(28-150)
752-36184-1	MW-2	83	75	84	80	77	56
752-36184-2	MW-3	88	73	83	85	76	60
752-36184-3	MW-4	80	68	79	79	70	57
752-36184-4	MW-5	83	73	87	79	83	46
752-36184-5	Duplicate-1	83	69	89	80	85	54
LCS 400-721289/2-A	Lab Control Sample	95	70	98	81	103	78
LCSD 400-721289/3-A	Lab Control Sample Dup	90	67	98	79	109	72
MB 400-721289/1-A	Method Blank	84	70	97	78	95	66

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Isotope Dilution Summary

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36184-1

Method: 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)						
		DXE						
Lab Sample ID	**Client Sample ID**	**(10-140)**						
752-36184-1	MW-2	24						
752-36184-2	MW-3	21						
752-36184-3	MW-4	24						
752-36184-4	MW-5	23						
752-36184-5	Duplicate-1	19						
LCS 400-721223/2-A	Lab Control Sample	105						
LCSD 400-721223/3-A	Lab Control Sample Dup	103						
MB 400-721223/1-A	Method Blank	128						

Surrogate Legend

DXE = 1,4-Dioxane-d8

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

Lab Sample ID: MB 400-721619/5
Matrix: Water
Analysis Batch: 721619

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0	10.0	ug/L			09/02/25 13:05	1
Benzene	ND		1.00	0.500	ug/L			09/02/25 13:05	1
Bromobenzene	ND		1.00	0.540	ug/L			09/02/25 13:05	1
Bromoform	ND		5.00	0.250	ug/L			09/02/25 13:05	1
Bromomethane	ND		1.00	0.980	ug/L			09/02/25 13:05	1
2-Butanone (MEK)	ND		25.0	2.60	ug/L			09/02/25 13:05	1
Carbon disulfide	ND		1.00	0.500	ug/L			09/02/25 13:05	1
Carbon tetrachloride	ND		1.00	0.190	ug/L			09/02/25 13:05	1
Chlorobenzene	ND		1.00	0.420	ug/L			09/02/25 13:05	1
Chlorobromomethane	ND		1.00	0.520	ug/L			09/02/25 13:05	1
Chlorodibromomethane	ND		1.00	0.240	ug/L			09/02/25 13:05	1
Chloroethane	ND		1.00	0.760	ug/L			09/02/25 13:05	1
Chloroform	ND		1.00	0.900	ug/L			09/02/25 13:05	1
Chloromethane	ND		1.00	0.400	ug/L			09/02/25 13:05	1
2-Chlorotoluene	ND		1.00	0.570	ug/L			09/02/25 13:05	1
4-Chlorotoluene	ND		1.00	0.560	ug/L			09/02/25 13:05	1
cis-1,2-Dichloroethene	ND		1.00	0.200	ug/L			09/02/25 13:05	1
cis-1,3-Dichloropropene	ND		5.00	0.500	ug/L			09/02/25 13:05	1
1,2-Dibromo-3-Chloropropane	ND		5.00	1.50	ug/L			09/02/25 13:05	1
Dibromomethane	ND		5.00	0.220	ug/L			09/02/25 13:05	1
1,2-Dichlorobenzene	ND		1.00	0.500	ug/L			09/02/25 13:05	1
1,3-Dichlorobenzene	ND		1.00	0.540	ug/L			09/02/25 13:05	1
1,4-Dichlorobenzene	ND		1.00	0.640	ug/L			09/02/25 13:05	1
Dichlorobromomethane	ND		1.00	0.500	ug/L			09/02/25 13:05	1
1,1-Dichloroethane	ND		1.00	0.500	ug/L			09/02/25 13:05	1
1,2-Dichloroethane	ND		1.00	0.550	ug/L			09/02/25 13:05	1
1,1-Dichloroethene	ND		1.00	0.500	ug/L			09/02/25 13:05	1
1,2-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 13:05	1
1,3-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 13:05	1
2,2-Dichloropropane	ND		1.00	0.500	ug/L			09/02/25 13:05	1
1,1-Dichloropropene	ND		1.00	0.0900	ug/L			09/02/25 13:05	1
Ethyl acetate	ND		10.0	6.14	ug/L			09/02/25 13:05	1
Ethylbenzene	ND		1.00	0.500	ug/L			09/02/25 13:05	1
Ethylene Dibromide	ND		1.00	0.230	ug/L			09/02/25 13:05	1
Hexachlorobutadiene	ND		5.00	0.900	ug/L			09/02/25 13:05	1
Hexane	ND		1.00	0.960	ug/L			09/02/25 13:05	1
2-Hexanone	ND		25.0	4.26	ug/L			09/02/25 13:05	1
Iodomethane	ND		1.00	0.900	ug/L			09/02/25 13:05	1
Isopropylbenzene	ND		1.00	0.530	ug/L			09/02/25 13:05	1
Isopropyl ether	ND		1.00	0.740	ug/L			09/02/25 13:05	1
4-Isopropyltoluene	ND		1.00	0.710	ug/L			09/02/25 13:05	1
Methylene Chloride	ND		5.00	3.00	ug/L			09/02/25 13:05	1
4-Methyl-2-pentanone (MIBK)	ND		25.0	1.80	ug/L			09/02/25 13:05	1
Methyl tert-butyl ether	ND		1.00	0.220	ug/L			09/02/25 13:05	1
m-Xylene & p-Xylene	ND		5.00	3.00	ug/L			09/02/25 13:05	1
Naphthalene	ND		5.00	3.00	ug/L			09/02/25 13:05	1
n-Butylbenzene	ND		1.00	0.760	ug/L			09/02/25 13:05	1
n-Heptane	ND		1.00	0.210	ug/L			09/02/25 13:05	1

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

Lab Sample ID: MB 400-721619/5
Matrix: Water
Analysis Batch: 721619

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.00	0.690	ug/L			09/02/25 13:05	1
o-Xylene	ND		5.00	3.00	ug/L			09/02/25 13:05	1
sec-Butylbenzene	ND		1.00	0.700	ug/L			09/02/25 13:05	1
Styrene	ND		1.00	1.00	ug/L			09/02/25 13:05	1
tert-Butylbenzene	ND		1.00	0.630	ug/L			09/02/25 13:05	1
1,1,1,2-Tetrachloroethane	ND		1.00	0.380	ug/L			09/02/25 13:05	1
1,1,2,2-Tetrachloroethane	ND		1.00	0.500	ug/L			09/02/25 13:05	1
Tetrachloroethene	ND		1.00	0.330	ug/L			09/02/25 13:05	1
Toluene	ND		1.00	0.900	ug/L			09/02/25 13:05	1
trans-1,4-Dichloro-2-butene	ND		5.00	1.00	ug/L			09/02/25 13:05	1
trans-1,2-Dichloroethene	ND		1.00	0.500	ug/L			09/02/25 13:05	1
trans-1,3-Dichloropropene	ND		5.00	0.200	ug/L			09/02/25 13:05	1
1,2,3-Trichlorobenzene	ND		1.00	0.900	ug/L			09/02/25 13:05	1
1,2,4-Trichlorobenzene	ND		1.00	0.820	ug/L			09/02/25 13:05	1
1,1,1-Trichloroethane	ND		1.00	0.180	ug/L			09/02/25 13:05	1
1,1,2-Trichloroethane	ND		5.00	0.210	ug/L			09/02/25 13:05	1
Trichloroethene	ND		1.00	0.150	ug/L			09/02/25 13:05	1
Trichlorofluoromethane	ND		1.00	0.250	ug/L			09/02/25 13:05	1
1,2,3-Trichloropropane	ND		5.00	0.840	ug/L			09/02/25 13:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.500	ug/L			09/02/25 13:05	1
1,2,4-Trimethylbenzene	ND		1.00	0.820	ug/L			09/02/25 13:05	1
1,3,5-Trimethylbenzene	ND		1.00	0.560	ug/L			09/02/25 13:05	1
Vinyl acetate	ND		25.0	0.930	ug/L			09/02/25 13:05	1
Vinyl chloride	ND		1.00	0.500	ug/L			09/02/25 13:05	1
Xylenes, Total	ND		10.0	6.00	ug/L			09/02/25 13:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*56 - 136*		*09/02/25 13:05*	*1*
Dibromofluoromethane	*92*		*79 - 130*		*09/02/25 13:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*75*		*59 - 146*		*09/02/25 13:05*	*1*
Toluene-d8 (Surr)	*103*		*64 - 132*		*09/02/25 13:05*	*1*

Lab Sample ID: LCS 400-721619/1002
Matrix: Water
Analysis Batch: 721619

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	200	148.2		ug/L		74	43 - 150
Benzene	50.0	52.85		ug/L		106	70 - 130
Bromobenzene	50.0	58.26		ug/L		117	70 - 132
Bromoform	50.0	53.50		ug/L		107	57 - 140
Bromomethane	50.0	25.77		ug/L		52	10 - 150
2-Butanone (MEK)	200	195.2		ug/L		98	61 - 145
Carbon disulfide	50.0	46.60		ug/L		93	61 - 137
Carbon tetrachloride	50.0	47.39		ug/L		95	61 - 137
Chlorobenzene	50.0	55.67		ug/L		111	70 - 130
Chlorobromomethane	50.0	46.20		ug/L		92	70 - 130
Chlorodibromomethane	50.0	51.63		ug/L		103	67 - 135

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

Lab Sample ID: LCS 400-721619/1002
Matrix: Water
Analysis Batch: 721619

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroethane	50.0	36.13		ug/L		72	55 - 141
Chloroform	50.0	46.37		ug/L		93	69 - 130
Chloromethane	50.0	40.31		ug/L		81	58 - 137
2-Chlorotoluene	50.0	57.87		ug/L		116	70 - 130
4-Chlorotoluene	50.0	57.80		ug/L		116	70 - 130
cis-1,2-Dichloroethene	50.0	56.41		ug/L		113	68 - 130
cis-1,3-Dichloropropene	50.0	54.22		ug/L		108	69 - 132
1,2-Dibromo-3-Chloropropane	50.0	59.67		ug/L		119	54 - 135
Dibromomethane	50.0	48.42		ug/L		97	70 - 130
1,2-Dichlorobenzene	50.0	54.55		ug/L		109	67 - 130
1,3-Dichlorobenzene	50.0	59.25		ug/L		119	70 - 130
1,4-Dichlorobenzene	50.0	59.26		ug/L		119	70 - 130
Dichlorobromomethane	50.0	49.71		ug/L		99	67 - 133
1,1-Dichloroethane	50.0	52.76		ug/L		106	70 - 130
1,2-Dichloroethane	50.0	42.23		ug/L		84	69 - 130
1,1-Dichloroethene	50.0	44.68		ug/L		89	63 - 134
1,2-Dichloropropane	50.0	55.41		ug/L		111	70 - 130
1,3-Dichloropropane	50.0	55.01		ug/L		110	70 - 130
2,2-Dichloropropane	50.0	49.14		ug/L		98	52 - 135
1,1-Dichloropropene	50.0	51.24		ug/L		102	70 - 130
Ethyl acetate	100	111.4		ug/L		111	34 - 150
Ethylbenzene	50.0	55.32		ug/L		111	70 - 130
Ethylene Dibromide	50.0	49.87		ug/L		100	70 - 130
Hexachlorobutadiene	50.0	59.84		ug/L		120	53 - 140
Hexane	50.0	47.25		ug/L		94	69 - 130
2-Hexanone	200	178.6		ug/L		89	65 - 137
Iodomethane	50.0	46.76		ug/L		94	27 - 150
Isopropylbenzene	50.0	55.54		ug/L		111	70 - 130
Isopropyl ether	50.0	48.77		ug/L		98	64 - 132
4-Isopropyltoluene	50.0	62.90		ug/L		126	65 - 130
Methylene Chloride	50.0	51.45		ug/L		103	66 - 135
4-Methyl-2-pentanone (MIBK)	200	189.1		ug/L		95	69 - 138
Methyl tert-butyl ether	50.0	49.83		ug/L		100	66 - 130
m-Xylene & p-Xylene	50.0	53.36		ug/L		107	70 - 130
Naphthalene	50.0	61.30		ug/L		123	47 - 149
n-Butylbenzene	50.0	62.68		ug/L		125	67 - 130
n-Heptane	50.0	47.24		ug/L		94	70 - 130
N-Propylbenzene	50.0	62.19		ug/L		124	70 - 130
o-Xylene	50.0	53.13		ug/L		106	70 - 130
sec-Butylbenzene	50.0	62.89		ug/L		126	66 - 130
Styrene	50.0	52.61		ug/L		105	70 - 130
tert-Butylbenzene	50.0	58.18		ug/L		116	64 - 139
1,1,1,2-Tetrachloroethane	50.0	53.53		ug/L		107	67 - 131
1,1,2,2-Tetrachloroethane	50.0	61.03		ug/L		122	70 - 131
Tetrachloroethene	50.0	55.27		ug/L		111	65 - 130
Toluene	50.0	53.75		ug/L		108	70 - 130
trans-1,4-Dichloro-2-butene	50.0	43.21		ug/L		86	57 - 140
trans-1,2-Dichloroethene	50.0	50.29		ug/L		101	70 - 130
trans-1,3-Dichloropropene	50.0	51.98		ug/L		104	63 - 130

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

Lab Sample ID: LCS 400-721619/1002
Matrix: Water
Analysis Batch: 721619

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichlorobenzene	50.0	61.77		ug/L		124	60 - 138
1,2,4-Trichlorobenzene	50.0	64.55		ug/L		129	60 - 140
1,1,1-Trichloroethane	50.0	45.89		ug/L		92	68 - 130
1,1,2-Trichloroethane	50.0	55.22		ug/L		110	70 - 130
Trichloroethene	50.0	55.25		ug/L		110	70 - 130
Trichlorofluoromethane	50.0	35.78		ug/L		72	65 - 138
1,2,3-Trichloropropane	50.0	61.59		ug/L		123	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	42.12		ug/L		84	60 - 139
1,2,4-Trimethylbenzene	50.0	65.26	*+	ug/L		131	70 - 130
1,3,5-Trimethylbenzene	50.0	64.35		ug/L		129	69 - 130
Vinyl acetate	100	95.47		ug/L		95	26 - 150
Vinyl chloride	50.0	46.79		ug/L		94	59 - 136
Xylenes, Total	100	106.5		ug/L		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*112*		*56 - 136*
Dibromofluoromethane	*93*		*79 - 130*
1,2-Dichloroethane-d4 (Surr)	*83*		*59 - 146*
Toluene-d8 (Surr)	*105*		*64 - 132*

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS)

Lab Sample ID: MB 400-721289/1-A
Matrix: Water
Analysis Batch: 721248

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 721289

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	ND		10.0	0.420	ug/L		08/28/25 07:00	08/28/25 21:48	1
2,4,5-Trichlorophenol	ND		10.0	0.540	ug/L		08/28/25 07:00	08/28/25 21:48	1
2,4,6-Trichlorophenol	ND		10.0	1.09	ug/L		08/28/25 07:00	08/28/25 21:48	1
2,4-Dichlorophenol	ND		10.0	0.570	ug/L		08/28/25 07:00	08/28/25 21:48	1
2,4-Dimethylphenol	ND		10.0	0.240	ug/L		08/28/25 07:00	08/28/25 21:48	1
2,4-Dinitrophenol	ND		30.0	4.68	ug/L		08/28/25 07:00	08/28/25 21:48	1
2,4-Dinitrotoluene	ND		10.0	0.650	ug/L		08/28/25 07:00	08/28/25 21:48	1
2,6-Dinitrotoluene	ND		10.0	0.290	ug/L		08/28/25 07:00	08/28/25 21:48	1
2-Chloronaphthalene	ND		10.0	0.380	ug/L		08/28/25 07:00	08/28/25 21:48	1
2-Chlorophenol	ND		10.0	0.840	ug/L		08/28/25 07:00	08/28/25 21:48	1
2-Methylnaphthalene	ND		10.0	0.810	ug/L		08/28/25 07:00	08/28/25 21:48	1
2-Methylphenol	ND		10.0	0.760	ug/L		08/28/25 07:00	08/28/25 21:48	1
2-Nitroaniline	ND		10.0	1.37	ug/L		08/28/25 07:00	08/28/25 21:48	1
2-Nitrophenol	ND		10.0	1.17	ug/L		08/28/25 07:00	08/28/25 21:48	1
3 & 4 Methylphenol	ND		20.0	4.60	ug/L		08/28/25 07:00	08/28/25 21:48	1
3,3'-Dichlorobenzidine	ND		11.0	0.410	ug/L		08/28/25 07:00	08/28/25 21:48	1
3-Nitroaniline	ND		10.0	0.950	ug/L		08/28/25 07:00	08/28/25 21:48	1
4,6-Dinitro-2-methylphenol	ND		10.0	1.97	ug/L		08/28/25 07:00	08/28/25 21:48	1
4-Bromophenyl phenyl ether	ND		10.0	0.130	ug/L		08/28/25 07:00	08/28/25 21:48	1
4-Chloro-3-methylphenol	ND		10.0	0.730	ug/L		08/28/25 07:00	08/28/25 21:48	1
4-Chloroaniline	ND		10.0	0.580	ug/L		08/28/25 07:00	08/28/25 21:48	1

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: MB 400-721289/1-A
Matrix: Water
Analysis Batch: 721248

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 721289

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	ND		10.0	0.240	ug/L		08/28/25 07:00	08/28/25 21:48	1
4-Nitroaniline	ND		10.0	3.50	ug/L		08/28/25 07:00	08/28/25 21:48	1
4-Nitrophenol	ND		10.0	2.74	ug/L		08/28/25 07:00	08/28/25 21:48	1
Acenaphthene	ND		10.0	0.630	ug/L		08/28/25 07:00	08/28/25 21:48	1
Acenaphthylene	ND		10.0	0.760	ug/L		08/28/25 07:00	08/28/25 21:48	1
Acetophenone	ND		10.0	3.20	ug/L		08/28/25 07:00	08/28/25 21:48	1
Anthracene	ND		10.0	0.910	ug/L		08/28/25 07:00	08/28/25 21:48	1
Atrazine	ND		10.0	1.13	ug/L		08/28/25 07:00	08/28/25 21:48	1
Benzaldehyde	ND		10.0	0.670	ug/L		08/28/25 07:00	08/28/25 21:48	1
Benzo[a]anthracene	ND		10.0	1.00	ug/L		08/28/25 07:00	08/28/25 21:48	1
Benzo[a]pyrene	ND		10.0	1.10	ug/L		08/28/25 07:00	08/28/25 21:48	1
Benzo[b]fluoranthene	ND		10.0	1.20	ug/L		08/28/25 07:00	08/28/25 21:48	1
Benzo[g,h,i]perylene	ND		10.0	1.50	ug/L		08/28/25 07:00	08/28/25 21:48	1
Benzo[k]fluoranthene	ND		10.0	1.50	ug/L		08/28/25 07:00	08/28/25 21:48	1
bis (2-chloroisopropyl) ether	ND		10.0	0.930	ug/L		08/28/25 07:00	08/28/25 21:48	1
Bis(2-chloroethoxy)methane	ND		10.0	0.340	ug/L		08/28/25 07:00	08/28/25 21:48	1
Bis(2-chloroethyl)ether	ND		10.0	0.730	ug/L		08/28/25 07:00	08/28/25 21:48	1
Bis(2-ethylhexyl) phthalate	ND		10.0	4.00	ug/L		08/28/25 07:00	08/28/25 21:48	1
Butyl benzyl phthalate	ND		10.0	4.00	ug/L		08/28/25 07:00	08/28/25 21:48	1
Caprolactam	ND		10.0	2.40	ug/L		08/28/25 07:00	08/28/25 21:48	1
Carbazole	ND		10.0	0.320	ug/L		08/28/25 07:00	08/28/25 21:48	1
Chrysene	ND		10.0	1.20	ug/L		08/28/25 07:00	08/28/25 21:48	1
Dibenz(a,h)anthracene	ND		10.0	1.30	ug/L		08/28/25 07:00	08/28/25 21:48	1
Dibenzofuran	ND		10.0	0.640	ug/L		08/28/25 07:00	08/28/25 21:48	1
Diethyl phthalate	ND		10.0	4.00	ug/L		08/28/25 07:00	08/28/25 21:48	1
Dimethyl phthalate	ND		10.0	4.00	ug/L		08/28/25 07:00	08/28/25 21:48	1
Di-n-butyl phthalate	ND		10.0	8.19	ug/L		08/28/25 07:00	08/28/25 21:48	1
Di-n-octyl phthalate	ND		10.0	4.00	ug/L		08/28/25 07:00	08/28/25 21:48	1
Fluoranthene	ND		10.0	0.630	ug/L		08/28/25 07:00	08/28/25 21:48	1
Fluorene	ND		10.0	0.670	ug/L		08/28/25 07:00	08/28/25 21:48	1
Hexachlorobenzene	ND		10.0	0.250	ug/L		08/28/25 07:00	08/28/25 21:48	1
Hexachlorobutadiene	ND		10.0	0.550	ug/L		08/28/25 07:00	08/28/25 21:48	1
Hexachlorocyclopentadiene	ND		20.0	0.320	ug/L		08/28/25 07:00	08/28/25 21:48	1
Hexachloroethane	ND		10.0	0.530	ug/L		08/28/25 07:00	08/28/25 21:48	1
Indeno[1,2,3-cd]pyrene	ND		10.0	1.10	ug/L		08/28/25 07:00	08/28/25 21:48	1
Isophorone	ND		10.0	0.800	ug/L		08/28/25 07:00	08/28/25 21:48	1
Naphthalene	ND		10.0	0.750	ug/L		08/28/25 07:00	08/28/25 21:48	1
Nitrobenzene	ND		10.0	0.600	ug/L		08/28/25 07:00	08/28/25 21:48	1
N-Nitrosodi-n-propylamine	ND		10.0	0.330	ug/L		08/28/25 07:00	08/28/25 21:48	1
N-Nitrosodiphenylamine	ND		10.0	0.190	ug/L		08/28/25 07:00	08/28/25 21:48	1
Pentachlorophenol	ND		10.0	2.80	ug/L		08/28/25 07:00	08/28/25 21:48	1
Phenanthrene	ND		10.0	0.740	ug/L		08/28/25 07:00	08/28/25 21:48	1
Phenol	ND		10.0	0.680	ug/L		08/28/25 07:00	08/28/25 21:48	1
Pyrene	ND		10.0	0.630	ug/L		08/28/25 07:00	08/28/25 21:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*10 - 150*	*08/28/25 07:00*	*08/28/25 21:48*	*1*
2-Fluorobiphenyl (Surr)	*70*		*25 - 139*	*08/28/25 07:00*	*08/28/25 21:48*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: MB 400-721289/1-A
Matrix: Water
Analysis Batch: 721248

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 721289

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	97		10 - 150	08/28/25 07:00	08/28/25 21:48	1
Nitrobenzene-d5 (Surr)	78		22 - 150	08/28/25 07:00	08/28/25 21:48	1
Phenol-d5 (Surr)	95		10 - 150	08/28/25 07:00	08/28/25 21:48	1
Terphenyl-d14 (Surr)	66		28 - 150	08/28/25 07:00	08/28/25 21:48	1

Lab Sample ID: LCS 400-721289/2-A
Matrix: Water
Analysis Batch: 721248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 721289

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1'-Biphenyl	33.3	22.99		ug/L		69	27 - 120
2,4,5-Trichlorophenol	33.3	33.39		ug/L		100	27 - 136
2,4,6-Trichlorophenol	33.3	33.10		ug/L		99	21 - 132
2,4-Dichlorophenol	33.3	29.38		ug/L		88	30 - 125
2,4-Dimethylphenol	33.3	26.40		ug/L		79	10 - 142
2,4-Dinitrophenol	66.7	24.06	J	ug/L		36	10 - 150
2,4-Dinitrotoluene	33.3	26.30		ug/L		79	30 - 129
2,6-Dinitrotoluene	33.3	27.28		ug/L		82	34 - 132
2-Chloronaphthalene	33.3	22.26		ug/L		67	10 - 150
2-Chlorophenol	33.3	30.71		ug/L		92	28 - 127
2-Methylnaphthalene	33.3	23.70		ug/L		71	24 - 150
2-Methylphenol	33.3	35.06		ug/L		105	11 - 121
2-Nitroaniline	33.3	28.90		ug/L		87	31 - 141
2-Nitrophenol	33.3	27.33		ug/L		82	31 - 142
3 & 4 Methylphenol	33.3	33.12		ug/L		99	10 - 150
3,3'-Dichlorobenzidine	66.7	42.73		ug/L		64	10 - 150
3-Nitroaniline	33.3	26.53		ug/L		80	33 - 136
4,6-Dinitro-2-methylphenol	66.7	30.34		ug/L		46	10 - 150
4-Bromophenyl phenyl ether	33.3	26.28		ug/L		79	24 - 120
4-Chloro-3-methylphenol	33.3	33.13		ug/L		99	10 - 137
4-Chloroaniline	33.3	27.37		ug/L		82	10 - 150
4-Chlorophenyl phenyl ether	33.3	24.64		ug/L		74	31 - 110
4-Nitroaniline	33.3	27.83		ug/L		83	37 - 139
4-Nitrophenol	66.7	63.57		ug/L		95	10 - 150
Acenaphthene	33.3	24.08		ug/L		72	29 - 150
Acenaphthylene	33.3	24.68		ug/L		74	30 - 150
Acetophenone	33.3	28.08		ug/L		84	27 - 119
Anthracene	33.3	28.83		ug/L		86	31 - 150
Atrazine	33.3	27.57		ug/L		83	10 - 150
Benzaldehyde	33.3	22.72		ug/L		68	10 - 150
Benzo[a]anthracene	33.3	28.30		ug/L		85	36 - 150
Benzo[a]pyrene	33.3	27.66		ug/L		83	29 - 150
Benzo[b]fluoranthene	33.3	27.53		ug/L		83	32 - 150
Benzo[g,h,i]perylene	33.3	25.21		ug/L		76	28 - 150
Benzo[k]fluoranthene	33.3	26.93		ug/L		81	30 - 150
bis (2-chloroisopropyl) ether	33.3	27.21		ug/L		82	32 - 115
Bis(2-chloroethoxy)methane	33.3	25.82		ug/L		77	34 - 120
Bis(2-chloroethyl)ether	33.3	26.91		ug/L		81	32 - 114

