Remedial Investigation Report
Soil Cover Evaluation
East Durham Park – NONCD0000821
Durham, Durham County, North Carolina
Task Order 821DP-2
S&ME Project No. 23050630

PREPARED FOR:

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

PREPARED BY:

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

March 6, 2024

March 6, 2024

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 via email: Kevin.Kelt@deq.nc.gov
Hydrogeologist

Reference: **Remedial Investigation Report – Soil Cover Evaluation**
East Durham Park – 2601 East Main Street & 300 Gary Street
Durham, Durham County, North Carolina
NCDEQ ID No. NONCD0000821
NCDEQ Task Order 821DP-2
S&ME Project No. 23050630

Dear Mr. Kelt:

S&ME, Inc. (S&ME) is submitting this report to NCDEQ summarizing the results of the Remedial Investigation Activities (soil cover evaluation) conducted at the above-referenced site in Durham, North Carolina. S&ME completed this investigation in general conformance with S&ME Proposals No. 23050630F, dated November 29, 2023, for Task Order 821DP-2 and under the terms of Contract Number N42621-B, dated January 4, 2022, between NCDEQ and S&ME. The attached report includes the results of the following tasks:

- Soil Cover Thickness Evaluation
- Soil Cover Sampling

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

Sincerely,

S&ME, Inc.

Chelsea A. Parra, G.I.T.
Environmental Staff Professional
chelseaparra@smeinc.com

Gerald Paul
Senior Project Manager
jpaul@smeinc.com

Senior Reviewed by: Thomas P. Raymond, P.E., P.M.P.

Attachment: *Remedial Investigation Report – Soil Cover Evaluation*

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Appendices

1.0 Summary of Current Investigation

S&ME completed the scope of services listed below for this investigation in general conformance with S&ME Proposal No. 23050630F, dated November 29, 2023, for Task Order 821DP-2:

- Evaluated thickness of soil cover via soil borings;
- Collected soil cover samples for laboratory analysis; and,
- Prepared this report.

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

2.0 Soil Cover Assessment

2.1 Soil Cover Thickness Evaluation

To assess the soil cover thickness across the investigation area, S&ME field representatives installed 69 soil borings on an approximate 100-foot sample grid (100' x 100', ~10,000 square foot areas). Within each grid node, S&ME collected one grab sample from the center of the grid (grab sample for volatile organic compounds (VOCs)) and offset by 25' in four directions (N, S, E, and W) to collect composite samples for all other analysis listed below (**Section 2.3**). At locations where obstructions (buildings, vehicles, dense vegetation or concrete pads) were encountered, the borings were off-set to collect representative composite samples.

In some coverage areas the sample grids were less than 100' x 100' in size. At these locations, S&ME field personnel attempted to collect one representative sample in the middle of the investigation area and additional composite samples (if possible) from the investigation area.

On December 11-12, 2023, S&ME field representatives advanced 21 composite soil cover borings (821-SB-01 through 821-SB-21). A total of 69 individual soil borings were installed across the investigation area. The composite soil cover boring locations are shown on **Figure 1**. Soil cover borings were installed using a stainless-steel six-inch electric auger, which was decontaminated with liquinox and deionized water between each use. Borings were installed to approximately one foot below ground surface (bgs). Coordinates of the soil cover borings are included in **Appendix I**. Depth of waste and soil classifications for the 21 sample grid borings are located in the boring logs in **Appendix II**.

2.2 Soil Cover Thickness Results

In general, soil cover across the waste disposal areas (WDAs) ranged in thickness from approximately three inches to greater than twelve inches. Shallow waste was encountered in 11 soil composite grids at depths ranging from three inches to six inches bgs. Waste was not encountered in 10 soil composite grids up to the boring termination depth of 12 inches bgs. The soil cover material mostly consists of brown sandy clay and brown clayey sand. Boring logs for all 21 composite sample grids can be found in **Appendix II** and soil cover thickness results are shown on **Figure 2**.

2.3 Soil Cover Sampling

At each boring location, the power auger was used to collect a representative soil sample to an approximate depth of twelve inches bgs. At each location, S&ME utilized a photo-ionization detector (PID) to field screen the soil cover samples for VOCs. S&ME collected a total of 21 composite soil cover samples (plus one quality control duplicate sample and trip blank sample for each day of sampling) and submitted them under standard chain-of-custody protocol to Pace Analytical National Center for Testing and Innovation in Mt. Juliet Tennessee. Samples were analyzed for VOCs by EPA Method 8260D and total lead by EPA Method 6020. Additionally, two samples (approximately 10% of analyzed samples) with the highest reported lead concentrations (SB-6 and SB-7) were analyzed for synthetic precipitation leaching procedure (SPLP) for lead only and toxicity characteristic leaching procedure (TCLP) for lead only, for comparison of leachable lead to the NCAC 2L Groundwater Standard, and the potential of future soil disposal.

2.4 Soil Sampling Results

Field Screened VOCs were measured from 0.0 parts per million (ppm) to 20.4 ppm in the collected samples across the investigation area.

A summary of the laboratory results is included as **Table 1**. TCLP and SPLP laboratory results are included as **Table 2**. The laboratory reports and chain of custody forms are included in **Appendix III**.

The laboratory reported concentrations of lead exceeding the USEPA health-based screening level of 200 milligrams per kilogram (mg/kg) and equivalent to 200 parts per million (ppm) in 8 of the 21 composite samples that were submitted for laboratory analysis. Areas of the site reported to exceed the USEPA health-based screening level for lead are presented on **Figure 3**.

The TCLP results for the samples with the highest reported total lead concentrations were reported below the Maximum Concentration of Contaminants for Toxicity Characteristic levels, indicating that the lead concentrations are present at these locations below hazardous waste levels for TCLP lead. The SPLP results for the samples with the highest reported total lead concentrations exceed the NCAC 2L Standard, indicating the possibility of lead leaching from soil into groundwater.

Additionally, S&ME reviewed X-ray fluorescence (XRF) screening data from investigations conducted by Mid-Atlantic Associates Inc. (Mid-Atlantic) in July 2023, and by Enikoe Bihari (Duke University) from

September 2021 to May 2022. Laboratory analytical data from soil samples collected by Mid-Atlantic in July 2023 were also used. These data were utilized to create **Figures 4A, 4B, and 4C** to represent possible lead contamination at East Durham Park. **Figure 4C** combines the data from the referenced sampling events to present all the exceedances of the USEPA health-based screening level of 200 mg/kg for lead. **Figure 5** combines the historical exceedances of the USEPA health-based screening level of 200 mg/kg for lead and the sample grids that were shown to have an insufficient soil cover thickness per the NCDEQ Pre-Regulatory Landfill Guidelines.

2.5 Risk Calculator

NCDEQ's Risk Calculator was used to evaluate environmental exposure risks of detected VOCs only and exposure pathways associated with the Landfill Cover Soil Samples. S&ME used the February 2024 version of NCDEQ's Risk Calculator, downloaded from the NCDEQ website.

The highest concentration of each detected VOC was input into the NCDEQ Risk Calculator. The risk calculator uses the analytical results and generates a Carcinogenic Risk and Hazard Index value. The outputs from the Risk Calculator provided the following:

- The Carcinogenic Risk and the Hazard Index were not exceeded for resident, non-residential worker, construction worker, and recreator/trespasser receptors.

Currently there is no USEPA reference dose or cancer potency factor to quantify risks associated with exposures to lead. Exposure risks to lead are characterized based on predicted blood lead levels. The USEPA's health-based screening levels for lead in soil are as follows:

- Lead Compounds, residential soil exposure: The screening value for direct residential contact is 200 mg/kg. Reported laboratory concentrations of lead exceeding the USEPA health-based screening levels were reported in 8 of the 21 sample grids (S&ME 2023 Data only). Historically reported concentrations of lead at concentrations greater than the USEPA health-based screening levels were reported in 12 of the 21 sample grids (S&ME – 2023, Mid-Atlantic – 2023 and Duke University - 2022).

The Risk Calculator Summary Outputs are in **Appendix IV**.

3.0 Quality Control

Quality control samples were collected and analyzed as follows:

<u>Soil Sample Duplicates</u>

- One duplicate sample was collected during sampling. The duplicate sample was taken at 821-SB-01 and analyzed for the same parameters as the record sample. Analytical results of the duplicate samples agreed well with the record samples.

Trip Blank

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

The laboratory conducted USEPA quality assurance and quality control procedures and reporting as required for laboratory analysis according to USEPA Level II Protocols. Reported laboratory analytical data met data quality objectives.

4.0 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. 23050630F, dated November 17, 2023, for Task Order 821DP-2 as authorized by NCDEQ.

5.0 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

March 6, 2024

Signature of Environmental Consultant Date

I, Gail L. Kluever, 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 personally known 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 6th day of March, 2024.

(OFFICIAL SEAL)

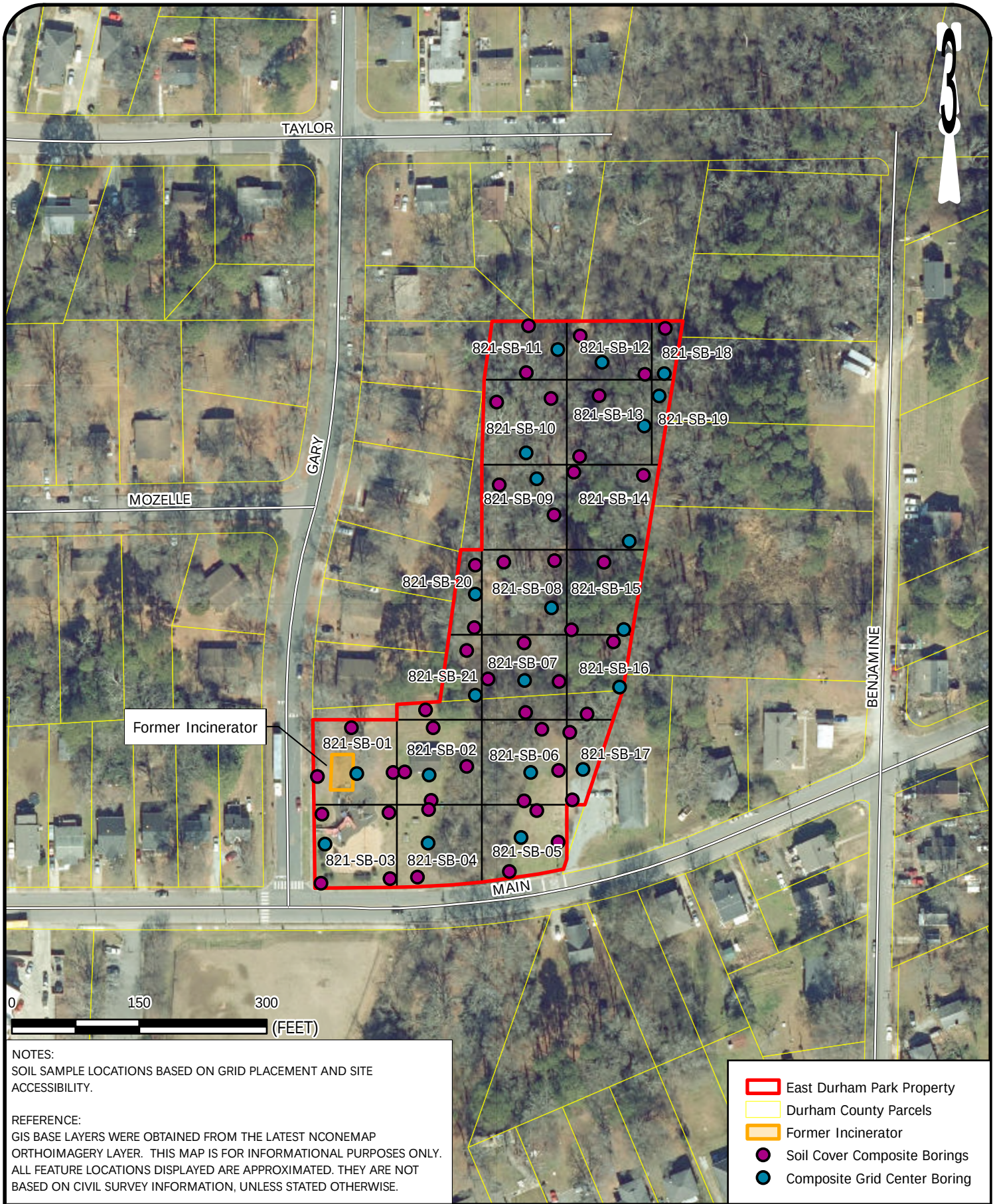
Gail L. Kluever

Notary Public (signature)

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

My commission expires: 7/26/2026

Figures



NOTES:
SOIL SAMPLE LOCATIONS BASED ON GRID PLACEMENT AND SITE ACCESSIBILITY.

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE LATEST NCONEMAP ORTHOIMAGERY 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.

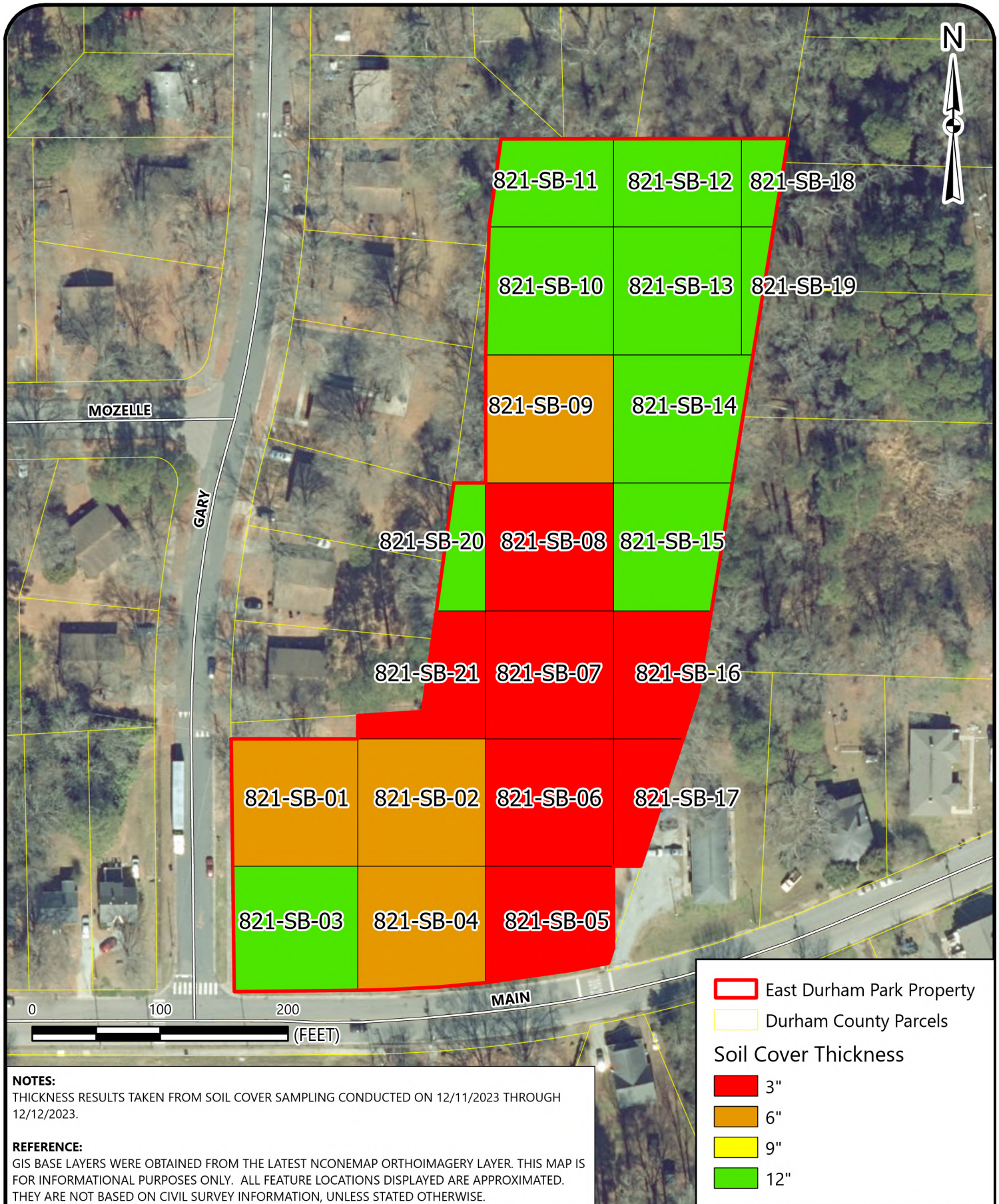
- East Durham Park Property
- Durham County Parcels
- Former Incinerator
- Soil Cover Composite Borings
- Composite Grid Center Boring

SITE MAP WITH SOIL COVER BORING LOCATIONS

EAST DURHAM PARK
NCDEQ ID NO. NONCD0000821, TASK ORDER 821DP-2
2601 E. MAIN STREET & 300 GARY STREET
DURHAM, NORTH CAROLINA

SCALE: 1 in = 150 ft
DATE: 2/28/2024
PROJECT NUMBER 23050630
FIGURE NO. 1

Drawing Path: T:\Raleigh-1050\Projects\2023\23050630_NCDEQ LF_City of Durham Parks (PRLF)_Durham NC\ENV\GIS\East Durham Park\East Durham Park.aprx Plotted by: ChelseaParra



NOTES:
THICKNESS RESULTS TAKEN FROM SOIL COVER SAMPLING CONDUCTED ON 12/11/2023 THROUGH 12/12/2023.

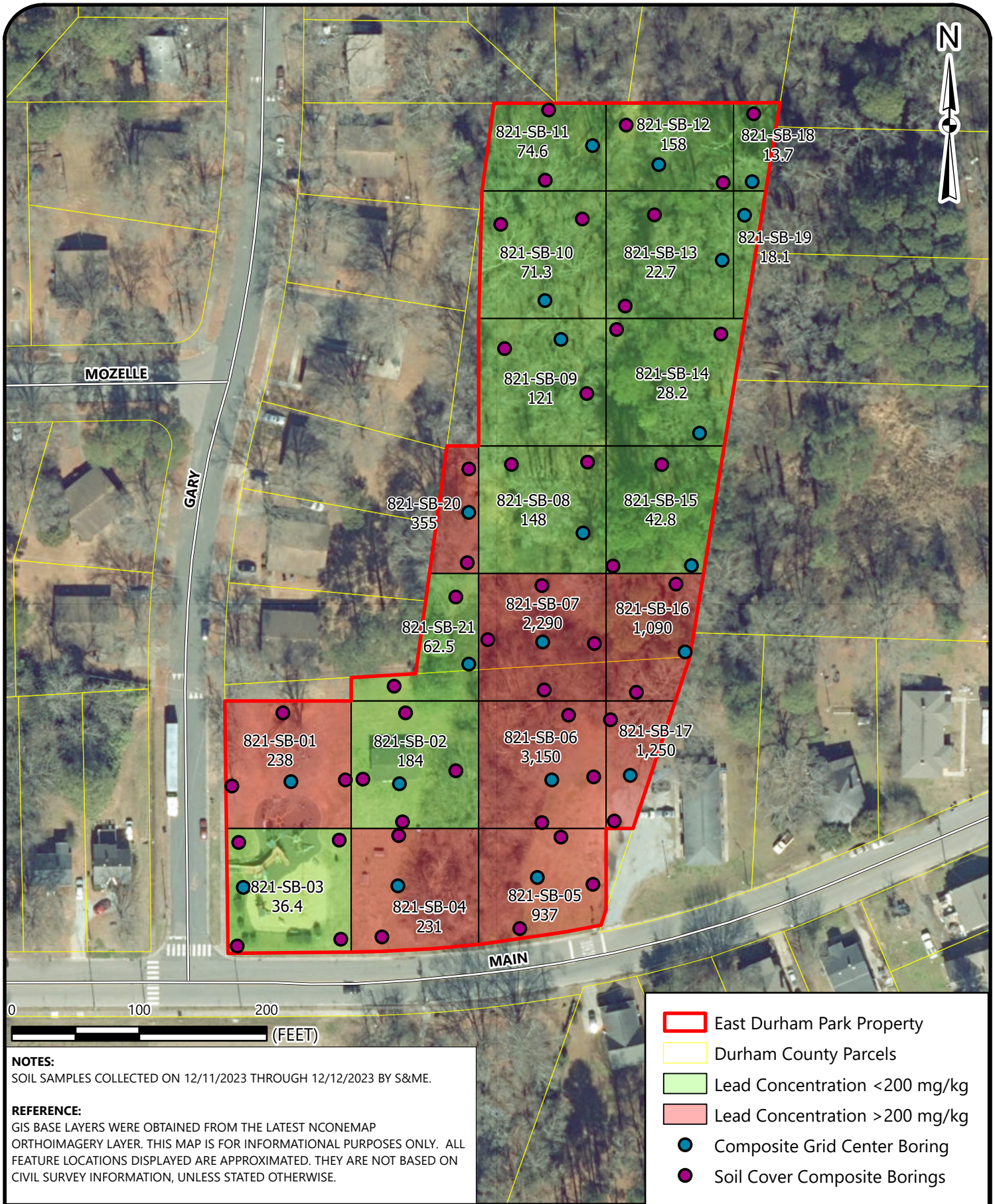
REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE LATEST NCONEMAP ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

SOIL COVER THICKNESS RESULTS

EAST DURHAM PARK
NCDEQ ID NO. NONCD0000821, TASK ORDER 821DP-2
2601 E. MAIN STREET & 300 GARY STREET
DURHAM, NORTH CAROLINA

SCALE: 1 in = 100 ft
DATE: 2/21/2024
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\East Durham Park\East Durham Park.aprx Plotted by: ChelseaParra



NOTES:
SOIL SAMPLES COLLECTED ON 12/11/2023 THROUGH 12/12/2023 BY S&ME.

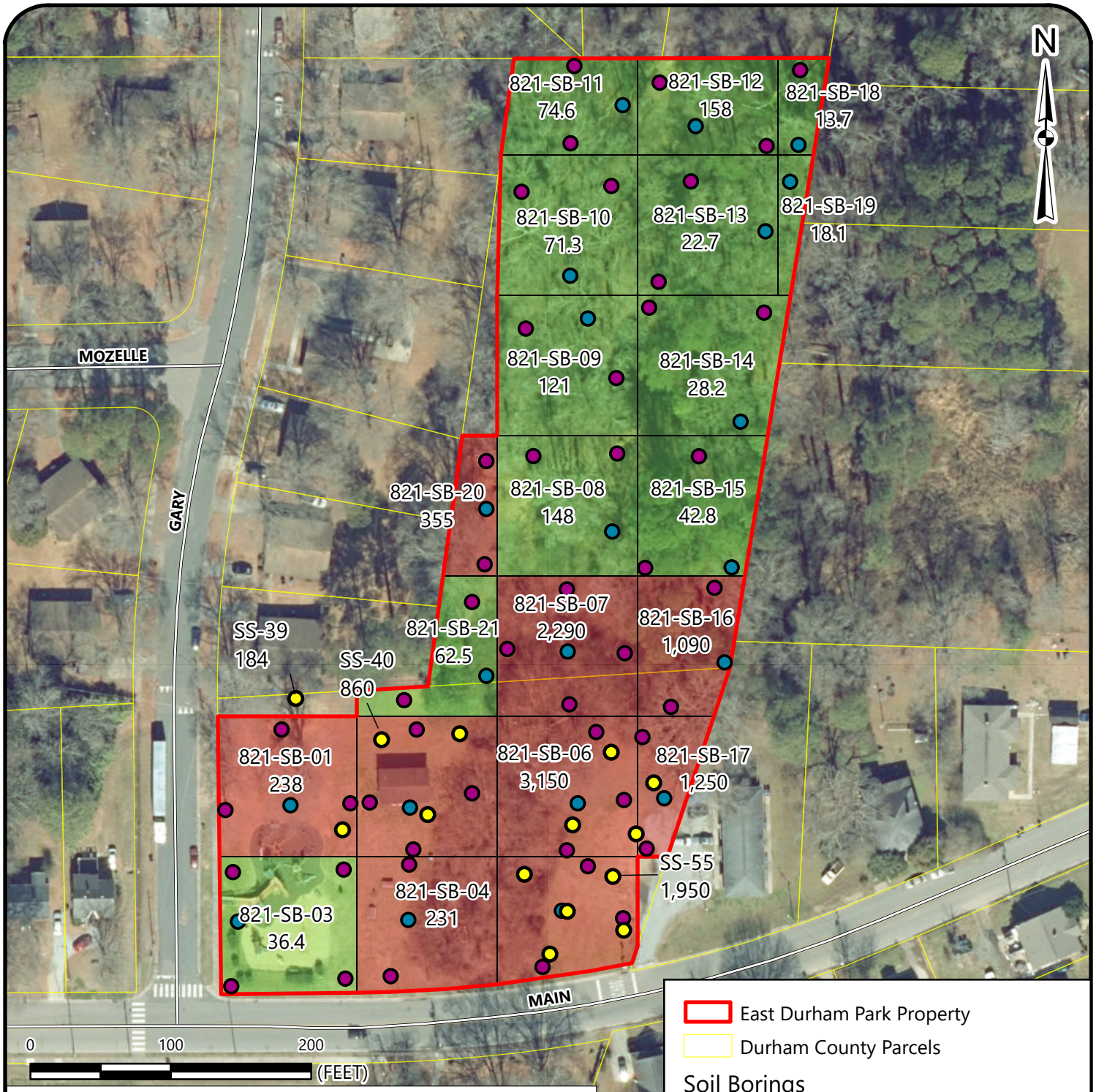
REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE LATEST NCONEMAP ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

LEAD CONCENTRATIONS MAP - S&ME DATA

EAST DURHAM PARK
NCDEQ ID NO. NONCD0000821, TASK ORDER 821DP-2
2601 E. MAIN STREET & 300 GARY STREET
DURHAM, NORTH CAROLINA

SCALE: 1 in = 100 ft
DATE: 2/23/2024
PROJECT NUMBER 23050630
FIGURE NO. 3

Drawing Path: T:\Raleigh-1050\Projects\2023\23050630_NCDEQ LF_City of Durham Parks (PRLF)_Durham NC\ENV\GIS\East Durham Park\East Durham Park.aprx Plotted by: ChelseaParra



East Durham Park Property

Durham County Parcels

Soil Borings

- Composite Grid Center Boring (S&ME)
- Soil Cover Composite Borings (S&ME)
- Soil Boring (Mid-Atlantic)

Lead Concentration

- Lead Concentration <200 mg/kg
- Lead Concentration >200 mg/kg

NOTES:
SOIL SAMPLES COLLECTED ON 12/11/2023 THROUGH 12/12/2023 BY S&ME. MID-ATLANTIC ASSOCIATES INC. (MID-ATLANTIC) SOIL BORINGS ARE REFERENCED FROM "SOIL ASSESSMENT REPORT - CITY OF DURHAM PARKS" DATED AUGUST 18, 2023, SEE REPORT FOR DETAILS. LEAD CONCENTRATIONS ARE REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg). HIGHEST LEAD CONCENTRATION FROM EACH DATASET (S&ME AND MID-ATLANTIC) ARE PRESENTED.

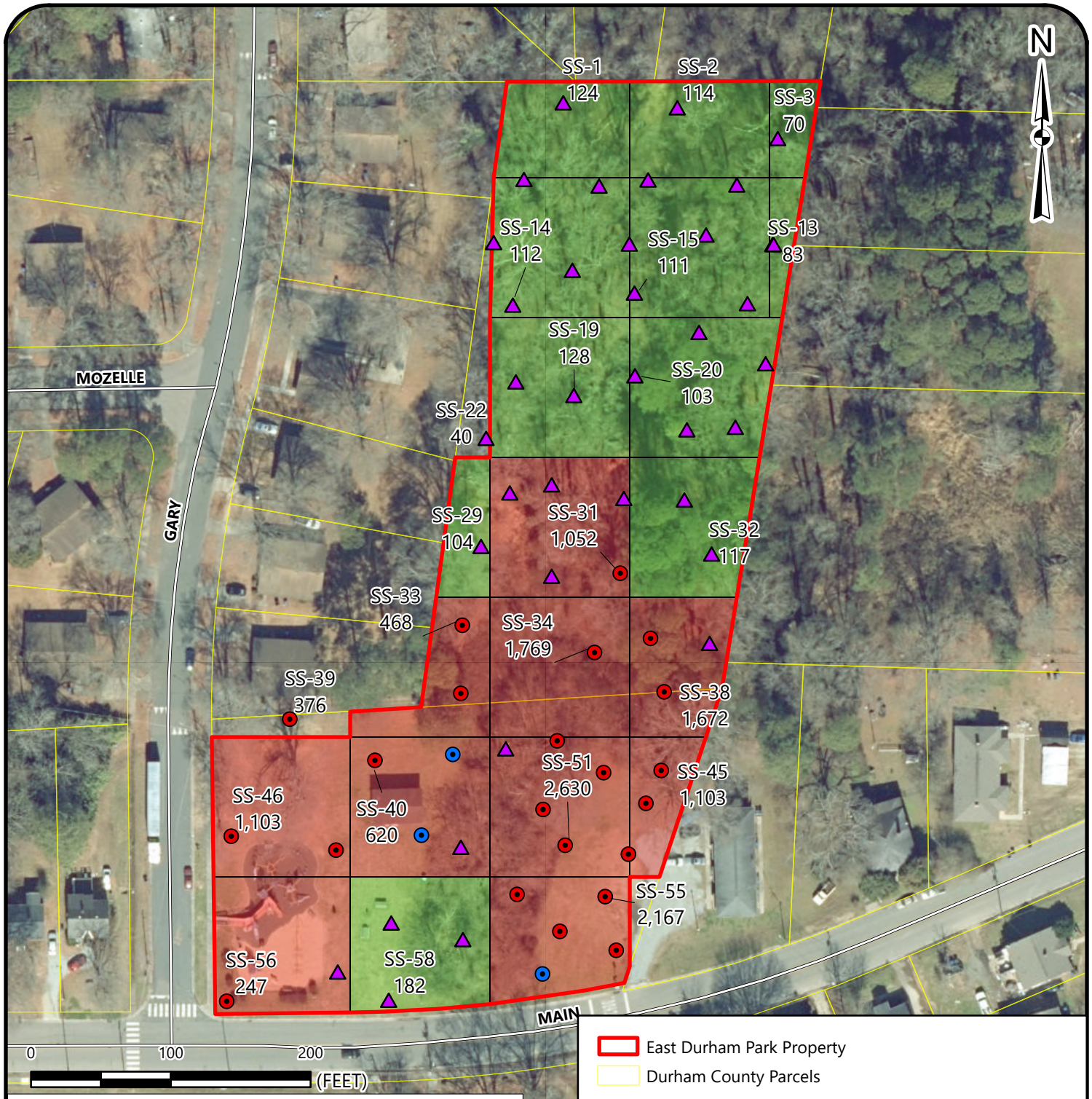
REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE LATEST NCONEMAP ORTHOIMAGERY LAYER. THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. ALL FEATURE LOCATIONS DISPLAYED ARE APPROXIMATED. THEY ARE NOT BASED ON CIVIL SURVEY INFORMATION, UNLESS STATED OTHERWISE.

HISTORICAL INVESTIGATION MAP - LEAD CONCENTRATIONS S&ME AND MID-ATLANTIC DATA

EAST DURHAM PARK
NCDEQ ID NO. NONCD0000821, TASK ORDER 821DP-2
2601 E. MAIN STREET & 300 GARY STREET
DURHAM, NORTH CAROLINA

SCALE:	FIGURE NO.
1 in = 100 ft	4A
DATE: 2/23/2024	
PROJECT NUMBER 23050630	

Drawing Path: T:\Raleigh-1050\Projects\2023\23050630_NCDEQ LF_City of Durham Parks (PRLF)_Durham NC\ENV\GIS\East Durham Park\East Durham Park.aprx Plotted by: ChelseaParra



East Durham Park Property

Durham County Parcels

XRF Screening Locations

- Screening Location (Duke, 2022)
- Screening Location (Duke, 2022 and Mid-Atlantic, 2023)
- Screening Location >200mg/kg

Lead Concentration

- Lead Concentration <200 mg/kg
- Lead Concentration >200 mg/kg

NOTES:
XRF SCREENING WAS CONDUCTED BY MID-ATLANTIC ASSOCIATES INC. (MID-ATLANTIC) IN JULY 2023 AND BY ENIKOE BIHARI (DUKE) IN DECEMBER 2022. LEAD CONCENTRATIONS ARE REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg). HIGHEST XRF SCREENING VALUE FROM WITHIN EACH GRID ARE PRESENTED.

REFERENCE:
GIS BASE LAYERS WERE OBTAINED FROM THE LATEST NCONEMAP ORTHOIMAGERY 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.