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCS 400-721289/2-A
Matrix: Water
Analysis Batch: 721248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 721289

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bis(2-ethylhexyl) phthalate	33.3	28.28		ug/L		85	24 - 133
Butyl benzyl phthalate	33.3	24.30		ug/L		73	24 - 140
Caprolactam	33.3	27.99		ug/L		84	10 - 150
Carbazole	33.3	28.01		ug/L		84	28 - 123
Chrysene	33.3	27.05		ug/L		81	34 - 150
Dibenz(a,h)anthracene	33.3	24.99		ug/L		75	29 - 150
Dibenzofuran	33.3	24.92		ug/L		75	35 - 110
Diethyl phthalate	33.3	21.28		ug/L		64	31 - 118
Dimethyl phthalate	33.3	21.66		ug/L		65	24 - 125
Di-n-butyl phthalate	33.3	23.33		ug/L		70	30 - 127
Di-n-octyl phthalate	33.3	30.21		ug/L		91	28 - 142
Fluoranthene	33.3	27.97		ug/L		84	30 - 150
Fluorene	33.3	25.97		ug/L		78	30 - 150
Hexachlorobenzene	33.3	25.66		ug/L		77	29 - 113
Hexachlorobutadiene	33.3	15.81		ug/L		47	10 - 117
Hexachlorocyclopentadiene	33.3	12.59	J	ug/L		38	10 - 150
Hexachloroethane	33.3	17.23		ug/L		52	10 - 112
Indeno[1,2,3-cd]pyrene	33.3	23.26		ug/L		70	28 - 150
Isophorone	33.3	31.17		ug/L		94	29 - 125
Naphthalene	33.3	22.91		ug/L		69	27 - 150
Nitrobenzene	33.3	27.45		ug/L		82	29 - 129
N-Nitrosodi-n-propylamine	33.3	28.40		ug/L		85	53 - 134
N-Nitrosodiphenylamine	33.1	29.28		ug/L		89	62 - 132
Pentachlorophenol	66.7	69.24		ug/L		104	14 - 150
Phenanthrene	33.3	27.95		ug/L		84	32 - 150
Phenol	33.3	34.26		ug/L		103	10 - 150
Pyrene	33.3	28.02		ug/L		84	30 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*95*		*10 - 150*
2-Fluorobiphenyl (Surr)	*70*		*25 - 139*
2-Fluorophenol (Surr)	*98*		*10 - 150*
Nitrobenzene-d5 (Surr)	*81*		*22 - 150*
Phenol-d5 (Surr)	*103*		*10 - 150*
Terphenyl-d14 (Surr)	*78*		*28 - 150*

Lab Sample ID: LCSD 400-721289/3-A
Matrix: Water
Analysis Batch: 721248

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 721289

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1'-Biphenyl	33.3	22.20		ug/L		67	27 - 120	3	40
2,4,5-Trichlorophenol	33.3	33.79		ug/L		101	27 - 136	1	40
2,4,6-Trichlorophenol	33.3	32.37		ug/L		97	21 - 132	2	40
2,4-Dichlorophenol	33.3	29.13		ug/L		87	30 - 125	1	40
2,4-Dimethylphenol	33.3	25.04		ug/L		75	10 - 142	5	40
2,4-Dinitrophenol	66.7	23.69	J	ug/L		36	10 - 150	2	40
2,4-Dinitrotoluene	33.3	26.15		ug/L		78	30 - 129	1	40

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCSD 400-721289/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 721248
Prep Batch: 721289

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,6-Dinitrotoluene	33.3	27.33		ug/L		82	34 - 132	0	40
2-Chloronaphthalene	33.3	21.38		ug/L		64	10 - 150	4	40
2-Chlorophenol	33.3	29.49		ug/L		88	28 - 127	4	40
2-Methylnaphthalene	33.3	22.47		ug/L		67	24 - 150	5	40
2-Methylphenol	33.3	34.59		ug/L		104	11 - 121	1	40
2-Nitroaniline	33.3	29.05		ug/L		87	31 - 141	1	40
2-Nitrophenol	33.3	25.54		ug/L		77	31 - 142	7	40
3 & 4 Methylphenol	33.3	32.35		ug/L		97	10 - 150	2	40
3,3'-Dichlorobenzidine	66.7	39.10		ug/L		59	10 - 150	9	40
3-Nitroaniline	33.3	26.61		ug/L		80	33 - 136	0	40
4,6-Dinitro-2-methylphenol	66.7	29.58		ug/L		44	10 - 150	3	40
4-Bromophenyl phenyl ether	33.3	24.64		ug/L		74	24 - 120	6	40
4-Chloro-3-methylphenol	33.3	32.27		ug/L		97	10 - 137	3	40
4-Chloroaniline	33.3	26.18		ug/L		79	10 - 150	4	40
4-Chlorophenyl phenyl ether	33.3	23.74		ug/L		71	31 - 110	4	40
4-Nitroaniline	33.3	27.23		ug/L		82	37 - 139	2	40
4-Nitrophenol	66.7	68.44		ug/L		103	10 - 150	7	40
Acenaphthene	33.3	23.68		ug/L		71	29 - 150	2	40
Acenaphthylene	33.3	23.95		ug/L		72	30 - 150	3	40
Acetophenone	33.3	26.86		ug/L		81	27 - 119	4	40
Anthracene	33.3	27.34		ug/L		82	31 - 150	5	40
Atrazine	33.3	25.81		ug/L		77	10 - 150	7	40
Benzaldehyde	33.3	21.65		ug/L		65	10 - 150	5	40
Benzo[a]anthracene	33.3	26.47		ug/L		79	36 - 150	7	40
Benzo[a]pyrene	33.3	26.60		ug/L		80	29 - 150	4	40
Benzo[b]fluoranthene	33.3	27.08		ug/L		81	32 - 150	2	40
Benzo[g,h,i]perylene	33.3	24.04		ug/L		72	28 - 150	5	40
Benzo[k]fluoranthene	33.3	25.17		ug/L		76	30 - 150	7	40
bis (2-chloroisopropyl) ether	33.3	25.44		ug/L		76	32 - 115	7	40
Bis(2-chloroethoxy)methane	33.3	24.36		ug/L		73	34 - 120	6	40
Bis(2-chloroethyl)ether	33.3	25.67		ug/L		77	32 - 114	5	40
Bis(2-ethylhexyl) phthalate	33.3	26.09		ug/L		78	24 - 133	8	40
Butyl benzyl phthalate	33.3	22.53		ug/L		68	24 - 140	8	40
Caprolactam	33.3	27.93		ug/L		84	10 - 150	0	40
Carbazole	33.3	26.54		ug/L		80	28 - 123	5	40
Chrysene	33.3	25.47		ug/L		76	34 - 150	6	40
Dibenz(a,h)anthracene	33.3	23.99		ug/L		72	29 - 150	4	40
Dibenzofuran	33.3	24.39		ug/L		73	35 - 110	2	40
Diethyl phthalate	33.3	19.98		ug/L		60	31 - 118	6	40
Dimethyl phthalate	33.3	20.35		ug/L		61	24 - 125	6	40
Di-n-butyl phthalate	33.3	21.68		ug/L		65	30 - 127	7	40
Di-n-octyl phthalate	33.3	27.75		ug/L		83	28 - 142	8	40
Fluoranthene	33.3	26.52		ug/L		80	30 - 150	5	40
Fluorene	33.3	25.68		ug/L		77	30 - 150	1	40
Hexachlorobenzene	33.3	24.18		ug/L		73	29 - 113	6	40
Hexachlorobutadiene	33.3	14.26		ug/L		43	10 - 117	10	40
Hexachlorocyclopentadiene	33.3	11.81	J	ug/L		35	10 - 150	6	40
Hexachloroethane	33.3	16.32		ug/L		49	10 - 112	5	40
Indeno[1,2,3-cd]pyrene	33.3	22.25		ug/L		67	28 - 150	4	40

Method: 8270E - Semivolatile Organic Compounds (GC-MS/MS) (Continued)

Lab Sample ID: LCSD 400-721289/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 721248
Prep Batch: 721289

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isophorone			33.3	29.75		ug/L		89	29 - 125	5	40
Naphthalene			33.3	21.65		ug/L		65	27 - 150	6	40
Nitrobenzene			33.3	26.36		ug/L		79	29 - 129	4	40
N-Nitrosodi-n-propylamine			33.3	26.05		ug/L		78	53 - 134	9	40
N-Nitrosodiphenylamine			33.1	29.12		ug/L		88	62 - 132	1	40
Pentachlorophenol			66.7	66.94		ug/L		100	14 - 150	3	40
Phenanthrene			33.3	26.47		ug/L		79	32 - 150	5	40
Phenol			33.3	34.95		ug/L		105	10 - 150	2	40
Pyrene			33.3	26.45		ug/L		79	30 - 150	6	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*90*		*10 - 150*
2-Fluorobiphenyl (Surr)	*67*		*25 - 139*
2-Fluorophenol (Surr)	*98*		*10 - 150*
Nitrobenzene-d5 (Surr)	*79*		*22 - 150*
Phenol-d5 (Surr)	*109*		*10 - 150*
Terphenyl-d14 (Surr)	*72*		*28 - 150*

Method: 8270E SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 400-721223/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 721460
Prep Batch: 721223

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.300	0.300	ug/L		08/28/25 07:00	08/29/25 16:54	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*128*		*10 - 140*	*08/28/25 07:00*	*08/29/25 16:54*	*1*

Lab Sample ID: LCS 400-721223/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 721460
Prep Batch: 721223

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane			16.0	15.94		ug/L		100	30 - 150

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*105*		*10 - 140*

Lab Sample ID: LCSD 400-721223/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 721460
Prep Batch: 721223

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane			16.0	16.14		ug/L		101	30 - 150	1	

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8	*103*		*10 - 140*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 705-78345/1-A
Matrix: Water
Analysis Batch: 79014

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 78345

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		5.00	2.45	ug/L		08/29/25 09:29	09/02/25 17:18	1
Arsenic	ND		5.00	1.32	ug/L		08/29/25 09:29	09/02/25 17:18	1
Barium	ND		10.0	0.410	ug/L		08/29/25 09:29	09/02/25 17:18	1
Beryllium	ND		1.00	0.147	ug/L		08/29/25 09:29	09/02/25 17:18	1
Cadmium	ND		0.700	0.237	ug/L		08/29/25 09:29	09/02/25 17:18	1
Chromium	ND		5.00	3.69	ug/L		08/29/25 09:29	09/02/25 17:18	1
Cobalt	ND		5.00	0.411	ug/L		08/29/25 09:29	09/02/25 17:18	1
Copper	ND		2.00	0.642	ug/L		08/29/25 09:29	09/02/25 17:18	1
Lead	ND		1.00	0.864	ug/L		08/29/25 09:29	09/02/25 17:18	1
Manganese	ND		5.00	1.29	ug/L		08/29/25 09:29	09/02/25 17:18	1
Nickel	ND		5.00	0.422	ug/L		08/29/25 09:29	09/02/25 17:18	1
Selenium	ND		5.00	2.29	ug/L		08/29/25 09:29	09/02/25 17:18	1
Silver	ND		1.00	0.167	ug/L		08/29/25 09:29	09/02/25 17:18	1
Thallium	ND		1.00	0.190	ug/L		08/29/25 09:29	09/02/25 17:18	1
Vanadium	ND		5.00	1.22	ug/L		08/29/25 09:29	09/02/25 17:18	1
Zinc	ND		10.0	8.91	ug/L		08/29/25 09:29	09/02/25 17:18	1

Lab Sample ID: LCS 705-78345/2-A
Matrix: Water
Analysis Batch: 79014

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 78345

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	100	100.5		ug/L		100	80 - 120
Arsenic	100	98.30		ug/L		98	80 - 120
Barium	100	100.2		ug/L		100	80 - 120
Beryllium	100	95.17		ug/L		95	80 - 120
Cadmium	100	96.76		ug/L		97	80 - 120
Chromium	100	99.18		ug/L		99	80 - 120
Cobalt	100	100.4		ug/L		100	80 - 120
Copper	100	99.82		ug/L		100	80 - 120
Lead	100	99.62		ug/L		100	80 - 120
Manganese	100	96.55		ug/L		97	80 - 120
Nickel	100	101.0		ug/L		101	80 - 120
Selenium	100	96.22		ug/L		96	80 - 120
Silver	10.0	9.946		ug/L		99	80 - 120
Thallium	100	99.62		ug/L		100	80 - 120
Vanadium	100	97.16		ug/L		97	80 - 120
Zinc	100	98.23		ug/L		98	80 - 120

Lab Sample ID: 752-36184-3 MS
Matrix: Water
Analysis Batch: 79014

Client Sample ID: MW-4
Prep Type: Total Recoverable
Prep Batch: 78345

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		100	101.8		ug/L		102	75 - 125
Arsenic	ND		100	100.7		ug/L		101	75 - 125
Barium	150		100	252.4		ug/L		102	75 - 125
Beryllium	ND		100	92.14		ug/L		92	75 - 125
Cadmium	ND		100	98.74		ug/L		99	75 - 125

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

Lab Sample ID: 752-36184-3 MS
Matrix: Water
Analysis Batch: 79014

Client Sample ID: MW-4
Prep Type: Total Recoverable
Prep Batch: 78345

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	ND		100	101.3		ug/L		101	75 - 125
Cobalt	4.24	J	100	103.2		ug/L		99	75 - 125
Copper	1.14	J	100	99.94		ug/L		99	75 - 125
Lead	ND		100	96.33		ug/L		96	75 - 125
Manganese	1530		100	1623	4	ug/L		92	75 - 125
Nickel	1.75	J	100	98.61		ug/L		97	75 - 125
Selenium	ND		100	99.40		ug/L		99	75 - 125
Silver	ND		10.0	9.648		ug/L		96	75 - 125
Thallium	ND		100	97.47		ug/L		97	75 - 125
Vanadium	ND		100	101.2		ug/L		101	75 - 125
Zinc	ND		100	100.0		ug/L		100	75 - 125

Lab Sample ID: 752-36184-3 MSD
Matrix: Water
Analysis Batch: 79014

Client Sample ID: MW-4
Prep Type: Total Recoverable
Prep Batch: 78345

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		100	101.8		ug/L		102	75 - 125	0	20
Arsenic	ND		100	100.4		ug/L		100	75 - 125	0	20
Barium	150		100	251.8		ug/L		102	75 - 125	0	20
Beryllium	ND		100	89.00		ug/L		89	75 - 125	3	20
Cadmium	ND		100	94.40		ug/L		94	75 - 125	4	20
Chromium	ND		100	101.0		ug/L		101	75 - 125	0	20
Cobalt	4.24	J	100	102.3		ug/L		98	75 - 125	1	20
Copper	1.14	J	100	99.12		ug/L		98	75 - 125	1	20
Lead	ND		100	95.80		ug/L		96	75 - 125	1	20
Manganese	1530		100	1608	4	ug/L		78	75 - 125	1	20
Nickel	1.75	J	100	98.16		ug/L		96	75 - 125	0	20
Selenium	ND		100	93.59		ug/L		94	75 - 125	6	20
Silver	ND		10.0	9.779		ug/L		98	75 - 125	1	20
Thallium	ND		100	96.12		ug/L		96	75 - 125	1	20
Vanadium	ND		100	101.0		ug/L		101	75 - 125	0	20
Zinc	ND		100	100.3		ug/L		100	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 705-79866/1-A
Matrix: Water
Analysis Batch: 80061

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 79866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	^+	0.200	0.166	ug/L		09/05/25 15:04	09/05/25 22:20	1

Lab Sample ID: LCS 705-79866/2-A
Matrix: Water
Analysis Batch: 80061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 79866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	4.00	5.089	^+ *+	ug/L		127	80 - 120

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 752-13269/12
Matrix: Water
Analysis Batch: 13269

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.0500	0.0200	mg/L			08/27/25 09:54	1

Lab Sample ID: LCS 752-13269/13
Matrix: Water
Analysis Batch: 13269

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia			1.02	1.019		mg/L		100	90 - 110		

Lab Sample ID: 752-36184-4 MS
Matrix: Water
Analysis Batch: 13269

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Ammonia	0.0240	J F1	0.395	0.2394	F1	mg/L		55	90 - 110		

Lab Sample ID: 752-36184-4 MSD
Matrix: Water
Analysis Batch: 13269

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	0.0240	J F1	0.395	0.2497	F1	mg/L		57	90 - 110	4	30

Method: SM 4500 SO4 E - Sulfate, Total

Lab Sample ID: MB 400-722095/37
Matrix: Water
Analysis Batch: 722095

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.00	1.40	mg/L			09/05/25 12:24	1

Lab Sample ID: LCS 400-722095/38
Matrix: Water
Analysis Batch: 722095

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			15.0	14.69		mg/L		98	90 - 110		

Lab Sample ID: MRL 400-722095/21
Matrix: Water
Analysis Batch: 722095

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			5.00	4.169	J	mg/L		83	50 - 150		

Method: SM 4500 SO4 E - Sulfate, Total (Continued)

Lab Sample ID: 752-36184-1 MS
Matrix: Water
Analysis Batch: 722095

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	13.3	F2	10.0	25.00		mg/L		117	77 - 128		

Lab Sample ID: 752-36184-1 MSD
Matrix: Water
Analysis Batch: 722095

Client Sample ID: MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	13.3	F2	10.0	23.49	F2	mg/L		102	77 - 128	6	5

Lab Sample ID: MB 400-722131/94
Matrix: Water
Analysis Batch: 722131

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.00	1.40	mg/L			09/05/25 15:21	1

Lab Sample ID: LCS 400-722131/95
Matrix: Water
Analysis Batch: 722131

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	15.0	14.57		mg/L		97	90 - 110		

Lab Sample ID: MRL 400-722131/79
Matrix: Water
Analysis Batch: 722131

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	5.00	3.163	J	mg/L		63	50 - 150		

Lab Sample ID: 752-36184-2 MS
Matrix: Water
Analysis Batch: 722131

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	16.3	F1 F2	10.0	37.87	F1	mg/L		216	77 - 128		

Lab Sample ID: 752-36184-2 MSD
Matrix: Water
Analysis Batch: 722131

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	16.3	F1 F2	10.0	41.50	F1 F2	mg/L		252	77 - 128	9	5

GC/MS VOA

Analysis Batch: 721619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36184-1	MW-2	Total/NA	Water	8260D	
752-36184-2	MW-3	Total/NA	Water	8260D	
752-36184-3	MW-4	Total/NA	Water	8260D	
752-36184-4	MW-5	Total/NA	Water	8260D	
752-36184-5	Duplicate-1	Total/NA	Water	8260D	
752-36184-6	Trip Blank	Total/NA	Water	8260D	
MB 400-721619/5	Method Blank	Total/NA	Water	8260D	
LCS 400-721619/1002	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 721223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36184-1	MW-2	Total/NA	Water	3510C	
752-36184-2	MW-3	Total/NA	Water	3510C	
752-36184-3	MW-4	Total/NA	Water	3510C	
752-36184-4	MW-5	Total/NA	Water	3510C	
752-36184-5	Duplicate-1	Total/NA	Water	3510C	
MB 400-721223/1-A	Method Blank	Total/NA	Water	3510C	
LCS 400-721223/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 400-721223/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 721248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36184-1	MW-2	Total/NA	Water	8270E	721289
752-36184-2	MW-3	Total/NA	Water	8270E	721289
752-36184-3	MW-4	Total/NA	Water	8270E	721289
752-36184-4	MW-5	Total/NA	Water	8270E	721289
752-36184-5	Duplicate-1	Total/NA	Water	8270E	721289
MB 400-721289/1-A	Method Blank	Total/NA	Water	8270E	721289
LCS 400-721289/2-A	Lab Control Sample	Total/NA	Water	8270E	721289
LCSD 400-721289/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	721289

Prep Batch: 721289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36184-1	MW-2	Total/NA	Water	3511	
752-36184-2	MW-3	Total/NA	Water	3511	
752-36184-3	MW-4	Total/NA	Water	3511	
752-36184-4	MW-5	Total/NA	Water	3511	
752-36184-5	Duplicate-1	Total/NA	Water	3511	
MB 400-721289/1-A	Method Blank	Total/NA	Water	3511	
LCS 400-721289/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 400-721289/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 721460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36184-1	MW-2	Total/NA	Water	8270E SIM ID	721223
752-36184-2	MW-3	Total/NA	Water	8270E SIM ID	721223
752-36184-3	MW-4	Total/NA	Water	8270E SIM ID	721223
752-36184-4	MW-5	Total/NA	Water	8270E SIM ID	721223
752-36184-5	Duplicate-1	Total/NA	Water	8270E SIM ID	721223

GC/MS Semi VOA (Continued)

Analysis Batch: 721460 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-721223/1-A	Method Blank	Total/NA	Water	8270E SIM ID	721223
LCS 400-721223/2-A	Lab Control Sample	Total/NA	Water	8270E SIM ID	721223
LCSD 400-721223/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM ID	721223

Metals

Prep Batch: 78345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36184-1	MW-2	Total Recoverable	Water	3005A	
752-36184-2	MW-3	Total Recoverable	Water	3005A	
752-36184-3	MW-4	Total Recoverable	Water	3005A	
752-36184-4	MW-5	Total Recoverable	Water	3005A	
752-36184-5	Duplicate-1	Total Recoverable	Water	3005A	
MB 705-78345/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 705-78345/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
752-36184-3 MS	MW-4	Total Recoverable	Water	3005A	
752-36184-3 MSD	MW-4	Total Recoverable	Water	3005A	

Analysis Batch: 79014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36184-1	MW-2	Total Recoverable	Water	6020B	78345
752-36184-2	MW-3	Total Recoverable	Water	6020B	78345
752-36184-3	MW-4	Total Recoverable	Water	6020B	78345
752-36184-4	MW-5	Total Recoverable	Water	6020B	78345
752-36184-5	Duplicate-1	Total Recoverable	Water	6020B	78345
MB 705-78345/1-A	Method Blank	Total Recoverable	Water	6020B	78345
LCS 705-78345/2-A	Lab Control Sample	Total Recoverable	Water	6020B	78345
752-36184-3 MS	MW-4	Total Recoverable	Water	6020B	78345
752-36184-3 MSD	MW-4	Total Recoverable	Water	6020B	78345

Prep Batch: 79866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36184-1	MW-2	Total/NA	Water	7470A	
752-36184-2	MW-3	Total/NA	Water	7470A	
752-36184-3	MW-4	Total/NA	Water	7470A	
752-36184-4	MW-5	Total/NA	Water	7470A	
752-36184-5	Duplicate-1	Total/NA	Water	7470A	
MB 705-79866/1-A	Method Blank	Total/NA	Water	7470A	
LCS 705-79866/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 80061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36184-1	MW-2	Total/NA	Water	7470A	79866
752-36184-2	MW-3	Total/NA	Water	7470A	79866
752-36184-3	MW-4	Total/NA	Water	7470A	79866
752-36184-4	MW-5	Total/NA	Water	7470A	79866
752-36184-5	Duplicate-1	Total/NA	Water	7470A	79866
MB 705-79866/1-A	Method Blank	Total/NA	Water	7470A	79866
LCS 705-79866/2-A	Lab Control Sample	Total/NA	Water	7470A	79866

QC Association Summary

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36184-1

General Chemistry

Analysis Batch: 13269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36184-1	MW-2	Total/NA	Water	350.1	
752-36184-2	MW-3	Total/NA	Water	350.1	
752-36184-3	MW-4	Total/NA	Water	350.1	
752-36184-4	MW-5	Total/NA	Water	350.1	
752-36184-5	Duplicate-1	Total/NA	Water	350.1	
MB 752-13269/12	Method Blank	Total/NA	Water	350.1	
LCS 752-13269/13	Lab Control Sample	Total/NA	Water	350.1	
752-36184-4 MS	MW-5	Total/NA	Water	350.1	
752-36184-4 MSD	MW-5	Total/NA	Water	350.1	

Analysis Batch: 13275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36184-1	MW-2	Total/NA	Water	Nitrate by calc	
752-36184-2	MW-3	Total/NA	Water	Nitrate by calc	
752-36184-3	MW-4	Total/NA	Water	Nitrate by calc	
752-36184-4	MW-5	Total/NA	Water	Nitrate by calc	
752-36184-5	Duplicate-1	Total/NA	Water	Nitrate by calc	

Analysis Batch: 722095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36184-1	MW-2	Total/NA	Water	SM 4500 SO4 E	
752-36184-3	MW-4	Total/NA	Water	SM 4500 SO4 E	
752-36184-4	MW-5	Total/NA	Water	SM 4500 SO4 E	
752-36184-5	Duplicate-1	Total/NA	Water	SM 4500 SO4 E	
MB 400-722095/37	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-722095/38	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-722095/21	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
752-36184-1 MS	MW-2	Total/NA	Water	SM 4500 SO4 E	
752-36184-1 MSD	MW-2	Total/NA	Water	SM 4500 SO4 E	

Analysis Batch: 722131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
752-36184-2	MW-3	Total/NA	Water	SM 4500 SO4 E	
MB 400-722131/94	Method Blank	Total/NA	Water	SM 4500 SO4 E	
LCS 400-722131/95	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
MRL 400-722131/79	Lab Control Sample	Total/NA	Water	SM 4500 SO4 E	
752-36184-2 MS	MW-3	Total/NA	Water	SM 4500 SO4 E	
752-36184-2 MSD	MW-3	Total/NA	Water	SM 4500 SO4 E	

Lab Chronicle

Client: S&ME Inc
Job ID: 752-36184-1
Project/Site: Northgate Park

Client Sample ID: MW-2
Lab Sample ID: 752-36184-1
Date Collected: 08/25/25 14:50
Matrix: Water
Date Received: 08/26/25 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	721619	CAR	EET PEN	09/02/25 19:22
Total/NA	Prep	3511			721289	RAW	EET PEN	08/28/25 07:00
Total/NA	Analysis	8270E		1	721248	JAW	EET PEN	08/29/25 00:36
Total/NA	Prep	3510C			721223	BKL	EET PEN	08/28/25 07:00
Total/NA	Analysis	8270E SIM ID		1	721460	KJA	EET PEN	08/29/25 18:42
Total Recoverable	Prep	3005A			78345	SA	EET ATL	08/29/25 09:29
Total Recoverable	Analysis	6020B		1	79014	IF	EET ATL	09/02/25 18:27
Total/NA	Prep	7470A			79866	GR	EET ATL	09/05/25 15:04
Total/NA	Analysis	7470A		1	80061	GR	EET ATL	09/05/25 23:54
Total/NA	Analysis	350.1		1	13269	ME	EET RAL	08/27/25 10:16
Total/NA	Analysis	Nitrate by calc		1	13275	LEB	EET RAL	08/28/25 11:50
Total/NA	Analysis	SM 4500 SO4 E		1	722095	CJK	EET PEN	09/05/25 12:35

Client Sample ID: MW-3
Lab Sample ID: 752-36184-2
Date Collected: 08/25/25 13:31
Matrix: Water
Date Received: 08/26/25 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	721619	CAR	EET PEN	09/02/25 19:42
Total/NA	Prep	3511			721289	RAW	EET PEN	08/28/25 07:00
Total/NA	Analysis	8270E		1	721248	JAW	EET PEN	08/29/25 01:10
Total/NA	Prep	3510C			721223	BKL	EET PEN	08/28/25 07:00
Total/NA	Analysis	8270E SIM ID		1	721460	KJA	EET PEN	08/29/25 19:04
Total Recoverable	Prep	3005A			78345	SA	EET ATL	08/29/25 09:29
Total Recoverable	Analysis	6020B		1	79014	IF	EET ATL	09/02/25 18:29
Total/NA	Prep	7470A			79866	GR	EET ATL	09/05/25 15:04
Total/NA	Analysis	7470A		1	80061	GR	EET ATL	09/05/25 23:57
Total/NA	Analysis	350.1		1	13269	ME	EET RAL	08/27/25 10:18
Total/NA	Analysis	Nitrate by calc		1	13275	LEB	EET RAL	08/28/25 11:50
Total/NA	Analysis	SM 4500 SO4 E		1	722131	CJK	EET PEN	09/05/25 15:30

Client Sample ID: MW-4
Lab Sample ID: 752-36184-3
Date Collected: 08/25/25 15:37
Matrix: Water
Date Received: 08/26/25 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	721619	CAR	EET PEN	09/02/25 20:03
Total/NA	Prep	3511			721289	RAW	EET PEN	08/28/25 07:00
Total/NA	Analysis	8270E		1	721248	JAW	EET PEN	08/29/25 01:43
Total/NA	Prep	3510C			721223	BKL	EET PEN	08/28/25 07:00
Total/NA	Analysis	8270E SIM ID		1	721460	KJA	EET PEN	08/29/25 19:26
Total Recoverable	Prep	3005A			78345	SA	EET ATL	08/29/25 09:29
Total Recoverable	Analysis	6020B		1	79014	IF	EET ATL	09/02/25 17:40

Lab Chronicle

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36184-1

Client Sample ID: MW-4

Lab Sample ID: 752-36184-3

Date Collected: 08/25/25 15:37

Matrix: Water

Date Received: 08/26/25 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			79866	GR	EET ATL	09/05/25 15:04
Total/NA	Analysis	7470A		1	80061	GR	EET ATL	09/06/25 00:01
Total/NA	Analysis	350.1		1	13269	ME	EET RAL	08/27/25 10:20
Total/NA	Analysis	Nitrate by calc		1	13275	LEB	EET RAL	08/28/25 11:50
Total/NA	Analysis	SM 4500 SO4 E		1	722095	CJK	EET PEN	09/05/25 12:37

Client Sample ID: MW-5

Lab Sample ID: 752-36184-4

Date Collected: 08/25/25 17:07

Matrix: Water

Date Received: 08/26/25 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	721619	CAR	EET PEN	09/02/25 20:24
Total/NA	Prep	3511			721289	RAW	EET PEN	08/28/25 07:00
Total/NA	Analysis	8270E		1	721248	JAW	EET PEN	08/29/25 02:17
Total/NA	Prep	3510C			721223	BKL	EET PEN	08/28/25 07:00
Total/NA	Analysis	8270E SIM ID		1	721460	KJA	EET PEN	08/29/25 19:48
Total Recoverable	Prep	3005A			78345	SA	EET ATL	08/29/25 09:29
Total Recoverable	Analysis	6020B		1	79014	IF	EET ATL	09/02/25 18:32
Total/NA	Prep	7470A			79866	GR	EET ATL	09/05/25 15:04
Total/NA	Analysis	7470A		1	80061	GR	EET ATL	09/06/25 00:05
Total/NA	Analysis	350.1		1	13269	ME	EET RAL	08/27/25 10:25
Total/NA	Analysis	Nitrate by calc		1	13275	LEB	EET RAL	08/28/25 11:50
Total/NA	Analysis	SM 4500 SO4 E		2	722095	CJK	EET PEN	09/05/25 12:37

Client Sample ID: Duplicate-1

Lab Sample ID: 752-36184-5

Date Collected: 08/25/25 00:00

Matrix: Water

Date Received: 08/26/25 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	721619	CAR	EET PEN	09/02/25 20:44
Total/NA	Prep	3511			721289	RAW	EET PEN	08/28/25 07:00
Total/NA	Analysis	8270E		1	721248	JAW	EET PEN	08/29/25 02:50
Total/NA	Prep	3510C			721223	BKL	EET PEN	08/28/25 07:00
Total/NA	Analysis	8270E SIM ID		1	721460	KJA	EET PEN	08/29/25 20:09
Total Recoverable	Prep	3005A			78345	SA	EET ATL	08/29/25 09:29
Total Recoverable	Analysis	6020B		1	79014	IF	EET ATL	09/02/25 18:34
Total/NA	Prep	7470A			79866	GR	EET ATL	09/05/25 15:04
Total/NA	Analysis	7470A		1	80061	GR	EET ATL	09/06/25 00:09
Total/NA	Analysis	350.1		1	13269	ME	EET RAL	08/27/25 10:30
Total/NA	Analysis	Nitrate by calc		1	13275	LEB	EET RAL	08/28/25 11:50
Total/NA	Analysis	SM 4500 SO4 E		1	722095	CJK	EET PEN	09/05/25 12:38

Lab Chronicle

Client: S&ME Inc
Job ID: 752-36184-1
Project/Site: Northgate Park

Client Sample ID: Trip Blank
Lab Sample ID: 752-36184-6

Date Collected: 08/25/25 13:31
Matrix: Water

Date Received: 08/26/25 08:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	721619	CAR	EET PEN	09/02/25 21:05

Laboratory References:

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

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET RAL = Eurofins Raleigh, 104 Woodwinds Industrial Court, Suite A, Cary, NC 27511, TEL (919)467-3090

Accreditation/Certification Summary

Client: S&ME Inc
Job ID: 752-36184-1
Project/Site: Northgate Park

Laboratory: Eurofins Raleigh

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	591	12-31-25

Laboratory: Eurofins Atlanta

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

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	562	12-31-25

Laboratory: Eurofins Pensacola

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
North Carolina (WW/SW)	State	314	12-31-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260D		Water	1,2,4-Trimethylbenzene
8260D		Water	Hexane
8260D		Water	n-Heptane
8270E	3511	Water	3 & 4 Methylphenol
8270E	3511	Water	4-Nitrophenol

Method Summary

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36184-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET PEN
8270E	Semivolatile Organic Compounds (GC-MS/MS)	SW846	EET PEN
8270E SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	EET PEN
6020B	Metals (ICP/MS)	SW846	EET ATL
7470A	Mercury (CVAA)	SW846	EET ATL
350.1	Nitrogen, Ammonia	EPA	EET RAL
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	EET RAL
SM 4500 SO4 E	Sulfate, Total	SM	EET PEN
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET ATL
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET PEN
3511	Microextraction of Organic Compounds	SW846	EET PEN
5030C	Purge and Trap	SW846	EET PEN
7470A	Preparation, Mercury	SW846	EET ATL

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

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

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET RAL = Eurofins Raleigh, 104 Woodwinds Industrial Court, Suite A, Cary, NC 27511, TEL (919)467-3090

Sample Summary

Client: S&ME Inc
Project/Site: Northgate Park

Job ID: 752-36184-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
752-36184-1	MW-2	Water	08/25/25 14:50	08/26/25 08:35	North Carolina
752-36184-2	MW-3	Water	08/25/25 13:31	08/26/25 08:35	North Carolina
752-36184-3	MW-4	Water	08/25/25 15:37	08/26/25 08:35	North Carolina
752-36184-4	MW-5	Water	08/25/25 17:07	08/26/25 08:35	North Carolina
752-36184-5	Duplicate-1	Water	08/25/25 00:00	08/26/25 08:35	North Carolina
752-36184-6	Trip Blank	Water	08/25/25 13:31	08/26/25 08:35	North Carolina

Eurofins Raleigh
104 Woodwinds Industrial Court Suite A
Cary, NC 27511
Phone (919) 467-3090

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Madison Allen	Lab PM: Bechtold, Chad	Carrier Tracking No(s):	COC No: 680-169226-59656.1
Client Contact: Jerry Paul	Phone: 910 578 6095	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: S&ME Inc	PWSID:			Job #:
Address: 3201 Spring Forest Road	Due Date Requested:			
City: Raleigh	TAT Requested (days):			
State, Zip: NC, 27616	Compliance Project: Δ Yes Δ No			
Phone: 919-872-2660(Tel) 919-876-3958(Fax)	PO #: 23050630, Phase Z			
Email: jpaul@smeinc.com	WO #:			
Project Name: Northgate Park	Project #: 68026680			
Site: Northgate Park	SSOW#:			

Analysis Requested

Preservation Codes:
N - None
S - H2SO4
D - HNO3
A - HCL

752-36184 COC

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9056A_ORGFM_28D - Sulfate	350.1 - Ammonia as N	6020B - PRLF 16 Metals, Including prep: 7470A -	8260D - VOC NC 02L List	8270E_SIM_MS_ID - 1,4-Dioxane	8270E_QQQ - SVOC TCL OLM4.2	350.1, 353.2	353.2_Nitrite, Nitrate_Calc (48 hour HT)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	D	A	N	N	S	N		
MW-2	8/25/25	1450	G	W	N	N	X	X	X	X	X	X	X	X		
MW-3		1331	G	W	N	N	X	X	X	X	X	X	X	X		
MW-4		1537	G	W	N	N	X	X	X	X	X	X	X	X		
MW-5		1707	G	W	N	N	X	X	X	X	X	X	X	X		
Duplicate-1		—	G	W	N	N	X	X	X	X	X	X	X	X		
Trip Blank				W												

Initial Temperature: 2.3 °C
Correction Factor: -0.3°C
Corrected Temperature: 2.0 °C
Temp IR Gun: CRY-T-132
Initials: RY BR PG DW DO LB

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) NCDEQ EDD

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Madison Allen	8/26/25 0835	S+ME		8/26/25 0835	Eurofins
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Eurofins Raleigh
104 Woodwinds Industrial Court Suite A
Cary, NC 27511
Phone: 919-467-3090

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Bechtold, Chad	Carrier Tracking No(s): N/A	COC No: 752-6434.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin: North Carolina	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast L		Accreditations Required (See note): State - North Carolina (WW/SW)		Job #: 752-36184-1
Address: 3355 McLemore Drive, ,	Due Date Requested: 9/4/2025			
City: Pensacola	TAT Requested (days): N/A			
State, Zip: FL, 32514				
Phone: 850-474-1001(Tel) 850-478-2671(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Northgate Park	Project #: 68026680			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes:
-

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D/5030CVOC NC 02L List	8270E_QQQ/3511SVOC TCL OLM4.2	8270E_SIM_ID_D5/3510C_LVI1,4 Dioxane	SM4500_SO4_E	Total Number of Containers	Special Instructions/Note:
Preservation Code:												
MW-2 (752-36184-1)	8/25/25	14 50 Eastern	G	Water			X	X	X	X	6	
MW-3 (752-36184-2)	8/25/25	13 31 Eastern	G	Water			X	X	X	X	6	
MW-4 (752-36184-3)	8/25/25	15 37 Eastern	G	Water			X	X	X	X	6	
MW-5 (752-36184-4)	8/25/25	17 07 Eastern	G	Water			X	X	X	X	6	
Duplicate-1 (752-36184-5)	8/25/25	Eastern	G	Water			X	X	X	X	6	
Trip Blank (752-36184-6)	8/25/25	13 31 Eastern	G	Water			X				2	

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing Southeast, LLC places the ownership of method analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I, II, III, IV, Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
PG	8/26/25 12:53				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8/27/25 938	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No..	Cooler Temperature(s) °C and Other Remarks: 0.0, 0.0 IR10

Ver 10/10/2024

9/9/2025

XS PNSA

FL-US BFM

32514

MPS# 4722 5179 9365

0283

Mstr# 4722 5179 9354

0201

2 of 2

WED - 27 AUG 10:30A

PRIORITY OVERNIGHT

FedEx Express

J243024077401UV

PENSACOLA FL 325147045

REF:

INV:

PO:

DEPT:

TO EUROFINS-PENSACOLA

EUROFINS-PENSACOLA

3355 MCLEMORE DR

ORIGIN ID:GOPA (919) 467-3090

LAUREN BROUSSEAU

EUROFINS RALEIGH

104-B WOODWINDS INDUSTRIAL COURT

CARY, NC 27511

UNITED STATES US

BILL SENDER

SHIP DATE: 26AUG25

ACTWGT: 20.00 LB MAN

CAD: 0923009/CAFE3855

Part # 159488-434 RRDB EXP 07/26

SB9C4/8855/FZ2B

D.DOC
DHD
1MA

XS PNSA

MASTER

TRK# 0201 4722 5179 9354

1 of 2

WED - 27 AUG 10:30A
PRIORITY OVERNIGHT

32514
FL-US BFM

FedEx Express

J24302407040101v

INV: P01 DEPT: REF:

PENSACOLA FL 325147045

TO EUROFINS - PENSACOLA
EUROFINS * PENSACOLA
3355 MCLEMORE DR

ORIGIN ID:SORA (919) 467-3090
LAUREN BROUSSEAU
EUROFINS RALEIGH
104-A WOODWINDS INDUSTRIAL COURT
CARY, NC 27511
UNITED STATES US

SHIP DATE: 26AUG25
ACTWGT: 20.00 LB MAN
CAD: 0823009/CAFE3855

BILL SENDER

Part # 159469-434 RRDB EXP 07/26

589C4/B55/FED

Eurofins Raleigh
104 Woodwinds Industrial Court Suite A
Cary, NC 27511
Phone: 919-467-3090

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Bechtold, Chad	Carrier Tracking No(s): N/A	COC No: 752-6432.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Chad.Bechtold@et.eurofinsus.com	State of Origin: North Carolina	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast L		Accreditations Required (See note): State - North Carolina (WW/SW)		Job #: 752-36184-1
Address: 3080 Presidential Dr, ,	Due Date Requested: 9/4/2025			
City: Atlanta	TAT Requested (days): N/A			
State, Zip: GA, 30340				
Phone: 770-457-8177(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Northgate Park	Project #: 68026680			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/3005APRLF 16 Metals, including prep	7470A/7470A_PrepMercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-2 (752-36184-1)	8/25/25	14:50 Eastern	G	Water			X	X	1	
MW-3 (752-36184-2)	8/25/25	13:31 Eastern	G	Water			X	X	1	
MW-4 (752-36184-3)	8/25/25	15:37 Eastern	G	Water			X	X	1	
MW-5 (752-36184-4)	8/25/25	17:07 Eastern	G	Water			X	X	1	
Duplicate-1 (752-36184-5)	8/25/25	Eastern	G	Water			X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Southeast, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Southeast, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Southeast, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Southeast, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	PG	8/26/25 12:53		[signature]	8/27/25 9:43	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1-3 #2685

Login Sample Receipt Checklist

Client: S&ME Inc

Job Number: 752-36184-1

Login Number: 36184

List Source: Eurofins Raleigh

List Number: 1

Creator: Yonish, Rachel

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

Login Sample Receipt Checklist

Client: S&ME Inc

Job Number: 752-36184-1

Login Number: 36184
List Number: 2
Creator: Ceclu, Rodica

List Source: Eurofins Atlanta
List Creation: 08/27/25 09:55 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
The cooler does not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Sample custody seals, if present, are intact.	True	
Sample collection date/times are provided.	True	
The samples do not appear to have been compromised or tampered with.	True	
Containers are not broken or leaking.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Appropriate sample containers were rec'd and sufficient volume for all analyses.	True	
Samples are received within Holding Time (excluding tests with immediate HTs).	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Is there sufficient air space in bottle for bacteriological analysis.	True	

Login Sample Receipt Checklist

Client: S&ME Inc

Job Number: 752-36184-1

Login Number: 36184
List Number: 3
Creator: Bankston, Victoria K

List Source: Eurofins Pensacola
List Creation: 08/27/25 04:34 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0, 0.0°C IR10
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix V- NCDEQ Risk Calculator Package

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Northgate Park
Site Address:	300 W. Club Boulevard & 404 W. Lavender Avenue, Durham, NC
DEQ Section:	PRLF
Site ID:	NONCD0000825
Exposure Unit ID:	MW-02
Submittal Date:	9/16/2025
Prepared By:	Jonathan Olanin
Reviewed By:	Jerry Paul

Complete Exposure Pathways	Input Form 1A
Version Date: January 2025 **Basis: November 2024 EPA RSL Table**	
Site ID: NONCD0000825	
Exposure Unit ID: MW-02	
Note: Risk output will only be calculated for complete exposure pathways.	

Receptor	Pathway	Check box if pathway complete
DIRECT CONTACT SOIL AND WATER PATHWAYS		
Resident	Soil	☐
	Groundwater Use	☑
Non-Residential Worker	Soil	☐
	Groundwater Use	☑
Construction Worker	Soil	☐
Recreator/Trespasser	Soil	☐
	Surface Water	☐
VAPOR INTRUSION PATHWAYS		
Resident	Groundwater to Indoor Air	☑
	Soil Gas to Indoor Air	☐
	Indoor Air	☐
Non-Residential Worker	Groundwater to Indoor Air	☑
	Soil Gas to Indoor Air	☐
	Indoor Air	☐
CONTAMINANT MIGRATION PATHWAYS		
Groundwater	Source Soil	☐
	Source Groundwater	☑
Surface Water	Source Soil	☐
	Source Groundwater	☑

Exposure Point Concentrations **Input Form 2B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-02

Groundwater Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

NOTE: If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (ug/L)	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
329		7440-39-3	Barium			ug/L	MW-02									
4.03	J	16065-83-1	Chromium(III), Insoluble Salts			ug/L	MW-02									
1.72	J	7440-48-4	Cobalt			ug/L	MW-02									
1.45	J	7440-50-8	Copper			ug/L	MW-02									
440		7439-96-5	Manganese (Non-diet)			ug/L	MW-02									
1.09	J	7440-02-0	Nickel Soluble Salts			ug/L	MW-02									
1.61	J	7440-62-2	Vanadium and Compounds			ug/L	MW-02									
454		7440-66-6	Zinc and Compounds			ug/L	MW-02									

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-02

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	0.0E+00	1.4E+00	YES
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	0.0E+00	2.4E-01	NO
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	0.0E+00	0.0E+00	NO
	Soil Gas to Indoor Air	NC	NC	NC
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	0.0E+00	0.0E+00	NO
	Soil Gas to Indoor Air	NC	NC	NC
	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?	NM
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NM

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.

Sitewide Risk **Output Form 1B**

Version Date: January 2025 NOTE: If any changes were made, select "Update Sitewide Risk Values" to obtain updated values.

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-02

		Resident - Current Scenario			Resident - Future Scenario			Non-Residential Worker - Current Scenario			Non-Residential Worker - Future Scenario			Construction Worker			Recreator/Trespasser		
Receptor	**Pathway**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**
DIRECT CONTACT SOIL AND WATER CALCULATORS																			
Resident	Soil	☐	NM	NM	☐	NM	NM												
	Groundwater Use*	☐	NM	NM	☐	NM	NM												
Non-Residential Worker	Soil							☐	NM	NM	☐	NM	NM						
	Groundwater Use*							☐	NM	NM	☐	NM	NM						
Construction Worker	Soil													☐	NM	NM			
Recreator/Trespasser	Soil																☐	NM	NM
	Surface Water Use*																☐	NM	NM
VAPOR INTRUSION CALCULATORS																			
Resident	Groundwater to Indoor Air	☐	NM	NM	☐	NM	NM												
	Soil Gas to Indoor Air	☐	NM	NM	☐	NM	NM												
	Indoor Air	☐	NM	NM	☐	NM	NM												
Non-Residential Worker	Groundwater to Indoor Air							☐	NM	NM	☐	NM	NM						
	Soil Gas to Indoor Air							☐	NM	NM	☐	NM	NM						
	Indoor Air							☐	NM	NM	☐	NM	NM						
TOTAL SITEWIDE RISK FOR EACH RECEPTOR			0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00

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
4. NC = Pathway not calculated

DEQ Risk Calculator - Direct Contact - Resident Groundwater Use **Output Form 2B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-02

** - Note that inhalation on this calculator refers to inhalation associated with tapwater use, not inhalation associated with vapor intrusion from subsurface groundwater sources.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA Action Level of 15 µg/L.*

CAS #	Chemical Name:	Ingestion Concentration (ug/L)	Dermal Concentration (ug/L)	Inhalation Concentration (ug/L)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk*	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient*	Calculated Non-Carcinogenic Hazard Quotient
7440-39-3	Barium	329	329	329					8.2E-02	5.2E-03		8.7E-02
16065-83-1	Chromium(III), Insoluble Salts	4.03	4.03	4.03					1.3E-04	4.5E-05		1.8E-04
7440-48-4	Cobalt	1.72	1.72	1.72					**2.9E-01**	5.0E-04		**2.9E-01**
7440-50-8	Copper	1.45	1.45	1.45					1.8E-03	8.0E-06		1.8E-03
7439-96-5	Manganese (Non-diet)	440	440	440					**9.1E-01**	1.0E-01		**1.0E+00**
7440-02-0	Nickel Soluble Salts	1.09	1.09	1.09					2.7E-03	6.0E-05		2.8E-03
14797-55-8	Nitrate (measured as nitrogen)											
7440-62-2	Vanadium and Compounds	1.61	1.61	1.61					1.6E-02	2.7E-03		1.9E-02
						Cumulative:		0.0E+00				**1.4E+00**

DEQ Risk Calculator - Direct Contact - Non-Residential Worker Groundwater Use **Output Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-02

** - Note that inhalation on this calculator refers to inhalation associated with tapwater use, not inhalation associated with vapor intrusion from subsurface groundwater sources.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA Action Level of 15 µg/L.*

CAS #	Chemical Name:	Ingestion Concentration (ug/L)	Dermal Concentration (ug/L)	Inhalation Concentration (ug/L)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
7440-39-3	Barium	329	329	329					1.2E-02	2.6E-03		1.4E-02
16065-83-1	Chromium(III), Insoluble Salts	4.03	4.03	4.03					1.9E-05	2.3E-05		4.2E-05
7440-48-4	Cobalt	1.72	1.72	1.72					4.1E-02	2.6E-04		4.1E-02
7440-50-8	Copper	1.45	1.45	1.45					2.6E-04	4.1E-06		2.6E-04
7439-96-5	Manganese (Non-diet)	440	440	440					1.3E-01	5.2E-02		1.8E-01
7440-02-0	Nickel Soluble Salts	1.09	1.09	1.09					3.9E-04	3.1E-05		4.2E-04
14797-55-8	Nitrate (measured as nitrogen)											
7440-62-2	Vanadium and Compounds	1.61	1.61	1.61					2.3E-03	1.4E-03		3.7E-03
						Cumulative:		0.0E+00				2.4E-01

DEQ Risk Calculator - Vapor Intrusion - Resident Groundwater to Indoor Air **Output Form 3A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-02

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.