HISTORICAL INVESTIGATION MAP - LEAD CONCENTRATIONS DUKE AND MID-ATLANTIC XRF SCREENING DATA ONLY

EAST DURHAM PARK
NCDEQ ID NO. NONCD0000821, TASK ORDER 821DP-2
2601 E. MAIN STREET & 300 GARY STREET
DURHAM, NORTH CAROLINA

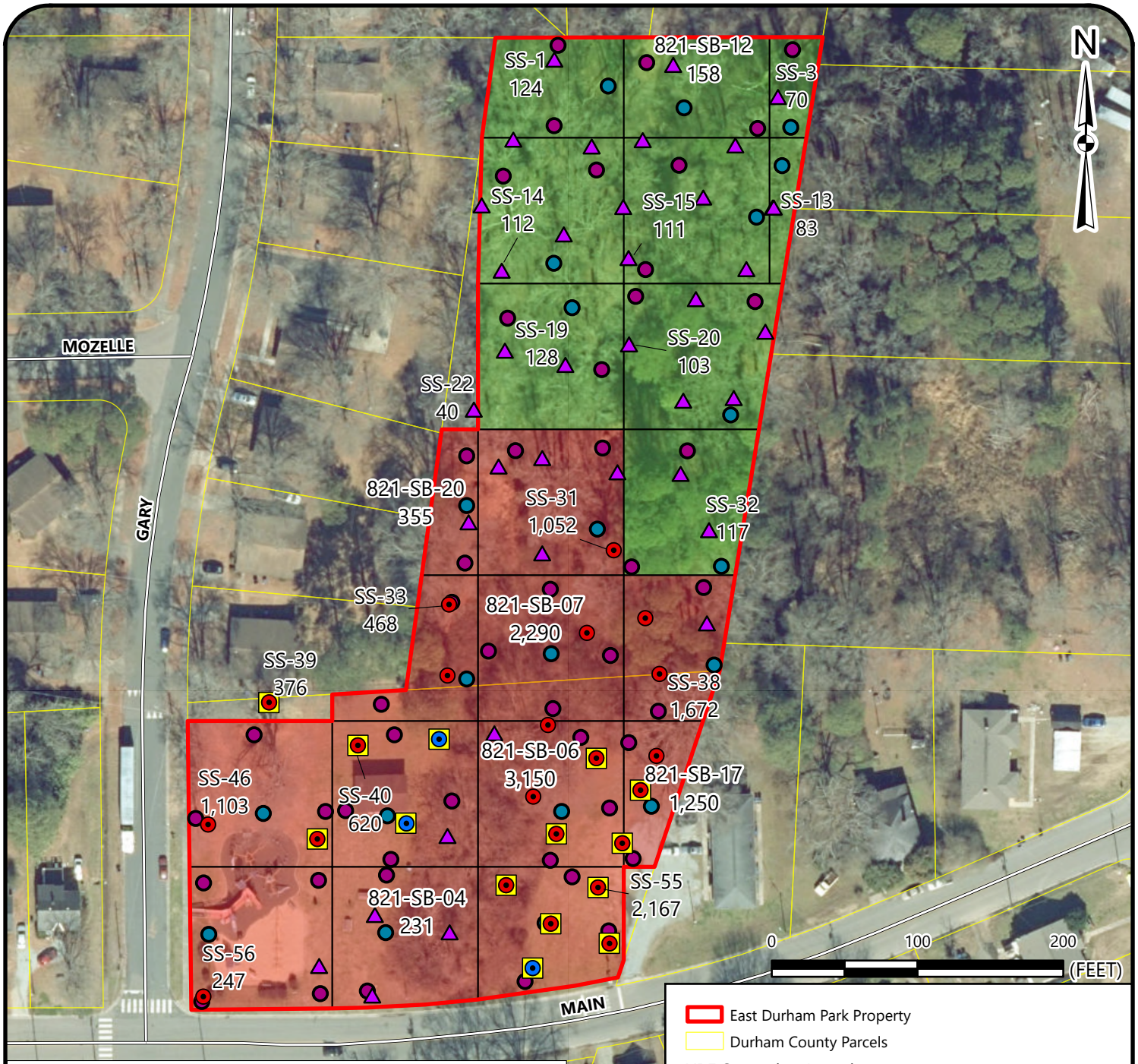
SCALE: 1 in = 100 ft

DATE: 2/23/2024

PROJECT NUMBER 23050630

FIGURE NO. 4B

Drawing Path: T:\Raleigh-1050\Projects\2023\23050630_NCDEQ LF_City of Durham Parks (PRLF)_Durham NC\ENV\GIS\East Durham Park\East Durham Park.aprx Plotted by: ChelseaParra



East Durham Park Property

Durham County Parcels

XRF Screening Locations

- Screening Location (Duke, 2022)
- Screening Location (Duke, 2022 and Mid-Atlantic, 2023)
- Screening Location >200mg/kg

Soil Borings

- Composite Grid Center Boring (S&ME)
- Soil Cover Composite Borings (S&ME)
- Soil Sample (Mid-Atlantic)

Lead Concentration

- Lead Concentration <200 mg/kg
- Lead Concentration >200 mg/kg

NOTES:
SOIL SAMPLES COLLECTED ON 12/11/2023 THROUGH 12/12/2023 BY S&ME. MID-ATLANTIC ASSOCIATES INC. (MID-ATLANTIC) SOIL BORINGS ARE REFERENCED FROM "SOIL ASSESSMENT REPORT - CITY OF DURHAM PARKS" DATED AUGUST 18, 2023, SEE REPORT FOR DETAILS. XRF SCREENING WAS CONDUCTED BY MID-ATLANTIC IN JULY 2023 AND BY ENIKOE BIHARI (DUKE) IN DECEMBER 2022. LEAD CONCENTRATIONS ARE REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg). HIGHEST LEAD CONCENTRATION FROM EACH DATASET (S&ME, MID-ATLANTIC, AND DUKE) ARE PRESENTED.

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HISTORICAL INVESTIGATIONS MAP - LEAD CONCENTRATIONS
ALL DATA - S&ME (LAB), MID-ATLANTIC (LAB AND XRF), DUKE (XRF)

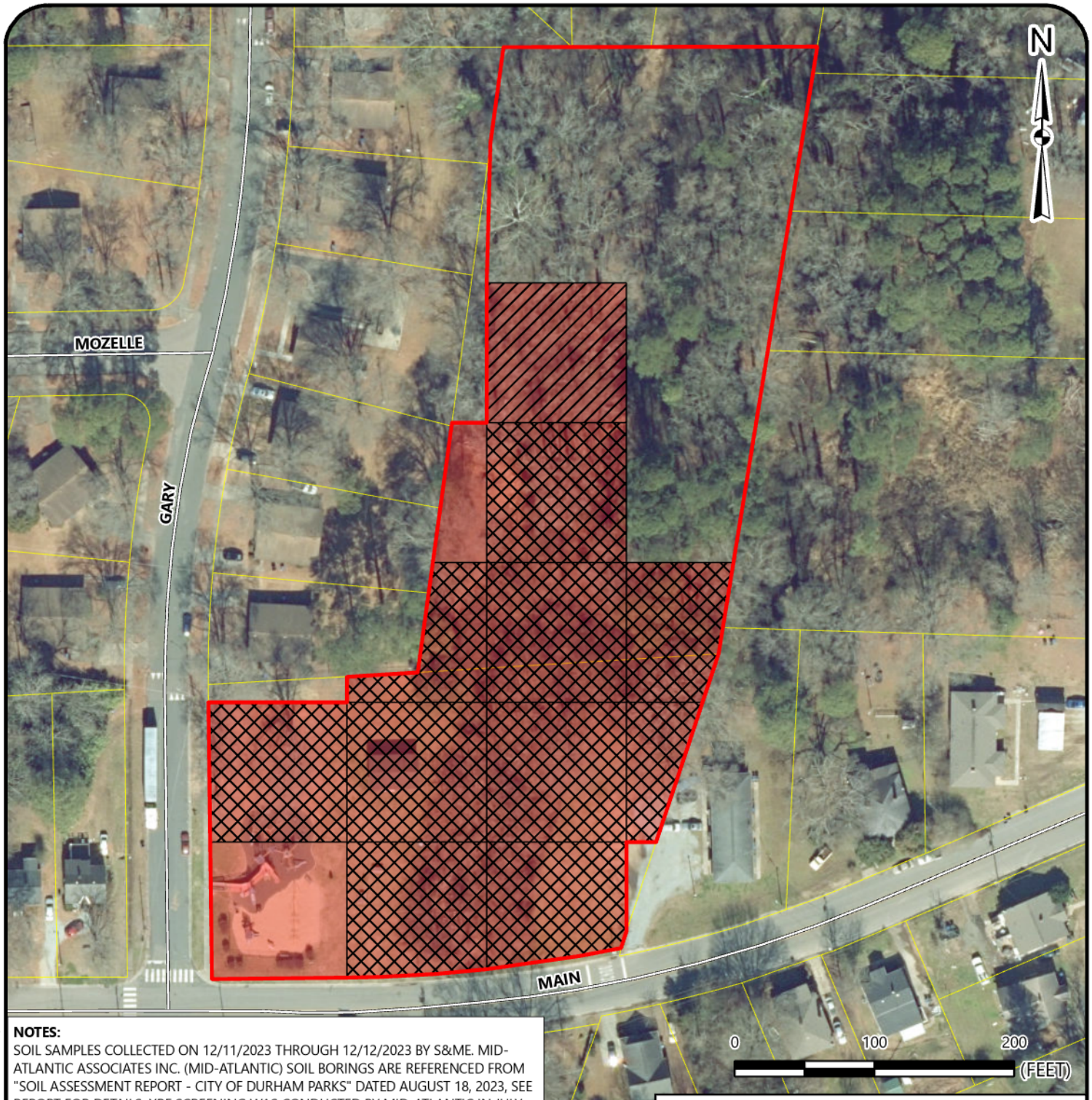
EAST DURHAM PARK
NCDEQ ID NO. NONCD0000821, TASK ORDER 821DP-2
2601 E. MAIN STREET & 300 GARY STREET
DURHAM, NORTH CAROLINA

SCALE: 1 in = 100 ft

DATE: 2/23/2024

PROJECT NUMBER 23050630

FIGURE NO. 4C



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COMBINED QUALITY AND THICKNESS MAP

EAST DURHAM PARK
NCDEQ ID NO. NONCD0000821, TASK ORDER 821DP-2
2601 E. MAIN STREET & 300 GARY STREET
DURHAM, NORTH CAROLINA

SCALE: 1 in = 100 ft
DATE: 3/6/2024
PROJECT NUMBER 23050630
FIGURE NO. 5

Tables

TABLE 1
Soil Sample Analytical Results Summary
City of Durham Parks PRLF
S&ME Project No. 23050630
821-East Durham Park

Analytical Method →		Volatile Organic Compounds by EPA Method 8260D (mg/kg)					Metals by EPA Method 6020B (mg/kg)
Analyte →		Benzene	P-Isopropyltoluene	Naphthalene	Toluene	Total Xylenes	Lead
Sample ID	Date Collected						
821-SB-01	12/11/2023	<0.00151	<0.00756	**0.0215 C3**	<0.00756	<0.00983	**238**
821-SB-02	12/11/2023	**0.00178**	<0.00762	**0.0229 C3**	**0.0139**	**0.0171**	**184**
821-SB-03	12/11/2023	<0.00170	<0.00850	<0.0213 C3	<0.00850	<0.0111	**36.4**
821-SB-04	12/11/2023	<0.00133	<0.00666	<0.0166 C3	<0.00666	<0.00866	**231**
821-SB-05	12/11/2023	<0.00151	<0.00757	**0.0194 C3**	<0.00757	<0.00984	**937**
821-SB-06	12/11/2023	<0.00188	<0.00942	**0.0244 C3**	<0.00942	**0.0138**	**3,150**
821-SB-07	12/11/2023	**0.00192**	**0.0125**	<0.0241	**0.0178**	<0.0125	**2,290**
821-SB-08	12/11/2023	<0.00155	<0.00775	<0.0194	<0.00775	<0.0101	**148**
821-SB-09	12/11/2023	**0.00265**	<0.00843	<0.0211 C3 J4	**0.0148**	**0.0177**	**121**
821-SB-10	12/11/2023	**0.00168**	**0.0115**	<0.0174 C3 J4	**0.0119**	**0.0163**	**71.3**
821-SB-11	12/11/2023	<0.00144	<0.00720	<0.0180 C3 J4	<0.00720	<0.00936	**74.6**
821-SB-12	12/11/2023	**0.00208**	<0.00743	<0.0186 C3 J4	**0.0196**	**0.015**	**158**
821-SB-13	12/11/2023	<0.00147	<0.00734	<0.0184 C3 J4	**0.00896**	**0.0146**	**22.7**
821-SB-14	12/11/2023	<0.00193	**0.0129**	<0.0242 C3 J4	<0.00967	<0.0126	**28.2**
821-SB-15	12/11/2023	<0.00143	**0.0076**	<0.0179 C3 J4	<0.00717	<0.00931	**42.8**
821-SB-16	12/12/2023	<0.00282	<0.0141	<0.0353	<0.0141	<0.0183	**1,090**
821-SB-17	12/12/2023	<0.00150	<0.00748	<0.0187	<0.00748	<0.00973	**1,250**
821-SB-18	12/12/2023	<0.00128	<0.00639	<0.0160	<0.00639	<0.00831	**13.7**
821-SB-19	12/12/2023	<0.00137	<0.00684	<0.0171	<0.00684	<0.00890	**18.1**
821-SB-20	12/12/2023	<0.00140	<0.00700	<0.0176	<0.00700	<0.00910	**355**
821-SB-21	12/12/2023	<0.00124	<0.00620	<0.0155	**0.00686**	**0.0117**	**62.5**
DUP-SB (SB-1)	12/11/2023	<0.00158	<0.0197	<0.00791	<0.00791	<0.0103	**153**

Notes:
mg/kg - milligrams per kilogram.
C3: Laboratory Qualifier: The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J4: Laboratory Qualifier: The associated batch QC was outside the established quality control range for accuracy.
Concentrations shown in **BOLD** exceed the laboratory detection limits.
Concentrations of Lead that exceed the USEPA Health-Based Screening Level of 200 mg/kg are **highlighted yellow.**

TABLE 2
Soil Sample Analytical Results Summary - TCLP/SPLP Results
City of Durham Parks PRLF
S&ME Project No. 23050630
821-East Durham Park

Analytical Method →		TCLP Lead (mg/L)	SPLP Lead (µg/L)
Analyte →			
Sample ID	Date Collected		
SB-6	12/11/2023	**0.774**	**258 V**
SB-7	12/11/2023	**0.375**	**117**
Maximum Concentration of Contaminant for Toxicity Characteristic		**5**	**-**
2L Groundwater Standard		**-**	**15**

Notes:

mg/l: milligrams per liter

V: The sample concentration is too high to evaluate accurate spike recoveries.

TCLP: Toxic Characteristic Leaching Procedure

SPLP: Synthetic Precipitation Leaching Procedure

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

Concentrations that exceed the NCAC 2L Groundwater Standard are **highlighted yellow.**

Appendices

Appendix I – Coordinates of Selected Features

APPENDIX I
Coordinates of Selected Features
East Durham Park, NONCD0000821
Durham, Durham County, North Carolina
S&ME Project No.: 23050230, Task Order 821DP-2

Site Feature	Type	Location			
		Latitude	Longitude	Northing	Easting
821-SB-01-1	Soil Cover Boring	35.98656	-78.87079	3984552.81900	691932.83000
821-SB-01-2	Soil Cover Boring	35.98655	-78.87095	3984554.83400	691959.94300
821-SB-01-3	Soil Cover Boring	35.98656	-78.87065	3984570.55800	691944.67600
821-SB-01-4	Soil Cover Boring	35.98671	-78.87081	3984554.15700	691946.93700
821-SB-02-1	Soil Cover Boring	35.98657	-78.87060	3984555.10200	691964.12900
821-SB-02-2	Soil Cover Boring	35.98656	-78.87050	3984554.18900	691972.89500
821-SB-02-3	Soil Cover Boring	35.98647	-78.87049	3984545.09600	691973.81100
821-SB-02-4	Soil Cover Boring	35.98671	-78.87049	3984571.16000	691974.00500
821-SB-02-5	Soil Cover Boring	35.98658	-78.87035	3984557.56200	691986.31200
821-SB-03-1	Soil Cover Boring	35.98644	-78.87066	3984540.41300	691958.78100
821-SB-03-2	Soil Cover Boring	35.98643	-78.87093	3984539.37200	691934.74600
821-SB-03-3	Soil Cover Boring	35.98633	-78.87092	3984528.64700	691936.06000
821-SB-03-4	Soil Cover Boring	35.98621	-78.87093	3984514.59100	691934.89100
821-SB-03-5	Soil Cover Boring	35.98622	-78.87066	3984516.73800	691959.63200
821-SB-04-1	Soil Cover Boring	35.98644	-78.87050	3984541.79700	691972.96700
821-SB-04-2	Soil Cover Boring	35.98634	-78.87051	3984529.77100	691973.03300
821-SB-04-3	Soil Cover Boring	35.98623	-78.87055	3984517.48700	691969.45700
821-SB-05-1	Soil Cover Boring	35.98624	-78.87018	3984520.16900	692002.38800
821-SB-05-2	Soil Cover Boring	35.98635	-78.87014	3984532.46000	692006.32700
821-SB-05-3	Soil Cover Boring	35.98644	-78.87007	3984542.23000	692011.77600
821-SB-05-4	Soil Cover Boring	35.98634	-78.86999	3984531.09400	692019.65900
821-SB-06-1	Soil Cover Boring	35.98656	-78.87010	3984555.84800	692009.30900
821-SB-06-2	Soil Cover Boring	35.98647	-78.87013	3984545.59800	692007.15100
821-SB-06-3	Soil Cover Boring	35.98670	-78.87005	3984571.41500	692012.99900
821-SB-06-4	Soil Cover Boring	35.98657	-78.86999	3984556.78300	692019.31300

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 I
Coordinates of Selected Features
East Durham Park, NONCD0000821
Durham, Durham County, North Carolina
S&ME Project No.: 23050230, Task Order 821DP-2

Site Feature	Type	Location			
		Latitude	Longitude	Northing	Easting
821-SB-07-1	Soil Cover Boring	35.98686	-78.87012	3984588.77500	692006.44600
821-SB-07-2	Soil Cover Boring	35.98686	-78.86999	3984588.66500	692018.84100
821-SB-07-3	Soil Cover Boring	35.98687	-78.87027	3984589.05200	691993.31900
821-SB-07-4	Soil Cover Boring	35.98698	-78.87012	3984602.25100	692005.98700
821-SB-07-5	Soil Cover Boring	35.98676	-78.87012	3984577.30600	692007.04600
821-SB-08-1	Soil Cover Boring	35.98724	-78.87020	3984631.06600	691998.10500
821-SB-08-2	Soil Cover Boring	35.98725	-78.87000	3984631.98700	692016.31000
821-SB-08-3	Soil Cover Boring	35.98710	-78.87001	3984615.02200	692015.56600
821-SB-09-1	Soil Cover Boring	35.98749	-78.87022	3984658.72200	691995.89700
821-SB-09-2	Soil Cover Boring	35.98751	-78.87007	3984661.18400	692009.33300
821-SB-09-3	Soil Cover Boring	35.98740	-78.87000	3984648.37800	692015.79100
821-SB-10-1	Soil Cover Boring	35.98760	-78.87012	3984670.39600	692005.31600
821-SB-10-2	Soil Cover Boring	35.98777	-78.87002	3984690.07200	692013.84200
821-SB-10-3	Soil Cover Boring	35.98776	-78.87023	3984688.39500	691994.37700
821-SB-11-1	Soil Cover Boring	35.98793	-78.86999	3984707.66800	692015.92900
821-SB-11-2	Soil Cover Boring	35.98801	-78.87010	3984715.96300	692005.26200
821-SB-11-3	Soil Cover Boring	35.98786	-78.87011	3984699.15800	692004.79100
821-SB-12-1	Soil Cover Boring	35.98797	-78.86990	3984712.73000	692023.87400
821-SB-12-2	Soil Cover Boring	35.98789	-78.86981	3984703.44600	692031.87800
821-SB-12-3	Soil Cover Boring	35.98785	-78.86964	3984699.44900	692047.35600
821-SB-13-1	Soil Cover Boring	35.98778	-78.86982	3984691.41700	692031.07600
821-SB-13-2	Soil Cover Boring	35.98759	-78.86990	3984669.47200	692024.52900
821-SB-13-3	Soil Cover Boring	35.98768	-78.86964	3984680.90700	692047.50400
821-SB-14-1	Soil Cover Boring	35.98752	-78.86965	3984663.24600	692047.56100
821-SB-14-2	Soil Cover Boring	35.98731	-78.86971	3984639.46000	692042.94700
821-SB-14-3	Soil Cover Boring	35.98753	-78.86993	3984663.82600	692022.58200

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 I
Coordinates of Selected Features
East Durham Park, NONCD0000821
Durham, Durham County, North Carolina
S&ME Project No.: 23050230, Task Order 821DP-2

Site Feature	Type	Location			
		Latitude	Longitude	Northing	Easting
821-SB-15-1	Soil Cover Boring	35.98702	-78.86994	3984607.27100	692022.89100
821-SB-15-2	Soil Cover Boring	35.98703	-78.86973	3984607.77300	692041.65800
821-SB-15-3	Soil Cover Boring	35.98724	-78.86981	3984631.76100	692034.05100
821-SB-16-1	Soil Cover Boring	35.98675	-78.86987	3984577.21300	692029.10000
821-SB-16-2	Soil Cover Boring	35.98699	-78.86977	3984603.27500	692038.04000
821-SB-16-3	Soil Cover Boring	35.98684	-78.86974	3984587.10700	692040.56000
821-SB-17-1	Soil Cover Boring	35.98669	-78.86994	3984570.52700	692023.04100
821-SB-17-2	Soil Cover Boring	35.98657	-78.86989	3984557.32700	692028.05000
821-SB-17-3	Soil Cover Boring	35.98648	-78.86993	3984546.31800	692024.44900
821-SB-18-1	Soil Cover Boring	35.98800	-78.86956	3984716.05200	692054.31200
821-SB-18-2	Soil Cover Boring	35.98785	-78.86957	3984699.83200	692054.28100
821-SB-19-1	Soil Cover Boring	35.98778	-78.86959	3984691.77900	692052.62400
821-SB-20-1	Soil Cover Boring	35.98723	-78.87032	3984629.76300	691987.92600
821-SB-20-2	Soil Cover Boring	35.98714	-78.87032	3984619.38000	691988.14000
821-SB-20-3	Soil Cover Boring	35.98703	-78.87032	3984607.34900	691988.02300
821-SB-21-1	Soil Cover Boring	35.98696	-78.87035	3984599.09700	691985.45800
821-SB-21-2	Soil Cover Boring	35.98681	-78.87032	3984583.12900	691988.88500
821-SB-21-3	Soil Cover Boring	35.98677	-78.87052	3984577.48000	691971.14100

Notes:

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

Appendix II – Field Notes / Boring Logs

BORING LOG

Project Name: East Durham Park
Job No. 23050630

Boring Number: 821-SB-01
Sampling Personnel: Chelsea Parra
Date Drilled: 12/11/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown clayey sand, moist, glass and porcelain waste at 5-in	0.0	821-SB-01	0 - 12
		Boring terminated at 12 in. bgs.		DUP-SB collected here	

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 821-SB-02
Sampling Personnel: Chelsea Parra
Date Drilled: 12/11/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown clayey sand, moist, glass and porcelain waste at 5-in	0.0	821-SB-02	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 821-SB-03
Sampling Personnel: Chelsea Parra
Date Drilled: 12/11/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown sandy clay, moist	0.0	821-SB-03	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

BORING LOG

Project Name: East Durham Park
Job No. 23050630

Boring Number: 821-SB-04
Sampling Personnel: Chelsea Parra
Date Drilled: 12/11/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown clayey sand, moist, glass and porcelain waste at 6-in	0.0	821-SB-04	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:

1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 821-SB-05
Sampling Personnel: Chelsea Parra
Date Drilled: 12/11/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	dark brown clayey sand, moist, glass waste at 3-in	0.0	821-SB-05	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:

1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 821-SB-06
Sampling Personnel: Chelsea Parra
Date Drilled: 12/11/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	dark brown clayey sand, moist, glass waste at 3-in	0.0	821-SB-06	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:

1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

BORING LOG

Project Name: East Durham Park
Job No. 23050630

Boring Number: 821-SB-07
Sampling Personnel: Chelsea Parra
Date Drilled: 12/11/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	dark brown clayey sand, moist, glass waste at 3-in	2.9	821-SB-07	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:

1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 821-SB-08
Sampling Personnel: Chelsea Parra
Date Drilled: 12/11/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	dark brown clayey sand, moist, glass waste at 3-in	1.4	821-SB-08	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:

1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 821-SB-09
Sampling Personnel: Chelsea Parra
Date Drilled: 12/11/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	dark brown clayey sand, moist	4.9	821-SB-09	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:

1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

BORING LOG

Project Name: East Durham Park
Job No. 23050630

Boring Number: 821-SB-10
Sampling Personnel: Chelsea Parra
Date Drilled: 12/11/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown clayey sand, moist	0.2	821-SB-10	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:

1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 821-SB-11
Sampling Personnel: Chelsea Parra
Date Drilled: 12/11/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	dark brown clayey sand, moist	0.5	821-SB-11	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:

1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 821-SB-12
Sampling Personnel: Chelsea Parra
Date Drilled: 12/11/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	dark brown clayey sand, moist	0.4	821-SB-12	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:

1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

BORING LOG

Project Name: East Durham Park
Job No. 23050630

Boring Number: 821-SB-13
Sampling Personnel: Chelsea Parra
Date Drilled: 12/11/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	dark brown clayey sand, moist	11.2	821-SB-13	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:

1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 821-SB-14
Sampling Personnel: Chelsea Parra
Date Drilled: 12/11/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	dark brown clayey sand, moist	9.9	821-SB-14	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:

1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 821-SB-15
Sampling Personnel: Chelsea Parra
Date Drilled: 12/11/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown clayey sand, moist	1.3	821-SB-15	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:

1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

BORING LOG

Project Name: East Durham Park
Job No. 23050630

Boring Number: 821-SB-16
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	dark brown clayey sand, moist, glass waste at 4-in	0.0	821-SB-16	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:

1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 821-SB-17
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	dark brown clayey sand, moist, glass waste at 4-in	0.2	821-SB-17	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:

1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 821-SB-18
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	brown clayey sand, moist	20.4	821-SB-18	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:

1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

BORING LOG

Project Name: East Durham Park
Job No. 23050630

Boring Number: 821-SB-19
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	light brown clayey sand, moist	3.0	821-SB-19	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 821-SB-20
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	light brown clayey sand, moist	4.4	821-SB-20	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Boring Number: 821-SB-21
Sampling Personnel: Chelsea Parra
Date Drilled: 12/12/2023
Depth to Groundwater: n/a
Total Depth: 12 inches
Drilling method: Hand Auger

STRATIFICATION

Depth (Inches)			PID Reading (ppm)	Sample No. and Depth	
From	To	Soil Description		Sample No.	Depth (in-BGS)
0	12	light brown clayey sand, moist, glass at 4-in	1.3	821-SB-21	0 - 12
		Boring terminated at 12 in. bgs.			

Notes:
1. in-BGS: Inches Below Ground Surface
2. PID: Photo-Ionization Detector
3. PPM: parts per million (volume/volume)

Appendix III – Laboratory Reports and Chains of Custody

ANALYTICAL REPORT

December 19, 2023

S&ME Inc. - Raleigh NC

Sample Delivery Group:	L1687027
Samples Received:	12/12/2023
Project Number:	
Description:	East Durham Park

Report To:

Mr. Jerry Paul
3201 Spring Forest Road
Raleigh, NC 27616

Entire Report Reviewed By:

Craig Cothron
Project Manager

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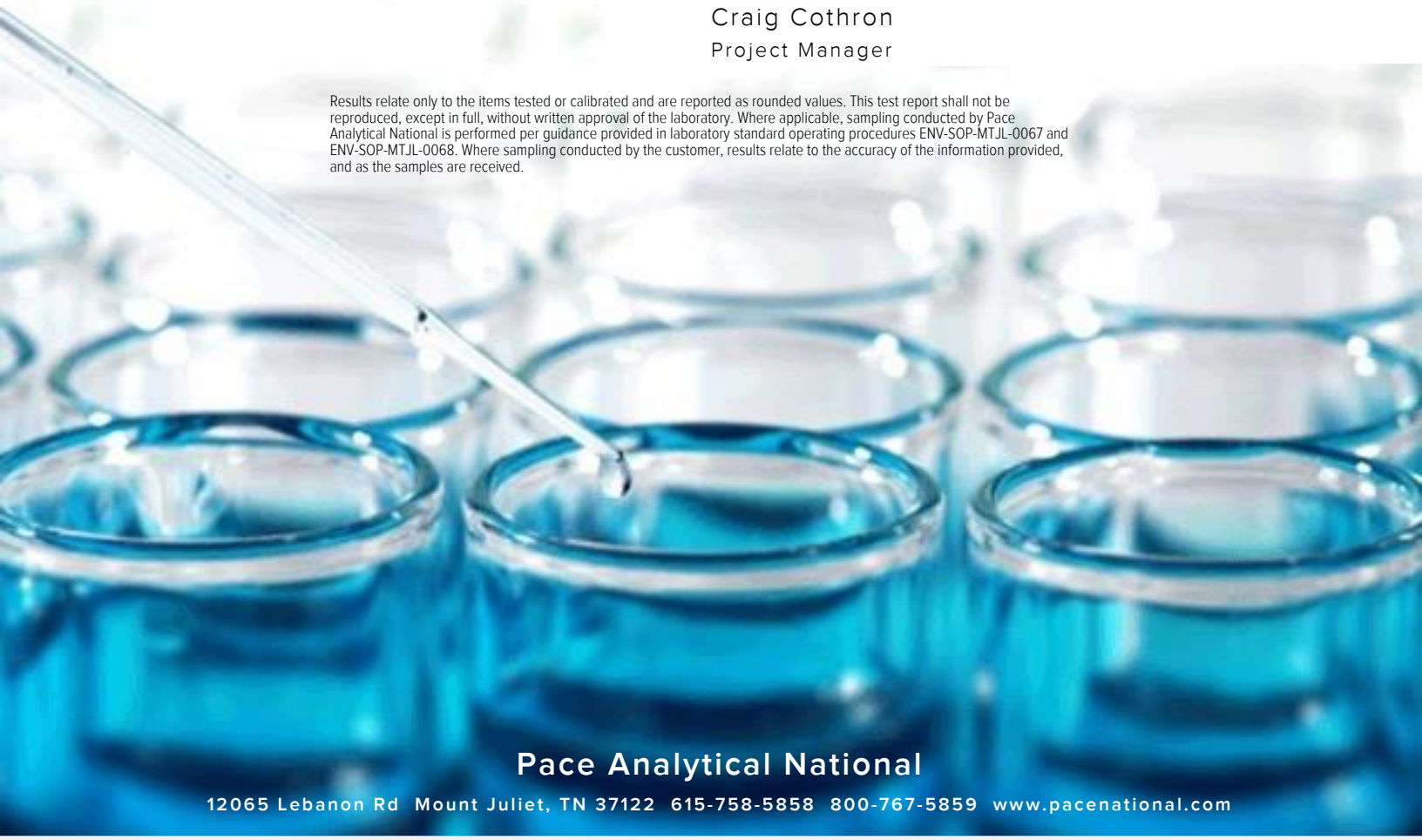

Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

821-SB-01 L1687027-01 Solid

Collected by: Chelsea Parra | Collected date/time: 12/11/23 11:00 | Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189072	1	12/14/23 08:35	12/14/23 08:43	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2189353	5	12/14/23 14:09	12/15/23 10:45	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2190595	1.14	12/11/23 11:00	12/16/23 17:18	JAH	Mt. Juliet, TN

821-SB-02 L1687027-02 Solid

Collected by: Chelsea Parra | Collected date/time: 12/11/23 11:15 | Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189072	1	12/14/23 08:35	12/14/23 08:43	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2189353	5	12/14/23 14:09	12/15/23 11:02	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2190595	1	12/11/23 11:15	12/16/23 17:38	JAH	Mt. Juliet, TN

821-SB-03 L1687027-03 Solid

Collected by: Chelsea Parra | Collected date/time: 12/11/23 11:40 | Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189072	1	12/14/23 08:35	12/14/23 08:43	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2189353	5	12/14/23 14:09	12/15/23 11:05	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2190595	1.23	12/11/23 11:40	12/16/23 17:57	JAH	Mt. Juliet, TN

821-SB-04 L1687027-04 Solid

Collected by: Chelsea Parra | Collected date/time: 12/11/23 12:00 | Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189072	1	12/14/23 08:35	12/14/23 08:43	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2189353	5	12/14/23 14:09	12/15/23 11:08	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2190595	1	12/11/23 12:00	12/16/23 18:17	JAH	Mt. Juliet, TN

821-SB-05 L1687027-05 Solid

Collected by: Chelsea Parra | Collected date/time: 12/11/23 12:20 | Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189072	1	12/14/23 08:35	12/14/23 08:43	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2189353	5	12/14/23 14:09	12/15/23 11:18	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2190595	1	12/11/23 12:20	12/16/23 18:37	JAH	Mt. Juliet, TN

821-SB-06 L1687027-06 Solid

Collected by: Chelsea Parra | Collected date/time: 12/11/23 12:50 | Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189072	1	12/14/23 08:35	12/14/23 08:43	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2189353	5	12/14/23 14:09	12/15/23 11:22	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2190595	1.16	12/11/23 12:50	12/16/23 18:57	JAH	Mt. Juliet, TN

821-SB-07 L1687027-07 Solid

Collected by: Chelsea Parra | Collected date/time: 12/11/23 13:40 | Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189072	1	12/14/23 08:35	12/14/23 08:43	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2189353	5	12/14/23 14:09	12/15/23 11:25	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191063	1.19	12/11/23 13:40	12/17/23 11:53	ACG	Mt. Juliet, TN

821-SB-08 L1687027-08 Solid

Collected by: Chelsea Parra | Collected date/time: 12/11/23 14:00 | Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189073	1	12/14/23 08:25	12/14/23 08:32	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2189353	5	12/14/23 14:09	12/15/23 11:28	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191063	1.12	12/11/23 14:00	12/17/23 12:12	ACG	Mt. Juliet, TN

821-SB L1687027-09 Solid

Collected by: Chelsea Parra | Collected date/time: 12/11/23 00:00 | Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189073	1	12/14/23 08:25	12/14/23 08:32	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2189353	5	12/14/23 14:09	12/15/23 11:32	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191097	1.25	12/11/23 00:00	12/17/23 12:35	DWR	Mt. Juliet, TN

TRIP BLANK L1687027-10 GW

Collected by: Chelsea Parra | Collected date/time: 12/11/23 11:00 | Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2190719	1	12/16/23 10:21	12/16/23 10:21	DYW	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Craig Cothron
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.2		1	12/14/2023 08:43	WG2189072

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	238		2.35	5	12/15/2023 10:45	WG2189353