Groundwater concentrations are in ug/L. Air concentrations are in ug/m^3.

CAS #	Chemical Name:	Groundwater Concentration (ug/L)	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
7440-39-3	Barium	329	-	1.0E-01		
16065-83-1	Chromium(III), Insoluble Salts	4.03	-	-		
7440-48-4	Cobalt	1.72	3.1E-04	1.3E-03		
7440-50-8	Copper	1.45	-	-		
7439-96-5	Manganese (Non-diet)	440	-	1.0E-02		
7440-02-0	Nickel Soluble Salts	1.09	1.1E-02	2.1E-03		
14797-55-8	Nitrate (measured as nitrogen)		-	-		
7440-62-2	Vanadium and Compounds	1.61	-	2.1E-02		
				Cumulative:	0.0E+00	0.0E+00

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Groundwater to Indoor Air **Output Form 3D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-02

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.

Groundwater concentrations are in ug/L. Air concentrations are in ug/m^3.

CAS #	Chemical Name:	Groundwater Concentration (ug/L)	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
7440-39-3	Barium	329		-	4.4E-01		
16065-83-1	Chromium(III), Insoluble Salts	4.03		-	-		
7440-48-4	Cobalt	1.72		1.4E-03	5.3E-03		
7440-50-8	Copper	1.45		-	-		
7439-96-5	Manganese (Non-diet)	440		-	4.4E-02		
7440-02-0	Nickel Soluble Salts	1.09		4.7E-02	8.8E-03		
7440-62-2	Vanadium and Compounds	1.61		-	8.8E-02		
7440-66-6	Zinc and Compounds	454		-	-		
					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:	Northgate Park
Site Address:	300 W. Club Boulevard & 404 W. Lavender Avenue, Durham, NC
DEQ Section:	PRLF
Site ID:	NONCD0000825
Exposure Unit ID:	MW-03
Submittal Date:	9/16/2025
Prepared By:	Jonathan Olanin
Reviewed By:	Jerry Paul

Complete Exposure Pathways		Input Form 1A
Version Date: January 2025 **Basis: November 2024 EPA RSL Table**		
Site ID: NONCD0000825		
Exposure Unit ID: MW-03		
Note: Risk output will only be calculated for complete exposure pathways.		
Receptor	**Pathway**	**Check box if pathway complete**
DIRECT CONTACT SOIL AND WATER PATHWAYS		
Resident	Soil	☐
	Groundwater Use	☑
Non-Residential Worker	Soil	☐
	Groundwater Use	☑
Construction Worker	Soil	☐
Recreator/Trespasser	Soil	☐
	Surface Water	☐
VAPOR INTRUSION PATHWAYS		
Resident	Groundwater to Indoor Air	☑
	Soil Gas to Indoor Air	☐
	Indoor Air	☐
Non-Residential Worker	Groundwater to Indoor Air	☑
	Soil Gas to Indoor Air	☐
	Indoor Air	☐
CONTAMINANT MIGRATION PATHWAYS		
Groundwater	Source Soil	☐
	Source Groundwater	☑
Surface Water	Source Soil	☐
	Source Groundwater	☑

Exposure Point Concentrations **Input Form 2B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-03

Groundwater Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

NOTE: If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (ug/L)	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
127		7664-41-7	Ammonia			ug/L	MW-03									
2.36	J	7440-38-2	Arsenic, Inorganic			ug/L	MW-03									
203		7440-39-3	Barium			ug/L	MW-03									
5.75		16065-83-1	Chromium(III), Insoluble Salts			ug/L	MW-03									
4.24	J	7440-48-4	Cobalt			ug/L	MW-03									
2.51		7440-50-8	Copper			ug/L	MW-03									
1.65		123-91-1	Dioxane, 1,4-			ug/L	MW-03									
667		7439-96-5	Manganese (Non-diet)			ug/L	MW-03									
2.59	J	7440-02-0	Nickel Soluble Salts			ug/L	MW-03									
1.56	J	108-95-2	Phenol			ug/L	MW-03									
6.44		7440-62-2	Vanadium and Compounds			ug/L	MW-03									
14.8		7440-66-6	Zinc and Compounds			ug/L	MW-03									

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-03

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	0.0E+00	2.4E+00	YES
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	0.0E+00	4.0E-01	NO
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	0.0E+00	0.0E+00	NO
	Soil Gas to Indoor Air	NC	NC	NC
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	1.3E-10	4.1E-05	NO
	Soil Gas to Indoor Air	NC	NC	NC
	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?	NM
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NM

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.

Sitewide Risk **Output Form 1B**

Version Date: January 2025 NOTE: If any changes were made, select "Update Sitewide Risk Values" to obtain updated values.

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-03

		Resident - Current Scenario			Resident - Future Scenario			Non-Residential Worker - Current Scenario			Non-Residential Worker - Future Scenario			Construction Worker			Recreator/Trespasser		
Receptor	**Pathway**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**
DIRECT CONTACT SOIL AND WATER CALCULATORS																			
Resident	Soil	☐	NM	NM	☐	NM	NM												
	Groundwater Use*	☐	NM	NM	☐	NM	NM												
Non-Residential Worker	Soil							☐	NM	NM	☐	NM	NM						
	Groundwater Use*							☐	NM	NM	☐	NM	NM						
Construction Worker	Soil													☐	NM	NM			
Recreator/Trespasser	Soil																☐	NM	NM
	Surface Water Use*																☐	NM	NM
VAPOR INTRUSION CALCULATORS																			
Resident	Groundwater to Indoor Air	☐	NM	NM	☐	NM	NM												
	Soil Gas to Indoor Air	☐	NM	NM	☐	NM	NM												
	Indoor Air	☐	NM	NM	☐	NM	NM												
Non-Residential Worker	Groundwater to Indoor Air							☐	NM	NM	☐	NM	NM						
	Soil Gas to Indoor Air							☐	NM	NM	☐	NM	NM						
	Indoor Air							☐	NM	NM	☐	NM	NM						
TOTAL SITEWIDE RISK FOR EACH RECEPTOR			0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00

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
4. NC = Pathway not calculated

DEQ Risk Calculator - Direct Contact - Resident Groundwater Use **Output Form 2B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-03

** - Note that inhalation on this calculator refers to inhalation associated with tapwater use, not inhalation associated with vapor intrusion from subsurface groundwater sources.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA Action Level of 15 µg/L.*

CAS #	Chemical Name:	Ingestion Concentration (ug/L)	Dermal Concentration (ug/L)	Inhalation Concentration (ug/L)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk*	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient*	Calculated Non-Carcinogenic Hazard Quotient
7440-39-3	Barium	203	203	203					5.1E-02	3.2E-03		5.4E-02
16065-83-1	Chromium(III), Insoluble Salts	5.75	5.75	5.75					1.9E-04	6.5E-05		2.6E-04
7440-48-4	Cobalt	4.24	4.24	4.24					**7.0E-01**	1.2E-03		**7.1E-01**
7440-50-8	Copper	2.51	2.51	2.51					3.1E-03	1.4E-05		3.1E-03
7439-96-5	Manganese (Non-diet)	667	667	667					**1.4E+00**	1.5E-01		**1.5E+00**
7440-02-0	Nickel Soluble Salts	2.59	2.59	2.59					6.5E-03	1.4E-04		6.6E-03
14797-55-8	Nitrate (measured as nitrogen)											
7440-62-2	Vanadium and Compounds	6.44	6.44	6.44					6.4E-02	1.1E-02		7.5E-02
						Cumulative:		0.0E+00				**2.4E+00**

DEQ Risk Calculator - Direct Contact - Non-Residential Worker Groundwater Use **Output Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-03

** - Note that inhalation on this calculator refers to inhalation associated with tapwater use, not inhalation associated with vapor intrusion from subsurface groundwater sources.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA Action Level of 15 µg/L.*

CAS #	Chemical Name:	Ingestion Concentration (ug/L)	Dermal Concentration (ug/L)	Inhalation Concentration (ug/L)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
7440-39-3	Barium	203	203	203					7.2E-03	1.6E-03		8.8E-03
16065-83-1	Chromium(III), Insoluble Salts	5.75	5.75	5.75					2.7E-05	3.3E-05		6.0E-05
7440-48-4	Cobalt	4.24	4.24	4.24					1.0E-01	6.4E-04		1.0E-01
7440-50-8	Copper	2.51	2.51	2.51					4.5E-04	7.1E-06		4.5E-04
7439-96-5	Manganese (Non-diet)	667	667	667					2.0E-01	7.8E-02		**2.8E-01**
7440-02-0	Nickel Soluble Salts	2.59	2.59	2.59					9.2E-04	7.3E-05		9.9E-04
14797-55-8	Nitrate (measured as nitrogen)											
7440-62-2	Vanadium and Compounds	6.44	6.44	6.44					9.1E-03	5.5E-03		1.5E-02
						Cumulative:		0.0E+00				4.0E-01

DEQ Risk Calculator - Vapor Intrusion - Resident Groundwater to Indoor Air **Output Form 3A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-03

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.

Groundwater concentrations are in ug/L. Air concentrations are in ug/m^3.

CAS #	Chemical Name:	Groundwater Concentration (ug/L)	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
7440-39-3	Barium	203	-	1.0E-01		
16065-83-1	Chromium(III), Insoluble Salts	5.75	-	-		
7440-48-4	Cobalt	4.24	3.1E-04	1.3E-03		
7440-50-8	Copper	2.51	-	-		
7439-96-5	Manganese (Non-diet)	667	-	1.0E-02		
7440-02-0	Nickel Soluble Salts	2.59	1.1E-02	2.1E-03		
14797-55-8	Nitrate (measured as nitrogen)		-	-		
7440-62-2	Vanadium and Compounds	6.44	-	2.1E-02		
				Cumulative:	0.0E+00	0.0E+00

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Groundwater to Indoor Air **Output Form 3D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-03

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.

Groundwater concentrations are in ug/L. Air concentrations are in ug/m^3.

CAS #	Chemical Name:	Groundwater Concentration (ug/L)	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
7664-41-7	Ammonia	127	0.083593622	-	4.4E+02		3.8E-05
7440-38-2	Arsenic, Inorganic	2.36		2.9E-03	1.3E-02		
7440-39-3	Barium	203		-	4.4E-01		
16065-83-1	Chromium(III), Insoluble Salts	5.75		-	-		
7440-48-4	Cobalt	4.24		1.4E-03	5.3E-03		
7440-50-8	Copper	2.51		-	-		
123-91-1	Dioxane, 1,4-	1.65	0.000323794	2.5E+00	2.6E+01	1.3E-10	2.5E-06
7439-96-5	Manganese (Non-diet)	667		-	4.4E-02		
7440-02-0	Nickel Soluble Salts	2.59		4.7E-02	8.8E-03		
108-95-2	Phenol	1.56	2.12379E-05	-	1.8E+02		
7440-62-2	Vanadium and Compounds	6.44		-	8.8E-02		
7440-66-6	Zinc and Compounds	14.8		-	-		
					Cumulative:	1.3E-10	4.1E-05

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Northgate Park
Site Address:	300 W. Club Boulevard & 404 W. Lavender Avenue, Durham, NC
DEQ Section:	PRLF
Site ID:	NONCD0000825
Exposure Unit ID:	MW-04
Submittal Date:	9/16/2025
Prepared By:	Jonathan Olanin
Reviewed By:	Jerry Paul

Complete Exposure Pathways		Input Form 1A
Version Date: January 2025 **Basis: November 2024 EPA RSL Table**		
Site ID: NONCD0000825		
Exposure Unit ID: MW-04		
Note: Risk output will only be calculated for complete exposure pathways.		
Receptor	**Pathway**	**Check box if pathway complete**
DIRECT CONTACT SOIL AND WATER PATHWAYS		
Resident	Soil	☐
	Groundwater Use	☑
Non-Residential Worker	Soil	☐
	Groundwater Use	☑
Construction Worker	Soil	☐
Recreator/Trespasser	Soil	☐
	Surface Water	☐
VAPOR INTRUSION PATHWAYS		
Resident	Groundwater to Indoor Air	☑
	Soil Gas to Indoor Air	☐
	Indoor Air	☐
Non-Residential Worker	Groundwater to Indoor Air	☑
	Soil Gas to Indoor Air	☐
	Indoor Air	☐
CONTAMINANT MIGRATION PATHWAYS		
Groundwater	Source Soil	☐
	Source Groundwater	☑
Surface Water	Source Soil	☐
	Source Groundwater	☑

Exposure Point Concentrations **Input Form 2B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-04

Groundwater Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

NOTE: If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (ug/L)	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
150		7440-39-3	Barium			ug/L	MW-04									
4.24	J	7440-48-4	Cobalt			ug/L	MW-04									
1.14	J	7440-50-8	Copper			ug/L	MW-04									
1530		7439-96-5	Manganese (Non-diet)			ug/L	MW-04									
1.75	J	7440-02-0	Nickel Soluble Salts			ug/L	MW-04									

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-04

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	0.0E+00	4.3E+00	YES
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	0.0E+00	7.4E-01	NO
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	0.0E+00	0.0E+00	NO
	Soil Gas to Indoor Air	NC	NC	NC
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	0.0E+00	0.0E+00	NO
	Soil Gas to Indoor Air	NC	NC	NC
	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?	NM
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NM

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.

Sitewide Risk **Output Form 1B**

Version Date: January 2025 NOTE: If any changes were made, select "Update Sitewide Risk Values" to obtain updated values.

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-04

		Resident - Current Scenario			Resident - Future Scenario			Non-Residential Worker - Current Scenario			Non-Residential Worker - Future Scenario			Construction Worker			Recreator/Trespasser		
Receptor	**Pathway**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**
DIRECT CONTACT SOIL AND WATER CALCULATORS																			
Resident	Soil	☐	NM	NM	☐	NM	NM												
	Groundwater Use*	☐	NM	NM	☐	NM	NM												
Non-Residential Worker	Soil							☐	NM	NM	☐	NM	NM						
	Groundwater Use*							☐	NM	NM	☐	NM	NM						
Construction Worker	Soil													☐	NM	NM			
Recreator/Trespasser	Soil																☐	NM	NM
	Surface Water Use*																☐	NM	NM
VAPOR INTRUSION CALCULATORS																			
Resident	Groundwater to Indoor Air	☐	NM	NM	☐	NM	NM												
	Soil Gas to Indoor Air	☐	NM	NM	☐	NM	NM												
	Indoor Air	☐	NM	NM	☐	NM	NM												
Non-Residential Worker	Groundwater to Indoor Air							☐	NM	NM	☐	NM	NM						
	Soil Gas to Indoor Air							☐	NM	NM	☐	NM	NM						
	Indoor Air							☐	NM	NM	☐	NM	NM						
TOTAL SITEWIDE RISK FOR EACH RECEPTOR			0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00

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
4. NC = Pathway not calculated

DEQ Risk Calculator - Direct Contact - Resident Groundwater Use **Output Form 2B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-04

** - Note that inhalation on this calculator refers to inhalation associated with tapwater use, not inhalation associated with vapor intrusion from subsurface groundwater sources.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA Action Level of 15 µg/L.*

CAS #	Chemical Name:	Ingestion Concentration (ug/L)	Dermal Concentration (ug/L)	Inhalation Concentration (ug/L)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk*	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient*	Calculated Non-Carcinogenic Hazard Quotient
7440-39-3	Barium	150	150	150					3.7E-02	2.4E-03		4.0E-02
16065-83-1	Chromium(III), Insoluble Salts											
7440-48-4	Cobalt	4.24	4.24	4.24					**7.0E-01**	1.2E-03		**7.1E-01**
7440-50-8	Copper	1.14	1.14	1.14					1.4E-03	6.3E-06		1.4E-03
7439-96-5	Manganese (Non-diet)	1530	1530	1530					**3.2E+00**	**3.5E-01**		**3.5E+00**
7440-02-0	Nickel Soluble Salts	1.75	1.75	1.75					4.4E-03	9.6E-05		4.5E-03
14797-55-8	Nitrate (measured as nitrogen)											
7440-62-2	Vanadium and Compounds											
						Cumulative:		0.0E+00				**4.3E+00**

DEQ Risk Calculator - Direct Contact - Non-Residential Worker Groundwater Use **Output Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-04

** - Note that inhalation on this calculator refers to inhalation associated with tapwater use, not inhalation associated with vapor intrusion from subsurface groundwater sources.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA Action Level of 15 µg/L.*

CAS #	Chemical Name:	Ingestion Concentration (ug/L)	Dermal Concentration (ug/L)	Inhalation Concentration (ug/L)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
7440-39-3	Barium	150	150	150					5.3E-03	1.2E-03		6.5E-03
16065-83-1	Chromium(III), Insoluble Salts											
7440-48-4	Cobalt	4.24	4.24	4.24					1.0E-01	6.4E-04		1.0E-01
7440-50-8	Copper	1.14	1.14	1.14					2.0E-04	3.2E-06		2.1E-04
7439-96-5	Manganese (Non-diet)	1530	1530	1530					**4.5E-01**	1.8E-01		**6.3E-01**
7440-02-0	Nickel Soluble Salts	1.75	1.75	1.75					6.2E-04	4.9E-05		6.7E-04
14797-55-8	Nitrate (measured as nitrogen)											
7440-62-2	Vanadium and Compounds											
						Cumulative:		0.0E+00				7.4E-01

DEQ Risk Calculator - Vapor Intrusion - Resident Groundwater to Indoor Air **Output Form 3A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-04

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.

Groundwater concentrations are in ug/L. Air concentrations are in ug/m^3.

CAS #	Chemical Name:	Groundwater Concentration (ug/L)	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
7440-39-3	Barium	150	-	1.0E-01		
16065-83-1	Chromium(III), Insoluble Salts		-	-		
7440-48-4	Cobalt	4.24	3.1E-04	1.3E-03		
7440-50-8	Copper	1.14	-	-		
7439-96-5	Manganese (Non-diet)	1530	-	1.0E-02		
7440-02-0	Nickel Soluble Salts	1.75	1.1E-02	2.1E-03		
14797-55-8	Nitrate (measured as nitrogen)		-	-		
7440-62-2	Vanadium and Compounds		-	2.1E-02		
				Cumulative:	0.0E+00	0.0E+00

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Groundwater to Indoor Air **Output Form 3D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-04

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.

Groundwater concentrations are in ug/L. Air concentrations are in ug/m^3.

CAS #	Chemical Name:	Groundwater Concentration (ug/L)	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
7440-39-3	Barium	150		-	4.4E-01		
7440-48-4	Cobalt	4.24		1.4E-03	5.3E-03		
7440-50-8	Copper	1.14		-	-		
7439-96-5	Manganese (Non-diet)	1530		-	4.4E-02		
7440-02-0	Nickel Soluble Salts	1.75		4.7E-02	8.8E-03		
					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:	Northgate Park
Site Address:	300 W. Club Boulevard & 404 W. Lavender Avenue, Durham, NC
DEQ Section:	PRLF
Site ID:	NONCD0000825
Exposure Unit ID:	MW-05
Submittal Date:	9/16/2025
Prepared By:	Jonathan Olanin
Reviewed By:	Jerry Paul

Complete Exposure Pathways		Input Form 1A
Version Date: January 2025 **Basis: November 2024 EPA RSL Table**		
Site ID: NONCD0000825		
Exposure Unit ID: MW-05		
Note: Risk output will only be calculated for complete exposure pathways.		
Receptor	**Pathway**	**Check box if pathway complete**
DIRECT CONTACT SOIL AND WATER PATHWAYS		
Resident	Soil	☐
	Groundwater Use	☑
Non-Residential Worker	Soil	☐
	Groundwater Use	☑
Construction Worker	Soil	☐
Recreator/Trespasser	Soil	☐
	Surface Water	☐
VAPOR INTRUSION PATHWAYS		
Resident	Groundwater to Indoor Air	☑
	Soil Gas to Indoor Air	☐
	Indoor Air	☐
Non-Residential Worker	Groundwater to Indoor Air	☑
	Soil Gas to Indoor Air	☐
	Indoor Air	☐
CONTAMINANT MIGRATION PATHWAYS		
Groundwater	Source Soil	☐
	Source Groundwater	☑
Surface Water	Source Soil	☐
	Source Groundwater	☑

Exposure Point Concentrations **Input Form 2B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-05

Groundwater Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

NOTE: If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (ug/L)	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
24	J F1	7664-41-7	Ammonia			ug/L	MW-05									
103		7440-39-3	Barium			ug/L	MW-05									
3.47	J	7440-48-4	Cobalt			ug/L	MW-05									
1.42	J	7440-50-8	Copper			ug/L	MW-05									
1060		7439-96-5	Manganese (Non-diet)			ug/L	MW-05									
3.56	J	7440-02-0	Nickel Soluble Salts			ug/L	MW-05									
607		14797-55-8	Nitrate (measured as nitrogen)			ug/L	MW-05									
4.31	J	7440-62-2	Vanadium and Compounds			ug/L	MW-05									

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-05

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	0.0E+00	3.1E+00	YES
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	0.0E+00	5.4E-01	NO
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	0.0E+00	0.0E+00	NO
	Soil Gas to Indoor Air	NC	NC	NC
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	0.0E+00	7.2E-06	NO
	Soil Gas to Indoor Air	NC	NC	NC
	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?	NM
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NM

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.

Sitewide Risk **Output Form 1B**

Version Date: January 2025 NOTE: If any changes were made, select "Update Sitewide Risk Values" to obtain updated values.

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-05

		Resident - Current Scenario			Resident - Future Scenario			Non-Residential Worker - Current Scenario			Non-Residential Worker - Future Scenario			Construction Worker			Recreator/Trespasser		
Receptor	**Pathway**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**
DIRECT CONTACT SOIL AND WATER CALCULATORS																			
Resident	Soil	☐	NM	NM	☐	NM	NM												
	Groundwater Use*	☐	NM	NM	☐	NM	NM												
Non-Residential Worker	Soil							☐	NM	NM	☐	NM	NM						
	Groundwater Use*							☐	NM	NM	☐	NM	NM						
Construction Worker	Soil													☐	NM	NM			
Recreator/Trespasser	Soil																☐	NM	NM
	Surface Water Use*																☐	NM	NM
VAPOR INTRUSION CALCULATORS																			
Resident	Groundwater to Indoor Air	☐	NM	NM	☐	NM	NM												
	Soil Gas to Indoor Air	☐	NM	NM	☐	NM	NM												
	Indoor Air	☐	NM	NM	☐	NM	NM												
Non-Residential Worker	Groundwater to Indoor Air							☐	NM	NM	☐	NM	NM						
	Soil Gas to Indoor Air							☐	NM	NM	☐	NM	NM						
	Indoor Air							☐	NM	NM	☐	NM	NM						
TOTAL SITEWIDE RISK FOR EACH RECEPTOR			0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00

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
4. NC = Pathway not calculated

DEQ Risk Calculator - Direct Contact - Resident Groundwater Use **Output Form 2B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-05

** - Note that inhalation on this calculator refers to inhalation associated with tapwater use, not inhalation associated with vapor intrusion from subsurface groundwater sources.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA Action Level of 15 µg/L.*

CAS #	Chemical Name:	Ingestion Concentration (ug/L)	Dermal Concentration (ug/L)	Inhalation Concentration (ug/L)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk*	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient*	Calculated Non-Carcinogenic Hazard Quotient
7440-39-3	Barium	103	103	103					2.6E-02	1.6E-03		2.7E-02
16065-83-1	Chromium(III), Insoluble Salts											
7440-48-4	Cobalt	3.47	3.47	3.47					**5.8E-01**	1.0E-03		**5.8E-01**
7440-50-8	Copper	1.42	1.42	1.42					1.8E-03	7.8E-06		1.8E-03
7439-96-5	Manganese (Non-diet)	1060	1060	1060					**2.2E+00**	**2.4E-01**		**2.4E+00**
7440-02-0	Nickel Soluble Salts	3.56	3.56	3.56					8.9E-03	2.0E-04		9.1E-03
14797-55-8	Nitrate (measured as nitrogen)	607	607	607					1.9E-02	8.3E-05		1.9E-02
7440-62-2	Vanadium and Compounds	4.31	4.31	4.31					4.3E-02	7.2E-03		5.0E-02
						Cumulative:		0.0E+00				**3.1E+00**

DEQ Risk Calculator - Direct Contact - Non-Residential Worker Groundwater Use **Output Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-05

** - Note that inhalation on this calculator refers to inhalation associated with tapwater use, not inhalation associated with vapor intrusion from subsurface groundwater sources.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA Action Level of 15 µg/L.*

CAS #	Chemical Name:	Ingestion Concentration (ug/L)	Dermal Concentration (ug/L)	Inhalation Concentration (ug/L)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
7440-39-3	Barium	103	103	103					3.7E-03	8.3E-04		4.5E-03
16065-83-1	Chromium(III), Insoluble Salts											
7440-48-4	Cobalt	3.47	3.47	3.47					8.2E-02	5.2E-04		8.3E-02
7440-50-8	Copper	1.42	1.42	1.42					2.5E-04	4.0E-06		2.6E-04
7439-96-5	Manganese (Non-diet)	1060	1060	1060					**3.1E-01**	1.2E-01		**4.4E-01**
7440-02-0	Nickel Soluble Salts	3.56	3.56	3.56					1.3E-03	1.0E-04		1.4E-03
14797-55-8	Nitrate (measured as nitrogen)	607	607	607					2.7E-03	4.3E-05		2.7E-03
7440-62-2	Vanadium and Compounds	4.31	4.31	4.31					6.1E-03	3.7E-03		9.8E-03
						Cumulative:		0.0E+00				5.4E-01

DEQ Risk Calculator - Vapor Intrusion - Resident Groundwater to Indoor Air **Output Form 3A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-05

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.