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0756	1.14	12/16/2023 17:18	WG2190595
Acrylonitrile	ND		0.0190	1.14	12/16/2023 17:18	WG2190595
Benzene	ND		0.00151	1.14	12/16/2023 17:18	WG2190595
Bromobenzene	ND		0.0190	1.14	12/16/2023 17:18	WG2190595
Bromodichloromethane	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
Bromoform	ND		0.0378	1.14	12/16/2023 17:18	WG2190595
Bromomethane	ND	C3	0.0190	1.14	12/16/2023 17:18	WG2190595
n-Butylbenzene	ND		0.0190	1.14	12/16/2023 17:18	WG2190595
sec-Butylbenzene	ND		0.0190	1.14	12/16/2023 17:18	WG2190595
tert-Butylbenzene	ND		0.00756	1.14	12/16/2023 17:18	WG2190595
Carbon tetrachloride	ND		0.00756	1.14	12/16/2023 17:18	WG2190595
Chlorobenzene	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
Chlorodibromomethane	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
Chloroethane	ND		0.00756	1.14	12/16/2023 17:18	WG2190595
Chloroform	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
Chloromethane	ND		0.0190	1.14	12/16/2023 17:18	WG2190595
2-Chlorotoluene	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
4-Chlorotoluene	ND		0.00756	1.14	12/16/2023 17:18	WG2190595
1,2-Dibromo-3-Chloropropane	ND		0.0378	1.14	12/16/2023 17:18	WG2190595
1,2-Dibromoethane	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
Dibromomethane	ND		0.00756	1.14	12/16/2023 17:18	WG2190595
1,2-Dichlorobenzene	ND		0.00756	1.14	12/16/2023 17:18	WG2190595
1,3-Dichlorobenzene	ND		0.00756	1.14	12/16/2023 17:18	WG2190595
1,4-Dichlorobenzene	ND		0.00756	1.14	12/16/2023 17:18	WG2190595
Dichlorodifluoromethane	ND		0.00756	1.14	12/16/2023 17:18	WG2190595
1,1-Dichloroethane	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
1,2-Dichloroethane	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
1,1-Dichloroethene	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
cis-1,2-Dichloroethene	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
trans-1,2-Dichloroethene	ND		0.00756	1.14	12/16/2023 17:18	WG2190595
1,2-Dichloropropane	ND		0.00756	1.14	12/16/2023 17:18	WG2190595
1,1-Dichloropropene	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
1,3-Dichloropropane	ND		0.00756	1.14	12/16/2023 17:18	WG2190595
cis-1,3-Dichloropropene	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
trans-1,3-Dichloropropene	ND		0.00756	1.14	12/16/2023 17:18	WG2190595
2,2-Dichloropropane	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
Di-isopropyl ether	ND		0.00151	1.14	12/16/2023 17:18	WG2190595
Ethylbenzene	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
Hexachloro-1,3-butadiene	ND		0.0378	1.14	12/16/2023 17:18	WG2190595
Isopropylbenzene	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
p-Isopropyltoluene	ND		0.00756	1.14	12/16/2023 17:18	WG2190595
2-Butanone (MEK)	ND		0.151	1.14	12/16/2023 17:18	WG2190595
Methylene Chloride	ND		0.0378	1.14	12/16/2023 17:18	WG2190595
4-Methyl-2-pentanone (MIBK)	ND		0.0378	1.14	12/16/2023 17:18	WG2190595
Methyl tert-butyl ether	ND		0.00151	1.14	12/16/2023 17:18	WG2190595

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	0.0215	C3	0.0190	1.14	12/16/2023 17:18	WG2190595
n-Propylbenzene	ND		0.00756	1.14	12/16/2023 17:18	WG2190595
Styrene	ND		0.0190	1.14	12/16/2023 17:18	WG2190595
1,1,1,2-Tetrachloroethane	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
1,1,2,2-Tetrachloroethane	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
Tetrachloroethene	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
Toluene	ND		0.00756	1.14	12/16/2023 17:18	WG2190595
1,2,3-Trichlorobenzene	ND		0.0190	1.14	12/16/2023 17:18	WG2190595
1,2,4-Trichlorobenzene	ND	C3	0.0190	1.14	12/16/2023 17:18	WG2190595
1,1,1-Trichloroethane	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
1,1,2-Trichloroethane	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
Trichloroethene	ND		0.00151	1.14	12/16/2023 17:18	WG2190595
Trichlorofluoromethane	ND		0.00378	1.14	12/16/2023 17:18	WG2190595
1,2,3-Trichloropropane	ND		0.0190	1.14	12/16/2023 17:18	WG2190595
1,2,4-Trimethylbenzene	ND		0.00756	1.14	12/16/2023 17:18	WG2190595
1,3,5-Trimethylbenzene	ND		0.00756	1.14	12/16/2023 17:18	WG2190595
Vinyl chloride	ND	C3	0.00378	1.14	12/16/2023 17:18	WG2190595
Xylenes, Total	ND		0.00983	1.14	12/16/2023 17:18	WG2190595
(S) Toluene-d8	*110*		*75.0-131*		*12/16/2023 17:18*	WG2190595
(S) 4-Bromofluorobenzene	*92.8*		*67.0-138*		*12/16/2023 17:18*	WG2190595
(S) 1,2-Dichloroethane-d4	*89.5*		*70.0-130*		*12/16/2023 17:18*	WG2190595

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.2		1	12/14/2023 08:43	WG2189072

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	184		2.52	5	12/15/2023 11:02	WG2189353

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0762	1	12/16/2023 17:38	WG2190595
Acrylonitrile	ND		0.0190	1	12/16/2023 17:38	WG2190595
Benzene	0.00178		0.00152	1	12/16/2023 17:38	WG2190595
Bromobenzene	ND		0.0190	1	12/16/2023 17:38	WG2190595
Bromodichloromethane	ND		0.00381	1	12/16/2023 17:38	WG2190595
Bromoform	ND		0.0381	1	12/16/2023 17:38	WG2190595
Bromomethane	ND	C3	0.0190	1	12/16/2023 17:38	WG2190595
n-Butylbenzene	ND		0.0190	1	12/16/2023 17:38	WG2190595
sec-Butylbenzene	ND		0.0190	1	12/16/2023 17:38	WG2190595
tert-Butylbenzene	ND		0.00762	1	12/16/2023 17:38	WG2190595
Carbon tetrachloride	ND		0.00762	1	12/16/2023 17:38	WG2190595
Chlorobenzene	ND		0.00381	1	12/16/2023 17:38	WG2190595
Chlorodibromomethane	ND		0.00381	1	12/16/2023 17:38	WG2190595
Chloroethane	ND		0.00762	1	12/16/2023 17:38	WG2190595
Chloroform	ND		0.00381	1	12/16/2023 17:38	WG2190595
Chloromethane	ND		0.0190	1	12/16/2023 17:38	WG2190595
2-Chlorotoluene	ND		0.00381	1	12/16/2023 17:38	WG2190595
4-Chlorotoluene	ND		0.00762	1	12/16/2023 17:38	WG2190595
1,2-Dibromo-3-Chloropropane	ND		0.0381	1	12/16/2023 17:38	WG2190595
1,2-Dibromoethane	ND		0.00381	1	12/16/2023 17:38	WG2190595
Dibromomethane	ND		0.00762	1	12/16/2023 17:38	WG2190595
1,2-Dichlorobenzene	ND		0.00762	1	12/16/2023 17:38	WG2190595
1,3-Dichlorobenzene	ND		0.00762	1	12/16/2023 17:38	WG2190595
1,4-Dichlorobenzene	ND		0.00762	1	12/16/2023 17:38	WG2190595
Dichlorodifluoromethane	ND		0.00762	1	12/16/2023 17:38	WG2190595
1,1-Dichloroethane	ND		0.00381	1	12/16/2023 17:38	WG2190595
1,2-Dichloroethane	ND		0.00381	1	12/16/2023 17:38	WG2190595
1,1-Dichloroethene	ND		0.00381	1	12/16/2023 17:38	WG2190595
cis-1,2-Dichloroethene	ND		0.00381	1	12/16/2023 17:38	WG2190595
trans-1,2-Dichloroethene	ND		0.00762	1	12/16/2023 17:38	WG2190595
1,2-Dichloropropane	ND		0.00762	1	12/16/2023 17:38	WG2190595
1,1-Dichloropropene	ND		0.00381	1	12/16/2023 17:38	WG2190595
1,3-Dichloropropane	ND		0.00762	1	12/16/2023 17:38	WG2190595
cis-1,3-Dichloropropene	ND		0.00381	1	12/16/2023 17:38	WG2190595
trans-1,3-Dichloropropene	ND		0.00762	1	12/16/2023 17:38	WG2190595
2,2-Dichloropropane	ND		0.00381	1	12/16/2023 17:38	WG2190595
Di-isopropyl ether	ND		0.00152	1	12/16/2023 17:38	WG2190595
Ethylbenzene	ND		0.00381	1	12/16/2023 17:38	WG2190595
Hexachloro-1,3-butadiene	ND		0.0381	1	12/16/2023 17:38	WG2190595
Isopropylbenzene	ND		0.00381	1	12/16/2023 17:38	WG2190595
p-Isopropyltoluene	ND		0.00762	1	12/16/2023 17:38	WG2190595
2-Butanone (MEK)	ND		0.152	1	12/16/2023 17:38	WG2190595
Methylene Chloride	ND		0.0381	1	12/16/2023 17:38	WG2190595
4-Methyl-2-pentanone (MIBK)	ND		0.0381	1	12/16/2023 17:38	WG2190595
Methyl tert-butyl ether	ND		0.00152	1	12/16/2023 17:38	WG2190595

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	0.0229	C3	0.0190	1	12/16/2023 17:38	WG2190595
n-Propylbenzene	ND		0.00762	1	12/16/2023 17:38	WG2190595
Styrene	ND		0.0190	1	12/16/2023 17:38	WG2190595
1,1,1,2-Tetrachloroethane	ND		0.00381	1	12/16/2023 17:38	WG2190595
1,1,2,2-Tetrachloroethane	ND		0.00381	1	12/16/2023 17:38	WG2190595
Tetrachloroethene	ND		0.00381	1	12/16/2023 17:38	WG2190595
Toluene	0.0139		0.00762	1	12/16/2023 17:38	WG2190595
1,2,3-Trichlorobenzene	ND		0.0190	1	12/16/2023 17:38	WG2190595
1,2,4-Trichlorobenzene	ND	C3	0.0190	1	12/16/2023 17:38	WG2190595
1,1,1-Trichloroethane	ND		0.00381	1	12/16/2023 17:38	WG2190595
1,1,2-Trichloroethane	ND		0.00381	1	12/16/2023 17:38	WG2190595
Trichloroethene	ND		0.00152	1	12/16/2023 17:38	WG2190595
Trichlorofluoromethane	ND		0.00381	1	12/16/2023 17:38	WG2190595
1,2,3-Trichloropropane	ND		0.0190	1	12/16/2023 17:38	WG2190595
1,2,4-Trimethylbenzene	ND		0.00762	1	12/16/2023 17:38	WG2190595
1,3,5-Trimethylbenzene	ND		0.00762	1	12/16/2023 17:38	WG2190595
Vinyl chloride	ND	C3	0.00381	1	12/16/2023 17:38	WG2190595
Xylenes, Total	0.0171		0.00990	1	12/16/2023 17:38	WG2190595
(S) Toluene-d8	*107*		*75.0-131*		*12/16/2023 17:38*	WG2190595
(S) 4-Bromofluorobenzene	*92.3*		*67.0-138*		*12/16/2023 17:38*	WG2190595
(S) 1,2-Dichloroethane-d4	*88.9*		*70.0-130*		*12/16/2023 17:38*	WG2190595

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.6		1	12/14/2023 08:43	WG2189072

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	36.4		2.42	5	12/15/2023 11:05	WG2189353

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0850	1.23	12/16/2023 17:57	WG2190595
Acrylonitrile	ND		0.0213	1.23	12/16/2023 17:57	WG2190595
Benzene	ND		0.00170	1.23	12/16/2023 17:57	WG2190595
Bromobenzene	ND		0.0213	1.23	12/16/2023 17:57	WG2190595
Bromodichloromethane	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
Bromoform	ND		0.0426	1.23	12/16/2023 17:57	WG2190595
Bromomethane	ND	C3	0.0213	1.23	12/16/2023 17:57	WG2190595
n-Butylbenzene	ND		0.0213	1.23	12/16/2023 17:57	WG2190595
sec-Butylbenzene	ND		0.0213	1.23	12/16/2023 17:57	WG2190595
tert-Butylbenzene	ND		0.00850	1.23	12/16/2023 17:57	WG2190595
Carbon tetrachloride	ND		0.00850	1.23	12/16/2023 17:57	WG2190595
Chlorobenzene	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
Chlorodibromomethane	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
Chloroethane	ND		0.00850	1.23	12/16/2023 17:57	WG2190595
Chloroform	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
Chloromethane	ND		0.0213	1.23	12/16/2023 17:57	WG2190595
2-Chlorotoluene	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
4-Chlorotoluene	ND		0.00850	1.23	12/16/2023 17:57	WG2190595
1,2-Dibromo-3-Chloropropane	ND		0.0426	1.23	12/16/2023 17:57	WG2190595
1,2-Dibromoethane	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
Dibromomethane	ND		0.00850	1.23	12/16/2023 17:57	WG2190595
1,2-Dichlorobenzene	ND		0.00850	1.23	12/16/2023 17:57	WG2190595
1,3-Dichlorobenzene	ND		0.00850	1.23	12/16/2023 17:57	WG2190595
1,4-Dichlorobenzene	ND		0.00850	1.23	12/16/2023 17:57	WG2190595
Dichlorodifluoromethane	ND		0.00850	1.23	12/16/2023 17:57	WG2190595
1,1-Dichloroethane	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
1,2-Dichloroethane	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
1,1-Dichloroethene	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
cis-1,2-Dichloroethene	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
trans-1,2-Dichloroethene	ND		0.00850	1.23	12/16/2023 17:57	WG2190595
1,2-Dichloropropane	ND		0.00850	1.23	12/16/2023 17:57	WG2190595
1,1-Dichloropropene	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
1,3-Dichloropropane	ND		0.00850	1.23	12/16/2023 17:57	WG2190595
cis-1,3-Dichloropropene	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
trans-1,3-Dichloropropene	ND		0.00850	1.23	12/16/2023 17:57	WG2190595
2,2-Dichloropropane	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
Di-isopropyl ether	ND		0.00170	1.23	12/16/2023 17:57	WG2190595
Ethylbenzene	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
Hexachloro-1,3-butadiene	ND		0.0426	1.23	12/16/2023 17:57	WG2190595
Isopropylbenzene	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
p-Isopropyltoluene	ND		0.00850	1.23	12/16/2023 17:57	WG2190595
2-Butanone (MEK)	ND		0.170	1.23	12/16/2023 17:57	WG2190595
Methylene Chloride	ND		0.0426	1.23	12/16/2023 17:57	WG2190595
4-Methyl-2-pentanone (MIBK)	ND		0.0426	1.23	12/16/2023 17:57	WG2190595
Methyl tert-butyl ether	ND		0.00170	1.23	12/16/2023 17:57	WG2190595

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND	C3	0.0213	1.23	12/16/2023 17:57	WG2190595
n-Propylbenzene	ND		0.00850	1.23	12/16/2023 17:57	WG2190595
Styrene	ND		0.0213	1.23	12/16/2023 17:57	WG2190595
1,1,1,2-Tetrachloroethane	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
1,1,2,2-Tetrachloroethane	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
Tetrachloroethene	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
Toluene	ND		0.00850	1.23	12/16/2023 17:57	WG2190595
1,2,3-Trichlorobenzene	ND		0.0213	1.23	12/16/2023 17:57	WG2190595
1,2,4-Trichlorobenzene	ND	C3	0.0213	1.23	12/16/2023 17:57	WG2190595
1,1,1-Trichloroethane	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
1,1,2-Trichloroethane	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
Trichloroethene	ND		0.00170	1.23	12/16/2023 17:57	WG2190595
Trichlorofluoromethane	ND		0.00426	1.23	12/16/2023 17:57	WG2190595
1,2,3-Trichloropropane	ND		0.0213	1.23	12/16/2023 17:57	WG2190595
1,2,4-Trimethylbenzene	ND		0.00850	1.23	12/16/2023 17:57	WG2190595
1,3,5-Trimethylbenzene	ND		0.00850	1.23	12/16/2023 17:57	WG2190595
Vinyl chloride	ND	C3	0.00426	1.23	12/16/2023 17:57	WG2190595
Xylenes, Total	ND		0.0111	1.23	12/16/2023 17:57	WG2190595
(S) Toluene-d8	*111*		*75.0-131*		*12/16/2023 17:57*	WG2190595
(S) 4-Bromofluorobenzene	*96.6*		*67.0-138*		*12/16/2023 17:57*	WG2190595
(S) 1,2-Dichloroethane-d4	*87.1*		*70.0-130*		*12/16/2023 17:57*	WG2190595

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.8		1	12/14/2023 08:43	WG2189072

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	231		2.33	5	12/15/2023 11:08	WG2189353

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0666	1	12/16/2023 18:17	WG2190595
Acrylonitrile	ND		0.0166	1	12/16/2023 18:17	WG2190595
Benzene	ND		0.00133	1	12/16/2023 18:17	WG2190595
Bromobenzene	ND		0.0166	1	12/16/2023 18:17	WG2190595
Bromodichloromethane	ND		0.00333	1	12/16/2023 18:17	WG2190595
Bromoform	ND		0.0333	1	12/16/2023 18:17	WG2190595
Bromomethane	ND	C3	0.0166	1	12/16/2023 18:17	WG2190595
n-Butylbenzene	ND		0.0166	1	12/16/2023 18:17	WG2190595
sec-Butylbenzene	ND		0.0166	1	12/16/2023 18:17	WG2190595
tert-Butylbenzene	ND		0.00666	1	12/16/2023 18:17	WG2190595
Carbon tetrachloride	ND		0.00666	1	12/16/2023 18:17	WG2190595
Chlorobenzene	ND		0.00333	1	12/16/2023 18:17	WG2190595
Chlorodibromomethane	ND		0.00333	1	12/16/2023 18:17	WG2190595
Chloroethane	ND		0.00666	1	12/16/2023 18:17	WG2190595
Chloroform	ND		0.00333	1	12/16/2023 18:17	WG2190595
Chloromethane	ND		0.0166	1	12/16/2023 18:17	WG2190595
2-Chlorotoluene	ND		0.00333	1	12/16/2023 18:17	WG2190595
4-Chlorotoluene	ND		0.00666	1	12/16/2023 18:17	WG2190595
1,2-Dibromo-3-Chloropropane	ND		0.0333	1	12/16/2023 18:17	WG2190595
1,2-Dibromoethane	ND		0.00333	1	12/16/2023 18:17	WG2190595
Dibromomethane	ND		0.00666	1	12/16/2023 18:17	WG2190595
1,2-Dichlorobenzene	ND		0.00666	1	12/16/2023 18:17	WG2190595
1,3-Dichlorobenzene	ND		0.00666	1	12/16/2023 18:17	WG2190595
1,4-Dichlorobenzene	ND		0.00666	1	12/16/2023 18:17	WG2190595
Dichlorodifluoromethane	ND		0.00666	1	12/16/2023 18:17	WG2190595
1,1-Dichloroethane	ND		0.00333	1	12/16/2023 18:17	WG2190595
1,2-Dichloroethane	ND		0.00333	1	12/16/2023 18:17	WG2190595
1,1-Dichloroethene	ND		0.00333	1	12/16/2023 18:17	WG2190595
cis-1,2-Dichloroethene	ND		0.00333	1	12/16/2023 18:17	WG2190595
trans-1,2-Dichloroethene	ND		0.00666	1	12/16/2023 18:17	WG2190595
1,2-Dichloropropane	ND		0.00666	1	12/16/2023 18:17	WG2190595
1,1-Dichloropropene	ND		0.00333	1	12/16/2023 18:17	WG2190595
1,3-Dichloropropane	ND		0.00666	1	12/16/2023 18:17	WG2190595
cis-1,3-Dichloropropene	ND		0.00333	1	12/16/2023 18:17	WG2190595
trans-1,3-Dichloropropene	ND		0.00666	1	12/16/2023 18:17	WG2190595
2,2-Dichloropropane	ND		0.00333	1	12/16/2023 18:17	WG2190595
Di-isopropyl ether	ND		0.00133	1	12/16/2023 18:17	WG2190595
Ethylbenzene	ND		0.00333	1	12/16/2023 18:17	WG2190595
Hexachloro-1,3-butadiene	ND		0.0333	1	12/16/2023 18:17	WG2190595
Isopropylbenzene	ND		0.00333	1	12/16/2023 18:17	WG2190595
p-Isopropyltoluene	ND		0.00666	1	12/16/2023 18:17	WG2190595
2-Butanone (MEK)	ND		0.133	1	12/16/2023 18:17	WG2190595
Methylene Chloride	ND		0.0333	1	12/16/2023 18:17	WG2190595
4-Methyl-2-pentanone (MIBK)	ND		0.0333	1	12/16/2023 18:17	WG2190595
Methyl tert-butyl ether	ND		0.00133	1	12/16/2023 18:17	WG2190595

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND	C3	0.0166	1	12/16/2023 18:17	WG2190595
n-Propylbenzene	ND		0.00666	1	12/16/2023 18:17	WG2190595
Styrene	ND		0.0166	1	12/16/2023 18:17	WG2190595
1,1,1,2-Tetrachloroethane	ND		0.00333	1	12/16/2023 18:17	WG2190595
1,1,2,2-Tetrachloroethane	ND		0.00333	1	12/16/2023 18:17	WG2190595
Tetrachloroethene	ND		0.00333	1	12/16/2023 18:17	WG2190595
Toluene	ND		0.00666	1	12/16/2023 18:17	WG2190595
1,2,3-Trichlorobenzene	ND		0.0166	1	12/16/2023 18:17	WG2190595
1,2,4-Trichlorobenzene	ND	C3	0.0166	1	12/16/2023 18:17	WG2190595
1,1,1-Trichloroethane	ND		0.00333	1	12/16/2023 18:17	WG2190595
1,1,2-Trichloroethane	ND		0.00333	1	12/16/2023 18:17	WG2190595
Trichloroethene	ND		0.00133	1	12/16/2023 18:17	WG2190595
Trichlorofluoromethane	ND		0.00333	1	12/16/2023 18:17	WG2190595
1,2,3-Trichloropropane	ND		0.0166	1	12/16/2023 18:17	WG2190595
1,2,4-Trimethylbenzene	ND		0.00666	1	12/16/2023 18:17	WG2190595
1,3,5-Trimethylbenzene	ND		0.00666	1	12/16/2023 18:17	WG2190595
Vinyl chloride	ND	C3	0.00333	1	12/16/2023 18:17	WG2190595
Xylenes, Total	ND		0.00866	1	12/16/2023 18:17	WG2190595
(S) Toluene-d8	*108*		*75.0-131*		*12/16/2023 18:17*	WG2190595
(S) 4-Bromofluorobenzene	*95.5*		*67.0-138*		*12/16/2023 18:17*	WG2190595
(S) 1,2-Dichloroethane-d4	*86.3*		*70.0-130*		*12/16/2023 18:17*	WG2190595

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.0		1	12/14/2023 08:43	WG2189072

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	937		2.50	5	12/15/2023 11:18	WG2189353

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0757	1	12/16/2023 18:37	WG2190595
Acrylonitrile	ND		0.0189	1	12/16/2023 18:37	WG2190595
Benzene	ND		0.00151	1	12/16/2023 18:37	WG2190595
Bromobenzene	ND		0.0189	1	12/16/2023 18:37	WG2190595
Bromodichloromethane	ND		0.00378	1	12/16/2023 18:37	WG2190595
Bromoform	ND		0.0378	1	12/16/2023 18:37	WG2190595
Bromomethane	ND	C3	0.0189	1	12/16/2023 18:37	WG2190595
n-Butylbenzene	ND		0.0189	1	12/16/2023 18:37	WG2190595
sec-Butylbenzene	ND		0.0189	1	12/16/2023 18:37	WG2190595
tert-Butylbenzene	ND		0.00757	1	12/16/2023 18:37	WG2190595
Carbon tetrachloride	ND		0.00757	1	12/16/2023 18:37	WG2190595
Chlorobenzene	ND		0.00378	1	12/16/2023 18:37	WG2190595
Chlorodibromomethane	ND		0.00378	1	12/16/2023 18:37	WG2190595
Chloroethane	ND		0.00757	1	12/16/2023 18:37	WG2190595
Chloroform	ND		0.00378	1	12/16/2023 18:37	WG2190595
Chloromethane	ND		0.0189	1	12/16/2023 18:37	WG2190595
2-Chlorotoluene	ND		0.00378	1	12/16/2023 18:37	WG2190595
4-Chlorotoluene	ND		0.00757	1	12/16/2023 18:37	WG2190595
1,2-Dibromo-3-Chloropropane	ND		0.0378	1	12/16/2023 18:37	WG2190595
1,2-Dibromoethane	ND		0.00378	1	12/16/2023 18:37	WG2190595
Dibromomethane	ND		0.00757	1	12/16/2023 18:37	WG2190595
1,2-Dichlorobenzene	ND		0.00757	1	12/16/2023 18:37	WG2190595
1,3-Dichlorobenzene	ND		0.00757	1	12/16/2023 18:37	WG2190595
1,4-Dichlorobenzene	ND		0.00757	1	12/16/2023 18:37	WG2190595
Dichlorodifluoromethane	ND		0.00757	1	12/16/2023 18:37	WG2190595
1,1-Dichloroethane	ND		0.00378	1	12/16/2023 18:37	WG2190595
1,2-Dichloroethane	ND		0.00378	1	12/16/2023 18:37	WG2190595
1,1-Dichloroethene	ND		0.00378	1	12/16/2023 18:37	WG2190595
cis-1,2-Dichloroethene	ND		0.00378	1	12/16/2023 18:37	WG2190595
trans-1,2-Dichloroethene	ND		0.00757	1	12/16/2023 18:37	WG2190595
1,2-Dichloropropane	ND		0.00757	1	12/16/2023 18:37	WG2190595
1,1-Dichloropropene	ND		0.00378	1	12/16/2023 18:37	WG2190595
1,3-Dichloropropane	ND		0.00757	1	12/16/2023 18:37	WG2190595
cis-1,3-Dichloropropene	ND		0.00378	1	12/16/2023 18:37	WG2190595
trans-1,3-Dichloropropene	ND		0.00757	1	12/16/2023 18:37	WG2190595
2,2-Dichloropropane	ND		0.00378	1	12/16/2023 18:37	WG2190595
Di-isopropyl ether	ND		0.00151	1	12/16/2023 18:37	WG2190595
Ethylbenzene	ND		0.00378	1	12/16/2023 18:37	WG2190595
Hexachloro-1,3-butadiene	ND		0.0378	1	12/16/2023 18:37	WG2190595
Isopropylbenzene	ND		0.00378	1	12/16/2023 18:37	WG2190595
p-Isopropyltoluene	ND		0.00757	1	12/16/2023 18:37	WG2190595
2-Butanone (MEK)	ND		0.151	1	12/16/2023 18:37	WG2190595
Methylene Chloride	ND		0.0378	1	12/16/2023 18:37	WG2190595
4-Methyl-2-pentanone (MIBK)	ND		0.0378	1	12/16/2023 18:37	WG2190595
Methyl tert-butyl ether	ND		0.00151	1	12/16/2023 18:37	WG2190595

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	0.0194	C3	0.0189	1	12/16/2023 18:37	WG2190595
n-Propylbenzene	ND		0.00757	1	12/16/2023 18:37	WG2190595
Styrene	ND		0.0189	1	12/16/2023 18:37	WG2190595
1,1,1,2-Tetrachloroethane	ND		0.00378	1	12/16/2023 18:37	WG2190595
1,1,2,2-Tetrachloroethane	ND		0.00378	1	12/16/2023 18:37	WG2190595
Tetrachloroethene	ND		0.00378	1	12/16/2023 18:37	WG2190595
Toluene	ND		0.00757	1	12/16/2023 18:37	WG2190595
1,2,3-Trichlorobenzene	ND		0.0189	1	12/16/2023 18:37	WG2190595
1,2,4-Trichlorobenzene	ND	C3	0.0189	1	12/16/2023 18:37	WG2190595
1,1,1-Trichloroethane	ND		0.00378	1	12/16/2023 18:37	WG2190595
1,1,2-Trichloroethane	ND		0.00378	1	12/16/2023 18:37	WG2190595
Trichloroethene	ND		0.00151	1	12/16/2023 18:37	WG2190595
Trichlorofluoromethane	ND		0.00378	1	12/16/2023 18:37	WG2190595
1,2,3-Trichloropropane	ND		0.0189	1	12/16/2023 18:37	WG2190595
1,2,4-Trimethylbenzene	ND		0.00757	1	12/16/2023 18:37	WG2190595
1,3,5-Trimethylbenzene	ND		0.00757	1	12/16/2023 18:37	WG2190595
Vinyl chloride	ND	C3	0.00378	1	12/16/2023 18:37	WG2190595
Xylenes, Total	ND		0.00984	1	12/16/2023 18:37	WG2190595
(S) Toluene-d8	*110*		*75.0-131*		*12/16/2023 18:37*	WG2190595
(S) 4-Bromofluorobenzene	*94.4*		*67.0-138*		*12/16/2023 18:37*	WG2190595
(S) 1,2-Dichloroethane-d4	*88.8*		*70.0-130*		*12/16/2023 18:37*	WG2190595

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.9		1	12/14/2023 08:43	WG2189072

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	3150		2.67	5	12/15/2023 11:22	WG2189353

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0942	1.16	12/16/2023 18:57	WG2190595
Acrylonitrile	ND		0.0235	1.16	12/16/2023 18:57	WG2190595
Benzene	ND		0.00188	1.16	12/16/2023 18:57	WG2190595
Bromobenzene	ND		0.0235	1.16	12/16/2023 18:57	WG2190595
Bromodichloromethane	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
Bromoform	ND		0.0471	1.16	12/16/2023 18:57	WG2190595
Bromomethane	ND	C3	0.0235	1.16	12/16/2023 18:57	WG2190595
n-Butylbenzene	ND		0.0235	1.16	12/16/2023 18:57	WG2190595
sec-Butylbenzene	ND		0.0235	1.16	12/16/2023 18:57	WG2190595
tert-Butylbenzene	ND		0.00942	1.16	12/16/2023 18:57	WG2190595
Carbon tetrachloride	ND		0.00942	1.16	12/16/2023 18:57	WG2190595
Chlorobenzene	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
Chlorodibromomethane	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
Chloroethane	ND		0.00942	1.16	12/16/2023 18:57	WG2190595
Chloroform	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
Chloromethane	ND		0.0235	1.16	12/16/2023 18:57	WG2190595
2-Chlorotoluene	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
4-Chlorotoluene	ND		0.00942	1.16	12/16/2023 18:57	WG2190595
1,2-Dibromo-3-Chloropropane	ND		0.0471	1.16	12/16/2023 18:57	WG2190595
1,2-Dibromoethane	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
Dibromomethane	ND		0.00942	1.16	12/16/2023 18:57	WG2190595
1,2-Dichlorobenzene	ND		0.00942	1.16	12/16/2023 18:57	WG2190595
1,3-Dichlorobenzene	ND		0.00942	1.16	12/16/2023 18:57	WG2190595
1,4-Dichlorobenzene	ND		0.00942	1.16	12/16/2023 18:57	WG2190595
Dichlorodifluoromethane	ND		0.00942	1.16	12/16/2023 18:57	WG2190595
1,1-Dichloroethane	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
1,2-Dichloroethane	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
1,1-Dichloroethene	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
cis-1,2-Dichloroethene	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
trans-1,2-Dichloroethene	ND		0.00942	1.16	12/16/2023 18:57	WG2190595
1,2-Dichloropropane	ND		0.00942	1.16	12/16/2023 18:57	WG2190595
1,1-Dichloropropene	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
1,3-Dichloropropane	ND		0.00942	1.16	12/16/2023 18:57	WG2190595
cis-1,3-Dichloropropene	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
trans-1,3-Dichloropropene	ND		0.00942	1.16	12/16/2023 18:57	WG2190595
2,2-Dichloropropane	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
Di-isopropyl ether	ND		0.00188	1.16	12/16/2023 18:57	WG2190595
Ethylbenzene	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
Hexachloro-1,3-butadiene	ND		0.0471	1.16	12/16/2023 18:57	WG2190595
Isopropylbenzene	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
p-Isopropyltoluene	ND		0.00942	1.16	12/16/2023 18:57	WG2190595
2-Butanone (MEK)	ND		0.188	1.16	12/16/2023 18:57	WG2190595
Methylene Chloride	ND		0.0471	1.16	12/16/2023 18:57	WG2190595
4-Methyl-2-pentanone (MIBK)	ND		0.0471	1.16	12/16/2023 18:57	WG2190595
Methyl tert-butyl ether	ND		0.00188	1.16	12/16/2023 18:57	WG2190595

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	0.0244	C3	0.0235	1.16	12/16/2023 18:57	WG2190595
n-Propylbenzene	ND		0.00942	1.16	12/16/2023 18:57	WG2190595
Styrene	ND		0.0235	1.16	12/16/2023 18:57	WG2190595
1,1,1,2-Tetrachloroethane	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
1,1,2,2-Tetrachloroethane	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
Tetrachloroethene	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
Toluene	ND		0.00942	1.16	12/16/2023 18:57	WG2190595
1,2,3-Trichlorobenzene	ND		0.0235	1.16	12/16/2023 18:57	WG2190595
1,2,4-Trichlorobenzene	ND	C3	0.0235	1.16	12/16/2023 18:57	WG2190595
1,1,1-Trichloroethane	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
1,1,2-Trichloroethane	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
Trichloroethene	ND		0.00188	1.16	12/16/2023 18:57	WG2190595
Trichlorofluoromethane	ND		0.00471	1.16	12/16/2023 18:57	WG2190595
1,2,3-Trichloropropane	ND		0.0235	1.16	12/16/2023 18:57	WG2190595
1,2,4-Trimethylbenzene	ND		0.00942	1.16	12/16/2023 18:57	WG2190595
1,3,5-Trimethylbenzene	ND		0.00942	1.16	12/16/2023 18:57	WG2190595
Vinyl chloride	ND	C3	0.00471	1.16	12/16/2023 18:57	WG2190595
Xylenes, Total	0.0138		0.0122	1.16	12/16/2023 18:57	WG2190595
(S) Toluene-d8	*111*		*75.0-131*		*12/16/2023 18:57*	WG2190595
(S) 4-Bromofluorobenzene	*99.5*		*67.0-138*		*12/16/2023 18:57*	WG2190595
(S) 1,2-Dichloroethane-d4	*85.3*		*70.0-130*		*12/16/2023 18:57*	WG2190595

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.9		1	12/14/2023 08:43	WG2189072

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	2290		2.67	5	12/15/2023 11:25	WG2189353

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0962	1.19	12/17/2023 11:53	WG2191063
Acrylonitrile	ND		0.0241	1.19	12/17/2023 11:53	WG2191063
Benzene	0.00192		0.00192	1.19	12/17/2023 11:53	WG2191063
Bromobenzene	ND		0.0241	1.19	12/17/2023 11:53	WG2191063
Bromodichloromethane	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
Bromoform	ND		0.0480	1.19	12/17/2023 11:53	WG2191063
Bromomethane	ND		0.0241	1.19	12/17/2023 11:53	WG2191063
n-Butylbenzene	ND		0.0241	1.19	12/17/2023 11:53	WG2191063
sec-Butylbenzene	ND		0.0241	1.19	12/17/2023 11:53	WG2191063
tert-Butylbenzene	ND		0.00962	1.19	12/17/2023 11:53	WG2191063
Carbon tetrachloride	ND	J4	0.00962	1.19	12/17/2023 11:53	WG2191063
Chlorobenzene	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
Chlorodibromomethane	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
Chloroethane	ND		0.00962	1.19	12/17/2023 11:53	WG2191063
Chloroform	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
Chloromethane	ND		0.0241	1.19	12/17/2023 11:53	WG2191063
2-Chlorotoluene	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
4-Chlorotoluene	ND		0.00962	1.19	12/17/2023 11:53	WG2191063
1,2-Dibromo-3-Chloropropane	ND		0.0480	1.19	12/17/2023 11:53	WG2191063
1,2-Dibromoethane	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
Dibromomethane	ND		0.00962	1.19	12/17/2023 11:53	WG2191063
1,2-Dichlorobenzene	ND		0.00962	1.19	12/17/2023 11:53	WG2191063
1,3-Dichlorobenzene	ND		0.00962	1.19	12/17/2023 11:53	WG2191063
1,4-Dichlorobenzene	ND		0.00962	1.19	12/17/2023 11:53	WG2191063
Dichlorodifluoromethane	ND		0.00962	1.19	12/17/2023 11:53	WG2191063
1,1-Dichloroethane	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
1,2-Dichloroethane	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
1,1-Dichloroethene	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
cis-1,2-Dichloroethene	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
trans-1,2-Dichloroethene	ND		0.00962	1.19	12/17/2023 11:53	WG2191063
1,2-Dichloropropane	ND		0.00962	1.19	12/17/2023 11:53	WG2191063
1,1-Dichloropropene	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
1,3-Dichloropropane	ND		0.00962	1.19	12/17/2023 11:53	WG2191063
cis-1,3-Dichloropropene	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
trans-1,3-Dichloropropene	ND		0.00962	1.19	12/17/2023 11:53	WG2191063
2,2-Dichloropropane	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
Di-isopropyl ether	ND		0.00192	1.19	12/17/2023 11:53	WG2191063
Ethylbenzene	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
Hexachloro-1,3-butadiene	ND		0.0480	1.19	12/17/2023 11:53	WG2191063
Isopropylbenzene	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
p-Isopropyltoluene	0.0125		0.00962	1.19	12/17/2023 11:53	WG2191063
2-Butanone (MEK)	ND		0.192	1.19	12/17/2023 11:53	WG2191063
Methylene Chloride	ND		0.0480	1.19	12/17/2023 11:53	WG2191063
4-Methyl-2-pentanone (MIBK)	ND		0.0480	1.19	12/17/2023 11:53	WG2191063
Methyl tert-butyl ether	ND		0.00192	1.19	12/17/2023 11:53	WG2191063

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND		0.0241	1.19	12/17/2023 11:53	WG2191063
n-Propylbenzene	ND		0.00962	1.19	12/17/2023 11:53	WG2191063
Styrene	ND		0.0241	1.19	12/17/2023 11:53	WG2191063
1,1,1,2-Tetrachloroethane	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
1,1,2,2-Tetrachloroethane	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
Tetrachloroethene	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
Toluene	0.0178		0.00962	1.19	12/17/2023 11:53	WG2191063
1,2,3-Trichlorobenzene	ND		0.0241	1.19	12/17/2023 11:53	WG2191063
1,2,4-Trichlorobenzene	ND		0.0241	1.19	12/17/2023 11:53	WG2191063
1,1,1-Trichloroethane	ND	J4	0.00480	1.19	12/17/2023 11:53	WG2191063
1,1,2-Trichloroethane	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
Trichloroethene	ND		0.00192	1.19	12/17/2023 11:53	WG2191063
Trichlorofluoromethane	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
1,2,3-Trichloropropane	ND		0.0241	1.19	12/17/2023 11:53	WG2191063
1,2,4-Trimethylbenzene	ND		0.00962	1.19	12/17/2023 11:53	WG2191063
1,3,5-Trimethylbenzene	ND		0.00962	1.19	12/17/2023 11:53	WG2191063
Vinyl chloride	ND		0.00480	1.19	12/17/2023 11:53	WG2191063
Xylenes, Total	ND		0.0125	1.19	12/17/2023 11:53	WG2191063
(S) Toluene-d8	*101*		*75.0-131*		*12/17/2023 11:53*	WG2191063
(S) 4-Bromofluorobenzene	*102*		*67.0-138*		*12/17/2023 11:53*	WG2191063
(S) 1,2-Dichloroethane-d4	*111*		*70.0-130*		*12/17/2023 11:53*	WG2191063

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.1		1	12/14/2023 08:32	WG2189073

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	148		2.41	5	12/15/2023 11:28	WG2189353

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0775	1.12	12/17/2023 12:12	WG2191063
Acrylonitrile	ND		0.0194	1.12	12/17/2023 12:12	WG2191063
Benzene	ND		0.00155	1.12	12/17/2023 12:12	WG2191063
Bromobenzene	ND		0.0194	1.12	12/17/2023 12:12	WG2191063
Bromodichloromethane	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
Bromoform	ND		0.0388	1.12	12/17/2023 12:12	WG2191063
Bromomethane	ND		0.0194	1.12	12/17/2023 12:12	WG2191063
n-Butylbenzene	ND		0.0194	1.12	12/17/2023 12:12	WG2191063
sec-Butylbenzene	ND		0.0194	1.12	12/17/2023 12:12	WG2191063
tert-Butylbenzene	ND		0.00775	1.12	12/17/2023 12:12	WG2191063
Carbon tetrachloride	ND	J4	0.00775	1.12	12/17/2023 12:12	WG2191063
Chlorobenzene	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
Chlorodibromomethane	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
Chloroethane	ND		0.00775	1.12	12/17/2023 12:12	WG2191063
Chloroform	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
Chloromethane	ND		0.0194	1.12	12/17/2023 12:12	WG2191063
2-Chlorotoluene	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
4-Chlorotoluene	ND		0.00775	1.12	12/17/2023 12:12	WG2191063
1,2-Dibromo-3-Chloropropane	ND		0.0388	1.12	12/17/2023 12:12	WG2191063
1,2-Dibromoethane	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
Dibromomethane	ND		0.00775	1.12	12/17/2023 12:12	WG2191063
1,2-Dichlorobenzene	ND		0.00775	1.12	12/17/2023 12:12	WG2191063
1,3-Dichlorobenzene	ND		0.00775	1.12	12/17/2023 12:12	WG2191063
1,4-Dichlorobenzene	ND		0.00775	1.12	12/17/2023 12:12	WG2191063
Dichlorodifluoromethane	ND		0.00775	1.12	12/17/2023 12:12	WG2191063
1,1-Dichloroethane	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
1,2-Dichloroethane	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
1,1-Dichloroethene	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
cis-1,2-Dichloroethene	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
trans-1,2-Dichloroethene	ND		0.00775	1.12	12/17/2023 12:12	WG2191063
1,2-Dichloropropane	ND		0.00775	1.12	12/17/2023 12:12	WG2191063
1,1-Dichloropropene	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
1,3-Dichloropropane	ND		0.00775	1.12	12/17/2023 12:12	WG2191063
cis-1,3-Dichloropropene	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
trans-1,3-Dichloropropene	ND		0.00775	1.12	12/17/2023 12:12	WG2191063
2,2-Dichloropropane	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
Di-isopropyl ether	ND		0.00155	1.12	12/17/2023 12:12	WG2191063
Ethylbenzene	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
Hexachloro-1,3-butadiene	ND		0.0388	1.12	12/17/2023 12:12	WG2191063
Isopropylbenzene	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
p-Isopropyltoluene	ND		0.00775	1.12	12/17/2023 12:12	WG2191063
2-Butanone (MEK)	ND		0.155	1.12	12/17/2023 12:12	WG2191063
Methylene Chloride	ND		0.0388	1.12	12/17/2023 12:12	WG2191063
4-Methyl-2-pentanone (MIBK)	ND		0.0388	1.12	12/17/2023 12:12	WG2191063
Methyl tert-butyl ether	ND		0.00155	1.12	12/17/2023 12:12	WG2191063

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND		0.0194	1.12	12/17/2023 12:12	WG2191063
n-Propylbenzene	ND		0.00775	1.12	12/17/2023 12:12	WG2191063
Styrene	ND		0.0194	1.12	12/17/2023 12:12	WG2191063
1,1,1,2-Tetrachloroethane	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
1,1,2,2-Tetrachloroethane	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
Tetrachloroethene	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
Toluene	ND		0.00775	1.12	12/17/2023 12:12	WG2191063
1,2,3-Trichlorobenzene	ND		0.0194	1.12	12/17/2023 12:12	WG2191063
1,2,4-Trichlorobenzene	ND		0.0194	1.12	12/17/2023 12:12	WG2191063
1,1,1-Trichloroethane	ND	J4	0.00388	1.12	12/17/2023 12:12	WG2191063
1,1,2-Trichloroethane	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
Trichloroethene	ND		0.00155	1.12	12/17/2023 12:12	WG2191063
Trichlorofluoromethane	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
1,2,3-Trichloropropane	ND		0.0194	1.12	12/17/2023 12:12	WG2191063
1,2,4-Trimethylbenzene	ND		0.00775	1.12	12/17/2023 12:12	WG2191063
1,3,5-Trimethylbenzene	ND		0.00775	1.12	12/17/2023 12:12	WG2191063
Vinyl chloride	ND		0.00388	1.12	12/17/2023 12:12	WG2191063
Xylenes, Total	ND		0.0101	1.12	12/17/2023 12:12	WG2191063
(S) Toluene-d8	*99.5*		*75.0-131*		*12/17/2023 12:12*	WG2191063
(S) 4-Bromofluorobenzene	*104*		*67.0-138*		*12/17/2023 12:12*	WG2191063
(S) 1,2-Dichloroethane-d4	*111*		*70.0-130*		*12/17/2023 12:12*	WG2191063

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.1		1	12/14/2023 08:32	WG2189073

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	153		2.30	5	12/15/2023 11:32	WG2189353

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND	C3	0.0791	1.25	12/17/2023 12:35	WG2191097
Acrylonitrile	ND		0.0197	1.25	12/17/2023 12:35	WG2191097
Benzene	ND		0.00158	1.25	12/17/2023 12:35	WG2191097
Bromobenzene	ND		0.0197	1.25	12/17/2023 12:35	WG2191097
Bromodichloromethane	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
Bromoform	ND		0.0396	1.25	12/17/2023 12:35	WG2191097
Bromomethane	ND		0.0197	1.25	12/17/2023 12:35	WG2191097
n-Butylbenzene	ND		0.0197	1.25	12/17/2023 12:35	WG2191097
sec-Butylbenzene	ND		0.0197	1.25	12/17/2023 12:35	WG2191097
tert-Butylbenzene	ND		0.00791	1.25	12/17/2023 12:35	WG2191097
Carbon tetrachloride	ND		0.00791	1.25	12/17/2023 12:35	WG2191097
Chlorobenzene	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
Chlorodibromomethane	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
Chloroethane	ND		0.00791	1.25	12/17/2023 12:35	WG2191097
Chloroform	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
Chloromethane	ND		0.0197	1.25	12/17/2023 12:35	WG2191097
2-Chlorotoluene	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
4-Chlorotoluene	ND		0.00791	1.25	12/17/2023 12:35	WG2191097
1,2-Dibromo-3-Chloropropane	ND	C3	0.0396	1.25	12/17/2023 12:35	WG2191097
1,2-Dibromoethane	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
Dibromomethane	ND		0.00791	1.25	12/17/2023 12:35	WG2191097
1,2-Dichlorobenzene	ND		0.00791	1.25	12/17/2023 12:35	WG2191097
1,3-Dichlorobenzene	ND		0.00791	1.25	12/17/2023 12:35	WG2191097
1,4-Dichlorobenzene	ND		0.00791	1.25	12/17/2023 12:35	WG2191097
Dichlorodifluoromethane	ND		0.00791	1.25	12/17/2023 12:35	WG2191097
1,1-Dichloroethane	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
1,2-Dichloroethane	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
1,1-Dichloroethene	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
cis-1,2-Dichloroethene	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
trans-1,2-Dichloroethene	ND		0.00791	1.25	12/17/2023 12:35	WG2191097
1,2-Dichloropropane	ND		0.00791	1.25	12/17/2023 12:35	WG2191097
1,1-Dichloropropene	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
1,3-Dichloropropane	ND		0.00791	1.25	12/17/2023 12:35	WG2191097
cis-1,3-Dichloropropene	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
trans-1,3-Dichloropropene	ND		0.00791	1.25	12/17/2023 12:35	WG2191097
2,2-Dichloropropane	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
Di-isopropyl ether	ND		0.00158	1.25	12/17/2023 12:35	WG2191097
Ethylbenzene	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
Hexachloro-1,3-butadiene	ND		0.0396	1.25	12/17/2023 12:35	WG2191097
Isopropylbenzene	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
p-Isopropyltoluene	ND		0.00791	1.25	12/17/2023 12:35	WG2191097
2-Butanone (MEK)	ND		0.158	1.25	12/17/2023 12:35	WG2191097
Methylene Chloride	ND		0.0396	1.25	12/17/2023 12:35	WG2191097
4-Methyl-2-pentanone (MIBK)	ND		0.0396	1.25	12/17/2023 12:35	WG2191097
Methyl tert-butyl ether	ND		0.00158	1.25	12/17/2023 12:35	WG2191097

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND	C3 J4	0.0197	1.25	12/17/2023 12:35	WG2191097
n-Propylbenzene	ND		0.00791	1.25	12/17/2023 12:35	WG2191097
Styrene	ND		0.0197	1.25	12/17/2023 12:35	WG2191097
1,1,1,2-Tetrachloroethane	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
1,1,2,2-Tetrachloroethane	ND	C3	0.00396	1.25	12/17/2023 12:35	WG2191097
Tetrachloroethene	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
Toluene	ND		0.00791	1.25	12/17/2023 12:35	WG2191097
1,2,3-Trichlorobenzene	ND	C3	0.0197	1.25	12/17/2023 12:35	WG2191097
1,2,4-Trichlorobenzene	ND	C3	0.0197	1.25	12/17/2023 12:35	WG2191097
1,1,1-Trichloroethane	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
1,1,2-Trichloroethane	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
Trichloroethene	ND		0.00158	1.25	12/17/2023 12:35	WG2191097
Trichlorofluoromethane	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
1,2,3-Trichloropropane	ND		0.0197	1.25	12/17/2023 12:35	WG2191097
1,2,4-Trimethylbenzene	ND		0.00791	1.25	12/17/2023 12:35	WG2191097
1,3,5-Trimethylbenzene	ND		0.00791	1.25	12/17/2023 12:35	WG2191097
Vinyl chloride	ND		0.00396	1.25	12/17/2023 12:35	WG2191097
Xylenes, Total	ND		0.0103	1.25	12/17/2023 12:35	WG2191097
(S) Toluene-d8	*98.3*		*75.0-131*		*12/17/2023 12:35*	WG2191097
(S) 4-Bromofluorobenzene	*100*		*67.0-138*		*12/17/2023 12:35*	WG2191097
(S) 1,2-Dichloroethane-d4	*89.2*		*70.0-130*		*12/17/2023 12:35*	WG2191097

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	12/16/2023 10:21	WG2190719
Acrolein	ND		50.0	1	12/16/2023 10:21	WG2190719
Acrylonitrile	ND	C3	10.0	1	12/16/2023 10:21	WG2190719
Benzene	ND		1.00	1	12/16/2023 10:21	WG2190719
Bromobenzene	ND		1.00	1	12/16/2023 10:21	WG2190719
Bromodichloromethane	ND		1.00	1	12/16/2023 10:21	WG2190719
Bromoform	ND		1.00	1	12/16/2023 10:21	WG2190719
Bromomethane	ND		5.00	1	12/16/2023 10:21	WG2190719
n-Butylbenzene	ND	C3	1.00	1	12/16/2023 10:21	WG2190719
sec-Butylbenzene	ND		1.00	1	12/16/2023 10:21	WG2190719
tert-Butylbenzene	ND		1.00	1	12/16/2023 10:21	WG2190719
Carbon tetrachloride	ND		1.00	1	12/16/2023 10:21	WG2190719
Chlorobenzene	ND		1.00	1	12/16/2023 10:21	WG2190719
Chlorodibromomethane	ND		1.00	1	12/16/2023 10:21	WG2190719
Chloroethane	ND		5.00	1	12/16/2023 10:21	WG2190719
Chloroform	ND		5.00	1	12/16/2023 10:21	WG2190719
Chloromethane	ND		2.50	1	12/16/2023 10:21	WG2190719
2-Chlorotoluene	ND		1.00	1	12/16/2023 10:21	WG2190719
4-Chlorotoluene	ND		1.00	1	12/16/2023 10:21	WG2190719
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/16/2023 10:21	WG2190719
1,2-Dibromoethane	ND		1.00	1	12/16/2023 10:21	WG2190719
Dibromomethane	ND		1.00	1	12/16/2023 10:21	WG2190719
1,2-Dichlorobenzene	ND		1.00	1	12/16/2023 10:21	WG2190719
1,3-Dichlorobenzene	ND		1.00	1	12/16/2023 10:21	WG2190719
1,4-Dichlorobenzene	ND		1.00	1	12/16/2023 10:21	WG2190719
Dichlorodifluoromethane	ND		5.00	1	12/16/2023 10:21	WG2190719
1,1-Dichloroethane	ND		1.00	1	12/16/2023 10:21	WG2190719
1,2-Dichloroethane	ND		1.00	1	12/16/2023 10:21	WG2190719
1,1-Dichloroethene	ND		1.00	1	12/16/2023 10:21	WG2190719
cis-1,2-Dichloroethene	ND		1.00	1	12/16/2023 10:21	WG2190719
trans-1,2-Dichloroethene	ND		1.00	1	12/16/2023 10:21	WG2190719
1,2-Dichloropropane	ND		1.00	1	12/16/2023 10:21	WG2190719
1,1-Dichloropropene	ND		1.00	1	12/16/2023 10:21	WG2190719
1,3-Dichloropropane	ND		1.00	1	12/16/2023 10:21	WG2190719
cis-1,3-Dichloropropene	ND		1.00	1	12/16/2023 10:21	WG2190719
trans-1,3-Dichloropropene	ND		1.00	1	12/16/2023 10:21	WG2190719
2,2-Dichloropropane	ND		1.00	1	12/16/2023 10:21	WG2190719
Di-isopropyl ether	ND		1.00	1	12/16/2023 10:21	WG2190719
Ethylbenzene	ND		1.00	1	12/16/2023 10:21	WG2190719
Hexachloro-1,3-butadiene	ND		1.00	1	12/16/2023 10:21	WG2190719
Isopropylbenzene	ND		1.00	1	12/16/2023 10:21	WG2190719
p-Isopropyltoluene	ND		1.00	1	12/16/2023 10:21	WG2190719
2-Butanone (MEK)	ND		10.0	1	12/16/2023 10:21	WG2190719
Methylene Chloride	ND	J4	5.00	1	12/16/2023 10:21	WG2190719
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/16/2023 10:21	WG2190719
Methyl tert-butyl ether	ND		1.00	1	12/16/2023 10:21	WG2190719
Naphthalene	ND	C3	5.00	1	12/16/2023 10:21	WG2190719
n-Propylbenzene	ND		1.00	1	12/16/2023 10:21	WG2190719
Styrene	ND		1.00	1	12/16/2023 10:21	WG2190719
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/16/2023 10:21	WG2190719
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/16/2023 10:21	WG2190719
Tetrachloroethene	ND		1.00	1	12/16/2023 10:21	WG2190719
Toluene	ND		1.00	1	12/16/2023 10:21	WG2190719
1,2,3-Trichlorobenzene	ND	C3	1.00	1	12/16/2023 10:21	WG2190719
1,2,4-Trichlorobenzene	ND	C3	1.00	1	12/16/2023 10:21	WG2190719
1,1,1-Trichloroethane	ND		1.00	1	12/16/2023 10:21	WG2190719

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		1.00	1	12/16/2023 10:21	WG2190719
Trichloroethene	ND		1.00	1	12/16/2023 10:21	WG2190719
Trichlorofluoromethane	ND		5.00	1	12/16/2023 10:21	WG2190719
1,2,3-Trichloropropane	ND		2.50	1	12/16/2023 10:21	WG2190719
1,2,4-Trimethylbenzene	ND		1.00	1	12/16/2023 10:21	WG2190719
1,3,5-Trimethylbenzene	ND		1.00	1	12/16/2023 10:21	WG2190719
Vinyl chloride	ND		1.00	1	12/16/2023 10:21	WG2190719
Xylenes, Total	ND		3.00	1	12/16/2023 10:21	WG2190719
(S) Toluene-d8	*105*		*80.0-120*		*12/16/2023 10:21*	WG2190719
(S) 4-Bromofluorobenzene	*92.4*		*77.0-126*		*12/16/2023 10:21*	WG2190719
(S) 1,2-Dichloroethane-d4	*121*		*70.0-130*		*12/16/2023 10:21*	WG2190719

Method Blank (MB)

(MB) R4012878-1 12/14/23 08:43

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

L1687027-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1687027-01 12/14/23 08:43 • (DUP) R4012878-3 12/14/23 08:43

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	85.2	84.3	1	1.02		10

Laboratory Control Sample (LCS)

(LCS) R4012878-2 12/14/23 08:43

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	90.0-110	

Method Blank (MB)

(MB) R4012876-1 12/14/23 08:32

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1687033-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1687033-02 12/14/23 08:32 • (DUP) R4012876-3 12/14/23 08:32

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	83.7	83.4	1	0.363		10

Laboratory Control Sample (LCS)

(LCS) R4012876-2 12/14/23 08:32

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	90.0-110	

Method Blank (MB)

(MB) R4012928-1 12/15/23 10:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.0990	2.00

Laboratory Control Sample (LCS)

(LCS) R4012928-2 12/15/23 10:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	92.3	92.3	80.0-120	

L1687027-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1687027-01 12/15/23 10:45 • (MS) R4012928-5 12/15/23 10:55 • (MSD) R4012928-6 12/15/23 10:58

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	117	238	210	311	0.000	62.4	5	75.0-125	J6	J3 J6	38.6	20

Method Blank (MB)

(MB) R4013513-3 12/16/23 11:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

Method Blank (MB)

(MB) R4013513-3 12/16/23 11:27

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*110*			*75.0-131*
(S) 4-Bromofluorobenzene	*89.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*89.0*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4013513-1 12/16/23 09:48 • (LCSD) R4013513-2 12/16/23 10:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.607	0.556	97.1	89.0	10.0-160			8.77	31
Acrylonitrile	0.625	0.744	0.688	119	110	45.0-153			7.82	22
Benzene	0.125	0.116	0.117	92.8	93.6	70.0-123			0.858	20
Bromobenzene	0.125	0.131	0.134	105	107	73.0-121			2.26	20
Bromodichloromethane	0.125	0.122	0.122	97.6	97.6	73.0-121			0.000	20
Bromoform	0.125	0.118	0.123	94.4	98.4	64.0-132			4.15	20
Bromomethane	0.125	0.0925	0.0800	74.0	64.0	56.0-147			14.5	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4013513-1 12/16/23 09:48 • (LCSD) R4013513-2 12/16/23 10:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
n-Butylbenzene	0.125	0.102	0.0959	81.6	76.7	68.0-135			6.16	20
sec-Butylbenzene	0.125	0.126	0.115	101	92.0	74.0-130			9.13	20
tert-Butylbenzene	0.125	0.128	0.120	102	96.0	75.0-127			6.45	20
Carbon tetrachloride	0.125	0.135	0.131	108	105	66.0-128			3.01	20
Chlorobenzene	0.125	0.125	0.124	100	99.2	76.0-128			0.803	20
Chlorodibromomethane	0.125	0.130	0.126	104	101	74.0-127			3.12	20
Chloroethane	0.125	0.109	0.104	87.2	83.2	61.0-134			4.69	20
Chloroform	0.125	0.114	0.112	91.2	89.6	72.0-123			1.77	20
Chloromethane	0.125	0.115	0.114	92.0	91.2	51.0-138			0.873	20
2-Chlorotoluene	0.125	0.142	0.145	114	116	75.0-124			2.09	20
4-Chlorotoluene	0.125	0.128	0.125	102	100	75.0-124			2.37	20
1,2-Dibromo-3-Chloropropane	0.125	0.124	0.120	99.2	96.0	59.0-130			3.28	20
1,2-Dibromoethane	0.125	0.135	0.133	108	106	74.0-128			1.49	20
Dibromomethane	0.125	0.121	0.119	96.8	95.2	75.0-122			1.67	20
1,2-Dichlorobenzene	0.125	0.123	0.117	98.4	93.6	76.0-124			5.00	20
1,3-Dichlorobenzene	0.125	0.130	0.119	104	95.2	76.0-125			8.84	20
1,4-Dichlorobenzene	0.125	0.119	0.120	95.2	96.0	77.0-121			0.837	20
Dichlorodifluoromethane	0.125	0.113	0.106	90.4	84.8	43.0-156			6.39	20
1,1-Dichloroethane	0.125	0.111	0.113	88.8	90.4	70.0-127			1.79	20
1,2-Dichloroethane	0.125	0.116	0.112	92.8	89.6	65.0-131			3.51	20
1,1-Dichloroethene	0.125	0.104	0.0976	83.2	78.1	65.0-131			6.35	20
cis-1,2-Dichloroethene	0.125	0.109	0.106	87.2	84.8	73.0-125			2.79	20
trans-1,2-Dichloroethene	0.125	0.112	0.107	89.6	85.6	71.0-125			4.57	20
1,2-Dichloropropane	0.125	0.136	0.127	109	102	74.0-125			6.84	20
1,1-Dichloropropene	0.125	0.126	0.123	101	98.4	73.0-125			2.41	20
1,3-Dichloropropane	0.125	0.143	0.141	114	113	80.0-125			1.41	20
cis-1,3-Dichloropropene	0.125	0.145	0.146	116	117	76.0-127			0.687	20
trans-1,3-Dichloropropene	0.125	0.151	0.147	121	118	73.0-127			2.68	20
2,2-Dichloropropane	0.125	0.119	0.105	95.2	84.0	59.0-135			12.5	20
Di-isopropyl ether	0.125	0.109	0.107	87.2	85.6	60.0-136			1.85	20
Ethylbenzene	0.125	0.124	0.117	99.2	93.6	74.0-126			5.81	20
Hexachloro-1,3-butadiene	0.125	0.113	0.102	90.4	81.6	57.0-150			10.2	20
Isopropylbenzene	0.125	0.119	0.113	95.2	90.4	72.0-127			5.17	20
p-Isopropyltoluene	0.125	0.131	0.124	105	99.2	72.0-133			5.49	20
2-Butanone (MEK)	0.625	0.882	0.889	141	142	30.0-160			0.791	24
Methylene Chloride	0.125	0.114	0.111	91.2	88.8	68.0-123			2.67	20
4-Methyl-2-pentanone (MIBK)	0.625	0.720	0.716	115	115	56.0-143			0.557	20
Methyl tert-butyl ether	0.125	0.119	0.114	95.2	91.2	66.0-132			4.29	20
Naphthalene	0.125	0.0872	0.0857	69.8	68.6	59.0-130			1.74	20
n-Propylbenzene	0.125	0.133	0.125	106	100	74.0-126			6.20	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4013513-1 12/16/23 09:48 • (LCSD) R4013513-2 12/16/23 10:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Styrene	0.125	0.114	0.111	91.2	88.8	72.0-127			2.67	20
1,1,1,2-Tetrachloroethane	0.125	0.123	0.120	98.4	96.0	74.0-129			2.47	20
1,1,2,2-Tetrachloroethane	0.125	0.149	0.140	119	112	68.0-128			6.23	20
Tetrachloroethene	0.125	0.142	0.130	114	104	70.0-136			8.82	20
Toluene	0.125	0.139	0.133	111	106	75.0-121			4.41	20
1,2,3-Trichlorobenzene	0.125	0.104	0.102	83.2	81.6	59.0-139			1.94	20
1,2,4-Trichlorobenzene	0.125	0.0965	0.101	77.2	80.8	62.0-137			4.56	20
1,1,1-Trichloroethane	0.125	0.130	0.123	104	98.4	69.0-126			5.53	20
1,1,2-Trichloroethane	0.125	0.147	0.146	118	117	78.0-123			0.683	20
Trichloroethene	0.125	0.127	0.120	102	96.0	76.0-126			5.67	20
Trichlorofluoromethane	0.125	0.103	0.0971	82.4	77.7	61.0-142			5.90	20
1,2,3-Trichloropropane	0.125	0.139	0.150	111	120	67.0-129			7.61	20
1,2,4-Trimethylbenzene	0.125	0.129	0.120	103	96.0	70.0-126			7.23	20
1,3,5-Trimethylbenzene	0.125	0.131	0.124	105	99.2	73.0-127			5.49	20
Vinyl chloride	0.125	0.0951	0.0909	76.1	72.7	63.0-134			4.52	20
Xylenes, Total	0.375	0.363	0.355	96.8	94.7	72.0-127			2.23	20
(S) Toluene-d8				*108*	*106*	*75.0-131*				
(S) 4-Bromofluorobenzene				*92.6*	*89.6*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*92.9*	*88.8*	*70.0-130*				

Method Blank (MB)

(MB) R4013981-3 12/17/23 11:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

Method Blank (MB)

(MB) R4013981-3 12/17/23 11:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	0.0114	J	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*100*			*75.0-131*
(S) 4-Bromofluorobenzene	*104*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4013981-1 12/17/23 08:06 • (LCSD) R4013981-2 12/17/23 08:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.538	0.492	86.1	78.7	10.0-160			8.93	31
Acrylonitrile	0.625	0.714	0.665	114	106	45.0-153			7.11	22
Benzene	0.125	0.147	0.139	118	111	70.0-123			5.59	20
Bromobenzene	0.125	0.136	0.131	109	105	73.0-121			3.75	20
Bromodichloromethane	0.125	0.146	0.140	117	112	73.0-121			4.20	20
Bromoform	0.125	0.141	0.133	113	106	64.0-132			5.84	20
Bromomethane	0.125	0.141	0.135	113	108	56.0-147			4.35	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4013981-1 12/17/23 08:06 • (LCSD) R4013981-2 12/17/23 08:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
n-Butylbenzene	0.125	0.122	0.109	97.6	87.2	68.0-135			11.3	20
sec-Butylbenzene	0.125	0.127	0.118	102	94.4	74.0-130			7.35	20
tert-Butylbenzene	0.125	0.124	0.114	99.2	91.2	75.0-127			8.40	20
Carbon tetrachloride	0.125	0.174	0.166	139	133	66.0-128	J4	J4	4.71	20
Chlorobenzene	0.125	0.129	0.117	103	93.6	76.0-128			9.76	20
Chlorodibromomethane	0.125	0.134	0.121	107	96.8	74.0-127			10.2	20
Chloroethane	0.125	0.157	0.154	126	123	61.0-134			1.93	20
Chloroform	0.125	0.146	0.137	117	110	72.0-123			6.36	20
Chloromethane	0.125	0.164	0.153	131	122	51.0-138			6.94	20
2-Chlorotoluene	0.125	0.118	0.108	94.4	86.4	75.0-124			8.85	20
4-Chlorotoluene	0.125	0.129	0.123	103	98.4	75.0-124			4.76	20
1,2-Dibromo-3-Chloropropane	0.125	0.147	0.127	118	102	59.0-130			14.6	20
1,2-Dibromoethane	0.125	0.137	0.132	110	106	74.0-128			3.72	20
Dibromomethane	0.125	0.143	0.129	114	103	75.0-122			10.3	20
1,2-Dichlorobenzene	0.125	0.127	0.120	102	96.0	76.0-124			5.67	20
1,3-Dichlorobenzene	0.125	0.135	0.126	108	101	76.0-125			6.90	20
1,4-Dichlorobenzene	0.125	0.124	0.118	99.2	94.4	77.0-121			4.96	20
Dichlorodifluoromethane	0.125	0.188	0.186	150	149	43.0-156			1.07	20
1,1-Dichloroethane	0.125	0.144	0.138	115	110	70.0-127			4.26	20
1,2-Dichloroethane	0.125	0.140	0.145	112	116	65.0-131			3.51	20
1,1-Dichloroethene	0.125	0.162	0.148	130	118	65.0-131			9.03	20
cis-1,2-Dichloroethene	0.125	0.142	0.130	114	104	73.0-125			8.82	20
trans-1,2-Dichloroethene	0.125	0.134	0.123	107	98.4	71.0-125			8.56	20
1,2-Dichloropropane	0.125	0.145	0.141	116	113	74.0-125			2.80	20
1,1-Dichloropropene	0.125	0.152	0.148	122	118	73.0-125			2.67	20
1,3-Dichloropropane	0.125	0.140	0.132	112	106	80.0-125			5.88	20
cis-1,3-Dichloropropene	0.125	0.145	0.138	116	110	76.0-127			4.95	20
trans-1,3-Dichloropropene	0.125	0.138	0.120	110	96.0	73.0-127			14.0	20
2,2-Dichloropropane	0.125	0.155	0.152	124	122	59.0-135			1.95	20
Di-isopropyl ether	0.125	0.155	0.145	124	116	60.0-136			6.67	20
Ethylbenzene	0.125	0.128	0.118	102	94.4	74.0-126			8.13	20
Hexachloro-1,3-butadiene	0.125	0.137	0.134	110	107	57.0-150			2.21	20
Isopropylbenzene	0.125	0.124	0.113	99.2	90.4	72.0-127			9.28	20
p-Isopropyltoluene	0.125	0.122	0.115	97.6	92.0	72.0-133			5.91	20
2-Butanone (MEK)	0.625	0.748	0.713	120	114	30.0-160			4.79	24
Methylene Chloride	0.125	0.135	0.130	108	104	68.0-123			3.77	20
4-Methyl-2-pentanone (MIBK)	0.625	0.671	0.631	107	101	56.0-143			6.14	20
Methyl tert-butyl ether	0.125	0.131	0.128	105	102	66.0-132			2.32	20
Naphthalene	0.125	0.135	0.136	108	109	59.0-130			0.738	20
n-Propylbenzene	0.125	0.129	0.120	103	96.0	74.0-126			7.23	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4013981-1 12/17/23 08:06 • (LCSD) R4013981-2 12/17/23 08:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Styrene	0.125	0.115	0.105	92.0	84.0	72.0-127			9.09	20
1,1,1,2-Tetrachloroethane	0.125	0.120	0.110	96.0	88.0	74.0-129			8.70	20
1,1,2,2-Tetrachloroethane	0.125	0.123	0.115	98.4	92.0	68.0-128			6.72	20
Tetrachloroethene	0.125	0.147	0.132	118	106	70.0-136			10.8	20
Toluene	0.125	0.135	0.122	108	97.6	75.0-121			10.1	20
1,2,3-Trichlorobenzene	0.125	0.134	0.132	107	106	59.0-139			1.50	20
1,2,4-Trichlorobenzene	0.125	0.117	0.117	93.6	93.6	62.0-137			0.000	20
1,1,1-Trichloroethane	0.125	0.164	0.146	131	117	69.0-126	J4		11.6	20
1,1,2-Trichloroethane	0.125	0.134	0.123	107	98.4	78.0-123			8.56	20
Trichloroethene	0.125	0.147	0.140	118	112	76.0-126			4.88	20
Trichlorofluoromethane	0.125	0.155	0.154	124	123	61.0-142			0.647	20
1,2,3-Trichloropropane	0.125	0.138	0.125	110	100	67.0-129			9.89	20
1,2,4-Trimethylbenzene	0.125	0.122	0.112	97.6	89.6	70.0-126			8.55	20
1,3,5-Trimethylbenzene	0.125	0.121	0.110	96.8	88.0	73.0-127			9.52	20
Vinyl chloride	0.125	0.163	0.151	130	121	63.0-134			7.64	20
Xylenes, Total	0.375	0.384	0.339	102	90.4	72.0-127			12.4	20
(S) Toluene-d8				*99.2*	*97.9*	*75.0-131*				
(S) 4-Bromofluorobenzene				*105*	*105*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*113*	*116*	*70.0-130*				