Groundwater concentrations are in ug/L. Air concentrations are in ug/m^3.

CAS #	Chemical Name:	Groundwater Concentration (ug/L)	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
7440-39-3	Barium	103	-	1.0E-01		
16065-83-1	Chromium(III), Insoluble Salts		-	-		
7440-48-4	Cobalt	3.47	3.1E-04	1.3E-03		
7440-50-8	Copper	1.42	-	-		
7439-96-5	Manganese (Non-diet)	1060	-	1.0E-02		
7440-02-0	Nickel Soluble Salts	3.56	1.1E-02	2.1E-03		
14797-55-8	Nitrate (measured as nitrogen)	607	-	-		
7440-62-2	Vanadium and Compounds	4.31	-	2.1E-02		
				Cumulative:	0.0E+00	0.0E+00

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Groundwater to Indoor Air **Output Form 3D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: MW-05

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.

Groundwater concentrations are in ug/L. Air concentrations are in ug/m^3.

CAS #	Chemical Name:	Groundwater Concentration (ug/L)	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
7664-41-7	Ammonia	24	0.01579722	-	4.4E+02		7.2E-06
7440-39-3	Barium	103		-	4.4E-01		
7440-48-4	Cobalt	3.47		1.4E-03	5.3E-03		
7440-50-8	Copper	1.42		-	-		
7439-96-5	Manganese (Non-diet)	1060		-	4.4E-02		
7440-02-0	Nickel Soluble Salts	3.56		4.7E-02	8.8E-03		
14797-55-8	Nitrate (measured as nitrogen)	607		-	-		
7440-62-2	Vanadium and Compounds	4.31		-	8.8E-02		
					Cumulative:	0.0E+00	7.2E-06

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	Northgate Park
Site Address:	300 W. Club Boulevard & 404 W. Lavender Avenue, Durham, NC
DEQ Section:	PRLF
Site ID:	NONCD0000825
Exposure Unit ID:	Duplicate-1
Submittal Date:	9/16/2025
Prepared By:	Jonathan Olanin
Reviewed By:	Jerry Paul

Complete Exposure Pathways		Input Form 1A
Version Date: January 2025 **Basis: November 2024 EPA RSL Table**		
Site ID: NONCD0000825		
Exposure Unit ID: Duplicate-1		
Note: Risk output will only be calculated for complete exposure pathways.		
Receptor	**Pathway**	**Check box if pathway complete**
DIRECT CONTACT SOIL AND WATER PATHWAYS		
Resident	Soil	☐
	Groundwater Use	☑
Non-Residential Worker	Soil	☐
	Groundwater Use	☑
Construction Worker	Soil	☐
Recreator/Trespasser	Soil	☐
	Surface Water	☐
VAPOR INTRUSION PATHWAYS		
Resident	Groundwater to Indoor Air	☑
	Soil Gas to Indoor Air	☐
	Indoor Air	☐
Non-Residential Worker	Groundwater to Indoor Air	☑
	Soil Gas to Indoor Air	☐
	Indoor Air	☐
CONTAMINANT MIGRATION PATHWAYS		
Groundwater	Source Soil	☐
	Source Groundwater	☑
Surface Water	Source Soil	☐
	Source Groundwater	☑

Exposure Point Concentrations **Input Form 2B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: Duplicate-1

Groundwater Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

NOTE: If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (ug/L)	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
138		7664-41-7	Ammonia			ug/L	Duplicate-1									
2.7	J	7440-38-2	Arsenic, Inorganic			ug/L	Duplicate-1									
184		7440-39-3	Barium			ug/L	Duplicate-1									
7.82		16065-83-1	Chromium(III), Insoluble Salts			ug/L	Duplicate-1									
4.21	J	7440-48-4	Cobalt			ug/L	Duplicate-1									
3.97		7440-50-8	Copper			ug/L	Duplicate-1									
1.78		123-91-1	Dioxane, 1,4-			ug/L	Duplicate-1									
623		7439-96-5	Manganese (Non-diet)			ug/L	Duplicate-1									
3.02	J	7440-02-0	Nickel Soluble Salts			ug/L	Duplicate-1									
2.59	J	108-95-2	Phenol			ug/L	Duplicate-1									
9.89		7440-62-2	Vanadium and Compounds			ug/L	Duplicate-1									
19.3		7440-66-6	Zinc and Compounds			ug/L	Duplicate-1									

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: Duplicate-1

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	NC	NC	NC
	Groundwater Use*	0.0E+00	2.3E+00	YES
Non-Residential Worker	Soil	NC	NC	NC
	Groundwater Use*	0.0E+00	3.9E-01	NO
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	0.0E+00	0.0E+00	NO
	Soil Gas to Indoor Air	NC	NC	NC
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	1.4E-10	4.4E-05	NO
	Soil Gas to Indoor Air	NC	NC	NC
	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?	NM
Surface Water	Source Soil	Exceedence of 2B at Receptor?	NC
	Source Groundwater	Exceedence of 2B at Receptor?	NM

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.

Sitewide Risk **Output Form 1B**

Version Date: January 2025 NOTE: If any changes were made, select "Update Sitewide Risk Values" to obtain updated values.

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: Duplicate-1

		Resident - Current Scenario			Resident - Future Scenario			Non-Residential Worker - Current Scenario			Non-Residential Worker - Future Scenario			Construction Worker			Recreator/Trespasser		
Receptor	**Pathway**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**	**Check box to include in site-wide risk calculations**	**Carcinogenic Risk**	**Hazard Index**
DIRECT CONTACT SOIL AND WATER CALCULATORS																			
Resident	Soil	☐	NM	NM	☐	NM	NM												
	Groundwater Use*	☐	NM	NM	☐	NM	NM												
Non-Residential Worker	Soil							☐	NM	NM	☐	NM	NM						
	Groundwater Use*							☐	NM	NM	☐	NM	NM						
Construction Worker	Soil													☐	NM	NM			
Recreator/Trespasser	Soil																☐	NM	NM
	Surface Water Use*																☐	NM	NM
VAPOR INTRUSION CALCULATORS																			
Resident	Groundwater to Indoor Air	☐	NM	NM	☐	NM	NM												
	Soil Gas to Indoor Air	☐	NM	NM	☐	NM	NM												
	Indoor Air	☐	NM	NM	☐	NM	NM												
Non-Residential Worker	Groundwater to Indoor Air							☐	NM	NM	☐	NM	NM						
	Soil Gas to Indoor Air							☐	NM	NM	☐	NM	NM						
	Indoor Air							☐	NM	NM	☐	NM	NM						
TOTAL SITEWIDE RISK FOR EACH RECEPTOR			0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00		0.0E+00	0.0E+00

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
4. NC = Pathway not calculated

DEQ Risk Calculator - Direct Contact - Resident Groundwater Use **Output Form 2B**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: Duplicate-1

** - Note that inhalation on this calculator refers to inhalation associated with tapwater use, not inhalation associated with vapor intrusion from subsurface groundwater sources.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA Action Level of 15 µg/L.*

CAS #	Chemical Name:	Ingestion Concentration (ug/L)	Dermal Concentration (ug/L)	Inhalation Concentration (ug/L)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk*	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient*	Calculated Non-Carcinogenic Hazard Quotient
7440-39-3	Barium	184	184	184					4.6E-02	2.9E-03		4.9E-02
16065-83-1	Chromium(III), Insoluble Salts	7.82	7.82	7.82					2.6E-04	8.8E-05		3.5E-04
7440-48-4	Cobalt	4.21	4.21	4.21					**7.0E-01**	1.2E-03		**7.0E-01**
7440-50-8	Copper	3.97	3.97	3.97					4.9E-03	2.2E-05		5.0E-03
7439-96-5	Manganese (Non-diet)	623	623	623					**1.3E+00**	1.4E-01		**1.4E+00**
7440-02-0	Nickel Soluble Salts	3.02	3.02	3.02					7.5E-03	1.7E-04		7.7E-03
14797-55-8	Nitrate (measured as nitrogen)											
7440-62-2	Vanadium and Compounds	9.89	9.89	9.89					9.8E-02	1.7E-02		1.1E-01
						Cumulative:		0.0E+00				**2.3E+00**

DEQ Risk Calculator - Direct Contact - Non-Residential Worker Groundwater Use **Output Form 2D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: Duplicate-1

** - Note that inhalation on this calculator refers to inhalation associated with tapwater use, not inhalation associated with vapor intrusion from subsurface groundwater sources.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA Action Level of 15 µg/L.*

CAS #	Chemical Name:	Ingestion Concentration (ug/L)	Dermal Concentration (ug/L)	Inhalation Concentration (ug/L)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
7440-39-3	Barium	184	184	184					6.5E-03	1.5E-03		8.0E-03
16065-83-1	Chromium(III), Insoluble Salts	7.82	7.82	7.82					3.7E-05	4.5E-05		8.2E-05
7440-48-4	Cobalt	4.21	4.21	4.21					1.0E-01	6.3E-04		1.0E-01
7440-50-8	Copper	3.97	3.97	3.97					7.1E-04	1.1E-05		7.2E-04
7439-96-5	Manganese (Non-diet)	623	623	623					1.8E-01	7.3E-02		**2.6E-01**
7440-02-0	Nickel Soluble Salts	3.02	3.02	3.02					1.1E-03	8.5E-05		1.2E-03
14797-55-8	Nitrate (measured as nitrogen)											
7440-62-2	Vanadium and Compounds	9.89	9.89	9.89					1.4E-02	8.5E-03		2.2E-02
						Cumulative:		0.0E+00				3.9E-01

DEQ Risk Calculator - Vapor Intrusion - Resident Groundwater to Indoor Air **Output Form 3A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: Duplicate-1

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.

Groundwater concentrations are in ug/L. Air concentrations are in ug/m^3.

CAS #	Chemical Name:	Groundwater Concentration (ug/L)	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
7440-39-3	Barium	184	-	1.0E-01		
16065-83-1	Chromium(III), Insoluble Salts	7.82	-	-		
7440-48-4	Cobalt	4.21	3.1E-04	1.3E-03		
7440-50-8	Copper	3.97	-	-		
7439-96-5	Manganese (Non-diet)	623	-	1.0E-02		
7440-02-0	Nickel Soluble Salts	3.02	1.1E-02	2.1E-03		
14797-55-8	Nitrate (measured as nitrogen)		-	-		
7440-62-2	Vanadium and Compounds	9.89	-	2.1E-02		
				Cumulative:	0.0E+00	0.0E+00

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Groundwater to Indoor Air **Output Form 3D**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: Duplicate-1

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.

Groundwater concentrations are in ug/L. Air concentrations are in ug/m^3.

CAS #	Chemical Name:	Groundwater Concentration (ug/L)	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
7664-41-7	Ammonia	138	0.090834015	-	4.4E+02		4.1E-05
7440-38-2	Arsenic, Inorganic	2.7		2.9E-03	1.3E-02		
7440-39-3	Barium	184		-	4.4E-01		
16065-83-1	Chromium(III), Insoluble Salts	7.82		-	-		
7440-48-4	Cobalt	4.21		1.4E-03	5.3E-03		
7440-50-8	Copper	3.97		-	-		
123-91-1	Dioxane, 1,4-	1.78	0.000349305	2.5E+00	2.6E+01	1.4E-10	2.7E-06
7439-96-5	Manganese (Non-diet)	623		-	4.4E-02		
7440-02-0	Nickel Soluble Salts	3.02		4.7E-02	8.8E-03		
108-95-2	Phenol	2.59	3.52604E-05	-	1.8E+02		
7440-62-2	Vanadium and Compounds	9.89		-	8.8E-02		
7440-66-6	Zinc and Compounds	19.3		-	-		
					Cumulative:	1.4E-10	4.4E-05

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	City of Durham Parks - Northgate Park
Site Address:	33 W. Club Boulevard & 404 W. Lavender Avenue
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NONCD0000825
Exposure Unit ID:	LFGP-1 Risk Assessment
Submittal Date:	12/4/2025
Prepared By:	Madison Allen
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: LFGP-1 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-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	1.1E-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: NONCD0000825

Exposure Unit ID: LFGP-1 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

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
54		67-64-1	Acetone			ug/m^3	LFGP-1									
5.5		110-54-3	Hexane, N-			ug/m^3	LFGP-1									
94	2-Propanol	67-63-0	Isopropanol			ug/m^3	LFGP-1									

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: NONCD0000825

Exposure Unit ID: LFGP-1 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	54	1.62	-	-		
110-54-3	Hexane, N-	5.5	0.165	-	1.5E+02		2.3E-04
67-63-0	Isopropanol	94	2.82	-	4.2E+01		1.4E-02
					Cumulative:	0.0E+00	1.4E-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: NONCD0000825

Exposure Unit ID: LFGP-1 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	54	0.54	-	-		
110-54-3	Hexane, N-	5.5	0.055	-	6.1E+02		1.8E-05
67-63-0	Isopropanol	94	0.94	-	1.8E+02		1.1E-03
					Cumulative:	0.0E+00	1.1E-03

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	City of Durham Parks - Northgate Park
Site Address:	33 W. Club Boulevard & 404 W. Lavender Avenue
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NONCD0000825
Exposure Unit ID:	LFGP-2 Risk Assessment
Submittal Date:	12/4/2025
Prepared By:	Madison Allen
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: LFGP-2 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-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	2.1E-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: NONCD0000825

Exposure Unit ID: LFGP-2 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

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
50		67-64-1	Acetone			ug/m^3	LFGP-2									
2.9		110-54-3	Hexane, N-			ug/m^3	LFGP-2									
18	2-Propanol	67-63-0	Isopropanol			ug/m^3	LFGP-2									

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: NONCD0000825

Exposure Unit ID: LFGP-2 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	50	1.5	-	-		
110-54-3	Hexane, N-	2.9	0.087	-	1.5E+02		1.2E-04
67-63-0	Isopropanol	18	0.54	-	4.2E+01		2.6E-03
					Cumulative:	0.0E+00	2.7E-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: NONCD0000825

Exposure Unit ID: LFGP-2 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	50	0.5	-	-		
110-54-3	Hexane, N-	2.9	0.029	-	6.1E+02		9.5E-06
67-63-0	Isopropanol	18	0.18	-	1.8E+02		2.1E-04
					Cumulative:	0.0E+00	2.1E-04

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	City of Durham Parks - Northgate Park
Site Address:	33 W. Club Boulevard & 404 W. Lavender Avenue
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NONCD0000825
Exposure Unit ID:	LFGP-3 Risk Assessment
Submittal Date:	12/4/2025
Prepared By:	Madison Allen
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: LFGP-3 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	1.4E-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	1.1E-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: NONCD0000825

Exposure Unit ID: LFGP-3 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

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	LFGP-3									
9.1		67-66-3	Chloroform			ug/m^3	LFGP-3									
45	2-Propanol	67-63-0	Isopropanol			ug/m^3	LFGP-3									

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: NONCD0000825

Exposure Unit ID: LFGP-3 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	9.1	0.273	1.2E-01	4.1E-01	**2.2E-06**	1.3E-01
67-63-0	Isopropanol	45	1.35	-	4.2E+01		6.5E-03
					Cumulative:	2.2E-06	1.4E-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: NONCD0000825

Exposure Unit ID: LFGP-3 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	9.1	0.091	5.3E-01	1.7E+00	1.7E-07	1.1E-02
67-63-0	Isopropanol	45	0.45	-	1.8E+02		5.1E-04
					Cumulative:	1.7E-07	1.1E-02

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	City of Durham Parks - Northgate Park
Site Address:	33 W. Club Boulevard & 404 W. Lavender Avenue
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NONCD0000825
Exposure Unit ID:	LFGP-4 Risk Assessment
Submittal Date:	12/4/2025
Prepared By:	Madison Allen
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: LFGP-4 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	2.9E-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	2.3E-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: NONCD0000825

Exposure Unit ID: LFGP-4 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

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		67-64-1	Acetone			ug/m^3	LFGP-4									
20	2-Propanol	67-63-0	Isopropanol			ug/m^3	LFGP-4									

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: NONCD0000825

Exposure Unit ID: LFGP-4 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	39	1.17	-	-		
67-66-3	Chloroform			1.2E-01	4.1E-01		
67-63-0	Isopropanol	20	0.6	-	4.2E+01		2.9E-03
					Cumulative:	0.0E+00	2.9E-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: NONCD0000825

Exposure Unit ID: LFGP-4 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	39	0.39	-	-		
67-66-3	Chloroform			5.3E-01	1.7E+00		
67-63-0	Isopropanol	20	0.2	-	1.8E+02		2.3E-04
					Cumulative:	0.0E+00	2.3E-04

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	City of Durham Parks - Northgate Park
Site Address:	33 W. Club Boulevard & 404 W. Lavender Avenue
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NONCD0000825
Exposure Unit ID:	LFGP-5 Risk Assessment
Submittal Date:	12/4/2025
Prepared By:	Madison Allen
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: LFGP-5 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	2.4E-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	1.9E-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: NONCD0000825

Exposure Unit ID: LFGP-5 Risk Assessment

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

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	LFGP-5									
17	2-Propanol	67-63-0	Isopropanol			ug/m^3	LFGP-5									

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: NONCD0000825

Exposure Unit ID: LFGP-5 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	-	-		
67-63-0	Isopropanol	17	0.51	-	4.2E+01		2.4E-03
					Cumulative:	0.0E+00	2.4E-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: NONCD0000825

Exposure Unit ID: LFGP-5 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	-	-		
67-63-0	Isopropanol	17	0.17	-	1.8E+02		1.9E-04
					Cumulative:	0.0E+00	1.9E-04

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	City of Durham Parks - Northgate Park
Site Address:	300 W. Club Boulevard & 404 W. Lavender Avenue
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NONCD0000825
Exposure Unit ID:	SED-1 Risk Assessment
Submittal Date:	12/3/2025
Prepared By:	Madison Allen
Reviewed By:	Tom Raymond

Exposure Point Concentrations **Input Form 2A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-1 Risk Assessment

Soil Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

NOTE: If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (mg/kg)	Notes:	CAS Number	Chemical **For the chemicals highlighted in blue, data entry notes are provided in the PSRG Table link on the Main Menu**	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
0.0226	J	67-64-1	Acetone			mg/kg	SED-1									
0.499		7440-38-2	Arsenic, Inorganic			mg/kg	SED-1									
10.5		7440-39-3	Barium			mg/kg	SED-1									
0.128	J	7440-41-7	Beryllium and compounds			mg/kg	SED-1									
0.0533	J	7440-43-9	Cadmium (Diet)			mg/kg	SED-1									
9.9		16065-83-1	Chromium(III), Insoluble Salts			mg/kg	SED-1									
2.56		7440-48-4	Cobalt			mg/kg	SED-1									
2.61		7440-50-8	Copper			mg/kg	SED-1									
3.47		7439-92-1	~Lead and Compounds			mg/kg	SED-1									
73.3		7439-96-5	Manganese (Non-diet)			mg/kg	SED-1									
3.8		7440-02-0	Nickel Soluble Salts			mg/kg	SED-1									
0.24	J	206-44-0	~Fluoranthene			mg/kg	SED-1									
0.182	J	129-00-0	~Pyrene			mg/kg	SED-1									
0.183	J	7782-49-2	Selenium			mg/kg	SED-1									
0.208		7440-22-4	Silver			mg/kg	SED-1									
0.0662	J	7440-28-0	Thallium (Soluble Salts)			mg/kg	SED-1									
12.3		7440-62-2	Vanadium and Compounds			mg/kg	SED-1									
15.9		7440-66-6	Zinc and Compounds			mg/kg	SED-1									

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-1 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	7.4E-07	2.9E-01	NO
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	1.7E-07	2.0E-02	NO
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	3.2E-07	1.3E-01	NO
	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	NC	NC	NC
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	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 - Direct Contact - Resident Soil **Output Form 2A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-1 Risk Assessment

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 200 mg/kg for residential soil. If it has been demonstrated that additional sources of lead are present (e.g., lead water service lines or lead-based paint), the EPA screening level is 100 mg/kg.*

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk*	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient*	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	0.0226	0.0226	0.0226					3.2E-07			3.2E-07
7440-38-2	Arsenic, Inorganic	0.499	0.499	0.499	6.5E-07	9.1E-08	1.3E-11	7.4E-07	1.3E-02	1.5E-03	5.4E-07	1.4E-02
7440-39-3	Barium	10.5	10.5	10.5					6.7E-04		3.4E-07	6.7E-04
7440-41-7	Beryllium and compounds	0.128	0.128	0.128			1.8E-12	1.8E-12	8.2E-04		1.0E-07	8.2E-04
7440-43-9	Cadmium (Diet)	0.0533	0.0533	0.0533			5.8E-13	5.8E-13	6.8E-03	6.5E-04	8.6E-08	7.5E-03
16065-83-1	Chromium(III), Insoluble Salts	9.9	9.9	9.9					8.4E-05			8.4E-05
7440-48-4	Cobalt	2.56	2.56	2.56			1.4E-10	1.4E-10	1.1E-01		6.9E-06	1.1E-01
7440-50-8	Copper	2.61	2.61	2.61					8.3E-04			8.3E-04
7439-92-1	~Lead and Compounds	3.47	3.47	3.47					**<SL****	**<SL****	**<SL****	
7439-96-5	Manganese (Non-diet)	73.3	73.3	73.3					3.9E-02		2.4E-05	3.9E-02
7440-02-0	Nickel Soluble Salts	3.8	3.8	3.8			5.9E-12	5.9E-12	2.4E-03		6.1E-06	2.4E-03
206-44-0	~Fluoranthene	0.24	0.24	0.24					7.7E-05	2.4E-05		1.0E-04
129-00-0	~Pyrene	0.182	0.182	0.182					7.8E-05	2.4E-05		1.0E-04
7782-49-2	Selenium	0.183	0.183	0.183					4.7E-04		1.5E-10	4.7E-04
7440-22-4	Silver	0.208	0.208	0.208					5.3E-04			5.3E-04
7440-28-0	Thallium (Soluble Salts)	0.0662	0.0662	0.0662					8.5E-02			8.5E-02
7440-62-2	Vanadium and Compounds	12.3	12.3	12.3					3.1E-02		2.0E-06	3.1E-02
7440-66-6	Zinc and Compounds	15.9	15.9	15.9					6.8E-04			6.8E-04
						Cumulative:		7.4E-07				2.9E-01

DEQ Risk Calculator - Direct Contact - Non-Residential Worker Soil **Output Form 2C**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-1 Risk Assessment

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 800 mg/kg for commercial/industrial soil.*

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	0.0226	0.0226	0.0226					2.1E-08			2.1E-08
7440-38-2	Arsenic, Inorganic	0.499	0.499	0.499	1.4E-07	2.9E-08	2.9E-12	1.7E-07	8.5E-04	1.8E-04	1.3E-07	1.0E-03
7440-39-3	Barium	10.5	10.5	10.5					4.5E-05		8.1E-08	4.5E-05
7440-41-7	Beryllium and compounds	0.128	0.128	0.128			4.2E-13	4.2E-13	5.5E-05		2.5E-08	5.5E-05
7440-43-9	Cadmium (Diet)	0.0533	0.0533	0.0533			1.3E-13	1.3E-13	4.6E-04	7.7E-05	2.1E-08	5.3E-04
16065-83-1	Chromium(III), Insoluble Salts	9.9	9.9	9.9					5.7E-06			5.7E-06
7440-48-4	Cobalt	2.56	2.56	2.56			3.2E-11	3.2E-11	7.3E-03		1.6E-06	7.3E-03
7440-50-8	Copper	2.61	2.61	2.61					5.6E-05			5.6E-05
7439-92-1	~Lead and Compounds	3.47	3.47	3.47					**<SL****	**<SL****	**<SL****	
7439-96-5	Manganese (Non-diet)	73.3	73.3	73.3					2.6E-03		5.6E-06	2.6E-03
7440-02-0	Nickel Soluble Salts	3.8	3.8	3.8			1.4E-12	1.4E-12	1.6E-04		1.5E-06	1.6E-04
206-44-0	~Fluoranthene	0.24	0.24	0.24					5.1E-06	2.8E-06		8.0E-06
129-00-0	~Pyrene	0.182	0.182	0.182					5.2E-06	2.9E-06		8.1E-06
7782-49-2	Selenium	0.183	0.183	0.183					3.1E-05		3.5E-11	3.1E-05
7440-22-4	Silver	0.208	0.208	0.208					3.6E-05			3.6E-05
7440-28-0	Thallium (Soluble Salts)	0.0662	0.0662	0.0662					5.7E-03			5.7E-03
7440-62-2	Vanadium and Compounds	12.3	12.3	12.3					2.1E-03		4.7E-07	2.1E-03
7440-66-6	Zinc and Compounds	15.9	15.9	15.9					4.5E-05			4.5E-05
						Cumulative:		1.7E-07				2.0E-02