Method Blank (MB)

(MB) R4014108-3 12/17/23 12:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

Method Blank (MB)

(MB) R4014108-3 12/17/23 12:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*99.7*			*75.0-131*
(S) 4-Bromofluorobenzene	*99.9*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*88.6*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4014108-1 12/17/23 10:32 • (LCSD) R4014108-2 12/17/23 10:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.396	0.421	63.4	67.4	10.0-160			6.12	31
Acrylonitrile	0.625	0.804	0.799	129	128	45.0-153			0.624	22
Benzene	0.125	0.121	0.124	96.8	99.2	70.0-123			2.45	20
Bromobenzene	0.125	0.126	0.129	101	103	73.0-121			2.35	20
Bromodichloromethane	0.125	0.106	0.109	84.8	87.2	73.0-121			2.79	20
Bromoform	0.125	0.118	0.119	94.4	95.2	64.0-132			0.844	20
Bromomethane	0.125	0.104	0.101	83.2	80.8	56.0-147			2.93	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4014108-1 12/17/23 10:32 • (LCSD) R4014108-2 12/17/23 10:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
n-Butylbenzene	0.125	0.107	0.112	85.6	89.6	68.0-135			4.57	20
sec-Butylbenzene	0.125	0.113	0.116	90.4	92.8	74.0-130			2.62	20
tert-Butylbenzene	0.125	0.119	0.123	95.2	98.4	75.0-127			3.31	20
Carbon tetrachloride	0.125	0.110	0.110	88.0	88.0	66.0-128			0.000	20
Chlorobenzene	0.125	0.115	0.116	92.0	92.8	76.0-128			0.866	20
Chlorodibromomethane	0.125	0.112	0.114	89.6	91.2	74.0-127			1.77	20
Chloroethane	0.125	0.118	0.125	94.4	100	61.0-134			5.76	20
Chloroform	0.125	0.108	0.108	86.4	86.4	72.0-123			0.000	20
Chloromethane	0.125	0.138	0.137	110	110	51.0-138			0.727	20
2-Chlorotoluene	0.125	0.121	0.123	96.8	98.4	75.0-124			1.64	20
4-Chlorotoluene	0.125	0.120	0.120	96.0	96.0	75.0-124			0.000	20
1,2-Dibromo-3-Chloropropane	0.125	0.0828	0.0859	66.2	68.7	59.0-130			3.68	20
1,2-Dibromoethane	0.125	0.114	0.121	91.2	96.8	74.0-128			5.96	20
Dibromomethane	0.125	0.115	0.116	92.0	92.8	75.0-122			0.866	20
1,2-Dichlorobenzene	0.125	0.111	0.112	88.8	89.6	76.0-124			0.897	20
1,3-Dichlorobenzene	0.125	0.116	0.120	92.8	96.0	76.0-125			3.39	20
1,4-Dichlorobenzene	0.125	0.109	0.114	87.2	91.2	77.0-121			4.48	20
Dichlorodifluoromethane	0.125	0.130	0.138	104	110	43.0-156			5.97	20
1,1-Dichloroethane	0.125	0.124	0.128	99.2	102	70.0-127			3.17	20
1,2-Dichloroethane	0.125	0.105	0.108	84.0	86.4	65.0-131			2.82	20
1,1-Dichloroethene	0.125	0.115	0.120	92.0	96.0	65.0-131			4.26	20
cis-1,2-Dichloroethene	0.125	0.116	0.123	92.8	98.4	73.0-125			5.86	20
trans-1,2-Dichloroethene	0.125	0.120	0.123	96.0	98.4	71.0-125			2.47	20
1,2-Dichloropropane	0.125	0.138	0.141	110	113	74.0-125			2.15	20
1,1-Dichloropropene	0.125	0.116	0.117	92.8	93.6	73.0-125			0.858	20
1,3-Dichloropropane	0.125	0.120	0.122	96.0	97.6	80.0-125			1.65	20
cis-1,3-Dichloropropene	0.125	0.124	0.130	99.2	104	76.0-127			4.72	20
trans-1,3-Dichloropropene	0.125	0.114	0.118	91.2	94.4	73.0-127			3.45	20
2,2-Dichloropropane	0.125	0.119	0.116	95.2	92.8	59.0-135			2.55	20
Di-isopropyl ether	0.125	0.142	0.143	114	114	60.0-136			0.702	20
Ethylbenzene	0.125	0.111	0.118	88.8	94.4	74.0-126			6.11	20
Hexachloro-1,3-butadiene	0.125	0.103	0.106	82.4	84.8	57.0-150			2.87	20
Isopropylbenzene	0.125	0.107	0.111	85.6	88.8	72.0-127			3.67	20
p-Isopropyltoluene	0.125	0.109	0.114	87.2	91.2	72.0-133			4.48	20
2-Butanone (MEK)	0.625	0.784	0.823	125	132	30.0-160			4.85	24
Methylene Chloride	0.125	0.115	0.116	92.0	92.8	68.0-123			0.866	20
4-Methyl-2-pentanone (MIBK)	0.625	0.700	0.705	112	113	56.0-143			0.712	20
Methyl tert-butyl ether	0.125	0.109	0.104	87.2	83.2	66.0-132			4.69	20
Naphthalene	0.125	0.0684	0.0717	54.7	57.4	59.0-130	J4	J4	4.71	20
n-Propylbenzene	0.125	0.120	0.123	96.0	98.4	74.0-126			2.47	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4014108-1 12/17/23 10:32 • (LCSD) R4014108-2 12/17/23 10:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Styrene	0.125	0.110	0.114	88.0	91.2	72.0-127			3.57	20
1,1,1,2-Tetrachloroethane	0.125	0.101	0.104	80.8	83.2	74.0-129			2.93	20
1,1,2,2-Tetrachloroethane	0.125	0.0994	0.0999	79.5	79.9	68.0-128			0.502	20
Tetrachloroethene	0.125	0.122	0.125	97.6	100	70.0-136			2.43	20
Toluene	0.125	0.116	0.117	92.8	93.6	75.0-121			0.858	20
1,2,3-Trichlorobenzene	0.125	0.0756	0.0804	60.5	64.3	59.0-139			6.15	20
1,2,4-Trichlorobenzene	0.125	0.0908	0.0981	72.6	78.5	62.0-137			7.73	20
1,1,1-Trichloroethane	0.125	0.105	0.103	84.0	82.4	69.0-126			1.92	20
1,1,2-Trichloroethane	0.125	0.110	0.111	88.0	88.8	78.0-123			0.905	20
Trichloroethene	0.125	0.126	0.127	101	102	76.0-126			0.791	20
Trichlorofluoromethane	0.125	0.135	0.137	108	110	61.0-142			1.47	20
1,2,3-Trichloropropane	0.125	0.113	0.112	90.4	89.6	67.0-129			0.889	20
1,2,4-Trimethylbenzene	0.125	0.108	0.111	86.4	88.8	70.0-126			2.74	20
1,3,5-Trimethylbenzene	0.125	0.116	0.117	92.8	93.6	73.0-127			0.858	20
Vinyl chloride	0.125	0.123	0.125	98.4	100	63.0-134			1.61	20
Xylenes, Total	0.375	0.351	0.355	93.6	94.7	72.0-127			1.13	20
(S) Toluene-d8				*98.9*	*99.1*	*75.0-131*				
(S) 4-Bromofluorobenzene				*96.2*	*97.8*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*91.4*	*92.5*	*70.0-130*				

Method Blank (MB)

(MB) R4014007-2 12/16/23 07:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00
Hexachloro-1,3-butadiene	U		0.337	1.00

Method Blank (MB)

(MB) R4014007-2 12/16/23 07:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*98.4*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4014007-1 12/16/23 06:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	32.6	130	19.0-160	
Acrolein	25.0	32.2	129	10.0-160	
Acrylonitrile	25.0	15.3	61.2	55.0-149	
Benzene	5.00	4.48	89.6	70.0-123	
Bromobenzene	5.00	4.63	92.6	73.0-121	
Bromodichloromethane	5.00	5.21	104	75.0-120	

Laboratory Control Sample (LCS)

(LCS) R4014007-1 12/16/23 06:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	5.00	4.40	88.0	68.0-132	
Bromomethane	5.00	4.15	83.0	10.0-160	
n-Butylbenzene	5.00	3.88	77.6	73.0-125	
sec-Butylbenzene	5.00	4.35	87.0	75.0-125	
tert-Butylbenzene	5.00	4.66	93.2	76.0-124	
Carbon tetrachloride	5.00	4.57	91.4	68.0-126	
Chlorobenzene	5.00	4.83	96.6	80.0-121	
Chlorodibromomethane	5.00	4.96	99.2	77.0-125	
Chloroethane	5.00	5.28	106	47.0-150	
Chloroform	5.00	5.23	105	73.0-120	
Chloromethane	5.00	4.83	96.6	41.0-142	
2-Chlorotoluene	5.00	4.68	93.6	76.0-123	
4-Chlorotoluene	5.00	4.20	84.0	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.74	94.8	58.0-134	
1,2-Dibromoethane	5.00	4.96	99.2	80.0-122	
Dibromomethane	5.00	5.11	102	80.0-120	
1,2-Dichlorobenzene	5.00	4.66	93.2	79.0-121	
1,3-Dichlorobenzene	5.00	4.53	90.6	79.0-120	
1,4-Dichlorobenzene	5.00	4.87	97.4	79.0-120	
Dichlorodifluoromethane	5.00	6.21	124	51.0-149	
1,1-Dichloroethane	5.00	5.16	103	70.0-126	
1,2-Dichloroethane	5.00	5.82	116	70.0-128	
1,1-Dichloroethene	5.00	5.33	107	71.0-124	
cis-1,2-Dichloroethene	5.00	4.77	95.4	73.0-120	
trans-1,2-Dichloroethene	5.00	4.63	92.6	73.0-120	
1,2-Dichloropropane	5.00	4.57	91.4	77.0-125	
1,1-Dichloropropene	5.00	4.57	91.4	74.0-126	
1,3-Dichloropropane	5.00	4.91	98.2	80.0-120	
cis-1,3-Dichloropropene	5.00	4.70	94.0	80.0-123	
trans-1,3-Dichloropropene	5.00	4.79	95.8	78.0-124	
2,2-Dichloropropane	5.00	4.03	80.6	58.0-130	
Di-isopropyl ether	5.00	4.18	83.6	58.0-138	
Ethylbenzene	5.00	4.54	90.8	79.0-123	
Hexachloro-1,3-butadiene	5.00	4.44	88.8	54.0-138	
Isopropylbenzene	5.00	4.43	88.6	76.0-127	
p-Isopropyltoluene	5.00	4.37	87.4	76.0-125	
2-Butanone (MEK)	25.0	20.7	82.8	44.0-160	
Methylene Chloride	5.00	6.37	127	67.0-120	J4
4-Methyl-2-pentanone (MIBK)	25.0	21.8	87.2	68.0-142	
Methyl tert-butyl ether	5.00	4.49	89.8	68.0-125	

Laboratory Control Sample (LCS)

(LCS) R4014007-1 12/16/23 06:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	5.00	3.78	75.6	54.0-135	
n-Propylbenzene	5.00	4.46	89.2	77.0-124	
Styrene	5.00	4.67	93.4	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	5.16	103	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	4.36	87.2	65.0-130	
Tetrachloroethene	5.00	5.05	101	72.0-132	
Toluene	5.00	4.76	95.2	79.0-120	
1,2,3-Trichlorobenzene	5.00	3.85	77.0	50.0-138	
1,2,4-Trichlorobenzene	5.00	3.86	77.2	57.0-137	
1,1,1-Trichloroethane	5.00	5.21	104	73.0-124	
1,1,2-Trichloroethane	5.00	4.73	94.6	80.0-120	
Trichloroethene	5.00	4.89	97.8	78.0-124	
Trichlorofluoromethane	5.00	5.74	115	59.0-147	
1,2,3-Trichloropropane	5.00	5.09	102	73.0-130	
1,2,4-Trimethylbenzene	5.00	4.53	90.6	76.0-121	
1,3,5-Trimethylbenzene	5.00	4.75	95.0	76.0-122	
Vinyl chloride	5.00	4.56	91.2	67.0-131	
Xylenes, Total	15.0	13.8	92.0	79.0-123	
(S) Toluene-d8			*102*	*80.0-120*	
(S) 4-Bromofluorobenzene			*99.2*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*118*	*70.0-130*	

L1687343-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1687343-02 12/16/23 16:03 • (MS) R4014007-3 12/16/23 16:22 • (MSD) R4014007-4 12/16/23 16:41

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	ND	ND	ND	79.2	73.2	1	10.0-160			7.87	35
Acrolein	25.0	ND	212	225	848	900	1	10.0-160	J5	J5	5.95	39
Acrylonitrile	25.0	ND	16.5	19.1	66.0	76.4	1	21.0-160			14.6	32
Benzene	5.00	ND	4.26	4.52	85.2	90.4	1	17.0-158			5.92	27
Bromobenzene	5.00	ND	4.90	4.61	98.0	92.2	1	30.0-149			6.10	28
Bromodichloromethane	5.00	ND	4.70	4.80	94.0	96.0	1	31.0-150			2.11	27
Bromoform	5.00	ND	5.36	5.16	107	103	1	29.0-150			3.80	29
Bromomethane	5.00	ND	ND	ND	74.2	79.2	1	10.0-160			6.52	38
n-Butylbenzene	5.00	ND	4.22	4.65	84.4	93.0	1	31.0-150			9.70	30
sec-Butylbenzene	5.00	ND	4.61	4.49	92.2	89.8	1	33.0-155			2.64	29
tert-Butylbenzene	5.00	ND	4.85	4.80	97.0	96.0	1	34.0-153			1.04	28
Carbon tetrachloride	5.00	ND	4.99	5.03	99.8	101	1	23.0-159			0.798	28

L1687343-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1687343-02 12/16/23 16:03 • (MS) R4014007-3 12/16/23 16:22 • (MSD) R4014007-4 12/16/23 16:41

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chlorobenzene	5.00	ND	4.77	4.80	95.4	96.0	1	33.0-152			0.627	27
Chlorodibromomethane	5.00	ND	5.34	5.24	107	105	1	37.0-149			1.89	27
Chloroethane	5.00	ND	ND	ND	80.6	83.8	1	10.0-160			3.89	30
Chloroform	5.00	ND	ND	ND	94.0	96.2	1	29.0-154			2.31	28
Chloromethane	5.00	ND	3.70	3.76	74.0	75.2	1	10.0-160			1.61	29
2-Chlorotoluene	5.00	ND	4.97	4.89	99.4	97.8	1	32.0-153			1.62	28
4-Chlorotoluene	5.00	ND	4.85	4.98	97.0	99.6	1	32.0-150			2.64	28
1,2-Dibromo-3-Chloropropane	5.00	ND	5.40	5.49	108	110	1	22.0-151			1.65	34
1,2-Dibromoethane	5.00	ND	4.83	5.27	96.6	105	1	34.0-147			8.71	27
Dibromomethane	5.00	ND	5.07	5.27	101	105	1	30.0-151			3.87	27
1,2-Dichlorobenzene	5.00	ND	4.73	4.58	94.6	91.6	1	34.0-149			3.22	28
1,3-Dichlorobenzene	5.00	ND	4.92	4.64	98.4	92.8	1	36.0-146			5.86	27
1,4-Dichlorobenzene	5.00	ND	4.76	4.49	95.2	89.8	1	35.0-142			5.84	27
Dichlorodifluoromethane	5.00	ND	5.71	5.53	114	111	1	10.0-160			3.20	29
1,1-Dichloroethane	5.00	ND	4.44	4.71	88.8	94.2	1	25.0-158			5.90	27
1,2-Dichloroethane	5.00	ND	5.16	5.67	103	113	1	29.0-151			9.42	27
1,1-Dichloroethene	5.00	ND	4.30	4.50	86.0	90.0	1	11.0-160			4.55	29
cis-1,2-Dichloroethene	5.00	ND	4.62	4.43	92.4	88.6	1	10.0-160			4.20	27
trans-1,2-Dichloroethene	5.00	ND	4.34	4.39	86.8	87.8	1	17.0-153			1.15	27
1,2-Dichloropropane	5.00	ND	4.62	4.51	92.4	90.2	1	30.0-156			2.41	27
1,1-Dichloropropene	5.00	ND	4.42	4.62	88.4	92.4	1	25.0-158			4.42	27
1,3-Dichloropropane	5.00	ND	4.96	4.78	99.2	95.6	1	38.0-147			3.70	27
cis-1,3-Dichloropropene	5.00	ND	4.38	4.44	87.6	88.8	1	34.0-149			1.36	28
trans-1,3-Dichloropropene	5.00	ND	4.92	4.53	98.4	90.6	1	32.0-149			8.25	28
2,2-Dichloropropane	5.00	ND	5.17	5.25	103	105	1	24.0-152			1.54	29
Di-isopropyl ether	5.00	ND	4.08	4.22	81.6	84.4	1	21.0-160			3.37	28
Ethylbenzene	5.00	ND	4.72	4.75	94.4	95.0	1	30.0-155			0.634	27
Hexachloro-1,3-butadiene	5.00	ND	4.92	4.12	98.4	82.4	1	20.0-154			17.7	34
Isopropylbenzene	5.00	ND	4.51	4.60	90.2	92.0	1	28.0-157			1.98	27
p-Isopropyltoluene	5.00	ND	4.49	4.32	89.8	86.4	1	30.0-154			3.86	29
2-Butanone (MEK)	25.0	ND	19.2	15.8	76.8	63.2	1	10.0-160			19.4	32
Methylene Chloride	5.00	ND	ND	ND	84.6	88.0	1	23.0-144			3.94	28
4-Methyl-2-pentanone (MIBK)	25.0	ND	25.4	24.8	102	99.2	1	29.0-160			2.39	29
Methyl tert-butyl ether	5.00	ND	4.67	4.85	93.4	97.0	1	28.0-150			3.78	29
Naphthalene	5.00	ND	ND	ND	82.6	81.0	1	12.0-156			1.96	35
n-Propylbenzene	5.00	ND	4.81	4.47	96.2	89.4	1	31.0-154			7.33	28
Styrene	5.00	ND	4.38	4.81	87.6	96.2	1	33.0-155			9.36	28
1,1,1,2-Tetrachloroethane	5.00	ND	5.11	4.82	102	96.4	1	36.0-151			5.84	29
1,1,2,2-Tetrachloroethane	5.00	ND	5.64	5.21	113	104	1	33.0-150			7.93	28
Tetrachloroethene	5.00	ND	4.85	4.66	97.0	93.2	1	10.0-160			4.00	27

L1687343-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1687343-02 12/16/23 16:03 • (MS) R4014007-3 12/16/23 16:22 • (MSD) R4014007-4 12/16/23 16:41

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Toluene	5.00	ND	4.62	4.76	92.4	95.2	1	26.0-154			2.99	28
1,2,3-Trichlorobenzene	5.00	ND	4.21	3.78	84.2	75.6	1	17.0-150			10.8	36
1,2,4-Trichlorobenzene	5.00	ND	3.72	3.68	74.4	73.6	1	24.0-150			1.08	33
1,1,1-Trichloroethane	5.00	ND	5.17	5.07	103	101	1	23.0-160			1.95	28
1,1,2-Trichloroethane	5.00	ND	4.99	5.05	99.8	101	1	35.0-147			1.20	27
Trichloroethene	5.00	ND	4.24	4.60	84.8	92.0	1	10.0-160			8.14	25
Trichlorofluoromethane	5.00	ND	5.09	5.05	102	101	1	17.0-160			0.789	31
1,2,3-Trichloropropane	5.00	ND	6.34	5.29	127	106	1	34.0-151			18.1	29
1,2,4-Trimethylbenzene	5.00	ND	4.82	4.52	96.4	90.4	1	26.0-154			6.42	27
1,3,5-Trimethylbenzene	5.00	ND	4.64	4.52	92.8	90.4	1	28.0-153			2.62	27
Vinyl chloride	5.00	ND	3.84	3.81	76.8	76.2	1	10.0-160			0.784	27
Xylenes, Total	15.0	ND	14.0	13.5	93.3	90.0	1	29.0-154			3.64	28
(S) Toluene-d8					*102*	*104*		*80.0-120*				
(S) 4-Bromofluorobenzene					*100*	*101*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*121*	*122*		*70.0-130*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

S&ME Inc. - Raleigh NC

3201 Spring Forest Road
Raleigh, NC 27616

Billing Information:
Accounts Payable
3201 Spring Forest Rd.
(smeinc_invoice@concursolution

Report to: Mr. Jerry Paul
Email To: jpaul@smeinc.com

Project Description: East Durham Park
City/State Collected: Durham, NC
Please Circle: PT MT CT (ET)

Phone: 919-872-2660
Client Project #
Lab Project # SMERLNC-EASTDURHAM

Collected by (print): Chelsea Parra
Site/Facility ID #
P.O. #

Collected by (signature): CP
Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day
Date Results Needed
Quote #

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PBG 2ozClr-NoPres	SPLP/TCLP HOLD 4ozClr-NoPres	TS 4ozClr-NoPres	V8260 40mlAmb-HCl-Blk	V8260 40mlAmb/MeOH10ml/Syr	Pres Chk	Remarks	Sample # (lab only)
821-SB-01	C	SS	0-1	12/11/23	1100	4	X	X	X		X			-01
821-SB-02		SS	0-1		1115	4	X	X	X		X			-02
821-SB-03		SS	0-1		1140	4	X	X	X		X			-03
821-SB-04		SS	0-1		1200	4	X	X	X		X			-04
821-SB-05		SS	0-1		1220	4	X	X	X		X			-05
821-SB-06		SS	0-1		1250	4	X	X	X		X			-06
821-SB-07		SS	0-1		1340	4	X	X	X		X			-07
821-SB-08		SS	0-1		1400	4	X	X	X		X			-08
Dup-SB		SS	0-1		-	4	X	X	X		X			-09
Trip Blank		~~SS~~ GW	~~0-1~~ CP			~~4~~ 2 CP	~~X~~	~~X~~	~~X~~	X	~~X~~			-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____
Tracking # 7878 3535 2779

Relinquished by : (Signature) CP
Date: 12/11/23 Time: 1630
Received by: (Signature)

Relinquished by : (Signature)
Date: Time:
Received by: (Signature)

Relinquished by : (Signature)
Date: Time:
Received for lab by: (Signature)
Date: 12-12-23 Time: 9:00

Trip Blank Received: Yes / No
2 ~~X~~ (HCl / MeOH) TBR

Temp: °C Bottles Received:
MSA8 1.4+0.1 36

Preservation required by Login: Date/Time

Condition: NCF / (OK)

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1687027
A085
Acctnum: SMERLNC
Template: T243170
Prelogin: P1042523
PM: 034 - Craig Cothron
PB:
Shipped Via: FedEX Ground

ANALYTICAL REPORT

December 19, 2023

S&ME Inc. - Raleigh NC

Sample Delivery Group:	L1687033
Samples Received:	12/12/2023
Project Number:	
Description:	East Durham Park

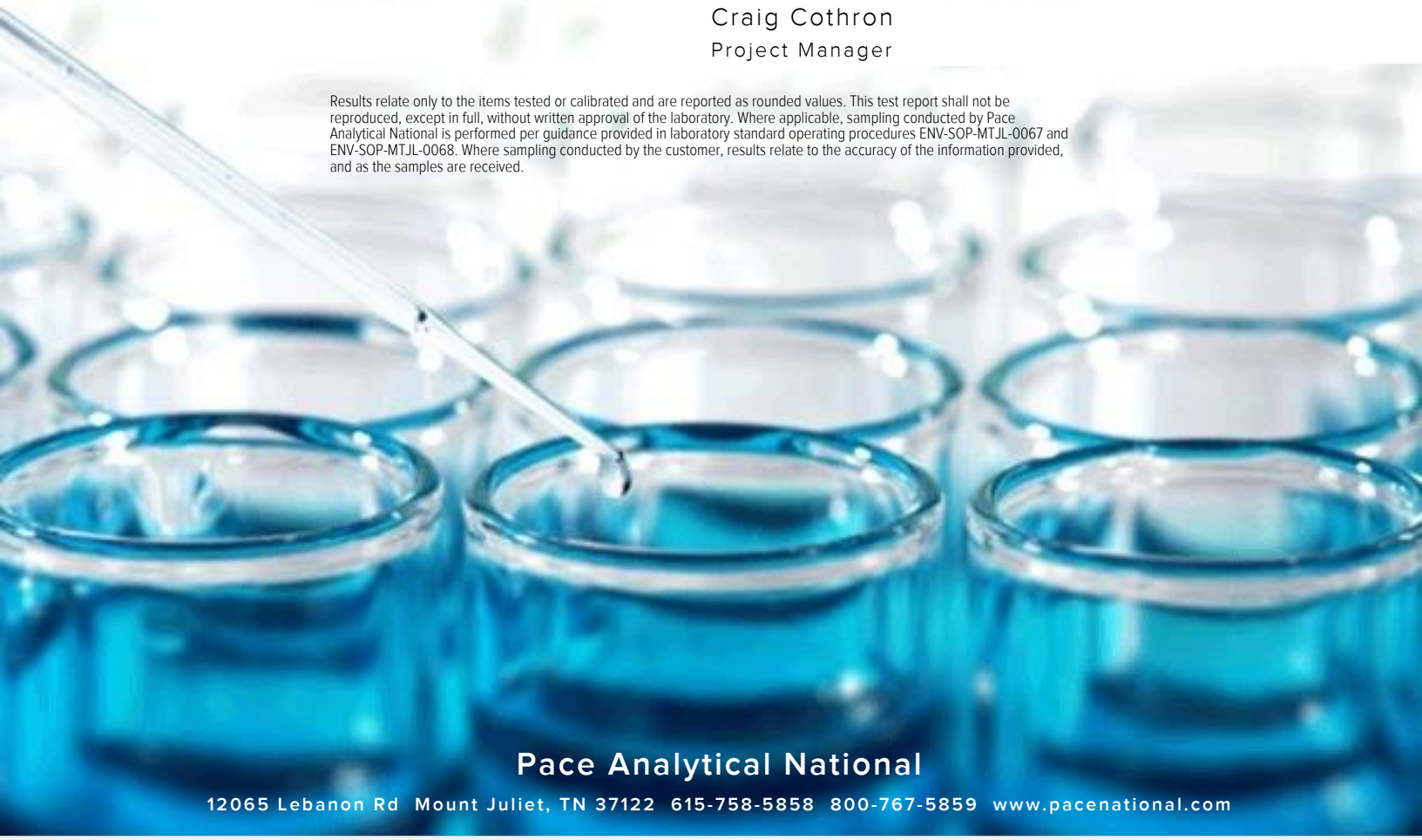
Report To:

Mr. Jerry Paul
3201 Spring Forest Road
Raleigh, NC 27616

Entire Report Reviewed By:

Craig Cothron
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

821-SB-09 L1687033-01 Solid

Collected by: Chelsea Parra | Collected date/time: 12/11/23 14:15 | Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189073	1	12/14/23 08:25	12/14/23 08:32	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2189353	5	12/14/23 14:09	12/15/23 11:35	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191097	1	12/11/23 14:15	12/17/23 12:54	DWR	Mt. Juliet, TN

821-SB-10 L1687033-02 Solid

Collected by: Chelsea Parra | Collected date/time: 12/11/23 14:20 | Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189073	1	12/14/23 08:25	12/14/23 08:32	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2189353	5	12/14/23 14:09	12/15/23 11:38	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191097	1	12/11/23 14:20	12/17/23 13:13	DWR	Mt. Juliet, TN

821-SB-11 L1687033-03 Solid

Collected by: Chelsea Parra | Collected date/time: 12/11/23 14:40 | Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189073	1	12/14/23 08:25	12/14/23 08:32	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2189353	5	12/14/23 14:09	12/15/23 11:42	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191097	1	12/11/23 14:40	12/17/23 13:33	DWR	Mt. Juliet, TN

821-SB-12 L1687033-04 Solid

Collected by: Chelsea Parra | Collected date/time: 12/11/23 14:50 | Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189073	1	12/14/23 08:25	12/14/23 08:32	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2189353	5	12/14/23 14:09	12/15/23 11:45	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191097	1	12/11/23 14:50	12/17/23 13:52	DWR	Mt. Juliet, TN

821-SB-13 L1687033-05 Solid

Collected by: Chelsea Parra | Collected date/time: 12/11/23 15:15 | Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189073	1	12/14/23 08:25	12/14/23 08:32	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2189353	5	12/14/23 14:09	12/15/23 12:16	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191097	1	12/11/23 15:15	12/17/23 14:11	DWR	Mt. Juliet, TN

821-SB-14 L1687033-06 Solid

Collected by: Chelsea Parra | Collected date/time: 12/11/23 15:20 | Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189073	1	12/14/23 08:25	12/14/23 08:32	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2189353	5	12/14/23 14:09	12/15/23 12:19	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191097	1.48	12/11/23 15:20	12/17/23 14:30	DWR	Mt. Juliet, TN

SAMPLE SUMMARY

821-SB-15 L1687033-07 Solid

Collected by: Chelsea Parra
Collected date/time: 12/11/23 15:25
Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189073	1	12/14/23 08:25	12/14/23 08:32	KDW	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2189353	5	12/14/23 14:09	12/15/23 12:23	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191097	1.09	12/11/23 15:25	12/17/23 14:48	DWR	Mt. Juliet, TN

TRIP BLANK L1687033-08 GW

Collected by: Chelsea Parra
Collected date/time: 12/11/23 00:00
Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2190719	1	12/16/23 10:40	12/16/23 10:40	DYW	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Craig Cothron
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	74.6		1	12/14/2023 08:32	WG2189073

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	121		2.68	5	12/15/2023 11:35	WG2189353

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND	C3	0.0843	1	12/17/2023 12:54	WG2191097
Acrylonitrile	ND		0.0211	1	12/17/2023 12:54	WG2191097
Benzene	0.00265		0.00169	1	12/17/2023 12:54	WG2191097
Bromobenzene	ND		0.0211	1	12/17/2023 12:54	WG2191097
Bromodichloromethane	ND		0.00421	1	12/17/2023 12:54	WG2191097
Bromoform	ND		0.0421	1	12/17/2023 12:54	WG2191097
Bromomethane	ND		0.0211	1	12/17/2023 12:54	WG2191097
n-Butylbenzene	ND		0.0211	1	12/17/2023 12:54	WG2191097
sec-Butylbenzene	ND		0.0211	1	12/17/2023 12:54	WG2191097
tert-Butylbenzene	ND		0.00843	1	12/17/2023 12:54	WG2191097
Carbon tetrachloride	ND		0.00843	1	12/17/2023 12:54	WG2191097
Chlorobenzene	ND		0.00421	1	12/17/2023 12:54	WG2191097
Chlorodibromomethane	ND		0.00421	1	12/17/2023 12:54	WG2191097
Chloroethane	ND		0.00843	1	12/17/2023 12:54	WG2191097
Chloroform	ND		0.00421	1	12/17/2023 12:54	WG2191097
Chloromethane	ND		0.0211	1	12/17/2023 12:54	WG2191097
2-Chlorotoluene	ND		0.00421	1	12/17/2023 12:54	WG2191097
4-Chlorotoluene	ND		0.00843	1	12/17/2023 12:54	WG2191097
1,2-Dibromo-3-Chloropropane	ND	C3	0.0421	1	12/17/2023 12:54	WG2191097
1,2-Dibromoethane	ND		0.00421	1	12/17/2023 12:54	WG2191097
Dibromomethane	ND		0.00843	1	12/17/2023 12:54	WG2191097
1,2-Dichlorobenzene	ND		0.00843	1	12/17/2023 12:54	WG2191097
1,3-Dichlorobenzene	ND		0.00843	1	12/17/2023 12:54	WG2191097
1,4-Dichlorobenzene	ND		0.00843	1	12/17/2023 12:54	WG2191097
Dichlorodifluoromethane	ND		0.00843	1	12/17/2023 12:54	WG2191097
1,1-Dichloroethane	ND		0.00421	1	12/17/2023 12:54	WG2191097
1,2-Dichloroethane	ND		0.00421	1	12/17/2023 12:54	WG2191097
1,1-Dichloroethene	ND		0.00421	1	12/17/2023 12:54	WG2191097
cis-1,2-Dichloroethene	ND		0.00421	1	12/17/2023 12:54	WG2191097
trans-1,2-Dichloroethene	ND		0.00843	1	12/17/2023 12:54	WG2191097
1,2-Dichloropropane	ND		0.00843	1	12/17/2023 12:54	WG2191097
1,1-Dichloropropene	ND		0.00421	1	12/17/2023 12:54	WG2191097
1,3-Dichloropropane	ND		0.00843	1	12/17/2023 12:54	WG2191097
cis-1,3-Dichloropropene	ND		0.00421	1	12/17/2023 12:54	WG2191097
trans-1,3-Dichloropropene	ND		0.00843	1	12/17/2023 12:54	WG2191097
2,2-Dichloropropane	ND		0.00421	1	12/17/2023 12:54	WG2191097
Di-isopropyl ether	ND		0.00169	1	12/17/2023 12:54	WG2191097
Ethylbenzene	ND		0.00421	1	12/17/2023 12:54	WG2191097
Hexachloro-1,3-butadiene	ND		0.0421	1	12/17/2023 12:54	WG2191097
Isopropylbenzene	ND		0.00421	1	12/17/2023 12:54	WG2191097
p-Isopropyltoluene	ND		0.00843	1	12/17/2023 12:54	WG2191097
2-Butanone (MEK)	ND		0.169	1	12/17/2023 12:54	WG2191097
Methylene Chloride	ND		0.0421	1	12/17/2023 12:54	WG2191097
4-Methyl-2-pentanone (MIBK)	ND		0.0421	1	12/17/2023 12:54	WG2191097
Methyl tert-butyl ether	ND		0.00169	1	12/17/2023 12:54	WG2191097

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND	C3 J4	0.0211	1	12/17/2023 12:54	WG2191097
n-Propylbenzene	ND		0.00843	1	12/17/2023 12:54	WG2191097
Styrene	ND		0.0211	1	12/17/2023 12:54	WG2191097
1,1,1,2-Tetrachloroethane	ND		0.00421	1	12/17/2023 12:54	WG2191097
1,1,2,2-Tetrachloroethane	ND	C3	0.00421	1	12/17/2023 12:54	WG2191097
Tetrachloroethene	ND		0.00421	1	12/17/2023 12:54	WG2191097
Toluene	0.0148		0.00843	1	12/17/2023 12:54	WG2191097
1,2,3-Trichlorobenzene	ND	C3	0.0211	1	12/17/2023 12:54	WG2191097
1,2,4-Trichlorobenzene	ND	C3	0.0211	1	12/17/2023 12:54	WG2191097
1,1,1-Trichloroethane	ND		0.00421	1	12/17/2023 12:54	WG2191097
1,1,2-Trichloroethane	ND		0.00421	1	12/17/2023 12:54	WG2191097
Trichloroethene	ND		0.00169	1	12/17/2023 12:54	WG2191097
Trichlorofluoromethane	ND		0.00421	1	12/17/2023 12:54	WG2191097
1,2,3-Trichloropropane	ND		0.0211	1	12/17/2023 12:54	WG2191097
1,2,4-Trimethylbenzene	ND		0.00843	1	12/17/2023 12:54	WG2191097
1,3,5-Trimethylbenzene	ND		0.00843	1	12/17/2023 12:54	WG2191097
Vinyl chloride	ND		0.00421	1	12/17/2023 12:54	WG2191097
Xylenes, Total	0.0177		0.0110	1	12/17/2023 12:54	WG2191097
(S) Toluene-d8	*95.3*		*75.0-131*		*12/17/2023 12:54*	WG2191097
(S) 4-Bromofluorobenzene	*103*		*67.0-138*		*12/17/2023 12:54*	WG2191097
(S) 1,2-Dichloroethane-d4	*90.6*		*70.0-130*		*12/17/2023 12:54*	WG2191097

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.7		1	12/14/2023 08:32	WG2189073

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	71.3		2.39	5	12/15/2023 11:38	WG2189353

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND	C3	0.0696	1	12/17/2023 13:13	WG2191097
Acrylonitrile	ND		0.0174	1	12/17/2023 13:13	WG2191097
Benzene	0.00168		0.00139	1	12/17/2023 13:13	WG2191097
Bromobenzene	ND		0.0174	1	12/17/2023 13:13	WG2191097
Bromodichloromethane	ND		0.00348	1	12/17/2023 13:13	WG2191097
Bromoform	ND		0.0348	1	12/17/2023 13:13	WG2191097
Bromomethane	ND		0.0174	1	12/17/2023 13:13	WG2191097
n-Butylbenzene	ND		0.0174	1	12/17/2023 13:13	WG2191097
sec-Butylbenzene	ND		0.0174	1	12/17/2023 13:13	WG2191097
tert-Butylbenzene	ND		0.00696	1	12/17/2023 13:13	WG2191097
Carbon tetrachloride	ND		0.00696	1	12/17/2023 13:13	WG2191097
Chlorobenzene	ND		0.00348	1	12/17/2023 13:13	WG2191097
Chlorodibromomethane	ND		0.00348	1	12/17/2023 13:13	WG2191097
Chloroethane	ND		0.00696	1	12/17/2023 13:13	WG2191097
Chloroform	ND		0.00348	1	12/17/2023 13:13	WG2191097
Chloromethane	ND		0.0174	1	12/17/2023 13:13	WG2191097
2-Chlorotoluene	ND		0.00348	1	12/17/2023 13:13	WG2191097
4-Chlorotoluene	ND		0.00696	1	12/17/2023 13:13	WG2191097
1,2-Dibromo-3-Chloropropane	ND	C3	0.0348	1	12/17/2023 13:13	WG2191097
1,2-Dibromoethane	ND		0.00348	1	12/17/2023 13:13	WG2191097
Dibromomethane	ND		0.00696	1	12/17/2023 13:13	WG2191097
1,2-Dichlorobenzene	ND		0.00696	1	12/17/2023 13:13	WG2191097
1,3-Dichlorobenzene	ND		0.00696	1	12/17/2023 13:13	WG2191097
1,4-Dichlorobenzene	ND		0.00696	1	12/17/2023 13:13	WG2191097
Dichlorodifluoromethane	ND		0.00696	1	12/17/2023 13:13	WG2191097
1,1-Dichloroethane	ND		0.00348	1	12/17/2023 13:13	WG2191097
1,2-Dichloroethane	ND		0.00348	1	12/17/2023 13:13	WG2191097
1,1-Dichloroethene	ND		0.00348	1	12/17/2023 13:13	WG2191097
cis-1,2-Dichloroethene	ND		0.00348	1	12/17/2023 13:13	WG2191097
trans-1,2-Dichloroethene	ND		0.00696	1	12/17/2023 13:13	WG2191097
1,2-Dichloropropane	ND		0.00696	1	12/17/2023 13:13	WG2191097
1,1-Dichloropropene	ND		0.00348	1	12/17/2023 13:13	WG2191097
1,3-Dichloropropane	ND		0.00696	1	12/17/2023 13:13	WG2191097
cis-1,3-Dichloropropene	ND		0.00348	1	12/17/2023 13:13	WG2191097
trans-1,3-Dichloropropene	ND		0.00696	1	12/17/2023 13:13	WG2191097
2,2-Dichloropropane	ND		0.00348	1	12/17/2023 13:13	WG2191097
Di-isopropyl ether	ND		0.00139	1	12/17/2023 13:13	WG2191097
Ethylbenzene	ND		0.00348	1	12/17/2023 13:13	WG2191097
Hexachloro-1,3-butadiene	ND		0.0348	1	12/17/2023 13:13	WG2191097
Isopropylbenzene	ND		0.00348	1	12/17/2023 13:13	WG2191097
p-Isopropyltoluene	0.0115		0.00696	1	12/17/2023 13:13	WG2191097
2-Butanone (MEK)	ND		0.139	1	12/17/2023 13:13	WG2191097
Methylene Chloride	ND		0.0348	1	12/17/2023 13:13	WG2191097
4-Methyl-2-pentanone (MIBK)	ND		0.0348	1	12/17/2023 13:13	WG2191097
Methyl tert-butyl ether	ND		0.00139	1	12/17/2023 13:13	WG2191097

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND	C3 J4	0.0174	1	12/17/2023 13:13	WG2191097
n-Propylbenzene	ND		0.00696	1	12/17/2023 13:13	WG2191097
Styrene	ND		0.0174	1	12/17/2023 13:13	WG2191097
1,1,1,2-Tetrachloroethane	ND		0.00348	1	12/17/2023 13:13	WG2191097
1,1,2,2-Tetrachloroethane	ND	C3	0.00348	1	12/17/2023 13:13	WG2191097
Tetrachloroethene	ND		0.00348	1	12/17/2023 13:13	WG2191097
Toluene	0.0119		0.00696	1	12/17/2023 13:13	WG2191097
1,2,3-Trichlorobenzene	ND	C3	0.0174	1	12/17/2023 13:13	WG2191097
1,2,4-Trichlorobenzene	ND	C3	0.0174	1	12/17/2023 13:13	WG2191097
1,1,1-Trichloroethane	ND		0.00348	1	12/17/2023 13:13	WG2191097
1,1,2-Trichloroethane	ND		0.00348	1	12/17/2023 13:13	WG2191097
Trichloroethene	ND		0.00139	1	12/17/2023 13:13	WG2191097
Trichlorofluoromethane	ND		0.00348	1	12/17/2023 13:13	WG2191097
1,2,3-Trichloropropane	ND		0.0174	1	12/17/2023 13:13	WG2191097
1,2,4-Trimethylbenzene	ND		0.00696	1	12/17/2023 13:13	WG2191097
1,3,5-Trimethylbenzene	ND		0.00696	1	12/17/2023 13:13	WG2191097
Vinyl chloride	ND		0.00348	1	12/17/2023 13:13	WG2191097
Xylenes, Total	0.0163		0.00905	1	12/17/2023 13:13	WG2191097
(S) Toluene-d8	*99.1*		*75.0-131*		*12/17/2023 13:13*	WG2191097
(S) 4-Bromofluorobenzene	*98.2*		*67.0-138*		*12/17/2023 13:13*	WG2191097
(S) 1,2-Dichloroethane-d4	*89.3*		*70.0-130*		*12/17/2023 13:13*	WG2191097

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.9		1	12/14/2023 08:32	WG2189073

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	74.6		2.41	5	12/15/2023 11:42	WG2189353

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND	C3	0.0720	1	12/17/2023 13:33	WG2191097
Acrylonitrile	ND		0.0180	1	12/17/2023 13:33	WG2191097
Benzene	ND		0.00144	1	12/17/2023 13:33	WG2191097
Bromobenzene	ND		0.0180	1	12/17/2023 13:33	WG2191097
Bromodichloromethane	ND		0.00360	1	12/17/2023 13:33	WG2191097
Bromoform	ND		0.0360	1	12/17/2023 13:33	WG2191097
Bromomethane	ND		0.0180	1	12/17/2023 13:33	WG2191097
n-Butylbenzene	ND		0.0180	1	12/17/2023 13:33	WG2191097
sec-Butylbenzene	ND		0.0180	1	12/17/2023 13:33	WG2191097
tert-Butylbenzene	ND		0.00720	1	12/17/2023 13:33	WG2191097
Carbon tetrachloride	ND		0.00720	1	12/17/2023 13:33	WG2191097
Chlorobenzene	ND		0.00360	1	12/17/2023 13:33	WG2191097
Chlorodibromomethane	ND		0.00360	1	12/17/2023 13:33	WG2191097
Chloroethane	ND		0.00720	1	12/17/2023 13:33	WG2191097
Chloroform	ND		0.00360	1	12/17/2023 13:33	WG2191097
Chloromethane	ND		0.0180	1	12/17/2023 13:33	WG2191097
2-Chlorotoluene	ND		0.00360	1	12/17/2023 13:33	WG2191097
4-Chlorotoluene	ND		0.00720	1	12/17/2023 13:33	WG2191097
1,2-Dibromo-3-Chloropropane	ND	C3	0.0360	1	12/17/2023 13:33	WG2191097
1,2-Dibromoethane	ND		0.00360	1	12/17/2023 13:33	WG2191097
Dibromomethane	ND		0.00720	1	12/17/2023 13:33	WG2191097
1,2-Dichlorobenzene	ND		0.00720	1	12/17/2023 13:33	WG2191097
1,3-Dichlorobenzene	ND		0.00720	1	12/17/2023 13:33	WG2191097
1,4-Dichlorobenzene	ND		0.00720	1	12/17/2023 13:33	WG2191097
Dichlorodifluoromethane	ND		0.00720	1	12/17/2023 13:33	WG2191097
1,1-Dichloroethane	ND		0.00360	1	12/17/2023 13:33	WG2191097
1,2-Dichloroethane	ND		0.00360	1	12/17/2023 13:33	WG2191097
1,1-Dichloroethene	ND		0.00360	1	12/17/2023 13:33	WG2191097
cis-1,2-Dichloroethene	ND		0.00360	1	12/17/2023 13:33	WG2191097
trans-1,2-Dichloroethene	ND		0.00720	1	12/17/2023 13:33	WG2191097
1,2-Dichloropropane	ND		0.00720	1	12/17/2023 13:33	WG2191097
1,1-Dichloropropene	ND		0.00360	1	12/17/2023 13:33	WG2191097
1,3-Dichloropropane	ND		0.00720	1	12/17/2023 13:33	WG2191097
cis-1,3-Dichloropropene	ND		0.00360	1	12/17/2023 13:33	WG2191097
trans-1,3-Dichloropropene	ND		0.00720	1	12/17/2023 13:33	WG2191097
2,2-Dichloropropane	ND		0.00360	1	12/17/2023 13:33	WG2191097
Di-isopropyl ether	ND		0.00144	1	12/17/2023 13:33	WG2191097
Ethylbenzene	ND		0.00360	1	12/17/2023 13:33	WG2191097
Hexachloro-1,3-butadiene	ND		0.0360	1	12/17/2023 13:33	WG2191097
Isopropylbenzene	ND		0.00360	1	12/17/2023 13:33	WG2191097
p-Isopropyltoluene	ND		0.00720	1	12/17/2023 13:33	WG2191097
2-Butanone (MEK)	ND		0.144	1	12/17/2023 13:33	WG2191097
Methylene Chloride	ND		0.0360	1	12/17/2023 13:33	WG2191097
4-Methyl-2-pentanone (MIBK)	ND		0.0360	1	12/17/2023 13:33	WG2191097
Methyl tert-butyl ether	ND		0.00144	1	12/17/2023 13:33	WG2191097

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND	C3 J4	0.0180	1	12/17/2023 13:33	WG2191097
n-Propylbenzene	ND		0.00720	1	12/17/2023 13:33	WG2191097
Styrene	ND		0.0180	1	12/17/2023 13:33	WG2191097
1,1,1,2-Tetrachloroethane	ND		0.00360	1	12/17/2023 13:33	WG2191097
1,1,2,2-Tetrachloroethane	ND	C3	0.00360	1	12/17/2023 13:33	WG2191097
Tetrachloroethene	ND		0.00360	1	12/17/2023 13:33	WG2191097
Toluene	ND		0.00720	1	12/17/2023 13:33	WG2191097
1,2,3-Trichlorobenzene	ND	C3	0.0180	1	12/17/2023 13:33	WG2191097
1,2,4-Trichlorobenzene	ND	C3	0.0180	1	12/17/2023 13:33	WG2191097
1,1,1-Trichloroethane	ND		0.00360	1	12/17/2023 13:33	WG2191097
1,1,2-Trichloroethane	ND		0.00360	1	12/17/2023 13:33	WG2191097
Trichloroethene	ND		0.00144	1	12/17/2023 13:33	WG2191097
Trichlorofluoromethane	ND		0.00360	1	12/17/2023 13:33	WG2191097
1,2,3-Trichloropropane	ND		0.0180	1	12/17/2023 13:33	WG2191097
1,2,4-Trimethylbenzene	ND		0.00720	1	12/17/2023 13:33	WG2191097
1,3,5-Trimethylbenzene	ND		0.00720	1	12/17/2023 13:33	WG2191097
Vinyl chloride	ND		0.00360	1	12/17/2023 13:33	WG2191097
Xylenes, Total	ND		0.00936	1	12/17/2023 13:33	WG2191097
(S) Toluene-d8	*98.4*		*75.0-131*		*12/17/2023 13:33*	WG2191097
(S) 4-Bromofluorobenzene	*98.5*		*67.0-138*		*12/17/2023 13:33*	WG2191097
(S) 1,2-Dichloroethane-d4	*85.5*		*70.0-130*		*12/17/2023 13:33*	WG2191097

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.5		1	12/14/2023 08:32	WG2189073

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	158		2.48	5	12/15/2023 11:45	WG2189353

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND	C3	0.0743	1	12/17/2023 13:52	WG2191097
Acrylonitrile	ND		0.0186	1	12/17/2023 13:52	WG2191097
Benzene	0.00208		0.00149	1	12/17/2023 13:52	WG2191097
Bromobenzene	ND		0.0186	1	12/17/2023 13:52	WG2191097
Bromodichloromethane	ND		0.00371	1	12/17/2023 13:52	WG2191097
Bromoform	ND		0.0371	1	12/17/2023 13:52	WG2191097
Bromomethane	ND		0.0186	1	12/17/2023 13:52	WG2191097
n-Butylbenzene	ND		0.0186	1	12/17/2023 13:52	WG2191097
sec-Butylbenzene	ND		0.0186	1	12/17/2023 13:52	WG2191097
tert-Butylbenzene	ND		0.00743	1	12/17/2023 13:52	WG2191097
Carbon tetrachloride	ND		0.00743	1	12/17/2023 13:52	WG2191097
Chlorobenzene	ND		0.00371	1	12/17/2023 13:52	WG2191097
Chlorodibromomethane	ND		0.00371	1	12/17/2023 13:52	WG2191097
Chloroethane	ND		0.00743	1	12/17/2023 13:52	WG2191097
Chloroform	ND		0.00371	1	12/17/2023 13:52	WG2191097
Chloromethane	ND		0.0186	1	12/17/2023 13:52	WG2191097
2-Chlorotoluene	ND		0.00371	1	12/17/2023 13:52	WG2191097
4-Chlorotoluene	ND		0.00743	1	12/17/2023 13:52	WG2191097
1,2-Dibromo-3-Chloropropane	ND	C3	0.0371	1	12/17/2023 13:52	WG2191097
1,2-Dibromoethane	ND		0.00371	1	12/17/2023 13:52	WG2191097
Dibromomethane	ND		0.00743	1	12/17/2023 13:52	WG2191097
1,2-Dichlorobenzene	ND		0.00743	1	12/17/2023 13:52	WG2191097
1,3-Dichlorobenzene	ND		0.00743	1	12/17/2023 13:52	WG2191097
1,4-Dichlorobenzene	ND		0.00743	1	12/17/2023 13:52	WG2191097
Dichlorodifluoromethane	ND		0.00743	1	12/17/2023 13:52	WG2191097
1,1-Dichloroethane	ND		0.00371	1	12/17/2023 13:52	WG2191097
1,2-Dichloroethane	ND		0.00371	1	12/17/2023 13:52	WG2191097
1,1-Dichloroethene	ND		0.00371	1	12/17/2023 13:52	WG2191097
cis-1,2-Dichloroethene	ND		0.00371	1	12/17/2023 13:52	WG2191097
trans-1,2-Dichloroethene	ND		0.00743	1	12/17/2023 13:52	WG2191097
1,2-Dichloropropane	ND		0.00743	1	12/17/2023 13:52	WG2191097
1,1-Dichloropropene	ND		0.00371	1	12/17/2023 13:52	WG2191097
1,3-Dichloropropane	ND		0.00743	1	12/17/2023 13:52	WG2191097
cis-1,3-Dichloropropene	ND		0.00371	1	12/17/2023 13:52	WG2191097
trans-1,3-Dichloropropene	ND		0.00743	1	12/17/2023 13:52	WG2191097
2,2-Dichloropropane	ND		0.00371	1	12/17/2023 13:52	WG2191097
Di-isopropyl ether	ND		0.00149	1	12/17/2023 13:52	WG2191097
Ethylbenzene	ND		0.00371	1	12/17/2023 13:52	WG2191097
Hexachloro-1,3-butadiene	ND		0.0371	1	12/17/2023 13:52	WG2191097
Isopropylbenzene	ND		0.00371	1	12/17/2023 13:52	WG2191097
p-Isopropyltoluene	ND		0.00743	1	12/17/2023 13:52	WG2191097
2-Butanone (MEK)	ND		0.149	1	12/17/2023 13:52	WG2191097
Methylene Chloride	ND		0.0371	1	12/17/2023 13:52	WG2191097
4-Methyl-2-pentanone (MIBK)	ND		0.0371	1	12/17/2023 13:52	WG2191097
Methyl tert-butyl ether	ND		0.00149	1	12/17/2023 13:52	WG2191097

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND	C3 J4	0.0186	1	12/17/2023 13:52	WG2191097
n-Propylbenzene	ND		0.00743	1	12/17/2023 13:52	WG2191097
Styrene	ND		0.0186	1	12/17/2023 13:52	WG2191097
1,1,1,2-Tetrachloroethane	ND		0.00371	1	12/17/2023 13:52	WG2191097
1,1,2,2-Tetrachloroethane	ND	C3	0.00371	1	12/17/2023 13:52	WG2191097
Tetrachloroethene	ND		0.00371	1	12/17/2023 13:52	WG2191097
Toluene	0.0196		0.00743	1	12/17/2023 13:52	WG2191097
1,2,3-Trichlorobenzene	ND	C3	0.0186	1	12/17/2023 13:52	WG2191097
1,2,4-Trichlorobenzene	ND	C3	0.0186	1	12/17/2023 13:52	WG2191097
1,1,1-Trichloroethane	ND		0.00371	1	12/17/2023 13:52	WG2191097
1,1,2-Trichloroethane	ND		0.00371	1	12/17/2023 13:52	WG2191097
Trichloroethene	ND		0.00149	1	12/17/2023 13:52	WG2191097
Trichlorofluoromethane	ND		0.00371	1	12/17/2023 13:52	WG2191097
1,2,3-Trichloropropane	ND		0.0186	1	12/17/2023 13:52	WG2191097
1,2,4-Trimethylbenzene	ND		0.00743	1	12/17/2023 13:52	WG2191097
1,3,5-Trimethylbenzene	ND		0.00743	1	12/17/2023 13:52	WG2191097
Vinyl chloride	ND		0.00371	1	12/17/2023 13:52	WG2191097
Xylenes, Total	0.0150		0.00966	1	12/17/2023 13:52	WG2191097
(S) Toluene-d8	*99.8*		*75.0-131*		*12/17/2023 13:52*	WG2191097
(S) 4-Bromofluorobenzene	*100*		*67.0-138*		*12/17/2023 13:52*	WG2191097
(S) 1,2-Dichloroethane-d4	*88.9*		*70.0-130*		*12/17/2023 13:52*	WG2191097

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.5		1	12/14/2023 08:32	WG2189073

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	22.7		2.43	5	12/15/2023 12:16	WG2189353

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND	C3	0.0734	1	12/17/2023 14:11	WG2191097
Acrylonitrile	ND		0.0184	1	12/17/2023 14:11	WG2191097
Benzene	ND		0.00147	1	12/17/2023 14:11	WG2191097
Bromobenzene	ND		0.0184	1	12/17/2023 14:11	WG2191097
Bromodichloromethane	ND		0.00367	1	12/17/2023 14:11	WG2191097
Bromoform	ND		0.0367	1	12/17/2023 14:11	WG2191097
Bromomethane	ND		0.0184	1	12/17/2023 14:11	WG2191097
n-Butylbenzene	ND		0.0184	1	12/17/2023 14:11	WG2191097
sec-Butylbenzene	ND		0.0184	1	12/17/2023 14:11	WG2191097
tert-Butylbenzene	ND		0.00734	1	12/17/2023 14:11	WG2191097
Carbon tetrachloride	ND		0.00734	1	12/17/2023 14:11	WG2191097
Chlorobenzene	ND		0.00367	1	12/17/2023 14:11	WG2191097
Chlorodibromomethane	ND		0.00367	1	12/17/2023 14:11	WG2191097
Chloroethane	ND		0.00734	1	12/17/2023 14:11	WG2191097
Chloroform	ND		0.00367	1	12/17/2023 14:11	WG2191097
Chloromethane	ND		0.0184	1	12/17/2023 14:11	WG2191097
2-Chlorotoluene	ND		0.00367	1	12/17/2023 14:11	WG2191097
4-Chlorotoluene	ND		0.00734	1	12/17/2023 14:11	WG2191097
1,2-Dibromo-3-Chloropropane	ND	C3	0.0367	1	12/17/2023 14:11	WG2191097
1,2-Dibromoethane	ND		0.00367	1	12/17/2023 14:11	WG2191097
Dibromomethane	ND		0.00734	1	12/17/2023 14:11	WG2191097
1,2-Dichlorobenzene	ND		0.00734	1	12/17/2023 14:11	WG2191097
1,3-Dichlorobenzene	ND		0.00734	1	12/17/2023 14:11	WG2191097
1,4-Dichlorobenzene	ND		0.00734	1	12/17/2023 14:11	WG2191097
Dichlorodifluoromethane	ND		0.00734	1	12/17/2023 14:11	WG2191097
1,1-Dichloroethane	ND		0.00367	1	12/17/2023 14:11	WG2191097
1,2-Dichloroethane	ND		0.00367	1	12/17/2023 14:11	WG2191097
1,1-Dichloroethene	ND		0.00367	1	12/17/2023 14:11	WG2191097
cis-1,2-Dichloroethene	ND		0.00367	1	12/17/2023 14:11	WG2191097
trans-1,2-Dichloroethene	ND		0.00734	1	12/17/2023 14:11	WG2191097
1,2-Dichloropropane	ND		0.00734	1	12/17/2023 14:11	WG2191097
1,1-Dichloropropene	ND		0.00367	1	12/17/2023 14:11	WG2191097
1,3-Dichloropropane	ND		0.00734	1	12/17/2023 14:11	WG2191097
cis-1,3-Dichloropropene	ND		0.00367	1	12/17/2023 14:11	WG2191097
trans-1,3-Dichloropropene	ND		0.00734	1	12/17/2023 14:11	WG2191097
2,2-Dichloropropane	ND		0.00367	1	12/17/2023 14:11	WG2191097
Di-isopropyl ether	ND		0.00147	1	12/17/2023 14:11	WG2191097
Ethylbenzene	ND		0.00367	1	12/17/2023 14:11	WG2191097
Hexachloro-1,3-butadiene	ND		0.0367	1	12/17/2023 14:11	WG2191097
Isopropylbenzene	ND		0.00367	1	12/17/2023 14:11	WG2191097
p-Isopropyltoluene	ND		0.00734	1	12/17/2023 14:11	WG2191097
2-Butanone (MEK)	ND		0.147	1	12/17/2023 14:11	WG2191097
Methylene Chloride	ND		0.0367	1	12/17/2023 14:11	WG2191097
4-Methyl-2-pentanone (MIBK)	ND		0.0367	1	12/17/2023 14:11	WG2191097
Methyl tert-butyl ether	ND		0.00147	1	12/17/2023 14:11	WG2191097

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND	C3 J4	0.0184	1	12/17/2023 14:11	WG2191097
n-Propylbenzene	ND		0.00734	1	12/17/2023 14:11	WG2191097
Styrene	ND		0.0184	1	12/17/2023 14:11	WG2191097
1,1,1,2-Tetrachloroethane	ND		0.00367	1	12/17/2023 14:11	WG2191097
1,1,2,2-Tetrachloroethane	ND	C3	0.00367	1	12/17/2023 14:11	WG2191097
Tetrachloroethene	ND		0.00367	1	12/17/2023 14:11	WG2191097
Toluene	0.00896		0.00734	1	12/17/2023 14:11	WG2191097
1,2,3-Trichlorobenzene	ND	C3	0.0184	1	12/17/2023 14:11	WG2191097
1,2,4-Trichlorobenzene	ND	C3	0.0184	1	12/17/2023 14:11	WG2191097
1,1,1-Trichloroethane	ND		0.00367	1	12/17/2023 14:11	WG2191097
1,1,2-Trichloroethane	ND		0.00367	1	12/17/2023 14:11	WG2191097
Trichloroethene	ND		0.00147	1	12/17/2023 14:11	WG2191097
Trichlorofluoromethane	ND		0.00367	1	12/17/2023 14:11	WG2191097
1,2,3-Trichloropropane	ND		0.0184	1	12/17/2023 14:11	WG2191097
1,2,4-Trimethylbenzene	ND		0.00734	1	12/17/2023 14:11	WG2191097
1,3,5-Trimethylbenzene	ND		0.00734	1	12/17/2023 14:11	WG2191097
Vinyl chloride	ND		0.00367	1	12/17/2023 14:11	WG2191097
Xylenes, Total	0.0146		0.00955	1	12/17/2023 14:11	WG2191097
(S) Toluene-d8	*99.1*		*75.0-131*		*12/17/2023 14:11*	WG2191097
(S) 4-Bromofluorobenzene	*100*		*67.0-138*		*12/17/2023 14:11*	WG2191097
(S) 1,2-Dichloroethane-d4	*87.3*		*70.0-130*		*12/17/2023 14:11*	WG2191097

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.5		1	12/14/2023 08:32	WG2189073

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	28.2		2.37	5	12/15/2023 12:19	WG2189353

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND	C3	0.0967	1.48	12/17/2023 14:30	WG2191097
Acrylonitrile	ND		0.0242	1.48	12/17/2023 14:30	WG2191097
Benzene	ND		0.00193	1.48	12/17/2023 14:30	WG2191097
Bromobenzene	ND		0.0242	1.48	12/17/2023 14:30	WG2191097
Bromodichloromethane	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
Bromoform	ND		0.0483	1.48	12/17/2023 14:30	WG2191097
Bromomethane	ND		0.0242	1.48	12/17/2023 14:30	WG2191097
n-Butylbenzene	ND		0.0242	1.48	12/17/2023 14:30	WG2191097
sec-Butylbenzene	ND		0.0242	1.48	12/17/2023 14:30	WG2191097
tert-Butylbenzene	ND		0.00967	1.48	12/17/2023 14:30	WG2191097
Carbon tetrachloride	ND		0.00967	1.48	12/17/2023 14:30	WG2191097
Chlorobenzene	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
Chlorodibromomethane	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
Chloroethane	ND		0.00967	1.48	12/17/2023 14:30	WG2191097
Chloroform	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
Chloromethane	ND		0.0242	1.48	12/17/2023 14:30	WG2191097
2-Chlorotoluene	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
4-Chlorotoluene	ND		0.00967	1.48	12/17/2023 14:30	WG2191097
1,2-Dibromo-3-Chloropropane	ND	C3	0.0483	1.48	12/17/2023 14:30	WG2191097
1,2-Dibromoethane	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
Dibromomethane	ND		0.00967	1.48	12/17/2023 14:30	WG2191097
1,2-Dichlorobenzene	ND		0.00967	1.48	12/17/2023 14:30	WG2191097
1,3-Dichlorobenzene	ND		0.00967	1.48	12/17/2023 14:30	WG2191097
1,4-Dichlorobenzene	ND		0.00967	1.48	12/17/2023 14:30	WG2191097
Dichlorodifluoromethane	ND		0.00967	1.48	12/17/2023 14:30	WG2191097
1,1-Dichloroethane	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
1,2-Dichloroethane	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
1,1-Dichloroethene	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
cis-1,2-Dichloroethene	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
trans-1,2-Dichloroethene	ND		0.00967	1.48	12/17/2023 14:30	WG2191097
1,2-Dichloropropane	ND		0.00967	1.48	12/17/2023 14:30	WG2191097
1,1-Dichloropropene	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
1,3-Dichloropropane	ND		0.00967	1.48	12/17/2023 14:30	WG2191097
cis-1,3-Dichloropropene	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
trans-1,3-Dichloropropene	ND		0.00967	1.48	12/17/2023 14:30	WG2191097
2,2-Dichloropropane	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
Di-isopropyl ether	ND		0.00193	1.48	12/17/2023 14:30	WG2191097
Ethylbenzene	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
Hexachloro-1,3-butadiene	ND		0.0483	1.48	12/17/2023 14:30	WG2191097
Isopropylbenzene	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
p-Isopropyltoluene	0.0129		0.00967	1.48	12/17/2023 14:30	WG2191097
2-Butanone (MEK)	ND		0.193	1.48	12/17/2023 14:30	WG2191097
Methylene Chloride	ND		0.0483	1.48	12/17/2023 14:30	WG2191097
4-Methyl-2-pentanone (MIBK)	ND		0.0483	1.48	12/17/2023 14:30	WG2191097
Methyl tert-butyl ether	ND		0.00193	1.48	12/17/2023 14:30	WG2191097

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND	C3 J4	0.0242	1.48	12/17/2023 14:30	WG2191097
n-Propylbenzene	ND		0.00967	1.48	12/17/2023 14:30	WG2191097
Styrene	ND		0.0242	1.48	12/17/2023 14:30	WG2191097
1,1,1,2-Tetrachloroethane	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
1,1,2,2-Tetrachloroethane	ND	C3	0.00483	1.48	12/17/2023 14:30	WG2191097
Tetrachloroethene	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
Toluene	ND		0.00967	1.48	12/17/2023 14:30	WG2191097
1,2,3-Trichlorobenzene	ND	C3	0.0242	1.48	12/17/2023 14:30	WG2191097
1,2,4-Trichlorobenzene	ND	C3	0.0242	1.48	12/17/2023 14:30	WG2191097
1,1,1-Trichloroethane	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
1,1,2-Trichloroethane	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
Trichloroethene	ND		0.00193	1.48	12/17/2023 14:30	WG2191097
Trichlorofluoromethane	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
1,2,3-Trichloropropane	ND		0.0242	1.48	12/17/2023 14:30	WG2191097
1,2,4-Trimethylbenzene	ND		0.00967	1.48	12/17/2023 14:30	WG2191097
1,3,5-Trimethylbenzene	ND		0.00967	1.48	12/17/2023 14:30	WG2191097
Vinyl chloride	ND		0.00483	1.48	12/17/2023 14:30	WG2191097
Xylenes, Total	ND		0.0126	1.48	12/17/2023 14:30	WG2191097
(S) Toluene-d8	*98.0*		*75.0-131*		*12/17/2023 14:30*	WG2191097
(S) 4-Bromofluorobenzene	*100*		*67.0-138*		*12/17/2023 14:30*	WG2191097
(S) 1,2-Dichloroethane-d4	*87.6*		*70.0-130*		*12/17/2023 14:30*	WG2191097