DEQ Risk Calculator - Direct Contact - Recreator/Trespasser Soil **Output Form 2F**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-1 Risk Assessment

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 200 mg/kg for residential soil. If it has been demonstrated that additional sources of lead are present (e.g., lead water service lines or lead-based paint), the EPA screening level is 100 mg/kg.*

Receptor Type:

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	0.0226	0.0226	0.0226					1.4E-07			1.4E-07
7440-38-2	Arsenic, Inorganic	0.499	0.499	0.499	2.8E-07	3.9E-08	4.6E-13	3.2E-07	5.5E-03	6.5E-04	1.9E-08	6.1E-03
7440-39-3	Barium	10.5	10.5	10.5					2.9E-04		1.2E-08	2.9E-04
7440-41-7	Beryllium and compounds	0.128	0.128	0.128			6.6E-14	6.6E-14	3.5E-04		3.7E-09	3.5E-04
7440-43-9	Cadmium (Diet)	0.0533	0.0533	0.0533			2.1E-14	2.1E-14	2.9E-03	2.8E-04	3.1E-09	3.2E-03
16065-83-1	Chromium(III), Insoluble Salts	9.9	9.9	9.9					3.6E-05			3.6E-05
7440-48-4	Cobalt	2.56	2.56	2.56			4.9E-12	4.9E-12	4.7E-02		2.5E-07	4.7E-02
7440-50-8	Copper	2.61	2.61	2.61					3.6E-04			3.6E-04
7439-92-1	~Lead and Compounds	3.47	3.47	3.47					**<SL****	**<SL****	**<SL****	
7439-96-5	Manganese (Non-diet)	73.3	73.3	73.3					1.7E-02		8.5E-07	1.7E-02
7440-02-0	Nickel Soluble Salts	3.8	3.8	3.8			2.1E-13	2.1E-13	1.0E-03		2.2E-07	1.0E-03
206-44-0	~Fluoranthene	0.24	0.24	0.24					3.3E-05	1.0E-05		4.3E-05
129-00-0	~Pyrene	0.182	0.182	0.182					3.3E-05	1.0E-05		4.3E-05
7782-49-2	Selenium	0.183	0.183	0.183					2.0E-04		5.3E-12	2.0E-04
7440-22-4	Silver	0.208	0.208	0.208					2.3E-04			2.3E-04
7440-28-0	Thallium (Soluble Salts)	0.0662	0.0662	0.0662					3.6E-02			3.6E-02
7440-62-2	Vanadium and Compounds	12.3	12.3	12.3					1.3E-02		7.1E-08	1.3E-02
7440-66-6	Zinc and Compounds	15.9	15.9	15.9					2.9E-04			2.9E-04
						Cumulative:		3.2E-07				1.3E-01

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	City of Durham Parks - Northgate Park
Site Address:	300 W. Club Boulevard & 404 W. Lavender Avenue
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NONCD0000825
Exposure Unit ID:	SED-2 Risk Assesment
Submittal Date:	12/3/2025
Prepared By:	Madison Allen
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-2 Risk Assesment

DIRECT CONTACT SOIL AND WATER CALCULATORS				
Receptor	**Pathway**	**Carcinogenic Risk**	**Hazard Index**	**Risk exceeded?**
Resident	Soil	2.5E-06	4.1E-01	NO
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	3.4E-07	2.8E-02	NO
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	1.1E-06	1.8E-01	NO
	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	NC	NC	NC
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	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 2A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-2 Risk Assesment

Soil Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

NOTE: If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (mg/kg)	Notes:	CAS Number	Chemical **For the chemicals highlighted in blue, data entry notes are provided in the PSRG Table link on the Main Menu**	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
0.0379		67-64-1	Acetone			mg/kg	SED-2									
0.802		7440-38-2	Arsenic, Inorganic			mg/kg	SED-2									
26.4	F1	7440-39-3	Barium			mg/kg	SED-2									
0.185	J	7440-41-7	Beryllium and compounds			mg/kg	SED-2									
0.0709	J	7440-43-9	Cadmium (Diet)			mg/kg	SED-2									
11.8	F1	16065-83-1	Chromium(III), Insoluble Salts			mg/kg	SED-2									
4.5		7440-48-4	Cobalt			mg/kg	SED-2									
6.94		7440-50-8	Copper			mg/kg	SED-2									
10.4	F1	7439-92-1	~Lead and Compounds			mg/kg	SED-2									
25.1	F1	7439-96-5	Manganese (Non-diet)			mg/kg	SED-2									
6.88		7440-02-0	Nickel Soluble Salts			mg/kg	SED-2									
0.126	J	50-32-8	~Benzo[a]pyrene			mg/kg	SED-2									
0.238	J	205-99-2	~Benzo[b]fluoranthene			mg/kg	SED-2									
0.361	J	206-44-0	~Fluoranthene			mg/kg	SED-2									
0.259	J	129-00-0	~Pyrene			mg/kg	SED-2									
0.23	J	7782-49-2	Selenium			mg/kg	SED-2									
0.275		7440-22-4	Silver			mg/kg	SED-2									
0.0897	J	7440-28-0	Thallium (Soluble Salts)			mg/kg	SED-2									
14.8		7440-62-2	Vanadium and Compounds			mg/kg	SED-2									
32.2		7440-66-6	Zinc and Compounds			mg/kg	SED-2									

DEQ Risk Calculator - Direct Contact - Non-Residential Worker Soil **Output Form 2C**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-2 Risk Assesment

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 800 mg/kg for commercial/industrial soil.*

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	0.0379	0.0379	0.0379					3.6E-08			3.6E-08
7440-38-2	Arsenic, Inorganic	0.802	0.802	0.802	2.2E-07	4.7E-08	4.7E-12	2.7E-07	1.4E-03	2.9E-04	2.1E-07	1.7E-03
7440-39-3	Barium	26.4	26.4	26.4					1.1E-04		2.0E-07	1.1E-04
7440-41-7	Beryllium and compounds	0.185	0.185	0.185			6.1E-13	6.1E-13	7.9E-05		3.6E-08	7.9E-05
7440-43-9	Cadmium (Diet)	0.0709	0.0709	0.0709			1.8E-13	1.8E-13	6.1E-04	1.0E-04	2.7E-08	7.1E-04
16065-83-1	Chromium(III), Insoluble Salts	11.8	11.8	11.8					6.7E-06			6.7E-06
7440-48-4	Cobalt	4.5	4.5	4.5			5.6E-11	5.6E-11	1.3E-02		2.9E-06	1.3E-02
7440-50-8	Copper	6.94	6.94	6.94					1.5E-04			1.5E-04
7439-92-1	~Lead and Compounds	10.4	10.4	10.4					**<SL****	**<SL****	**<SL****	
7439-96-5	Manganese (Non-diet)	25.1	25.1	25.1					9.0E-04		1.9E-06	9.0E-04
7440-02-0	Nickel Soluble Salts	6.88	6.88	6.88			2.5E-12	2.5E-12	2.9E-04		2.6E-06	3.0E-04
50-32-8	~Benzo[a]pyrene	0.126	0.126	0.126	3.9E-08	2.1E-08	1.0E-13	6.0E-08	3.6E-04	2.0E-04	2.4E-07	5.6E-04
205-99-2	~Benzo[b]fluoranthene	0.238	0.238	0.238	7.3E-09	4.0E-09	2.0E-14	1.1E-08				
206-44-0	~Fluoranthene	0.361	0.361	0.361					7.7E-06	4.3E-06		1.2E-05
129-00-0	~Pyrene	0.259	0.259	0.259					7.4E-06	4.1E-06		1.1E-05
7782-49-2	Selenium	0.23	0.23	0.23					3.9E-05		4.4E-11	3.9E-05
7440-22-4	Silver	0.275	0.275	0.275					4.7E-05			4.7E-05
7440-28-0	Thallium (Soluble Salts)	0.0897	0.0897	0.0897					7.7E-03			7.7E-03
7440-62-2	Vanadium and Compounds	14.8	14.8	14.8					2.5E-03		5.7E-07	2.5E-03
7440-66-6	Zinc and Compounds	32.2	32.2	32.2					9.2E-05			9.2E-05
						Cumulative:		3.4E-07				2.8E-02

DEQ Risk Calculator - Direct Contact - Recreator/Trespasser Soil **Output Form 2F**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-2 Risk Assesment

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 200 mg/kg for residential soil. If it has been demonstrated that additional sources of lead are present (e.g., lead water service lines or lead-based paint), the EPA screening level is 100 mg/kg.*

Receptor Type: _____

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	0.0379	0.0379	0.0379					2.3E-07			2.3E-07
7440-38-2	Arsenic, Inorganic	0.802	0.802	0.802	4.4E-07	6.3E-08	7.4E-13	5.1E-07	8.8E-03	1.0E-03	3.1E-08	9.8E-03
7440-39-3	Barium	26.4	26.4	26.4					7.2E-04		3.0E-08	7.2E-04
7440-41-7	Beryllium and compounds	0.185	0.185	0.185			9.5E-14	9.5E-14	5.1E-04		5.3E-09	5.1E-04
7440-43-9	Cadmium (Diet)	0.0709	0.0709	0.0709			2.7E-14	2.7E-14	3.9E-03	3.7E-04	4.1E-09	4.3E-03
16065-83-1	Chromium(III), Insoluble Salts	11.8	11.8	11.8					4.3E-05			4.3E-05
7440-48-4	Cobalt	4.5	4.5	4.5			8.7E-12	8.7E-12	8.2E-02		4.3E-07	8.2E-02
7440-50-8	Copper	6.94	6.94	6.94					9.5E-04			9.5E-04
7439-92-1	~Lead and Compounds	10.4	10.4	10.4					**<SL****	**<SL****	**<SL****	
7439-96-5	Manganese (Non-diet)	25.1	25.1	25.1					5.7E-03		2.9E-07	5.7E-03
7440-02-0	Nickel Soluble Salts	6.88	6.88	6.88			3.8E-13	3.8E-13	1.9E-03		4.0E-07	1.9E-03
50-32-8	~Benzo[a]pyrene	0.126	0.126	0.126	3.5E-07	1.2E-07	4.5E-14	4.7E-07	2.3E-03	7.1E-04	3.6E-08	3.0E-03
205-99-2	~Benzo[b]fluoranthene	0.238	0.238	0.238	6.7E-08	2.2E-08	8.5E-15	8.9E-08				
206-44-0	~Fluoranthene	0.361	0.361	0.361					4.9E-05	1.5E-05		6.5E-05
129-00-0	~Pyrene	0.259	0.259	0.259					4.7E-05	1.5E-05		6.2E-05
7782-49-2	Selenium	0.23	0.23	0.23					2.5E-04		6.6E-12	2.5E-04
7440-22-4	Silver	0.275	0.275	0.275					3.0E-04			3.0E-04
7440-28-0	Thallium (Soluble Salts)	0.0897	0.0897	0.0897					4.9E-02			4.9E-02
7440-62-2	Vanadium and Compounds	14.8	14.8	14.8					1.6E-02		8.5E-08	1.6E-02
7440-66-6	Zinc and Compounds	32.2	32.2	32.2					5.9E-04			5.9E-04
						Cumulative:		1.1E-06				1.8E-01

DEQ Risk Calculator - Direct Contact - Resident Soil **Output Form 2A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-2 Risk Assesment

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 200 mg/kg for residential soil. If it has been demonstrated that additional sources of lead are present (e.g., lead water service lines or lead-based paint), the EPA screening level is 100 mg/kg.*

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk*	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient*	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	0.0379	0.0379	0.0379					5.4E-07			5.4E-07
7440-38-2	Arsenic, Inorganic	0.802	0.802	0.802	**1.0E-06**	1.5E-07	2.1E-11	1.2E-06	2.1E-02	2.4E-03	8.6E-07	2.3E-02
7440-39-3	Barium	26.4	26.4	26.4					1.7E-03		8.5E-07	1.7E-03
7440-41-7	Beryllium and compounds	0.185	0.185	0.185			2.7E-12	2.7E-12	1.2E-03		1.5E-07	1.2E-03
7440-43-9	Cadmium (Diet)	0.0709	0.0709	0.0709			7.7E-13	7.7E-13	9.1E-03	8.6E-04	1.1E-07	9.9E-03
16065-83-1	Chromium(III), Insoluble Salts	11.8	11.8	11.8					1.0E-04			1.0E-04
7440-48-4	Cobalt	4.5	4.5	4.5			2.4E-10	2.4E-10	1.9E-01		1.2E-05	1.9E-01
7440-50-8	Copper	6.94	6.94	6.94					2.2E-03			2.2E-03
7439-92-1	~Lead and Compounds	10.4	10.4	10.4					**<SL****	**<SL****	**<SL****	
7439-96-5	Manganese (Non-diet)	25.1	25.1	25.1					1.3E-02		8.1E-06	1.3E-02
7440-02-0	Nickel Soluble Salts	6.88	6.88	6.88			1.1E-11	1.1E-11	4.4E-03		1.1E-05	4.4E-03
50-32-8	~Benzo[a]pyrene	0.126	0.126	0.126	8.2E-07	2.7E-07	1.3E-12	1.1E-06	5.4E-03	1.7E-03	1.0E-06	7.0E-03
205-99-2	~Benzo[b]fluoranthene	0.238	0.238	0.238	1.6E-07	5.2E-08	2.4E-13	2.1E-07				
206-44-0	~Fluoranthene	0.361	0.361	0.361					1.2E-04	3.6E-05		1.5E-04
129-00-0	~Pyrene	0.259	0.259	0.259					1.1E-04	3.4E-05		1.4E-04
7782-49-2	Selenium	0.23	0.23	0.23					5.9E-04		1.9E-10	5.9E-04
7440-22-4	Silver	0.275	0.275	0.275					7.0E-04			7.0E-04
7440-28-0	Thallium (Soluble Salts)	0.0897	0.0897	0.0897					1.1E-01			1.1E-01
7440-62-2	Vanadium and Compounds	14.8	14.8	14.8					3.8E-02		2.4E-06	3.8E-02
7440-66-6	Zinc and Compounds	32.2	32.2	32.2					1.4E-03			1.4E-03
						Cumulative:		2.5E-06				4.1E-01

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	City of Durham Parks - Northgate Park
Site Address:	300 W. Club Boulevard & 404 W. Lavender Avenue
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NONCD0000825
Exposure Unit ID:	SED-3 Risk Assessment
Submittal Date:	12/3/2025
Prepared By:	Madison Allen
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-3 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	2.4E-06	2.4E-01	NO
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	2.5E-07	1.6E-02	NO
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	1.0E-06	1.0E-01	NO
	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	NC	NC	NC
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	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 2A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-3 Risk Assessment

Soil Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

NOTE: If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (mg/kg)	Notes:	CAS Number	Chemical **For the chemicals highlighted in blue, data entry notes are provided in the PSRG Table link on the Main Menu**	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
0.0216	J	67-64-1	Acetone			mg/kg	SED-3									
0.486		7440-38-2	Arsenic, Inorganic			mg/kg	SED-3									
13.3		7440-39-3	Barium			mg/kg	SED-3									
0.0964	J	7440-41-7	Beryllium and compounds			mg/kg	SED-3									
0.026	J	7440-43-9	Cadmium (Diet)			mg/kg	SED-3									
8.96		16065-83-1	Chromium(III), Insoluble Salts			mg/kg	SED-3									
2.85		7440-48-4	Cobalt			mg/kg	SED-3									
2.91		7440-50-8	Copper			mg/kg	SED-3									
4.34		7439-92-1	~Lead and Compounds			mg/kg	SED-3									
83.5		7439-96-5	Manganese (Non-diet)			mg/kg	SED-3									
4.95		7440-02-0	Nickel Soluble Salts			mg/kg	SED-3									
0.17	J	50-32-8	~Benzo[a]pyrene			mg/kg	SED-3									
0.253	J	205-99-2	~Benzo[b]fluoranthene			mg/kg	SED-3									
0.235	J	206-44-0	~Fluoranthene			mg/kg	SED-3									
0.275	J	129-00-0	~Pyrene			mg/kg	SED-3									
0.117	J	7782-49-2	Selenium			mg/kg	SED-3									
0.211		7440-22-4	Silver			mg/kg	SED-3									
15.5		7440-62-2	Vanadium and Compounds			mg/kg	SED-3									
18.2		7440-66-6	Zinc and Compounds			mg/kg	SED-3									

DEQ Risk Calculator - Direct Contact - Resident Soil **Output Form 2A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-3 Risk Assessment

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 200 mg/kg for residential soil. If it has been demonstrated that additional sources of lead are present (e.g., lead water service lines or lead-based paint), the EPA screening level is 100 mg/kg.*

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk*	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient*	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	0.0216	0.0216	0.0216					3.1E-07			3.1E-07
7440-38-2	Arsenic, Inorganic	0.486	0.486	0.486	6.3E-07	8.8E-08	1.3E-11	7.2E-07	1.2E-02	1.5E-03	5.2E-07	1.4E-02
7440-39-3	Barium	13.3	13.3	13.3					8.5E-04		4.3E-07	8.5E-04
7440-41-7	Beryllium and compounds	0.0964	0.0964	0.0964			1.4E-12	1.4E-12	6.2E-04		7.8E-08	6.2E-04
7440-43-9	Cadmium (Diet)	0.026	0.026	0.026			2.8E-13	2.8E-13	3.3E-03	3.2E-04	4.2E-08	3.6E-03
16065-83-1	Chromium(III), Insoluble Salts	8.96	8.96	8.96					7.6E-05			7.6E-05
7440-48-4	Cobalt	2.85	2.85	2.85			1.5E-10	1.5E-10	1.2E-01		7.7E-06	1.2E-01
7440-50-8	Copper	2.91	2.91	2.91					9.3E-04			9.3E-04
7439-92-1	~Lead and Compounds	4.34	4.34	4.34					**<SL****	**<SL****	**<SL****	
7439-96-5	Manganese (Non-diet)	83.5	83.5	83.5					4.4E-02		2.7E-05	4.5E-02
7440-02-0	Nickel Soluble Salts	4.95	4.95	4.95			7.7E-12	7.7E-12	3.2E-03		8.0E-06	3.2E-03
50-32-8	~Benzo[a]pyrene	0.17	0.17	0.17	**1.1E-06**	3.7E-07	1.7E-12	1.5E-06	7.2E-03	2.2E-03	1.4E-06	9.5E-03
205-99-2	~Benzo[b]fluoranthene	0.253	0.253	0.253	1.7E-07	5.5E-08	2.5E-13	2.2E-07				
206-44-0	~Fluoranthene	0.235	0.235	0.235					7.5E-05	2.3E-05		9.8E-05
129-00-0	~Pyrene	0.275	0.275	0.275					1.2E-04	3.6E-05		1.5E-04
7782-49-2	Selenium	0.117	0.117	0.117					3.0E-04		9.5E-11	3.0E-04
7440-22-4	Silver	0.211	0.211	0.211					5.4E-04			5.4E-04
7440-62-2	Vanadium and Compounds	15.5	15.5	15.5					3.9E-02		2.5E-06	3.9E-02
7440-66-6	Zinc and Compounds	18.2	18.2	18.2					7.8E-04			7.8E-04
						Cumulative:		2.4E-06				2.4E-01

DEQ Risk Calculator - Direct Contact - Non-Residential Worker Soil **Output Form 2C**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-3 Risk Assessment

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 800 mg/kg for commercial/industrial soil.*

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	0.0216	0.0216	0.0216					2.1E-08			2.1E-08
7440-38-2	Arsenic, Inorganic	0.486	0.486	0.486	1.3E-07	2.8E-08	2.9E-12	1.6E-07	8.3E-04	1.8E-04	1.2E-07	1.0E-03
7440-39-3	Barium	13.3	13.3	13.3					5.7E-05		1.0E-07	5.7E-05
7440-41-7	Beryllium and compounds	0.0964	0.0964	0.0964			3.2E-13	3.2E-13	4.1E-05		1.9E-08	4.1E-05
7440-43-9	Cadmium (Diet)	0.026	0.026	0.026			6.4E-14	6.4E-14	2.2E-04	3.8E-05	1.0E-08	2.6E-04
16065-83-1	Chromium(III), Insoluble Salts	8.96	8.96	8.96					5.1E-06			5.1E-06
7440-48-4	Cobalt	2.85	2.85	2.85			3.5E-11	3.5E-11	8.1E-03		1.8E-06	8.1E-03
7440-50-8	Copper	2.91	2.91	2.91					6.2E-05			6.2E-05
7439-92-1	~Lead and Compounds	4.34	4.34	4.34					**<SL****	**<SL****	**<SL****	
7439-96-5	Manganese (Non-diet)	83.5	83.5	83.5					3.0E-03		6.4E-06	3.0E-03
7440-02-0	Nickel Soluble Salts	4.95	4.95	4.95			1.8E-12	1.8E-12	2.1E-04		1.9E-06	2.1E-04
50-32-8	~Benzo[a]pyrene	0.17	0.17	0.17	5.2E-08	2.9E-08	1.4E-13	8.1E-08	4.9E-04	2.7E-04	3.3E-07	7.5E-04
205-99-2	~Benzo[b]fluoranthene	0.253	0.253	0.253	7.7E-09	4.3E-09	2.1E-14	1.2E-08				
206-44-0	~Fluoranthene	0.235	0.235	0.235					5.0E-06	2.8E-06		7.8E-06
129-00-0	~Pyrene	0.275	0.275	0.275					7.8E-06	4.3E-06		1.2E-05
7782-49-2	Selenium	0.117	0.117	0.117					2.0E-05		2.3E-11	2.0E-05
7440-22-4	Silver	0.211	0.211	0.211					3.6E-05			3.6E-05
7440-62-2	Vanadium and Compounds	15.5	15.5	15.5					2.6E-03		6.0E-07	2.6E-03
7440-66-6	Zinc and Compounds	18.2	18.2	18.2					5.2E-05			5.2E-05
						Cumulative:		2.5E-07				1.6E-02

DEQ Risk Calculator - Direct Contact - Recreator/Trespasser Soil **Output Form 2F**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-3 Risk Assessment

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 200 mg/kg for residential soil. If it has been demonstrated that additional sources of lead are present (e.g., lead water service lines or lead-based paint), the EPA screening level is 100 mg/kg.*

Receptor Type: _____

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	0.0216	0.0216	0.0216					1.3E-07			1.3E-07
7440-38-2	Arsenic, Inorganic	0.486	0.486	0.486	2.7E-07	3.8E-08	4.5E-13	3.1E-07	5.3E-03	6.3E-04	1.9E-08	6.0E-03
7440-39-3	Barium	13.3	13.3	13.3					3.6E-04		1.5E-08	3.6E-04
7440-41-7	Beryllium and compounds	0.0964	0.0964	0.0964			5.0E-14	5.0E-14	2.6E-04		2.8E-09	2.6E-04
7440-43-9	Cadmium (Diet)	0.026	0.026	0.026			1.0E-14	1.0E-14	1.4E-03	1.4E-04	1.5E-09	1.6E-03
16065-83-1	Chromium(III), Insoluble Salts	8.96	8.96	8.96					3.3E-05			3.3E-05
7440-48-4	Cobalt	2.85	2.85	2.85			5.5E-12	5.5E-12	5.2E-02		2.7E-07	5.2E-02
7440-50-8	Copper	2.91	2.91	2.91					4.0E-04			4.0E-04
7439-92-1	~Lead and Compounds	4.34	4.34	4.34					**<SL****	**<SL****	**<SL****	
7439-96-5	Manganese (Non-diet)	83.5	83.5	83.5					1.9E-02		9.6E-07	1.9E-02
7440-02-0	Nickel Soluble Salts	4.95	4.95	4.95			2.8E-13	2.8E-13	1.4E-03		2.9E-07	1.4E-03
50-32-8	~Benzo[a]pyrene	0.17	0.17	0.17	4.8E-07	1.6E-07	6.1E-14	6.3E-07	3.1E-03	9.6E-04	4.9E-08	4.1E-03
205-99-2	~Benzo[b]fluoranthene	0.253	0.253	0.253	7.1E-08	2.4E-08	9.0E-15	9.4E-08				
206-44-0	~Fluoranthene	0.235	0.235	0.235					3.2E-05	9.9E-06		4.2E-05
129-00-0	~Pyrene	0.275	0.275	0.275					5.0E-05	1.5E-05		6.6E-05
7782-49-2	Selenium	0.117	0.117	0.117					1.3E-04		3.4E-12	1.3E-04
7440-22-4	Silver	0.211	0.211	0.211					2.3E-04			2.3E-04
7440-62-2	Vanadium and Compounds	15.5	15.5	15.5					1.7E-02		8.9E-08	1.7E-02
7440-66-6	Zinc and Compounds	18.2	18.2	18.2					3.3E-04			3.3E-04
						Cumulative:		1.0E-06				1.0E-01

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	City of Durham Parks - Northgate Park
Site Address:	300 W. Club Boulevard & 404 W. Lavender Avenue
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NONCD0000825
Exposure Unit ID:	SED-4 Risk Assessment
Submittal Date:	12/3/2025
Prepared By:	Madison Allen
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-4 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	5.0E-06	3.5E-01	NO
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	4.6E-07	2.4E-02	NO
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	2.1E-06	1.5E-01	NO
	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	NC	NC	NC
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	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 2A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-4 Risk Assessment

Soil Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

A duplicate sample was taken alongside SED-4. The highest concentration between the two is used.