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.9		1	12/14/2023 08:32	WG2189073

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	42.8		2.33	5	12/15/2023 12:23	WG2189353

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND	C3	0.0717	1.09	12/17/2023 14:48	WG2191097
Acrylonitrile	ND		0.0179	1.09	12/17/2023 14:48	WG2191097
Benzene	ND		0.00143	1.09	12/17/2023 14:48	WG2191097
Bromobenzene	ND		0.0179	1.09	12/17/2023 14:48	WG2191097
Bromodichloromethane	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
Bromoform	ND		0.0359	1.09	12/17/2023 14:48	WG2191097
Bromomethane	ND		0.0179	1.09	12/17/2023 14:48	WG2191097
n-Butylbenzene	ND		0.0179	1.09	12/17/2023 14:48	WG2191097
sec-Butylbenzene	ND		0.0179	1.09	12/17/2023 14:48	WG2191097
tert-Butylbenzene	ND		0.00717	1.09	12/17/2023 14:48	WG2191097
Carbon tetrachloride	ND		0.00717	1.09	12/17/2023 14:48	WG2191097
Chlorobenzene	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
Chlorodibromomethane	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
Chloroethane	ND		0.00717	1.09	12/17/2023 14:48	WG2191097
Chloroform	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
Chloromethane	ND		0.0179	1.09	12/17/2023 14:48	WG2191097
2-Chlorotoluene	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
4-Chlorotoluene	ND		0.00717	1.09	12/17/2023 14:48	WG2191097
1,2-Dibromo-3-Chloropropane	ND	C3	0.0359	1.09	12/17/2023 14:48	WG2191097
1,2-Dibromoethane	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
Dibromomethane	ND		0.00717	1.09	12/17/2023 14:48	WG2191097
1,2-Dichlorobenzene	ND		0.00717	1.09	12/17/2023 14:48	WG2191097
1,3-Dichlorobenzene	ND		0.00717	1.09	12/17/2023 14:48	WG2191097
1,4-Dichlorobenzene	ND		0.00717	1.09	12/17/2023 14:48	WG2191097
Dichlorodifluoromethane	ND		0.00717	1.09	12/17/2023 14:48	WG2191097
1,1-Dichloroethane	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
1,2-Dichloroethane	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
1,1-Dichloroethene	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
cis-1,2-Dichloroethene	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
trans-1,2-Dichloroethene	ND		0.00717	1.09	12/17/2023 14:48	WG2191097
1,2-Dichloropropane	ND		0.00717	1.09	12/17/2023 14:48	WG2191097
1,1-Dichloropropene	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
1,3-Dichloropropane	ND		0.00717	1.09	12/17/2023 14:48	WG2191097
cis-1,3-Dichloropropene	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
trans-1,3-Dichloropropene	ND		0.00717	1.09	12/17/2023 14:48	WG2191097
2,2-Dichloropropane	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
Di-isopropyl ether	ND		0.00143	1.09	12/17/2023 14:48	WG2191097
Ethylbenzene	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
Hexachloro-1,3-butadiene	ND		0.0359	1.09	12/17/2023 14:48	WG2191097
Isopropylbenzene	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
p-Isopropyltoluene	0.00760		0.00717	1.09	12/17/2023 14:48	WG2191097
2-Butanone (MEK)	ND		0.143	1.09	12/17/2023 14:48	WG2191097
Methylene Chloride	ND		0.0359	1.09	12/17/2023 14:48	WG2191097
4-Methyl-2-pentanone (MIBK)	ND		0.0359	1.09	12/17/2023 14:48	WG2191097
Methyl tert-butyl ether	ND		0.00143	1.09	12/17/2023 14:48	WG2191097

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND	C3 J4	0.0179	1.09	12/17/2023 14:48	WG2191097
n-Propylbenzene	ND		0.00717	1.09	12/17/2023 14:48	WG2191097
Styrene	ND		0.0179	1.09	12/17/2023 14:48	WG2191097
1,1,1,2-Tetrachloroethane	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
1,1,2,2-Tetrachloroethane	ND	C3	0.00359	1.09	12/17/2023 14:48	WG2191097
Tetrachloroethene	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
Toluene	ND		0.00717	1.09	12/17/2023 14:48	WG2191097
1,2,3-Trichlorobenzene	ND	C3	0.0179	1.09	12/17/2023 14:48	WG2191097
1,2,4-Trichlorobenzene	ND	C3	0.0179	1.09	12/17/2023 14:48	WG2191097
1,1,1-Trichloroethane	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
1,1,2-Trichloroethane	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
Trichloroethene	ND		0.00143	1.09	12/17/2023 14:48	WG2191097
Trichlorofluoromethane	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
1,2,3-Trichloropropane	ND		0.0179	1.09	12/17/2023 14:48	WG2191097
1,2,4-Trimethylbenzene	ND		0.00717	1.09	12/17/2023 14:48	WG2191097
1,3,5-Trimethylbenzene	ND		0.00717	1.09	12/17/2023 14:48	WG2191097
Vinyl chloride	ND		0.00359	1.09	12/17/2023 14:48	WG2191097
Xylenes, Total	ND		0.00931	1.09	12/17/2023 14:48	WG2191097
(S) Toluene-d8	*97.7*		*75.0-131*		*12/17/2023 14:48*	WG2191097
(S) 4-Bromofluorobenzene	*100*		*67.0-138*		*12/17/2023 14:48*	WG2191097
(S) 1,2-Dichloroethane-d4	*91.2*		*70.0-130*		*12/17/2023 14:48*	WG2191097

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	12/16/2023 10:40	WG2190719
Acrolein	ND		50.0	1	12/16/2023 10:40	WG2190719
Acrylonitrile	ND	C3	10.0	1	12/16/2023 10:40	WG2190719
Benzene	ND		1.00	1	12/16/2023 10:40	WG2190719
Bromobenzene	ND		1.00	1	12/16/2023 10:40	WG2190719
Bromodichloromethane	ND		1.00	1	12/16/2023 10:40	WG2190719
Bromoform	ND		1.00	1	12/16/2023 10:40	WG2190719
Bromomethane	ND		5.00	1	12/16/2023 10:40	WG2190719
n-Butylbenzene	ND	C3	1.00	1	12/16/2023 10:40	WG2190719
sec-Butylbenzene	ND		1.00	1	12/16/2023 10:40	WG2190719
tert-Butylbenzene	ND		1.00	1	12/16/2023 10:40	WG2190719
Carbon tetrachloride	ND		1.00	1	12/16/2023 10:40	WG2190719
Chlorobenzene	ND		1.00	1	12/16/2023 10:40	WG2190719
Chlorodibromomethane	ND		1.00	1	12/16/2023 10:40	WG2190719
Chloroethane	ND		5.00	1	12/16/2023 10:40	WG2190719
Chloroform	ND		5.00	1	12/16/2023 10:40	WG2190719
Chloromethane	ND		2.50	1	12/16/2023 10:40	WG2190719
2-Chlorotoluene	ND		1.00	1	12/16/2023 10:40	WG2190719
4-Chlorotoluene	ND		1.00	1	12/16/2023 10:40	WG2190719
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/16/2023 10:40	WG2190719
1,2-Dibromoethane	ND		1.00	1	12/16/2023 10:40	WG2190719
Dibromomethane	ND		1.00	1	12/16/2023 10:40	WG2190719
1,2-Dichlorobenzene	ND		1.00	1	12/16/2023 10:40	WG2190719
1,3-Dichlorobenzene	ND		1.00	1	12/16/2023 10:40	WG2190719
1,4-Dichlorobenzene	ND		1.00	1	12/16/2023 10:40	WG2190719
Dichlorodifluoromethane	ND		5.00	1	12/16/2023 10:40	WG2190719
1,1-Dichloroethane	ND		1.00	1	12/16/2023 10:40	WG2190719
1,2-Dichloroethane	ND		1.00	1	12/16/2023 10:40	WG2190719
1,1-Dichloroethene	ND		1.00	1	12/16/2023 10:40	WG2190719
cis-1,2-Dichloroethene	ND		1.00	1	12/16/2023 10:40	WG2190719
trans-1,2-Dichloroethene	ND		1.00	1	12/16/2023 10:40	WG2190719
1,2-Dichloropropane	ND		1.00	1	12/16/2023 10:40	WG2190719
1,1-Dichloropropene	ND		1.00	1	12/16/2023 10:40	WG2190719
1,3-Dichloropropane	ND		1.00	1	12/16/2023 10:40	WG2190719
cis-1,3-Dichloropropene	ND		1.00	1	12/16/2023 10:40	WG2190719
trans-1,3-Dichloropropene	ND		1.00	1	12/16/2023 10:40	WG2190719
2,2-Dichloropropane	ND		1.00	1	12/16/2023 10:40	WG2190719
Di-isopropyl ether	ND		1.00	1	12/16/2023 10:40	WG2190719
Ethylbenzene	ND		1.00	1	12/16/2023 10:40	WG2190719
Hexachloro-1,3-butadiene	ND		1.00	1	12/16/2023 10:40	WG2190719
Isopropylbenzene	ND		1.00	1	12/16/2023 10:40	WG2190719
p-Isopropyltoluene	ND		1.00	1	12/16/2023 10:40	WG2190719
2-Butanone (MEK)	ND		10.0	1	12/16/2023 10:40	WG2190719
Methylene Chloride	ND	J4	5.00	1	12/16/2023 10:40	WG2190719
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/16/2023 10:40	WG2190719
Methyl tert-butyl ether	ND		1.00	1	12/16/2023 10:40	WG2190719
Naphthalene	ND	C3	5.00	1	12/16/2023 10:40	WG2190719
n-Propylbenzene	ND		1.00	1	12/16/2023 10:40	WG2190719
Styrene	ND		1.00	1	12/16/2023 10:40	WG2190719
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/16/2023 10:40	WG2190719
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/16/2023 10:40	WG2190719
Tetrachloroethene	ND		1.00	1	12/16/2023 10:40	WG2190719
Toluene	ND		1.00	1	12/16/2023 10:40	WG2190719
1,2,3-Trichlorobenzene	ND	C3	1.00	1	12/16/2023 10:40	WG2190719
1,2,4-Trichlorobenzene	ND	C3	1.00	1	12/16/2023 10:40	WG2190719
1,1,1-Trichloroethane	ND		1.00	1	12/16/2023 10:40	WG2190719

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		1.00	1	12/16/2023 10:40	WG2190719
Trichloroethene	ND		1.00	1	12/16/2023 10:40	WG2190719
Trichlorofluoromethane	ND		5.00	1	12/16/2023 10:40	WG2190719
1,2,3-Trichloropropane	ND		2.50	1	12/16/2023 10:40	WG2190719
1,2,4-Trimethylbenzene	ND		1.00	1	12/16/2023 10:40	WG2190719
1,3,5-Trimethylbenzene	ND		1.00	1	12/16/2023 10:40	WG2190719
Vinyl chloride	ND		1.00	1	12/16/2023 10:40	WG2190719
Xylenes, Total	ND		3.00	1	12/16/2023 10:40	WG2190719
(S) Toluene-d8	*107*		*80.0-120*		*12/16/2023 10:40*	WG2190719
(S) 4-Bromofluorobenzene	*93.0*		*77.0-126*		*12/16/2023 10:40*	WG2190719
(S) 1,2-Dichloroethane-d4	*110*		*70.0-130*		*12/16/2023 10:40*	WG2190719

Method Blank (MB)

(MB) R4012876-1 12/14/23 08:32

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

L1687033-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1687033-02 12/14/23 08:32 • (DUP) R4012876-3 12/14/23 08:32

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	83.7	83.4	1	0.363		10

Laboratory Control Sample (LCS)

(LCS) R4012876-2 12/14/23 08:32

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	90.0-110	

Method Blank (MB)

(MB) R4012928-1 12/15/23 10:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.0990	2.00

Laboratory Control Sample (LCS)

(LCS) R4012928-2 12/15/23 10:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	92.3	92.3	80.0-120	

L1687027-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1687027-01 12/15/23 10:45 • (MS) R4012928-5 12/15/23 10:55 • (MSD) R4012928-6 12/15/23 10:58

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	117	238	210	311	0.000	62.4	5	75.0-125	J6	J3 J6	38.6	20

Method Blank (MB)

(MB) R4014007-2 12/16/23 07:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00
Hexachloro-1,3-butadiene	U		0.337	1.00

Method Blank (MB)

(MB) R4014007-2 12/16/23 07:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*98.4*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4014007-1 12/16/23 06:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	32.6	130	19.0-160	
Acrolein	25.0	32.2	129	10.0-160	
Acrylonitrile	25.0	15.3	61.2	55.0-149	
Benzene	5.00	4.48	89.6	70.0-123	
Bromobenzene	5.00	4.63	92.6	73.0-121	
Bromodichloromethane	5.00	5.21	104	75.0-120	

Laboratory Control Sample (LCS)

(LCS) R4014007-1 12/16/23 06:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	5.00	4.40	88.0	68.0-132	
Bromomethane	5.00	4.15	83.0	10.0-160	
n-Butylbenzene	5.00	3.88	77.6	73.0-125	
sec-Butylbenzene	5.00	4.35	87.0	75.0-125	
tert-Butylbenzene	5.00	4.66	93.2	76.0-124	
Carbon tetrachloride	5.00	4.57	91.4	68.0-126	
Chlorobenzene	5.00	4.83	96.6	80.0-121	
Chlorodibromomethane	5.00	4.96	99.2	77.0-125	
Chloroethane	5.00	5.28	106	47.0-150	
Chloroform	5.00	5.23	105	73.0-120	
Chloromethane	5.00	4.83	96.6	41.0-142	
2-Chlorotoluene	5.00	4.68	93.6	76.0-123	
4-Chlorotoluene	5.00	4.20	84.0	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.74	94.8	58.0-134	
1,2-Dibromoethane	5.00	4.96	99.2	80.0-122	
Dibromomethane	5.00	5.11	102	80.0-120	
1,2-Dichlorobenzene	5.00	4.66	93.2	79.0-121	
1,3-Dichlorobenzene	5.00	4.53	90.6	79.0-120	
1,4-Dichlorobenzene	5.00	4.87	97.4	79.0-120	
Dichlorodifluoromethane	5.00	6.21	124	51.0-149	
1,1-Dichloroethane	5.00	5.16	103	70.0-126	
1,2-Dichloroethane	5.00	5.82	116	70.0-128	
1,1-Dichloroethene	5.00	5.33	107	71.0-124	
cis-1,2-Dichloroethene	5.00	4.77	95.4	73.0-120	
trans-1,2-Dichloroethene	5.00	4.63	92.6	73.0-120	
1,2-Dichloropropane	5.00	4.57	91.4	77.0-125	
1,1-Dichloropropene	5.00	4.57	91.4	74.0-126	
1,3-Dichloropropane	5.00	4.91	98.2	80.0-120	
cis-1,3-Dichloropropene	5.00	4.70	94.0	80.0-123	
trans-1,3-Dichloropropene	5.00	4.79	95.8	78.0-124	
2,2-Dichloropropane	5.00	4.03	80.6	58.0-130	
Di-isopropyl ether	5.00	4.18	83.6	58.0-138	
Ethylbenzene	5.00	4.54	90.8	79.0-123	
Hexachloro-1,3-butadiene	5.00	4.44	88.8	54.0-138	
Isopropylbenzene	5.00	4.43	88.6	76.0-127	
p-Isopropyltoluene	5.00	4.37	87.4	76.0-125	
2-Butanone (MEK)	25.0	20.7	82.8	44.0-160	
Methylene Chloride	5.00	6.37	127	67.0-120	J4
4-Methyl-2-pentanone (MIBK)	25.0	21.8	87.2	68.0-142	
Methyl tert-butyl ether	5.00	4.49	89.8	68.0-125	

Laboratory Control Sample (LCS)

(LCS) R4014007-1 12/16/23 06:31

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	5.00	3.78	75.6	54.0-135	
n-Propylbenzene	5.00	4.46	89.2	77.0-124	
Styrene	5.00	4.67	93.4	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	5.16	103	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	4.36	87.2	65.0-130	
Tetrachloroethene	5.00	5.05	101	72.0-132	
Toluene	5.00	4.76	95.2	79.0-120	
1,2,3-Trichlorobenzene	5.00	3.85	77.0	50.0-138	
1,2,4-Trichlorobenzene	5.00	3.86	77.2	57.0-137	
1,1,1-Trichloroethane	5.00	5.21	104	73.0-124	
1,1,2-Trichloroethane	5.00	4.73	94.6	80.0-120	
Trichloroethene	5.00	4.89	97.8	78.0-124	
Trichlorofluoromethane	5.00	5.74	115	59.0-147	
1,2,3-Trichloropropane	5.00	5.09	102	73.0-130	
1,2,4-Trimethylbenzene	5.00	4.53	90.6	76.0-121	
1,3,5-Trimethylbenzene	5.00	4.75	95.0	76.0-122	
Vinyl chloride	5.00	4.56	91.2	67.0-131	
Xylenes, Total	15.0	13.8	92.0	79.0-123	
(S) Toluene-d8			*102*	*80.0-120*	
(S) 4-Bromofluorobenzene			*99.2*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*118*	*70.0-130*	

L1687343-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1687343-02 12/16/23 16:03 • (MS) R4014007-3 12/16/23 16:22 • (MSD) R4014007-4 12/16/23 16:41

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	ND	ND	ND	79.2	73.2	1	10.0-160			7.87	35
Acrolein	25.0	ND	212	225	848	900	1	10.0-160	J5	J5	5.95	39
Acrylonitrile	25.0	ND	16.5	19.1	66.0	76.4	1	21.0-160			14.6	32
Benzene	5.00	ND	4.26	4.52	85.2	90.4	1	17.0-158			5.92	27
Bromobenzene	5.00	ND	4.90	4.61	98.0	92.2	1	30.0-149			6.10	28
Bromodichloromethane	5.00	ND	4.70	4.80	94.0	96.0	1	31.0-150			2.11	27
Bromoform	5.00	ND	5.36	5.16	107	103	1	29.0-150			3.80	29
Bromomethane	5.00	ND	ND	ND	74.2	79.2	1	10.0-160			6.52	38
n-Butylbenzene	5.00	ND	4.22	4.65	84.4	93.0	1	31.0-150			9.70	30
sec-Butylbenzene	5.00	ND	4.61	4.49	92.2	89.8	1	33.0-155			2.64	29
tert-Butylbenzene	5.00	ND	4.85	4.80	97.0	96.0	1	34.0-153			1.04	28
Carbon tetrachloride	5.00	ND	4.99	5.03	99.8	101	1	23.0-159			0.798	28

L1687343-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1687343-02 12/16/23 16:03 • (MS) R4014007-3 12/16/23 16:22 • (MSD) R4014007-4 12/16/23 16:41

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chlorobenzene	5.00	ND	4.77	4.80	95.4	96.0	1	33.0-152			0.627	27
Chlorodibromomethane	5.00	ND	5.34	5.24	107	105	1	37.0-149			1.89	27
Chloroethane	5.00	ND	ND	ND	80.6	83.8	1	10.0-160			3.89	30
Chloroform	5.00	ND	ND	ND	94.0	96.2	1	29.0-154			2.31	28
Chloromethane	5.00	ND	3.70	3.76	74.0	75.2	1	10.0-160			1.61	29
2-Chlorotoluene	5.00	ND	4.97	4.89	99.4	97.8	1	32.0-153			1.62	28
4-Chlorotoluene	5.00	ND	4.85	4.98	97.0	99.6	1	32.0-150			2.64	28
1,2-Dibromo-3-Chloropropane	5.00	ND	5.40	5.49	108	110	1	22.0-151			1.65	34
1,2-Dibromoethane	5.00	ND	4.83	5.27	96.6	105	1	34.0-147			8.71	27
Dibromomethane	5.00	ND	5.07	5.27	101	105	1	30.0-151			3.87	27
1,2-Dichlorobenzene	5.00	ND	4.73	4.58	94.6	91.6	1	34.0-149			3.22	28
1,3-Dichlorobenzene	5.00	ND	4.92	4.64	98.4	92.8	1	36.0-146			5.86	27
1,4-Dichlorobenzene	5.00	ND	4.76	4.49	95.2	89.8	1	35.0-142			5.84	27
Dichlorodifluoromethane	5.00	ND	5.71	5.53	114	111	1	10.0-160			3.20	29
1,1-Dichloroethane	5.00	ND	4.44	4.71	88.8	94.2	1	25.0-158			5.90	27
1,2-Dichloroethane	5.00	ND	5.16	5.67	103	113	1	29.0-151			9.42	27
1,1-Dichloroethene	5.00	ND	4.30	4.50	86.0	90.0	1	11.0-160			4.55	29
cis-1,2-Dichloroethene	5.00	ND	4.62	4.43	92.4	88.6	1	10.0-160			4.20	27
trans-1,2-Dichloroethene	5.00	ND	4.34	4.39	86.8	87.8	1	17.0-153			1.15	27
1,2-Dichloropropane	5.00	ND	4.62	4.51	92.4	90.2	1	30.0-156			2.41	27
1,1-Dichloropropene	5.00	ND	4.42	4.62	88.4	92.4	1	25.0-158			4.42	27
1,3-Dichloropropane	5.00	ND	4.96	4.78	99.2	95.6	1	38.0-147			3.70	27
cis-1,3-Dichloropropene	5.00	ND	4.38	4.44	87.6	88.8	1	34.0-149			1.36	28
trans-1,3-Dichloropropene	5.00	ND	4.92	4.53	98.4	90.6	1	32.0-149			8.25	28
2,2-Dichloropropane	5.00	ND	5.17	5.25	103	105	1	24.0-152			1.54	29
Di-isopropyl ether	5.00	ND	4.08	4.22	81.6	84.4	1	21.0-160			3.37	28
Ethylbenzene	5.00	ND	4.72	4.75	94.4	95.0	1	30.0-155			0.634	27
Hexachloro-1,3-butadiene	5.00	ND	4.92	4.12	98.4	82.4	1	20.0-154			17.7	34
Isopropylbenzene	5.00	ND	4.51	4.60	90.2	92.0	1	28.0-157			1.98	27
p-Isopropyltoluene	5.00	ND	4.49	4.32	89.8	86.4	1	30.0-154			3.86	29
2-Butanone (MEK)	25.0	ND	19.2	15.8	76.8	63.2	1	10.0-160			19.4	32
Methylene Chloride	5.00	ND	ND	ND	84.6	88.0	1	23.0-144			3.94	28
4-Methyl-2-pentanone (MIBK)	25.0	ND	25.4	24.8	102	99.2	1	29.0-160			2.39	29
Methyl tert-butyl ether	5.00	ND	4.67	4.85	93.4	97.0	1	28.0-150			3.78	29
Naphthalene	5.00	ND	ND	ND	82.6	81.0	1	12.0-156			1.96	35
n-Propylbenzene	5.00	ND	4.81	4.47	96.2	89.4	1	31.0-154			7.33	28
Styrene	5.00	ND	4.38	4.81	87.6	96.2	1	33.0-155			9.36	28
1,1,1,2-Tetrachloroethane	5.00	ND	5.11	4.82	102	96.4	1	36.0-151			5.84	29
1,1,2,2-Tetrachloroethane	5.00	ND	5.64	5.21	113	104	1	33.0-150			7.93	28
Tetrachloroethene	5.00	ND	4.85	4.66	97.0	93.2	1	10.0-160			4.00	27

L1687343-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1687343-02 12/16/23 16:03 • (MS) R4014007-3 12/16/23 16:22 • (MSD) R4014007-4 12/16/23 16:41

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Toluene	5.00	ND	4.62	4.76	92.4	95.2	1	26.0-154			2.99	28
1,2,3-Trichlorobenzene	5.00	ND	4.21	3.78	84.2	75.6	1	17.0-150			10.8	36
1,2,4-Trichlorobenzene	5.00	ND	3.72	3.68	74.4	73.6	1	24.0-150			1.08	33
1,1,1-Trichloroethane	5.00	ND	5.17	5.07	103	101	1	23.0-160			1.95	28
1,1,2-Trichloroethane	5.00	ND	4.99	5.05	99.8	101	1	35.0-147			1.20	27
Trichloroethene	5.00	ND	4.24	4.60	84.8	92.0	1	10.0-160			8.14	25
Trichlorofluoromethane	5.00	ND	5.09	5.05	102	101	1	17.0-160			0.789	31
1,2,3-Trichloropropane	5.00	ND	6.34	5.29	127	106	1	34.0-151			18.1	29
1,2,4-Trimethylbenzene	5.00	ND	4.82	4.52	96.4	90.4	1	26.0-154			6.42	27
1,3,5-Trimethylbenzene	5.00	ND	4.64	4.52	92.8	90.4	1	28.0-153			2.62	27
Vinyl chloride	5.00	ND	3.84	3.81	76.8	76.2	1	10.0-160			0.784	27
Xylenes, Total	15.0	ND	14.0	13.5	93.3	90.0	1	29.0-154			3.64	28
(S) Toluene-d8					*102*	*104*		*80.0-120*				
(S) 4-Bromofluorobenzene					*100*	*101*		*77.0-126*				
(S) 1,2-Dichloroethane-d4					*121*	*122*		*70.0-130*				

Method Blank (MB)

(MB) R4014108-3 12/17/23 12:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

Method Blank (MB)

(MB) R4014108-3 12/17/23 12:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*99.7*			*75.0-131*
(S) 4-Bromofluorobenzene	*99.9*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*88.6*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4014108-1 12/17/23 10:32 • (LCSD) R4014108-2 12/17/23 10:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.396	0.421	63.4	67.4	10.0-160			6.12	31
Acrylonitrile	0.625	0.804	0.799	129	128	45.0-153			0.624	22
Benzene	0.125	0.121	0.124	96.8	99.2	70.0-123			2.45	20
Bromobenzene	0.125	0.126	0.129	101	103	73.0-121			2.35	20
Bromodichloromethane	0.125	0.106	0.109	84.8	87.2	73.0-121			2.79	20
Bromoform	0.125	0.118	0.119	94.4	95.2	64.0-132			0.844	20
Bromomethane	0.125	0.104	0.101	83.2	80.8	56.0-147			2.93	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4014108-1 12/17/23 10:32 • (LCSD) R4014108-2 12/17/23 10:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
n-Butylbenzene	0.125	0.107	0.112	85.6	89.6	68.0-135			4.57	20
sec-Butylbenzene	0.125	0.113	0.116	90.4	92.8	74.0-130			2.62	20
tert-Butylbenzene	0.125	0.119	0.123	95.2	98.4	75.0-127			3.31	20
Carbon tetrachloride	0.125	0.110	0.110	88.0	88.0	66.0-128			0.000	20
Chlorobenzene	0.125	0.115	0.116	92.0	92.8	76.0-128			0.866	20
Chlorodibromomethane	0.125	0.112	0.114	89.6	91.2	74.0-127			1.77	20
Chloroethane	0.125	0.118	0.125	94.4	100	61.0-134			5.76	20
Chloroform	0.125	0.108	0.108	86.4	86.4	72.0-123			0.000	20
Chloromethane	0.125	0.138	0.137	110	110	51.0-138			0.727	20
2-Chlorotoluene	0.125	0.121	0.123	96.8	98.4	75.0-124			1.64	20
4-Chlorotoluene	0.125	0.120	0.120	96.0	96.0	75.0-124			0.000	20
1,2-Dibromo-3-Chloropropane	0.125	0.0828	0.0859	66.2	68.7	59.0-130			3.68	20
1,2-Dibromoethane	0.125	0.114	0.121	91.2	96.8	74.0-128			5.96	20
Dibromomethane	0.125	0.115	0.116	92.0	92.8	75.0-122			0.866	20
1,2-Dichlorobenzene	0.125	0.111	0.112	88.8	89.6	76.0-124			0.897	20
1,3-Dichlorobenzene	0.125	0.116	0.120	92.8	96.0	76.0-125			3.39	20
1,4-Dichlorobenzene	0.125	0.109	0.114	87.2	91.2	77.0-121			4.48	20
Dichlorodifluoromethane	0.125	0.130	0.138	104	110	43.0-156			5.97	20
1,1-Dichloroethane	0.125	0.124	0.128	99.2	102	70.0-127			3.17	20
1,2-Dichloroethane	0.125	0.105	0.108	84.0	86.4	65.0-131			2.82	20
1,1-Dichloroethene	0.125	0.115	0.120	92.0	96.0	65.0-131			4.26	20
cis-1,2-Dichloroethene	0.125	0.116	0.123	92.8	98.4	73.0-125			5.86	20
trans-1,2-Dichloroethene	0.125	0.120	0.123	96.0	98.4	71.0-125			2.47	20
1,2-Dichloropropane	0.125	0.138	0.141	110	113	74.0-125			2.15	20
1,1-Dichloropropene	0.125	0.116	0.117	92.8	93.6	73.0-125			0.858	20
1,3-Dichloropropane	0.125	0.120	0.122	96.0	97.6	80.0-125			1.65	20
cis-1,3-Dichloropropene	0.125	0.124	0.130	99.2	104	76.0-127			4.72	20
trans-1,3-Dichloropropene	0.125	0.114	0.118	91.2	94.4	73.0-127			3.45	20
2,2-Dichloropropane	0.125	0.119	0.116	95.2	92.8	59.0-135			2.55	20
Di-isopropyl ether	0.125	0.142	0.143	114	114	60.0-136			0.702	20
Ethylbenzene	0.125	0.111	0.118	88.8	94.4	74.0-126			6.11	20
Hexachloro-1,3-butadiene	0.125	0.103	0.106	82.4	84.8	57.0-150			2.87	20
Isopropylbenzene	0.125	0.107	0.111	85.6	88.8	72.0-127			3.67	20
p-Isopropyltoluene	0.125	0.109	0.114	87.2	91.2	72.0-133			4.48	20
2-Butanone (MEK)	0.625	0.784	0.823	125	132	30.0-160			4.85	24
Methylene Chloride	0.125	0.115	0.116	92.0	92.8	68.0-123			0.866	20
4-Methyl-2-pentanone (MIBK)	0.625	0.700	0.705	112	113	56.0-143			0.712	20
Methyl tert-butyl ether	0.125	0.109	0.104	87.2	83.2	66.0-132			4.69	20
Naphthalene	0.125	0.0684	0.0717	54.7	57.4	59.0-130	J4	J4	4.71	20
n-Propylbenzene	0.125	0.120	0.123	96.0	98.4	74.0-126			2.47	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4014108-1 12/17/23 10:32 • (LCSD) R4014108-2 12/17/23 10:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Styrene	0.125	0.110	0.114	88.0	91.2	72.0-127			3.57	20
1,1,1,2-Tetrachloroethane	0.125	0.101	0.104	80.8	83.2	74.0-129			2.93	20
1,1,2,2-Tetrachloroethane	0.125	0.0994	0.0999	79.5	79.9	68.0-128			0.502	20
Tetrachloroethene	0.125	0.122	0.125	97.6	100	70.0-136			2.43	20
Toluene	0.125	0.116	0.117	92.8	93.6	75.0-121			0.858	20
1,2,3-Trichlorobenzene	0.125	0.0756	0.0804	60.5	64.3	59.0-139			6.15	20
1,2,4-Trichlorobenzene	0.125	0.0908	0.0981	72.6	78.5	62.0-137			7.73	20
1,1,1-Trichloroethane	0.125	0.105	0.103	84.0	82.4	69.0-126			1.92	20
1,1,2-Trichloroethane	0.125	0.110	0.111	88.0	88.8	78.0-123			0.905	20
Trichloroethene	0.125	0.126	0.127	101	102	76.0-126			0.791	20
Trichlorofluoromethane	0.125	0.135	0.137	108	110	61.0-142			1.47	20
1,2,3-Trichloropropane	0.125	0.113	0.112	90.4	89.6	67.0-129			0.889	20
1,2,4-Trimethylbenzene	0.125	0.108	0.111	86.4	88.8	70.0-126			2.74	20
1,3,5-Trimethylbenzene	0.125	0.116	0.117	92.8	93.6	73.0-127			0.858	20
Vinyl chloride	0.125	0.123	0.125	98.4	100	63.0-134			1.61	20
Xylenes, Total	0.375	0.351	0.355	93.6	94.7	72.0-127			1.13	20
(S) Toluene-d8				*98.9*	*99.1*	*75.0-131*				
(S) 4-Bromofluorobenzene				*96.2*	*97.8*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*91.4*	*92.5*	*70.0-130*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:

S&ME Inc. - Raleigh NC

3201 Spring Forest Road
Raleigh, NC 27616

Billing Information:

Accounts Payable
3201 Spring Forest Rd.