NOTE: If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (mg/kg)	Notes:	CAS Number	Chemical **For the chemicals highlighted in blue, data entry notes are provided in the PSRG Table link on the Main Menu**	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
0.0903		67-64-1	Acetone			mg/kg	DUP									
0.732		7440-38-2	Arsenic, Inorganic			mg/kg	DUP									
20.6		7440-39-3	Barium			mg/kg	DUP									
0.146	J	7440-41-7	Beryllium and compounds			mg/kg	DUP									
0.0631	J	7440-43-9	Cadmium (Diet)			mg/kg	DUP									
13		16065-83-1	Chromium(III), Insoluble Salts			mg/kg	DUP									
3.97		7440-48-4	Cobalt			mg/kg	DUP									
5.23		7440-50-8	Copper			mg/kg	DUP									
7.04		7439-92-1	~Lead and Compounds			mg/kg	DUP									
142		7439-96-5	Manganese (Non-diet)			mg/kg	DUP									
0.00951	J	78-93-3	Methyl Ethyl Ketone (2-Butanone)			mg/kg	DUP									
6.27		7440-02-0	Nickel Soluble Salts			mg/kg	DUP									
0.354	J	56-55-3	~Benz[a]anthracene			mg/kg	DUP									
0.357	J	50-32-8	~Benzo[a]pyrene			mg/kg	DUP									
0.544	J	205-99-2	~Benzo[b]fluoranthene			mg/kg	DUP									
0.325	J	207-08-9	~Benzo[k]fluoranthene			mg/kg	DUP									
0.408	J	218-01-9	~Chrysene			mg/kg	DUP									
0.671	J	206-44-0	~Fluoranthene			mg/kg	DUP									
0.808		129-00-0	~Pyrene			mg/kg	DUP									
0.161	J	7782-49-2	Selenium			mg/kg	DUP									
0.281		7440-22-4	Silver			mg/kg	DUP									
19		7440-62-2	Vanadium and Compounds			mg/kg	SED-4									
28.4		7440-66-6	Zinc and Compounds			mg/kg	DUP									

DEQ Risk Calculator - Direct Contact - Resident Soil **Output Form 2A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-4 Risk Assessment

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 200 mg/kg for residential soil. If it has been demonstrated that additional sources of lead are present (e.g., lead water service lines or lead-based paint), the EPA screening level is 100 mg/kg.*

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk*	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient*	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	0.0903	0.0903	0.0903					1.3E-06			1.3E-06
7440-38-2	Arsenic, Inorganic	0.732	0.732	0.732	9.5E-07	1.3E-07	1.9E-11	1.1E-06	1.9E-02	2.2E-03	7.9E-07	2.1E-02
7440-39-3	Barium	20.6	20.6	20.6					1.3E-03		6.7E-07	1.3E-03
7440-41-7	Beryllium and compounds	0.146	0.146	0.146			2.1E-12	2.1E-12	9.3E-04		1.2E-07	9.3E-04
7440-43-9	Cadmium (Diet)	0.0631	0.0631	0.0631			6.8E-13	6.8E-13	8.1E-03	7.7E-04	1.0E-07	8.8E-03
16065-83-1	Chromium(III), Insoluble Salts	13	13	13					1.1E-04			1.1E-04
7440-48-4	Cobalt	3.97	3.97	3.97			2.1E-10	2.1E-10	1.7E-01		1.1E-05	1.7E-01
7440-50-8	Copper	5.23	5.23	5.23					1.7E-03			1.7E-03
7439-92-1	~Lead and Compounds	7.04	7.04	7.04					**<SL****	**<SL****	**<SL****	
7439-96-5	Manganese (Non-diet)	142	142	142					7.6E-02		4.6E-05	7.6E-02
78-93-3	Methyl Ethyl Ketone (2-Butanone)	0.00951	0.00951	0.00951					2.0E-07		1.4E-07	3.4E-07
7440-02-0	Nickel Soluble Salts	6.27	6.27	6.27			9.8E-12	9.8E-12	4.0E-03		1.0E-05	4.0E-03
56-55-3	~Benz[a]anthracene	0.354	0.354	0.354	2.3E-07	7.7E-08	4.5E-09	3.1E-07				
50-32-8	~Benzo[a]pyrene	0.357	0.357	0.357	**2.3E-06**	7.8E-07	3.6E-12	3.1E-06	1.5E-02	4.7E-03	2.9E-06	2.0E-02
205-99-2	~Benzo[b]fluoranthene	0.544	0.544	0.544	3.6E-07	1.2E-07	5.4E-13	4.7E-07				
207-08-9	~Benzo[k]fluoranthene	0.325	0.325	0.325	2.1E-08	7.1E-09	3.2E-14	2.8E-08				
218-01-9	~Chrysene	0.408	0.408	0.408	2.7E-09	8.9E-10	4.1E-15	3.6E-09				
206-44-0	~Fluoranthene	0.671	0.671	0.671					2.1E-04	6.6E-05		2.8E-04
129-00-0	~Pyrene	0.808	0.808	0.808					3.4E-04	1.1E-04		4.5E-04
7782-49-2	Selenium	0.161	0.161	0.161					4.1E-04		1.3E-10	4.1E-04
7440-22-4	Silver	0.281	0.281	0.281					7.2E-04			7.2E-04
7440-62-2	Vanadium and Compounds	19	19	19					4.8E-02		3.1E-06	4.8E-02
7440-66-6	Zinc and Compounds	28.4	28.4	28.4					1.2E-03			1.2E-03
						Cumulative:		5.0E-06				3.5E-01

DEQ Risk Calculator - Direct Contact - Non-Residential Worker Soil **Output Form 2C**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-4 Risk Assessment

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 800 mg/kg for commercial/industrial soil.*

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	0.0903	0.0903	0.0903					8.6E-08			8.6E-08
7440-38-2	Arsenic, Inorganic	0.732	0.732	0.732	2.0E-07	4.3E-08	4.3E-12	2.4E-07	1.3E-03	2.7E-04	1.9E-07	1.5E-03
7440-39-3	Barium	20.6	20.6	20.6					8.8E-05		1.6E-07	8.8E-05
7440-41-7	Beryllium and compounds	0.146	0.146	0.146			4.8E-13	4.8E-13	6.3E-05		2.8E-08	6.3E-05
7440-43-9	Cadmium (Diet)	0.0631	0.0631	0.0631			1.6E-13	1.6E-13	5.4E-04	9.1E-05	2.4E-08	6.3E-04
16065-83-1	Chromium(III), Insoluble Salts	13	13	13					7.4E-06			7.4E-06
7440-48-4	Cobalt	3.97	3.97	3.97			4.9E-11	4.9E-11	1.1E-02		2.5E-06	1.1E-02
7440-50-8	Copper	5.23	5.23	5.23					1.1E-04			1.1E-04
7439-92-1	~Lead and Compounds	7.04	7.04	7.04					**<SL****	**<SL****	**<SL****	
7439-96-5	Manganese (Non-diet)	142	142	142					5.1E-03		1.1E-05	5.1E-03
78-93-3	Methyl Ethyl Ketone (2-Butanone)	0.00951	0.00951	0.00951					1.4E-08		3.3E-08	4.7E-08
7440-02-0	Nickel Soluble Salts	6.27	6.27	6.27			2.2E-12	2.2E-12	2.7E-04		2.4E-06	2.7E-04
56-55-3	~Benz[a]anthracene	0.354	0.354	0.354	1.1E-08	6.0E-09	3.7E-10	1.7E-08				
50-32-8	~Benzo[a]pyrene	0.357	0.357	0.357	1.1E-07	6.0E-08	2.9E-13	1.7E-07	1.0E-03	5.6E-04	6.9E-07	1.6E-03
205-99-2	~Benzo[b]fluoranthene	0.544	0.544	0.544	1.7E-08	9.2E-09	4.5E-14	2.6E-08				
207-08-9	~Benzo[k]fluoranthene	0.325	0.325	0.325	9.9E-10	5.5E-10	2.7E-15	1.5E-09				
218-01-9	~Chrysene	0.408	0.408	0.408	1.2E-10	6.9E-11	3.4E-16	1.9E-10				
206-44-0	~Fluoranthene	0.671	0.671	0.671					1.4E-05	7.9E-06		2.2E-05
129-00-0	~Pyrene	0.808	0.808	0.808					2.3E-05	1.3E-05		3.6E-05
7782-49-2	Selenium	0.161	0.161	0.161					2.8E-05		3.1E-11	2.8E-05
7440-22-4	Silver	0.281	0.281	0.281					4.8E-05			4.8E-05
7440-62-2	Vanadium and Compounds	19	19	19					3.2E-03		7.3E-07	3.2E-03
7440-66-6	Zinc and Compounds	28.4	28.4	28.4					8.1E-05			8.1E-05
						Cumulative:		4.6E-07				2.4E-02

DEQ Risk Calculator - Direct Contact - Recreator/Trespasser Soil **Output Form 2F**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-4 Risk Assessment

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 200 mg/kg for residential soil. If it has been demonstrated that additional sources of lead are present (e.g., lead water service lines or lead-based paint), the EPA screening level is 100 mg/kg.*

Receptor Type: _____

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	0.0903	0.0903	0.0903					5.5E-07			5.5E-07
7440-38-2	Arsenic, Inorganic	0.732	0.732	0.732	4.1E-07	5.7E-08	6.7E-13	4.6E-07	8.0E-03	9.5E-04	2.8E-08	9.0E-03
7440-39-3	Barium	20.6	20.6	20.6					5.6E-04		2.4E-08	5.6E-04
7440-41-7	Beryllium and compounds	0.146	0.146	0.146			7.5E-14	7.5E-14	4.0E-04		4.2E-09	4.0E-04
7440-43-9	Cadmium (Diet)	0.0631	0.0631	0.0631			2.4E-14	2.4E-14	3.5E-03	3.3E-04	3.6E-09	3.8E-03
16065-83-1	Chromium(III), Insoluble Salts	13	13	13					4.7E-05			4.7E-05
7440-48-4	Cobalt	3.97	3.97	3.97			7.7E-12	7.7E-12	7.3E-02		3.8E-07	7.3E-02
7440-50-8	Copper	5.23	5.23	5.23					7.2E-04			7.2E-04
7439-92-1	~Lead and Compounds	7.04	7.04	7.04					**<SL****	**<SL****	**<SL****	
7439-96-5	Manganese (Non-diet)	142	142	142					3.2E-02		1.6E-06	3.2E-02
78-93-3	Methyl Ethyl Ketone (2-Butanone)	0.00951	0.00951	0.00951					8.7E-08		5.0E-09	9.2E-08
7440-02-0	Nickel Soluble Salts	6.27	6.27	6.27			3.5E-13	3.5E-13	1.7E-03		3.6E-07	1.7E-03
56-55-3	~Benz[a]anthracene	0.354	0.354	0.354	9.9E-08	3.3E-08	1.6E-10	1.3E-07				
50-32-8	~Benzo[a]pyrene	0.357	0.357	0.357	1.0E-06	3.3E-07	1.3E-13	**1.3E-06**	6.5E-03	2.0E-03	1.0E-07	8.5E-03
205-99-2	~Benzo[b]fluoranthene	0.544	0.544	0.544	1.5E-07	5.1E-08	1.9E-14	2.0E-07				
207-08-9	~Benzo[k]fluoranthene	0.325	0.325	0.325	9.1E-09	3.0E-09	1.2E-15	1.2E-08				
218-01-9	~Chrysene	0.408	0.408	0.408	1.1E-09	3.8E-10	1.5E-16	1.5E-09				
206-44-0	~Fluoranthene	0.671	0.671	0.671					9.2E-05	2.8E-05		1.2E-04
129-00-0	~Pyrene	0.808	0.808	0.808					1.5E-04	4.6E-05		1.9E-04
7782-49-2	Selenium	0.161	0.161	0.161					1.8E-04		4.6E-12	1.8E-04
7440-22-4	Silver	0.281	0.281	0.281					3.1E-04			3.1E-04
7440-62-2	Vanadium and Compounds	19	19	19					2.1E-02		1.1E-07	2.1E-02
7440-66-6	Zinc and Compounds	28.4	28.4	28.4					5.2E-04			5.2E-04
						Cumulative:		2.1E-06				1.5E-01

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	City of Durham Parks - Northgate Park
Site Address:	300 W. Club Boulevard & 404 W. Lavender Avenue
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NONCD0000825
Exposure Unit ID:	SED-5 Risk Assessment
Submittal Date:	12/3/2025
Prepared By:	Madison Allen
Reviewed By:	Tom Raymond

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-5 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS				
Receptor	**Pathway**	**Carcinogenic Risk**	**Hazard Index**	**Risk exceeded?**
Resident	Soil	8.6E-07	2.3E-01	NO
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	1.9E-07	1.6E-02	NO
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	3.7E-07	1.0E-01	NO
	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	NC	NC	NC
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	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 2A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-5 Risk Assessment

Soil Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

NOTE: If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (mg/kg)	Notes:	CAS Number	Chemical **For the chemicals highlighted in blue, data entry notes are provided in the PSRG Table link on the Main Menu**	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
0.0375		67-64-1	Acetone			mg/kg	SED-5									
0.582		7440-38-2	Arsenic, Inorganic			mg/kg	SED-5									
20		7440-39-3	Barium			mg/kg	SED-5									
0.113	J	7440-41-7	Beryllium and compounds			mg/kg	SED-5									
0.0523	J	7440-43-9	Cadmium (Diet)			mg/kg	SED-5									
9.59		16065-83-1	Chromium(III), Insoluble Salts			mg/kg	SED-5									
3.41		7440-48-4	Cobalt			mg/kg	SED-5									
4.46		7440-50-8	Copper			mg/kg	SED-5									
6.08		7439-92-1	~Lead and Compounds			mg/kg	SED-5									
45.3		7439-96-5	Manganese (Non-diet)			mg/kg	SED-5									
5.11		7440-02-0	Nickel Soluble Salts			mg/kg	SED-5									
0.205	J	206-44-0	~Fluoranthene			mg/kg	SED-5									
0.184	J	7782-49-2	Selenium			mg/kg	SED-5									
0.197		7440-22-4	Silver			mg/kg	SED-5									
12.6		7440-62-2	Vanadium and Compounds			mg/kg	SED-5									
24.9		7440-66-6	Zinc and Compounds			mg/kg	SED-5									

DEQ Risk Calculator - Direct Contact - Resident Soil **Output Form 2A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-5 Risk Assessment

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 200 mg/kg for residential soil. If it has been demonstrated that additional sources of lead are present (e.g., lead water service lines or lead-based paint), the EPA screening level is 100 mg/kg.*

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk*	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient*	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	0.0375	0.0375	0.0375					5.3E-07			5.3E-07
7440-38-2	Arsenic, Inorganic	0.582	0.582	0.582	7.5E-07	1.1E-07	1.5E-11	8.6E-07	1.5E-02	1.8E-03	6.3E-07	1.7E-02
7440-39-3	Barium	20	20	20					1.3E-03		6.5E-07	1.3E-03
7440-41-7	Beryllium and compounds	0.113	0.113	0.113			1.6E-12	1.6E-12	7.2E-04		9.1E-08	7.2E-04
7440-43-9	Cadmium (Diet)	0.0523	0.0523	0.0523			5.7E-13	5.7E-13	6.7E-03	6.3E-04	8.5E-08	7.3E-03
16065-83-1	Chromium(III), Insoluble Salts	9.59	9.59	9.59					8.2E-05			8.2E-05
7440-48-4	Cobalt	3.41	3.41	3.41			1.8E-10	1.8E-10	1.5E-01		9.2E-06	1.5E-01
7440-50-8	Copper	4.46	4.46	4.46					1.4E-03			1.4E-03
7439-92-1	~Lead and Compounds	6.08	6.08	6.08					**<SL****	**<SL****	**<SL****	
7439-96-5	Manganese (Non-diet)	45.3	45.3	45.3					2.4E-02		1.5E-05	2.4E-02
7440-02-0	Nickel Soluble Salts	5.11	5.11	5.11			8.0E-12	8.0E-12	3.3E-03		8.3E-06	3.3E-03
206-44-0	~Fluoranthene	0.205	0.205	0.205					6.6E-05	2.0E-05		8.6E-05
7782-49-2	Selenium	0.184	0.184	0.184					4.7E-04		1.5E-10	4.7E-04
7440-22-4	Silver	0.197	0.197	0.197					5.0E-04			5.0E-04
7440-62-2	Vanadium and Compounds	12.6	12.6	12.6					3.2E-02		2.0E-06	3.2E-02
7440-66-6	Zinc and Compounds	24.9	24.9	24.9					1.1E-03			1.1E-03
						Cumulative:		8.6E-07				2.3E-01

DEQ Risk Calculator - Direct Contact - Non-Residential Worker Soil **Output Form 2C**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-5 Risk Assessment

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 800 mg/kg for commercial/industrial soil.*

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	0.0375	0.0375	0.0375					3.6E-08			3.6E-08
7440-38-2	Arsenic, Inorganic	0.582	0.582	0.582	1.6E-07	3.4E-08	3.4E-12	1.9E-07	1.0E-03	2.1E-04	1.5E-07	1.2E-03
7440-39-3	Barium	20	20	20					8.6E-05		1.5E-07	8.6E-05
7440-41-7	Beryllium and compounds	0.113	0.113	0.113			3.7E-13	3.7E-13	4.8E-05		2.2E-08	4.8E-05
7440-43-9	Cadmium (Diet)	0.0523	0.0523	0.0523			1.3E-13	1.3E-13	4.5E-04	7.6E-05	2.0E-08	5.2E-04
16065-83-1	Chromium(III), Insoluble Salts	9.59	9.59	9.59					5.5E-06			5.5E-06
7440-48-4	Cobalt	3.41	3.41	3.41			4.2E-11	4.2E-11	9.7E-03		2.2E-06	9.7E-03
7440-50-8	Copper	4.46	4.46	4.46					9.5E-05			9.5E-05
7439-92-1	~Lead and Compounds	6.08	6.08	6.08					**<SL****	**<SL****	**<SL****	
7439-96-5	Manganese (Non-diet)	45.3	45.3	45.3					1.6E-03		3.5E-06	1.6E-03
7440-02-0	Nickel Soluble Salts	5.11	5.11	5.11			1.8E-12	1.8E-12	2.2E-04		2.0E-06	2.2E-04
206-44-0	~Fluoranthene	0.205	0.205	0.205					4.4E-06	2.4E-06		6.8E-06
7782-49-2	Selenium	0.184	0.184	0.184					3.2E-05		3.5E-11	3.2E-05
7440-22-4	Silver	0.197	0.197	0.197					3.4E-05			3.4E-05
7440-62-2	Vanadium and Compounds	12.6	12.6	12.6					2.1E-03		4.8E-07	2.1E-03
7440-66-6	Zinc and Compounds	24.9	24.9	24.9					7.1E-05			7.1E-05
						Cumulative:		1.9E-07				1.6E-02

DEQ Risk Calculator - Direct Contact - Recreator/Trespasser Soil **Output Form 2F**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-5 Risk Assessment

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 200 mg/kg for residential soil. If it has been demonstrated that additional sources of lead are present (e.g., lead water service lines or lead-based paint), the EPA screening level is 100 mg/kg.*

Receptor Type: _____

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	0.0375	0.0375	0.0375					2.3E-07			2.3E-07
7440-38-2	Arsenic, Inorganic	0.582	0.582	0.582	3.2E-07	4.5E-08	5.4E-13	3.7E-07	6.4E-03	7.6E-04	2.2E-08	7.1E-03
7440-39-3	Barium	20	20	20					5.5E-04		2.3E-08	5.5E-04
7440-41-7	Beryllium and compounds	0.113	0.113	0.113			5.8E-14	5.8E-14	3.1E-04		3.3E-09	3.1E-04
7440-43-9	Cadmium (Diet)	0.0523	0.0523	0.0523			2.0E-14	2.0E-14	2.9E-03	2.7E-04	3.0E-09	3.1E-03
16065-83-1	Chromium(III), Insoluble Salts	9.59	9.59	9.59					3.5E-05			3.5E-05
7440-48-4	Cobalt	3.41	3.41	3.41			6.6E-12	6.6E-12	6.2E-02		3.3E-07	6.2E-02
7440-50-8	Copper	4.46	4.46	4.46					6.1E-04			6.1E-04
7439-92-1	~Lead and Compounds	6.08	6.08	6.08					**<SL****	**<SL****	**<SL****	
7439-96-5	Manganese (Non-diet)	45.3	45.3	45.3					1.0E-02		5.2E-07	1.0E-02
7440-02-0	Nickel Soluble Salts	5.11	5.11	5.11			2.8E-13	2.8E-13	1.4E-03		2.9E-07	1.4E-03
206-44-0	~Fluoranthene	0.205	0.205	0.205					2.8E-05	8.7E-06		3.7E-05
7782-49-2	Selenium	0.184	0.184	0.184					2.0E-04		5.3E-12	2.0E-04
7440-22-4	Silver	0.197	0.197	0.197					2.2E-04			2.2E-04
7440-62-2	Vanadium and Compounds	12.6	12.6	12.6					1.4E-02		7.3E-08	1.4E-02
7440-66-6	Zinc and Compounds	24.9	24.9	24.9					4.5E-04			4.5E-04
						Cumulative:		3.7E-07				1.0E-01

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	City of Durham Parks - Northgate Park
Site Address:	300 W. Club Boulevard & 404 W. Lavender Avenue
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NONCD0000825
Exposure Unit ID:	SED-6 Risk Assessment
Submittal Date:	12/3/2025
Prepared By:	Madison Allen
Reviewed By:	Tom Raymond

Exposure Point Concentrations **Input Form 2A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-6 Risk Assessment

Soil Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

NOTE: If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (mg/kg)	Notes:	CAS Number	Chemical **For the chemicals highlighted in blue, data entry notes are provided in the PSRG Table link on the Main Menu**	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
0.0154	J	67-64-1	Acetone			mg/kg	SED-6									
0.436		7440-38-2	Arsenic, Inorganic			mg/kg	SED-6									
13.4		7440-39-3	Barium			mg/kg	SED-6									
0.0768	J	7440-41-7	Beryllium and compounds			mg/kg	SED-6									
0.0375	J	7440-43-9	Cadmium (Diet)			mg/kg	SED-6									
8.46		16065-83-1	Chromium(III), Insoluble Salts			mg/kg	SED-6									
4.48		7440-48-4	Cobalt			mg/kg	SED-6									
2.75		7440-50-8	Copper			mg/kg	SED-6									
3.75		7439-92-1	~Lead and Compounds			mg/kg	SED-6									
79		7439-96-5	Manganese (Non-diet)			mg/kg	SED-6									
4.51		7440-02-0	Nickel Soluble Salts			mg/kg	SED-6									
0.116	J	56-55-3	~Benz[a]anthracene			mg/kg	SED-6									
0.127	J	50-32-8	~Benzo[a]pyrene			mg/kg	SED-6									
0.204	J	205-99-2	~Benzo[b]fluoranthene			mg/kg	SED-6									
0.0869	J	207-08-9	~Benzo[k]fluoranthene			mg/kg	SED-6									
0.136	J	218-01-9	~Chrysene			mg/kg	SED-6									
0.337		206-44-0	~Fluoranthene			mg/kg	SED-6									
0.225	J	129-00-0	~Pyrene			mg/kg	SED-6									
0.128	J	7782-49-2	Selenium			mg/kg	SED-6									
0.194		7440-22-4	Silver			mg/kg	SED-6									
11.7		7440-62-2	Vanadium and Compounds			mg/kg	SED-6									
15.9		7440-66-6	Zinc and Compounds			mg/kg	SED-6									

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-6 Risk Assessment

DIRECT CONTACT SOIL AND WATER CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Soil	2.0E-06	2.9E-01	NO
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	2.2E-07	2.0E-02	NO
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	NC	NC	NC
Recreator/Trespasser	Soil	8.7E-07	1.3E-01	NO
	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	NC	NC	NC
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	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 - Direct Contact - Resident Soil **Output Form 2A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-6 Risk Assessment

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 200 mg/kg for residential soil. If it has been demonstrated that additional sources of lead are present (e.g., lead water service lines or lead-based paint), the EPA screening level is 100 mg/kg.*

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk*	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient*	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	0.0154	0.0154	0.0154					2.2E-07			2.2E-07
7440-38-2	Arsenic, Inorganic	0.436	0.436	0.436	5.6E-07	7.9E-08	1.1E-11	6.4E-07	1.1E-02	1.3E-03	4.7E-07	1.2E-02
7440-39-3	Barium	13.4	13.4	13.4					8.6E-04		4.3E-07	8.6E-04
7440-41-7	Beryllium and compounds	0.0768	0.0768	0.0768			1.1E-12	1.1E-12	4.9E-04		6.2E-08	4.9E-04
7440-43-9	Cadmium (Diet)	0.0375	0.0375	0.0375			4.1E-13	4.1E-13	4.8E-03	4.6E-04	6.1E-08	5.2E-03
16065-83-1	Chromium(III), Insoluble Salts	8.46	8.46	8.46					7.2E-05			7.2E-05
7440-48-4	Cobalt	4.48	4.48	4.48			2.4E-10	2.4E-10	1.9E-01		1.2E-05	1.9E-01
7440-50-8	Copper	2.75	2.75	2.75					8.8E-04			8.8E-04
7439-92-1	~Lead and Compounds	3.75	3.75	3.75					**<SL****	**<SL****	**<SL****	
7439-96-5	Manganese (Non-diet)	79	79	79					4.2E-02		2.6E-05	4.2E-02
7440-02-0	Nickel Soluble Salts	4.51	4.51	4.51			7.0E-12	7.0E-12	2.9E-03		7.3E-06	2.9E-03
56-55-3	~Benz[a]anthracene	0.116	0.116	0.116	7.6E-08	2.5E-08	1.5E-09	1.0E-07				
50-32-8	~Benzo[a]pyrene	0.127	0.127	0.127	8.3E-07	2.8E-07	1.3E-12	1.1E-06	5.4E-03	1.7E-03	1.0E-06	7.1E-03
205-99-2	~Benzo[b]fluoranthene	0.204	0.204	0.204	1.3E-07	4.4E-08	2.0E-13	1.8E-07				
207-08-9	~Benzo[k]fluoranthene	0.0869	0.0869	0.0869	5.7E-09	1.9E-09	8.7E-15	7.6E-09				
218-01-9	~Chrysene	0.136	0.136	0.136	8.9E-10	3.0E-10	1.4E-15	1.2E-09				
206-44-0	~Fluoranthene	0.337	0.337	0.337					1.1E-04	3.3E-05		1.4E-04
129-00-0	~Pyrene	0.225	0.225	0.225					9.6E-05	3.0E-05		1.3E-04
7782-49-2	Selenium	0.128	0.128	0.128					3.3E-04		1.0E-10	3.3E-04
7440-22-4	Silver	0.194	0.194	0.194					5.0E-04			5.0E-04
7440-62-2	Vanadium and Compounds	11.7	11.7	11.7					3.0E-02		1.9E-06	3.0E-02
7440-66-6	Zinc and Compounds	15.9	15.9	15.9					6.8E-04			6.8E-04
						Cumulative:		2.0E-06				2.9E-01

DEQ Risk Calculator - Direct Contact - Non-Residential Worker Soil **Output Form 2C**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-6 Risk Assessment

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 800 mg/kg for commercial/industrial soil.*

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	0.0154	0.0154	0.0154					1.5E-08			1.5E-08
7440-38-2	Arsenic, Inorganic	0.436	0.436	0.436	1.2E-07	2.5E-08	2.6E-12	1.5E-07	7.5E-04	1.6E-04	1.1E-07	9.0E-04
7440-39-3	Barium	13.4	13.4	13.4					5.7E-05		1.0E-07	5.7E-05
7440-41-7	Beryllium and compounds	0.0768	0.0768	0.0768			2.5E-13	2.5E-13	3.3E-05		1.5E-08	3.3E-05
7440-43-9	Cadmium (Diet)	0.0375	0.0375	0.0375			9.3E-14	9.3E-14	3.2E-04	5.4E-05	1.4E-08	3.8E-04
16065-83-1	Chromium(III), Insoluble Salts	8.46	8.46	8.46					4.8E-06			4.8E-06
7440-48-4	Cobalt	4.48	4.48	4.48			5.5E-11	5.5E-11	1.3E-02		2.9E-06	1.3E-02
7440-50-8	Copper	2.75	2.75	2.75					5.9E-05			5.9E-05
7439-92-1	~Lead and Compounds	3.75	3.75	3.75					**<SL****	**<SL****	**<SL****	
7439-96-5	Manganese (Non-diet)	79	79	79					2.8E-03		6.1E-06	2.8E-03
7440-02-0	Nickel Soluble Salts	4.51	4.51	4.51			1.6E-12	1.6E-12	1.9E-04		1.7E-06	1.9E-04
56-55-3	~Benz[a]anthracene	0.116	0.116	0.116	3.5E-09	2.0E-09	1.2E-10	5.6E-09				
50-32-8	~Benzo[a]pyrene	0.127	0.127	0.127	3.9E-08	2.1E-08	1.0E-13	6.0E-08	3.6E-04	2.0E-04	2.4E-07	5.6E-04
205-99-2	~Benzo[b]fluoranthene	0.204	0.204	0.204	6.2E-09	3.4E-09	1.7E-14	9.7E-09				
207-08-9	~Benzo[k]fluoranthene	0.0869	0.0869	0.0869	2.7E-10	1.5E-10	7.2E-16	4.1E-10				
218-01-9	~Chrysene	0.136	0.136	0.136	4.2E-11	2.3E-11	1.1E-16	6.4E-11				
206-44-0	~Fluoranthene	0.337	0.337	0.337					7.2E-06	4.0E-06		1.1E-05
129-00-0	~Pyrene	0.225	0.225	0.225					6.4E-06	3.5E-06		1.0E-05
7782-49-2	Selenium	0.128	0.128	0.128					2.2E-05		2.5E-11	2.2E-05
7440-22-4	Silver	0.194	0.194	0.194					3.3E-05			3.3E-05
7440-62-2	Vanadium and Compounds	11.7	11.7	11.7					2.0E-03		4.5E-07	2.0E-03
7440-66-6	Zinc and Compounds	15.9	15.9	15.9					4.5E-05			4.5E-05
						Cumulative:		2.2E-07				2.0E-02

DEQ Risk Calculator - Direct Contact - Recreator/Trespasser Soil **Output Form 2F**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SED-6 Risk Assessment

** - Note that inhalation on this calculator refers to outdoor inhalation of volatiles and particulates, not indoor inhalation associated with vapor intrusion.*

*** - Note that the EPA has no consensus on reference dose or cancer slope factor values for lead, therefore it is not possible to calculate cancer risk or hazard quotient. Lead concentrations are compared to the EPA screening level of 200 mg/kg for residential soil. If it has been demonstrated that additional sources of lead are present (e.g., lead water service lines or lead-based paint), the EPA screening level is 100 mg/kg.*

Receptor Type:

CAS #	Chemical Name:	Ingestion Concentration (mg/kg)	Dermal Concentration (mg/kg)	Inhalation Concentration (mg/kg)*	Ingestion Carcinogenic Risk	Dermal Carcinogenic Risk	Inhalation Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Hazard Quotient	Inhalation Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
67-64-1	Acetone	0.0154	0.0154	0.0154					9.4E-08			9.4E-08
7440-38-2	Arsenic, Inorganic	0.436	0.436	0.436	2.4E-07	3.4E-08	4.0E-13	2.8E-07	4.8E-03	5.7E-04	1.7E-08	5.3E-03
7440-39-3	Barium	13.4	13.4	13.4					3.7E-04		1.5E-08	3.7E-04
7440-41-7	Beryllium and compounds	0.0768	0.0768	0.0768			4.0E-14	4.0E-14	2.1E-04		2.2E-09	2.1E-04
7440-43-9	Cadmium (Diet)	0.0375	0.0375	0.0375			1.4E-14	1.4E-14	2.1E-03	2.0E-04	2.2E-09	2.2E-03
16065-83-1	Chromium(III), Insoluble Salts	8.46	8.46	8.46					3.1E-05			3.1E-05
7440-48-4	Cobalt	4.48	4.48	4.48			8.6E-12	8.6E-12	8.2E-02		4.3E-07	8.2E-02
7440-50-8	Copper	2.75	2.75	2.75					3.8E-04			3.8E-04
7439-92-1	~Lead and Compounds	3.75	3.75	3.75					**<SL****	**<SL****	**<SL****	
7439-96-5	Manganese (Non-diet)	79	79	79					1.8E-02		9.1E-07	1.8E-02
7440-02-0	Nickel Soluble Salts	4.51	4.51	4.51			2.5E-13	2.5E-13	1.2E-03		2.6E-07	1.2E-03
56-55-3	~Benz[a]anthracene	0.116	0.116	0.116	3.2E-08	1.1E-08	5.2E-11	4.3E-08				
50-32-8	~Benzo[a]pyrene	0.127	0.127	0.127	3.6E-07	1.2E-07	4.5E-14	4.7E-07	2.3E-03	7.2E-04	3.7E-08	3.0E-03
205-99-2	~Benzo[b]fluoranthene	0.204	0.204	0.204	5.7E-08	1.9E-08	7.3E-15	7.6E-08				
207-08-9	~Benzo[k]fluoranthene	0.0869	0.0869	0.0869	2.4E-09	8.1E-10	3.1E-16	3.2E-09				
218-01-9	~Chrysene	0.136	0.136	0.136	3.8E-10	1.3E-10	4.8E-17	5.1E-10				
206-44-0	~Fluoranthene	0.337	0.337	0.337					4.6E-05	1.4E-05		6.0E-05
129-00-0	~Pyrene	0.225	0.225	0.225					4.1E-05	1.3E-05		5.4E-05
7782-49-2	Selenium	0.128	0.128	0.128					1.4E-04		3.7E-12	1.4E-04
7440-22-4	Silver	0.194	0.194	0.194					2.1E-04			2.1E-04
7440-62-2	Vanadium and Compounds	11.7	11.7	11.7					1.3E-02		6.8E-08	1.3E-02
7440-66-6	Zinc and Compounds	15.9	15.9	15.9					2.9E-04			2.9E-04
						Cumulative:		8.7E-07				1.3E-01

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	City of Durham Parks - Northgate Park
Site Address:	300 W. Club Boulevard & 404 W. Lavender Ave, Durham, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NONCD0000825
Exposure Unit ID:	SW-1 Risk Assessment
Submittal Date:	9/23/2025
Prepared By:	Jonathan Olanin
Reviewed By:	Jerry Paul

Exposure Point Concentrations **Input Form 2C**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SW-1 Risk Assessment

Surface Water Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

NOTE: If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (ug/L)	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
27.2		7664-41-7	Ammonia			ug/L	SW-1									
46.3		7440-39-3	Barium			ug/L	SW-1									
0.567	J	7440-48-4	Cobalt			ug/L	SW-1									
2.09		7440-50-8	Copper			ug/L	SW-1									
91.8		7439-96-5	Manganese (Non-diet)			ug/L	SW-1									
1.66	J	7440-02-0	Nickel Soluble Salts			ug/L	SW-1									
1.77	J	7440-62-2	Vanadium and Compounds			ug/L	SW-1									
13.7		7440-66-6	Zinc and Compounds			ug/L	SW-1									

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SW-1 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*	0.0E+00	4.9E-02	NO

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	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 - Direct Contact - Recreator/Trespasser Surface Water **Output Form 2G**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SW-1 Risk Assessment

Receptor Type:

CAS #	Chemical Name:	Ingestion Concentration (ug/L)	Dermal Concentration (ug/L)	Ingestion Carcinogenic Risk	Dermal Contact Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Contact Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
7664-41-7	Ammonia	27.2	27.2						
7440-39-3	Barium	46.3	46.3				9.1E-04	6.9E-04	1.6E-03
7440-48-4	Cobalt	0.567	0.567				7.5E-03	1.6E-04	7.6E-03
7440-50-8	Copper	2.09	2.09				2.1E-04	1.1E-05	2.2E-04
7439-96-5	Manganese (Non-diet)	91.8	91.8				1.5E-02	2.0E-02	3.5E-02
7440-02-0	Nickel Soluble Salts	1.66	1.66				3.3E-04	8.7E-05	4.1E-04
7440-62-2	Vanadium and Compounds	1.77	1.77				1.4E-03	2.8E-03	4.2E-03
7440-66-6	Zinc and Compounds	13.7	13.7				1.8E-04	5.7E-06	1.9E-04
					Cumulative:	0.0E+00			4.9E-02

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	City of Durham Parks - Northgate Park
Site Address:	300 W. Club Boulevard & 404 W. Lavender Ave, Durham, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NONCD0000825
Exposure Unit ID:	SW-2 Risk Assessment
Submittal Date:	9/23/2025
Prepared By:	Jonathan Olanin
Reviewed By:	Jerry Paul

Exposure Point Concentrations **Input Form 2C**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SW-2 Risk Assessment

Surface Water Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

NOTE: If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (ug/L)	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
31	J	7664-41-7	Ammonia			ug/L	SW-2									
49.8		7440-39-3	Barium			ug/L	SW-2									
0.568	J	7440-48-4	Cobalt			ug/L	SW-2									
2.22		7440-50-8	Copper			ug/L	SW-2									
88.5		7439-96-5	Manganese (Non-diet)			ug/L	SW-2									
1.56	J	7440-02-0	Nickel Soluble Salts			ug/L	SW-2									
1.75	J	7440-62-2	Vanadium and Compounds			ug/L	SW-2									
13		7440-66-6	Zinc and Compounds			ug/L	SW-2									

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SW-2 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*	0.0E+00	4.8E-02	NO

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	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 - Direct Contact - Recreator/Trespasser Surface Water **Output Form 2G**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SW-2 Risk Assessment

Receptor Type:

CAS #	Chemical Name:	Ingestion Concentration (ug/L)	Dermal Concentration (ug/L)	Ingestion Carcinogenic Risk	Dermal Contact Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Contact Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
7664-41-7	Ammonia	31	31						
7440-39-3	Barium	49.8	49.8				9.8E-04	7.4E-04	1.7E-03
7440-48-4	Cobalt	0.568	0.568				7.5E-03	1.6E-04	7.6E-03
7440-50-8	Copper	2.22	2.22				2.2E-04	1.2E-05	2.3E-04
7439-96-5	Manganese (Non-diet)	88.5	88.5				1.5E-02	1.9E-02	3.4E-02
7440-02-0	Nickel Soluble Salts	1.56	1.56				3.1E-04	8.2E-05	3.9E-04
7440-62-2	Vanadium and Compounds	1.75	1.75				1.4E-03	2.8E-03	4.2E-03
7440-66-6	Zinc and Compounds	13	13				1.7E-04	5.4E-06	1.8E-04
					Cumulative:	0.0E+00			4.8E-02

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	City of Durham Parks - Northgate Park
Site Address:	300 W. Club Boulevard & 404 W. Lavender Ave, Durham, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NONCD0000825
Exposure Unit ID:	SW-3 and DUP Risk Assessment
Submittal Date:	9/23/2025
Prepared By:	Jonathan Olanin
Reviewed By:	Jerry Paul

Exposure Point Concentrations **Input Form 2C**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SW-3 and DUP Risk Assessment

Surface Water Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

NOTE: If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (ug/L)	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
27.2	J	7664-41-7	Ammonia			ug/L	DUP									
47.4		7440-39-3	Barium			ug/L	SW-3									
0.564	J	7440-48-4	Cobalt			ug/L	SW-3									
2.17		7440-50-8	Copper			ug/L	SW-3									
88.7		7439-96-5	Manganese (Non-diet)			ug/L	SW-3									
1.7	J	7440-02-0	Nickel Soluble Salts			ug/L	SW-3									
1.72	J	7440-62-2	Vanadium and Compounds			ug/L	SW-3									
17.5		7440-66-6	Zinc and Compounds			ug/L	SW-3									

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SW-3 and DUP 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*	0.0E+00	4.8E-02	NO

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	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 - Direct Contact - Recreator/Trespasser Surface Water **Output Form 2G**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SW-3 and DUP Risk Assessment

Receptor Type:

CAS #	Chemical Name:	Ingestion Concentration (ug/L)	Dermal Concentration (ug/L)	Ingestion Carcinogenic Risk	Dermal Contact Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Contact Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
7664-41-7	Ammonia	27.2	27.2						
7440-39-3	Barium	47.4	47.4				9.4E-04	7.1E-04	1.6E-03
7440-48-4	Cobalt	0.564	0.564				7.4E-03	1.6E-04	7.6E-03
7440-50-8	Copper	2.17	2.17				2.1E-04	1.1E-05	2.3E-04
7439-96-5	Manganese (Non-diet)	88.7	88.7				1.5E-02	1.9E-02	3.4E-02
7440-02-0	Nickel Soluble Salts	1.7	1.7				3.4E-04	8.9E-05	4.2E-04
7440-62-2	Vanadium and Compounds	1.72	1.72				1.3E-03	2.7E-03	4.1E-03
7440-66-6	Zinc and Compounds	17.5	17.5				2.3E-04	7.3E-06	2.4E-04
					Cumulative:	0.0E+00			4.8E-02

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	City of Durham Parks - Northgate Park
Site Address:	300 W. Club Boulevard & 404 W. Lavender Ave, Durham, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NONCD0000825
Exposure Unit ID:	SW-4 Risk Assessment
Submittal Date:	9/23/2025
Prepared By:	Jonathan Olanin
Reviewed By:	Jerry Paul

Exposure Point Concentrations **Input Form 2C**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SW-4 Risk Assessment

Surface Water Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

NOTE: If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (ug/L)	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
25.2	J	7664-41-7	Ammonia			ug/L	SW-4									
42.1		7440-39-3	Barium			ug/L	SW-4									
0.528	J	7440-48-4	Cobalt			ug/L	SW-4									
2.39		7440-50-8	Copper			ug/L	SW-4									
76.7		7439-96-5	Manganese (Non-diet)			ug/L	SW-4									
1.71	J	7440-02-0	Nickel Soluble Salts			ug/L	SW-4									
2.78	J	7440-62-2	Vanadium and Compounds			ug/L	SW-4									
14.5		7440-66-6	Zinc and Compounds			ug/L	SW-4									

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SW-4 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*	0.0E+00	4.5E-02	NO

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	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 - Direct Contact - Recreator/Trespasser Surface Water **Output Form 2G**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SW-4 Risk Assessment

Receptor Type:

CAS #	Chemical Name:	Ingestion Concentration (ug/L)	Dermal Concentration (ug/L)	Ingestion Carcinogenic Risk	Dermal Contact Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Contact Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
7664-41-7	Ammonia	25.2	25.2						
7440-39-3	Barium	42.1	42.1				8.3E-04	6.3E-04	1.5E-03
7440-48-4	Cobalt	0.528	0.528				6.9E-03	1.5E-04	7.1E-03
7440-50-8	Copper	2.39	2.39				2.4E-04	1.3E-05	2.5E-04
7439-96-5	Manganese (Non-diet)	76.7	76.7				1.3E-02	1.7E-02	2.9E-02
7440-02-0	Nickel Soluble Salts	1.71	1.71				3.4E-04	8.9E-05	4.3E-04
7440-62-2	Vanadium and Compounds	2.78	2.78				2.2E-03	4.4E-03	6.6E-03
7440-66-6	Zinc and Compounds	14.5	14.5				1.9E-04	6.1E-06	2.0E-04
					Cumulative:	0.0E+00			4.5E-02

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	City of Durham Parks - Northgate Park
Site Address:	300 W. Club Boulevard & 404 W. Lavender Ave, Durham, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NONCD0000825
Exposure Unit ID:	SW-5 Risk Assessment
Submittal Date:	9/23/2025
Prepared By:	Jonathan Olanin
Reviewed By:	Jerry Paul

Exposure Point Concentrations **Input Form 2C**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SW-5 Risk Assessment

Surface Water Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

NOTE: If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (ug/L)	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
40.4	J	7664-41-7	Ammonia			ug/L	SW-5									
46.8		7440-39-3	Barium			ug/L	SW-5									
0.78	J	7440-48-4	Cobalt			ug/L	SW-5									
2.2		7440-50-8	Copper			ug/L	SW-5									
0.944	J	7439-92-1	~Lead and Compounds			ug/L	SW-5									
146		7439-96-5	Manganese (Non-diet)			ug/L	SW-5									
1.64	J	7440-02-0	Nickel Soluble Salts			ug/L	SW-5									
2.65	J	7440-62-2	Vanadium and Compounds			ug/L	SW-5									
16.2		7440-66-6	Zinc and Compounds			ug/L	SW-5									

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SW-5 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*	0.0E+00	7.5E-02	NO

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	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 - Direct Contact - Recreator/Trespasser Surface Water **Output Form 2G**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SW-5 Risk Assessment

Receptor Type:

CAS #	Chemical Name:	Ingestion Concentration (ug/L)	Dermal Concentration (ug/L)	Ingestion Carcinogenic Risk	Dermal Contact Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Contact Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
7664-41-7	Ammonia	40.4	40.4						
7440-39-3	Barium	46.8	46.8				9.2E-04	7.0E-04	1.6E-03
7440-48-4	Cobalt	0.78	0.78				1.0E-02	2.2E-04	1.0E-02
7440-50-8	Copper	2.2	2.2				2.2E-04	1.2E-05	2.3E-04
7439-92-1	~Lead and Compounds	0.944	0.944						
7439-96-5	Manganese (Non-diet)	146	146				2.4E-02	3.2E-02	5.6E-02
7440-02-0	Nickel Soluble Salts	1.64	1.64				3.2E-04	8.6E-05	4.1E-04
7440-62-2	Vanadium and Compounds	2.65	2.65				2.1E-03	4.2E-03	6.3E-03
7440-66-6	Zinc and Compounds	16.2	16.2				2.1E-04	6.8E-06	2.2E-04
					Cumulative:	0.0E+00			7.5E-02

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	January 2025
Basis:	November 2024 EPA RSL Table
Site Name:	City of Durham Parks - Northgate Park
Site Address:	300 W. Club Boulevard & 404 W. Lavender Ave, Durham, NC
DEQ Section:	Pre-Regulatory Landfill Group
Site ID:	NONCD0000825
Exposure Unit ID:	SW-6 Risk Assessment
Submittal Date:	9/23/2025
Prepared By:	Jonathan Olanin
Reviewed By:	Jerry Paul

Exposure Point Concentrations **Input Form 2C**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SW-6 Risk Assessment

Surface Water Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

NOTE: If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (ug/L)	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
83	J	7664-41-7	Ammonia			ug/L	SW-6									
42.8		7440-39-3	Barium			ug/L	SW-6									
0.507	J	7440-48-4	Cobalt			ug/L	SW-6									
2.29		7440-50-8	Copper			ug/L	SW-6									
74.4		7439-96-5	Manganese (Non-diet)			ug/L	SW-6									
1.82	J	7440-02-0	Nickel Soluble Salts			ug/L	SW-6									
2.53	J	7440-62-2	Vanadium and Compounds			ug/L	SW-6									
19		7440-66-6	Zinc and Compounds			ug/L	SW-6									

Risk for Individual Pathways **Output Form 1A**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SW-6 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*	0.0E+00	4.4E-02	NO

VAPOR INTRUSION CALCULATORS

Receptor	Pathway	Carcinogenic Risk	Hazard Index	Risk exceeded?
Resident	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	Indoor Air	NC	NC	NC
Non-Residential Worker	Groundwater to Indoor Air	NC	NC	NC
	Soil Gas to Indoor Air	NC	NC	NC
	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 - Direct Contact - Recreator/Trespasser Surface Water **Output Form 2G**

Version Date: January 2025

Basis: November 2024 EPA RSL Table

Site ID: NONCD0000825

Exposure Unit ID: SW-6 Risk Assessment

Receptor Type:

CAS #	Chemical Name:	Ingestion Concentration (ug/L)	Dermal Concentration (ug/L)	Ingestion Carcinogenic Risk	Dermal Contact Carcinogenic Risk	Calculated Carcinogenic Risk	Ingestion Hazard Quotient	Dermal Contact Hazard Quotient	Calculated Non-Carcinogenic Hazard Quotient
7664-41-7	Ammonia	83	83						
7440-39-3	Barium	42.8	42.8				8.4E-04	6.4E-04	1.5E-03
7440-48-4	Cobalt	0.507	0.507				6.7E-03	1.4E-04	6.8E-03
7440-50-8	Copper	2.29	2.29				2.3E-04	1.2E-05	2.4E-04
7439-96-5	Manganese (Non-diet)	74.4	74.4				1.2E-02	1.6E-02	2.8E-02
7440-02-0	Nickel Soluble Salts	1.82	1.82				3.6E-04	9.5E-05	4.5E-04
7440-62-2	Vanadium and Compounds	2.53	2.53				2.0E-03	4.0E-03	6.0E-03
7440-66-6	Zinc and Compounds	19	19				2.5E-04	8.0E-06	2.6E-04
					Cumulative:	0.0E+00			4.4E-02