(smeinc_invoice@concursolution

Report to: **Mr. Jerry Paul**

Email To: **jpaul@smeinc.com**

Project Description: **East Durham Park**

City/State Collected: Durham, NC

Please Circle: PT MT CT (ET)

Phone: **919-872-2660**

Client Project #

Lab Project # **SMERLNC-EASTDURHAM**

Collected by (print): Chelsea Parra

Site/Facility ID #

P.O. #

Collected by (signature): CP

Immediately Packed on Ice N ____ Y ✓

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PBG 2ozClr-NoPres	SPLP/TCLP HOLD 4ozClr-NoPres	TS 4ozClr-NoPres	V8260 40mlAmb-HCl-Blk	V8260 40mlAmb/MeOH10ml/Syr	Pres Chk	Remarks	Sample # (lab only)
821-SB-09	C	SS	0-1	12/11/23	1415	4	X	X	X		X			-01
821-SB-10		SS			1420	4	X	X	X		X			-02
821-SB-11		SS			1440	4	X	X	X		X			-03
821-SB-12		SS			1450	4	X	X	X		X			-04
821-SB-13		SS			1515	4	X	X	X		X			-05
821-SB-14		SS			1520	4	X	X	X		X			-06
821-SB-15		SS			1525	4	X	X	X		X			-07
Trip Blank		~~SS~~ GW CP				~~4~~ 2	X	X	X	X	X			-08
		SS				4	X	X	X		X			
		SS				4	X	X	X		X			

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # **L-071**

Acctnum: **SMERLNC**
Template: **T243170**
Prelogin: **P1042523**
PM: **034 - Craig Cothron**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 7878 3552 9548

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
CP	12/11/23	1630	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Caleb Tolf

Trip Blank Received: Yes / No
2 HCl / MeOH TBR

Temp: 4.5A°C Bottles Received: 28
3.1+a=3.1

Date: 12/12/23 Time: 09:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

ANALYTICAL REPORT

December 19, 2023

S&ME Inc. - Raleigh NC

Sample Delivery Group:	L1687657
Samples Received:	12/13/2023
Project Number:	
Description:	East Durham Park

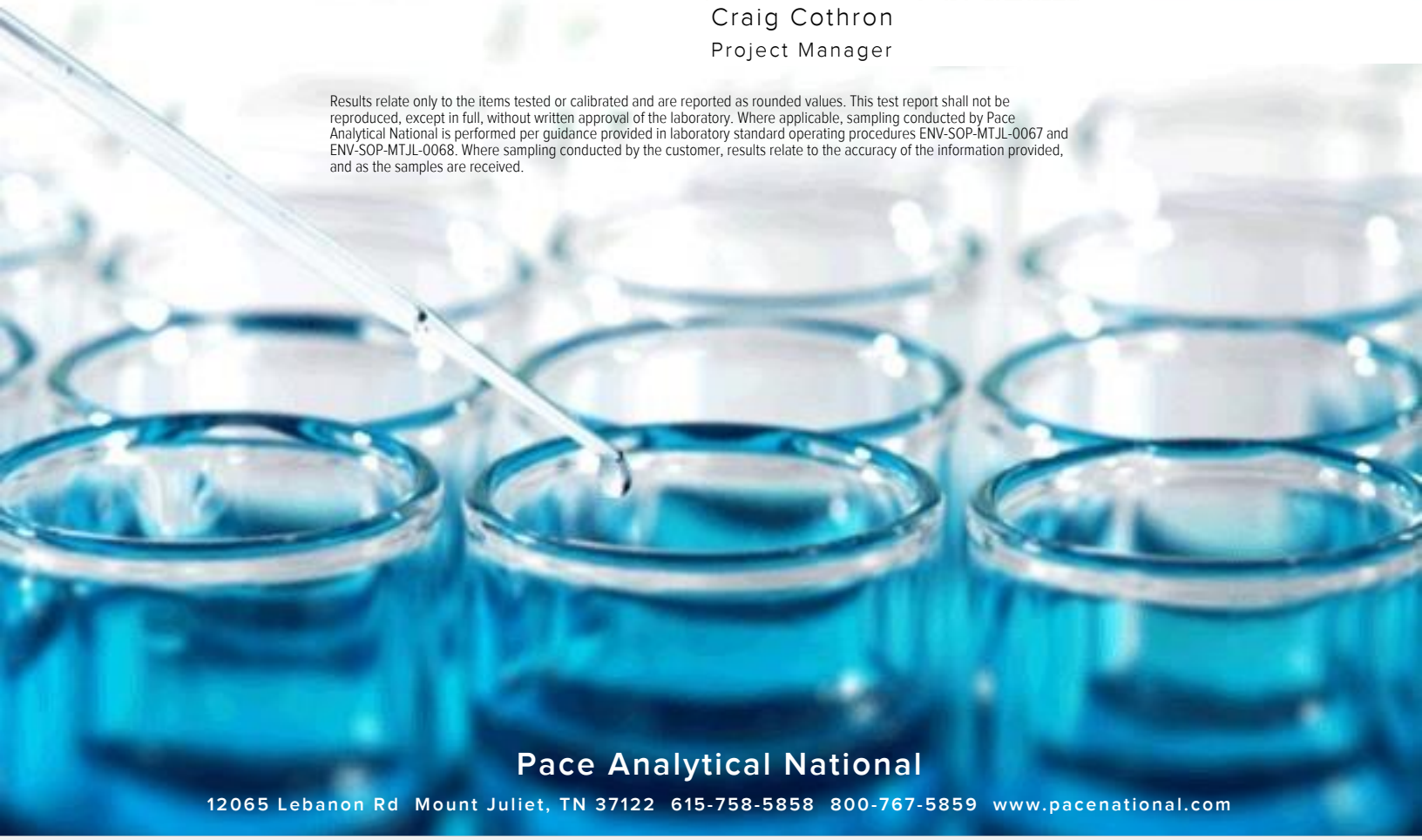
Report To:

Mr. Jerry Paul
3201 Spring Forest Road
Raleigh, NC 27616

Entire Report Reviewed By:

Craig Cothron
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

821-SB-16 L1687657-01 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 09:25 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189419	1	12/14/23 12:37	12/14/23 13:00	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 22:20	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191210	1.91	12/12/23 09:25	12/18/23 00:17	ACG	Mt. Juliet, TN

821-SB-17 L1687657-02 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 09:30 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189419	1	12/14/23 12:37	12/14/23 13:00	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 22:23	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191210	1.05	12/12/23 09:30	12/18/23 00:36	ACG	Mt. Juliet, TN

821-SB-18 L1687657-03 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 09:10 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189419	1	12/14/23 12:37	12/14/23 13:00	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 22:26	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191210	1	12/12/23 09:10	12/18/23 00:55	ACG	Mt. Juliet, TN

821-SB-19 L1687657-04 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 09:15 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189419	1	12/14/23 12:37	12/14/23 13:00	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 22:36	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191210	1	12/12/23 09:15	12/18/23 01:15	ACG	Mt. Juliet, TN

821-SB-20 L1687657-05 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 10:00 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189419	1	12/14/23 12:37	12/14/23 13:00	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 22:39	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191210	1.02	12/12/23 10:00	12/18/23 01:34	ACG	Mt. Juliet, TN

821-SB-21 L1687657-06 Solid

Collected by: Chelsea Parra | Collected date/time: 12/12/23 10:05 | Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2189419	1	12/14/23 12:37	12/14/23 13:00	CMK	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2190437	5	12/16/23 07:34	12/17/23 22:43	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191210	1	12/12/23 10:05	12/18/23 01:53	ACG	Mt. Juliet, TN

TRIP BLANK L1687657-07 GW

Collected by: Chelsea Parra
Collected date/time: 12/12/23 00:00
Received date/time: 12/13/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2191193	1	12/17/23 19:52	12/17/23 19:52	DYW	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Craig Cothron
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	76.2		1	12/14/2023 13:00	WG2189419

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	1090		2.62	5	12/17/2023 22:20	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.141	1.91	12/18/2023 00:17	WG2191210
Acrylonitrile	ND		0.0353	1.91	12/18/2023 00:17	WG2191210
Benzene	ND		0.00282	1.91	12/18/2023 00:17	WG2191210
Bromobenzene	ND		0.0353	1.91	12/18/2023 00:17	WG2191210
Bromodichloromethane	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
Bromoform	ND		0.0705	1.91	12/18/2023 00:17	WG2191210
Bromomethane	ND		0.0353	1.91	12/18/2023 00:17	WG2191210
n-Butylbenzene	ND		0.0353	1.91	12/18/2023 00:17	WG2191210
sec-Butylbenzene	ND		0.0353	1.91	12/18/2023 00:17	WG2191210
tert-Butylbenzene	ND		0.0141	1.91	12/18/2023 00:17	WG2191210
Carbon tetrachloride	ND	J4	0.0141	1.91	12/18/2023 00:17	WG2191210
Chlorobenzene	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
Chlorodibromomethane	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
Chloroethane	ND		0.0141	1.91	12/18/2023 00:17	WG2191210
Chloroform	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
Chloromethane	ND		0.0353	1.91	12/18/2023 00:17	WG2191210
2-Chlorotoluene	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
4-Chlorotoluene	ND		0.0141	1.91	12/18/2023 00:17	WG2191210
1,2-Dibromo-3-Chloropropane	ND		0.0705	1.91	12/18/2023 00:17	WG2191210
1,2-Dibromoethane	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
Dibromomethane	ND		0.0141	1.91	12/18/2023 00:17	WG2191210
1,2-Dichlorobenzene	ND		0.0141	1.91	12/18/2023 00:17	WG2191210
1,3-Dichlorobenzene	ND		0.0141	1.91	12/18/2023 00:17	WG2191210
1,4-Dichlorobenzene	ND		0.0141	1.91	12/18/2023 00:17	WG2191210
Dichlorodifluoromethane	ND		0.0141	1.91	12/18/2023 00:17	WG2191210
1,1-Dichloroethane	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
1,2-Dichloroethane	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
1,1-Dichloroethene	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
cis-1,2-Dichloroethene	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
trans-1,2-Dichloroethene	ND		0.0141	1.91	12/18/2023 00:17	WG2191210
1,2-Dichloropropane	ND		0.0141	1.91	12/18/2023 00:17	WG2191210
1,1-Dichloropropene	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
1,3-Dichloropropane	ND		0.0141	1.91	12/18/2023 00:17	WG2191210
cis-1,3-Dichloropropene	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
trans-1,3-Dichloropropene	ND		0.0141	1.91	12/18/2023 00:17	WG2191210
2,2-Dichloropropane	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
Di-isopropyl ether	ND		0.00282	1.91	12/18/2023 00:17	WG2191210
Ethylbenzene	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
Hexachloro-1,3-butadiene	ND		0.0705	1.91	12/18/2023 00:17	WG2191210
Isopropylbenzene	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
p-Isopropyltoluene	ND		0.0141	1.91	12/18/2023 00:17	WG2191210
2-Butanone (MEK)	ND		0.282	1.91	12/18/2023 00:17	WG2191210
Methylene Chloride	ND		0.0705	1.91	12/18/2023 00:17	WG2191210
4-Methyl-2-pentanone (MIBK)	ND		0.0705	1.91	12/18/2023 00:17	WG2191210
Methyl tert-butyl ether	ND		0.00282	1.91	12/18/2023 00:17	WG2191210

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND		0.0353	1.91	12/18/2023 00:17	WG2191210
n-Propylbenzene	ND		0.0141	1.91	12/18/2023 00:17	WG2191210
Styrene	ND		0.0353	1.91	12/18/2023 00:17	WG2191210
1,1,1,2-Tetrachloroethane	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
1,1,2,2-Tetrachloroethane	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
Tetrachloroethene	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
Toluene	ND		0.0141	1.91	12/18/2023 00:17	WG2191210
1,2,3-Trichlorobenzene	ND		0.0353	1.91	12/18/2023 00:17	WG2191210
1,2,4-Trichlorobenzene	ND		0.0353	1.91	12/18/2023 00:17	WG2191210
1,1,1-Trichloroethane	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
1,1,2-Trichloroethane	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
Trichloroethene	ND		0.00282	1.91	12/18/2023 00:17	WG2191210
Trichlorofluoromethane	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
1,2,3-Trichloropropane	ND		0.0353	1.91	12/18/2023 00:17	WG2191210
1,2,4-Trimethylbenzene	ND		0.0141	1.91	12/18/2023 00:17	WG2191210
1,3,5-Trimethylbenzene	ND		0.0141	1.91	12/18/2023 00:17	WG2191210
Vinyl chloride	ND		0.00705	1.91	12/18/2023 00:17	WG2191210
Xylenes, Total	ND		0.0183	1.91	12/18/2023 00:17	WG2191210
(S) Toluene-d8	*98.2*		*75.0-131*		*12/18/2023 00:17*	WG2191210
(S) 4-Bromofluorobenzene	*106*		*67.0-138*		*12/18/2023 00:17*	WG2191210
(S) 1,2-Dichloroethane-d4	*112*		*70.0-130*		*12/18/2023 00:17*	WG2191210

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.2		1	12/14/2023 13:00	WG2189419

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	1250		2.43	5	12/17/2023 22:23	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0748	1.05	12/18/2023 00:36	WG2191210
Acrylonitrile	ND		0.0187	1.05	12/18/2023 00:36	WG2191210
Benzene	ND		0.00150	1.05	12/18/2023 00:36	WG2191210
Bromobenzene	ND		0.0187	1.05	12/18/2023 00:36	WG2191210
Bromodichloromethane	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
Bromoform	ND		0.0375	1.05	12/18/2023 00:36	WG2191210
Bromomethane	ND		0.0187	1.05	12/18/2023 00:36	WG2191210
n-Butylbenzene	ND		0.0187	1.05	12/18/2023 00:36	WG2191210
sec-Butylbenzene	ND		0.0187	1.05	12/18/2023 00:36	WG2191210
tert-Butylbenzene	ND		0.00748	1.05	12/18/2023 00:36	WG2191210
Carbon tetrachloride	ND	J4	0.00748	1.05	12/18/2023 00:36	WG2191210
Chlorobenzene	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
Chlorodibromomethane	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
Chloroethane	ND		0.00748	1.05	12/18/2023 00:36	WG2191210
Chloroform	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
Chloromethane	ND		0.0187	1.05	12/18/2023 00:36	WG2191210
2-Chlorotoluene	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
4-Chlorotoluene	ND		0.00748	1.05	12/18/2023 00:36	WG2191210
1,2-Dibromo-3-Chloropropane	ND		0.0375	1.05	12/18/2023 00:36	WG2191210
1,2-Dibromoethane	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
Dibromomethane	ND		0.00748	1.05	12/18/2023 00:36	WG2191210
1,2-Dichlorobenzene	ND		0.00748	1.05	12/18/2023 00:36	WG2191210
1,3-Dichlorobenzene	ND		0.00748	1.05	12/18/2023 00:36	WG2191210
1,4-Dichlorobenzene	ND		0.00748	1.05	12/18/2023 00:36	WG2191210
Dichlorodifluoromethane	ND		0.00748	1.05	12/18/2023 00:36	WG2191210
1,1-Dichloroethane	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
1,2-Dichloroethane	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
1,1-Dichloroethene	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
cis-1,2-Dichloroethene	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
trans-1,2-Dichloroethene	ND		0.00748	1.05	12/18/2023 00:36	WG2191210
1,2-Dichloropropane	ND		0.00748	1.05	12/18/2023 00:36	WG2191210
1,1-Dichloropropene	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
1,3-Dichloropropane	ND		0.00748	1.05	12/18/2023 00:36	WG2191210
cis-1,3-Dichloropropene	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
trans-1,3-Dichloropropene	ND		0.00748	1.05	12/18/2023 00:36	WG2191210
2,2-Dichloropropane	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
Di-isopropyl ether	ND		0.00150	1.05	12/18/2023 00:36	WG2191210
Ethylbenzene	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
Hexachloro-1,3-butadiene	ND		0.0375	1.05	12/18/2023 00:36	WG2191210
Isopropylbenzene	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
p-Isopropyltoluene	ND		0.00748	1.05	12/18/2023 00:36	WG2191210
2-Butanone (MEK)	ND		0.150	1.05	12/18/2023 00:36	WG2191210
Methylene Chloride	ND		0.0375	1.05	12/18/2023 00:36	WG2191210
4-Methyl-2-pentanone (MIBK)	ND		0.0375	1.05	12/18/2023 00:36	WG2191210
Methyl tert-butyl ether	ND		0.00150	1.05	12/18/2023 00:36	WG2191210

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND		0.0187	1.05	12/18/2023 00:36	WG2191210
n-Propylbenzene	ND		0.00748	1.05	12/18/2023 00:36	WG2191210
Styrene	ND		0.0187	1.05	12/18/2023 00:36	WG2191210
1,1,1,2-Tetrachloroethane	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
1,1,2,2-Tetrachloroethane	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
Tetrachloroethene	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
Toluene	ND		0.00748	1.05	12/18/2023 00:36	WG2191210
1,2,3-Trichlorobenzene	ND		0.0187	1.05	12/18/2023 00:36	WG2191210
1,2,4-Trichlorobenzene	ND		0.0187	1.05	12/18/2023 00:36	WG2191210
1,1,1-Trichloroethane	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
1,1,2-Trichloroethane	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
Trichloroethene	ND		0.00150	1.05	12/18/2023 00:36	WG2191210
Trichlorofluoromethane	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
1,2,3-Trichloropropane	ND		0.0187	1.05	12/18/2023 00:36	WG2191210
1,2,4-Trimethylbenzene	ND		0.00748	1.05	12/18/2023 00:36	WG2191210
1,3,5-Trimethylbenzene	ND		0.00748	1.05	12/18/2023 00:36	WG2191210
Vinyl chloride	ND		0.00375	1.05	12/18/2023 00:36	WG2191210
Xylenes, Total	ND		0.00973	1.05	12/18/2023 00:36	WG2191210
(S) Toluene-d8	*96.5*		*75.0-131*		*12/18/2023 00:36*	WG2191210
(S) 4-Bromofluorobenzene	*109*		*67.0-138*		*12/18/2023 00:36*	WG2191210
(S) 1,2-Dichloroethane-d4	*111*		*70.0-130*		*12/18/2023 00:36*	WG2191210

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.8		1	12/14/2023 13:00	WG2189419

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	13.7		2.28	5	12/17/2023 22:26	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0639	1	12/18/2023 00:55	WG2191210
Acrylonitrile	ND		0.0160	1	12/18/2023 00:55	WG2191210
Benzene	ND		0.00128	1	12/18/2023 00:55	WG2191210
Bromobenzene	ND		0.0160	1	12/18/2023 00:55	WG2191210
Bromodichloromethane	ND		0.00320	1	12/18/2023 00:55	WG2191210
Bromoform	ND		0.0320	1	12/18/2023 00:55	WG2191210
Bromomethane	ND		0.0160	1	12/18/2023 00:55	WG2191210
n-Butylbenzene	ND		0.0160	1	12/18/2023 00:55	WG2191210
sec-Butylbenzene	ND		0.0160	1	12/18/2023 00:55	WG2191210
tert-Butylbenzene	ND		0.00639	1	12/18/2023 00:55	WG2191210
Carbon tetrachloride	ND	J4	0.00639	1	12/18/2023 00:55	WG2191210
Chlorobenzene	ND		0.00320	1	12/18/2023 00:55	WG2191210
Chlorodibromomethane	ND		0.00320	1	12/18/2023 00:55	WG2191210
Chloroethane	ND		0.00639	1	12/18/2023 00:55	WG2191210
Chloroform	ND		0.00320	1	12/18/2023 00:55	WG2191210
Chloromethane	ND		0.0160	1	12/18/2023 00:55	WG2191210
2-Chlorotoluene	ND		0.00320	1	12/18/2023 00:55	WG2191210
4-Chlorotoluene	ND		0.00639	1	12/18/2023 00:55	WG2191210
1,2-Dibromo-3-Chloropropane	ND		0.0320	1	12/18/2023 00:55	WG2191210
1,2-Dibromoethane	ND		0.00320	1	12/18/2023 00:55	WG2191210
Dibromomethane	ND		0.00639	1	12/18/2023 00:55	WG2191210
1,2-Dichlorobenzene	ND		0.00639	1	12/18/2023 00:55	WG2191210
1,3-Dichlorobenzene	ND		0.00639	1	12/18/2023 00:55	WG2191210
1,4-Dichlorobenzene	ND		0.00639	1	12/18/2023 00:55	WG2191210
Dichlorodifluoromethane	ND		0.00639	1	12/18/2023 00:55	WG2191210
1,1-Dichloroethane	ND		0.00320	1	12/18/2023 00:55	WG2191210
1,2-Dichloroethane	ND		0.00320	1	12/18/2023 00:55	WG2191210
1,1-Dichloroethene	ND		0.00320	1	12/18/2023 00:55	WG2191210
cis-1,2-Dichloroethene	ND		0.00320	1	12/18/2023 00:55	WG2191210
trans-1,2-Dichloroethene	ND		0.00639	1	12/18/2023 00:55	WG2191210
1,2-Dichloropropane	ND		0.00639	1	12/18/2023 00:55	WG2191210
1,1-Dichloropropene	ND		0.00320	1	12/18/2023 00:55	WG2191210
1,3-Dichloropropane	ND		0.00639	1	12/18/2023 00:55	WG2191210
cis-1,3-Dichloropropene	ND		0.00320	1	12/18/2023 00:55	WG2191210
trans-1,3-Dichloropropene	ND		0.00639	1	12/18/2023 00:55	WG2191210
2,2-Dichloropropane	ND		0.00320	1	12/18/2023 00:55	WG2191210
Di-isopropyl ether	ND		0.00128	1	12/18/2023 00:55	WG2191210
Ethylbenzene	ND		0.00320	1	12/18/2023 00:55	WG2191210
Hexachloro-1,3-butadiene	ND		0.0320	1	12/18/2023 00:55	WG2191210
Isopropylbenzene	ND		0.00320	1	12/18/2023 00:55	WG2191210
p-Isopropyltoluene	ND		0.00639	1	12/18/2023 00:55	WG2191210
2-Butanone (MEK)	ND		0.128	1	12/18/2023 00:55	WG2191210
Methylene Chloride	ND		0.0320	1	12/18/2023 00:55	WG2191210
4-Methyl-2-pentanone (MIBK)	ND		0.0320	1	12/18/2023 00:55	WG2191210
Methyl tert-butyl ether	ND		0.00128	1	12/18/2023 00:55	WG2191210

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND		0.0160	1	12/18/2023 00:55	WG2191210
n-Propylbenzene	ND		0.00639	1	12/18/2023 00:55	WG2191210
Styrene	ND		0.0160	1	12/18/2023 00:55	WG2191210
1,1,1,2-Tetrachloroethane	ND		0.00320	1	12/18/2023 00:55	WG2191210
1,1,2,2-Tetrachloroethane	ND		0.00320	1	12/18/2023 00:55	WG2191210
Tetrachloroethene	ND		0.00320	1	12/18/2023 00:55	WG2191210
Toluene	ND		0.00639	1	12/18/2023 00:55	WG2191210
1,2,3-Trichlorobenzene	ND		0.0160	1	12/18/2023 00:55	WG2191210
1,2,4-Trichlorobenzene	ND		0.0160	1	12/18/2023 00:55	WG2191210
1,1,1-Trichloroethane	ND		0.00320	1	12/18/2023 00:55	WG2191210
1,1,2-Trichloroethane	ND		0.00320	1	12/18/2023 00:55	WG2191210
Trichloroethene	ND		0.00128	1	12/18/2023 00:55	WG2191210
Trichlorofluoromethane	ND		0.00320	1	12/18/2023 00:55	WG2191210
1,2,3-Trichloropropane	ND		0.0160	1	12/18/2023 00:55	WG2191210
1,2,4-Trimethylbenzene	ND		0.00639	1	12/18/2023 00:55	WG2191210
1,3,5-Trimethylbenzene	ND		0.00639	1	12/18/2023 00:55	WG2191210
Vinyl chloride	ND		0.00320	1	12/18/2023 00:55	WG2191210
Xylenes, Total	ND		0.00831	1	12/18/2023 00:55	WG2191210
(S) Toluene-d8	*99.1*		*75.0-131*		*12/18/2023 00:55*	WG2191210
(S) 4-Bromofluorobenzene	*107*		*67.0-138*		*12/18/2023 00:55*	WG2191210
(S) 1,2-Dichloroethane-d4	*111*		*70.0-130*		*12/18/2023 00:55*	WG2191210

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.1		1	12/14/2023 13:00	WG2189419

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	18.1		2.35	5	12/17/2023 22:36	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0684	1	12/18/2023 01:15	WG2191210
Acrylonitrile	ND		0.0171	1	12/18/2023 01:15	WG2191210
Benzene	ND		0.00137	1	12/18/2023 01:15	WG2191210
Bromobenzene	ND		0.0171	1	12/18/2023 01:15	WG2191210
Bromodichloromethane	ND		0.00342	1	12/18/2023 01:15	WG2191210
Bromoform	ND		0.0342	1	12/18/2023 01:15	WG2191210
Bromomethane	ND		0.0171	1	12/18/2023 01:15	WG2191210
n-Butylbenzene	ND		0.0171	1	12/18/2023 01:15	WG2191210
sec-Butylbenzene	ND		0.0171	1	12/18/2023 01:15	WG2191210
tert-Butylbenzene	ND		0.00684	1	12/18/2023 01:15	WG2191210
Carbon tetrachloride	ND	J4	0.00684	1	12/18/2023 01:15	WG2191210
Chlorobenzene	ND		0.00342	1	12/18/2023 01:15	WG2191210
Chlorodibromomethane	ND		0.00342	1	12/18/2023 01:15	WG2191210
Chloroethane	ND		0.00684	1	12/18/2023 01:15	WG2191210
Chloroform	ND		0.00342	1	12/18/2023 01:15	WG2191210
Chloromethane	ND		0.0171	1	12/18/2023 01:15	WG2191210
2-Chlorotoluene	ND		0.00342	1	12/18/2023 01:15	WG2191210
4-Chlorotoluene	ND		0.00684	1	12/18/2023 01:15	WG2191210
1,2-Dibromo-3-Chloropropane	ND		0.0342	1	12/18/2023 01:15	WG2191210
1,2-Dibromoethane	ND		0.00342	1	12/18/2023 01:15	WG2191210
Dibromomethane	ND		0.00684	1	12/18/2023 01:15	WG2191210
1,2-Dichlorobenzene	ND		0.00684	1	12/18/2023 01:15	WG2191210
1,3-Dichlorobenzene	ND		0.00684	1	12/18/2023 01:15	WG2191210
1,4-Dichlorobenzene	ND		0.00684	1	12/18/2023 01:15	WG2191210
Dichlorodifluoromethane	ND		0.00684	1	12/18/2023 01:15	WG2191210
1,1-Dichloroethane	ND		0.00342	1	12/18/2023 01:15	WG2191210
1,2-Dichloroethane	ND		0.00342	1	12/18/2023 01:15	WG2191210
1,1-Dichloroethene	ND		0.00342	1	12/18/2023 01:15	WG2191210
cis-1,2-Dichloroethene	ND		0.00342	1	12/18/2023 01:15	WG2191210
trans-1,2-Dichloroethene	ND		0.00684	1	12/18/2023 01:15	WG2191210
1,2-Dichloropropane	ND		0.00684	1	12/18/2023 01:15	WG2191210
1,1-Dichloropropene	ND		0.00342	1	12/18/2023 01:15	WG2191210
1,3-Dichloropropane	ND		0.00684	1	12/18/2023 01:15	WG2191210
cis-1,3-Dichloropropene	ND		0.00342	1	12/18/2023 01:15	WG2191210
trans-1,3-Dichloropropene	ND		0.00684	1	12/18/2023 01:15	WG2191210
2,2-Dichloropropane	ND		0.00342	1	12/18/2023 01:15	WG2191210
Di-isopropyl ether	ND		0.00137	1	12/18/2023 01:15	WG2191210
Ethylbenzene	ND		0.00342	1	12/18/2023 01:15	WG2191210
Hexachloro-1,3-butadiene	ND		0.0342	1	12/18/2023 01:15	WG2191210
Isopropylbenzene	ND		0.00342	1	12/18/2023 01:15	WG2191210
p-Isopropyltoluene	ND		0.00684	1	12/18/2023 01:15	WG2191210
2-Butanone (MEK)	ND		0.137	1	12/18/2023 01:15	WG2191210
Methylene Chloride	ND		0.0342	1	12/18/2023 01:15	WG2191210
4-Methyl-2-pentanone (MIBK)	ND		0.0342	1	12/18/2023 01:15	WG2191210
Methyl tert-butyl ether	ND		0.00137	1	12/18/2023 01:15	WG2191210

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND		0.0171	1	12/18/2023 01:15	WG2191210
n-Propylbenzene	ND		0.00684	1	12/18/2023 01:15	WG2191210
Styrene	ND		0.0171	1	12/18/2023 01:15	WG2191210
1,1,1,2-Tetrachloroethane	ND		0.00342	1	12/18/2023 01:15	WG2191210
1,1,2,2-Tetrachloroethane	ND		0.00342	1	12/18/2023 01:15	WG2191210
Tetrachloroethene	ND		0.00342	1	12/18/2023 01:15	WG2191210
Toluene	ND		0.00684	1	12/18/2023 01:15	WG2191210
1,2,3-Trichlorobenzene	ND		0.0171	1	12/18/2023 01:15	WG2191210
1,2,4-Trichlorobenzene	ND		0.0171	1	12/18/2023 01:15	WG2191210
1,1,1-Trichloroethane	ND		0.00342	1	12/18/2023 01:15	WG2191210
1,1,2-Trichloroethane	ND		0.00342	1	12/18/2023 01:15	WG2191210
Trichloroethene	ND		0.00137	1	12/18/2023 01:15	WG2191210
Trichlorofluoromethane	ND		0.00342	1	12/18/2023 01:15	WG2191210
1,2,3-Trichloropropane	ND		0.0171	1	12/18/2023 01:15	WG2191210
1,2,4-Trimethylbenzene	ND		0.00684	1	12/18/2023 01:15	WG2191210
1,3,5-Trimethylbenzene	ND		0.00684	1	12/18/2023 01:15	WG2191210
Vinyl chloride	ND		0.00342	1	12/18/2023 01:15	WG2191210
Xylenes, Total	ND		0.00890	1	12/18/2023 01:15	WG2191210
(S) Toluene-d8	*98.3*		*75.0-131*		*12/18/2023 01:15*	WG2191210
(S) 4-Bromofluorobenzene	*103*		*67.0-138*		*12/18/2023 01:15*	WG2191210
(S) 1,2-Dichloroethane-d4	*112*		*70.0-130*		*12/18/2023 01:15*	WG2191210

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.2		1	12/14/2023 13:00	WG2189419

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	355		2.38	5	12/17/2023 22:39	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0700	1.02	12/18/2023 01:34	WG2191210
Acrylonitrile	ND		0.0176	1.02	12/18/2023 01:34	WG2191210
Benzene	ND		0.00140	1.02	12/18/2023 01:34	WG2191210
Bromobenzene	ND		0.0176	1.02	12/18/2023 01:34	WG2191210
Bromodichloromethane	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
Bromoform	ND		0.0350	1.02	12/18/2023 01:34	WG2191210
Bromomethane	ND		0.0176	1.02	12/18/2023 01:34	WG2191210
n-Butylbenzene	ND		0.0176	1.02	12/18/2023 01:34	WG2191210
sec-Butylbenzene	ND		0.0176	1.02	12/18/2023 01:34	WG2191210
tert-Butylbenzene	ND		0.00700	1.02	12/18/2023 01:34	WG2191210
Carbon tetrachloride	ND	J4	0.00700	1.02	12/18/2023 01:34	WG2191210
Chlorobenzene	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
Chlorodibromomethane	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
Chloroethane	ND		0.00700	1.02	12/18/2023 01:34	WG2191210
Chloroform	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
Chloromethane	ND		0.0176	1.02	12/18/2023 01:34	WG2191210
2-Chlorotoluene	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
4-Chlorotoluene	ND		0.00700	1.02	12/18/2023 01:34	WG2191210
1,2-Dibromo-3-Chloropropane	ND		0.0350	1.02	12/18/2023 01:34	WG2191210
1,2-Dibromoethane	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
Dibromomethane	ND		0.00700	1.02	12/18/2023 01:34	WG2191210
1,2-Dichlorobenzene	ND		0.00700	1.02	12/18/2023 01:34	WG2191210
1,3-Dichlorobenzene	ND		0.00700	1.02	12/18/2023 01:34	WG2191210
1,4-Dichlorobenzene	ND		0.00700	1.02	12/18/2023 01:34	WG2191210
Dichlorodifluoromethane	ND		0.00700	1.02	12/18/2023 01:34	WG2191210
1,1-Dichloroethane	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
1,2-Dichloroethane	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
1,1-Dichloroethene	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
cis-1,2-Dichloroethene	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
trans-1,2-Dichloroethene	ND		0.00700	1.02	12/18/2023 01:34	WG2191210
1,2-Dichloropropane	ND		0.00700	1.02	12/18/2023 01:34	WG2191210
1,1-Dichloropropene	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
1,3-Dichloropropane	ND		0.00700	1.02	12/18/2023 01:34	WG2191210
cis-1,3-Dichloropropene	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
trans-1,3-Dichloropropene	ND		0.00700	1.02	12/18/2023 01:34	WG2191210
2,2-Dichloropropane	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
Di-isopropyl ether	ND		0.00140	1.02	12/18/2023 01:34	WG2191210
Ethylbenzene	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
Hexachloro-1,3-butadiene	ND		0.0350	1.02	12/18/2023 01:34	WG2191210
Isopropylbenzene	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
p-Isopropyltoluene	ND		0.00700	1.02	12/18/2023 01:34	WG2191210
2-Butanone (MEK)	ND		0.140	1.02	12/18/2023 01:34	WG2191210
Methylene Chloride	ND		0.0350	1.02	12/18/2023 01:34	WG2191210
4-Methyl-2-pentanone (MIBK)	ND		0.0350	1.02	12/18/2023 01:34	WG2191210
Methyl tert-butyl ether	ND		0.00140	1.02	12/18/2023 01:34	WG2191210

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND		0.0176	1.02	12/18/2023 01:34	WG2191210
n-Propylbenzene	ND		0.00700	1.02	12/18/2023 01:34	WG2191210
Styrene	ND		0.0176	1.02	12/18/2023 01:34	WG2191210
1,1,1,2-Tetrachloroethane	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
1,1,2,2-Tetrachloroethane	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
Tetrachloroethene	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
Toluene	ND		0.00700	1.02	12/18/2023 01:34	WG2191210
1,2,3-Trichlorobenzene	ND		0.0176	1.02	12/18/2023 01:34	WG2191210
1,2,4-Trichlorobenzene	ND		0.0176	1.02	12/18/2023 01:34	WG2191210
1,1,1-Trichloroethane	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
1,1,2-Trichloroethane	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
Trichloroethene	ND		0.00140	1.02	12/18/2023 01:34	WG2191210
Trichlorofluoromethane	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
1,2,3-Trichloropropane	ND		0.0176	1.02	12/18/2023 01:34	WG2191210
1,2,4-Trimethylbenzene	ND		0.00700	1.02	12/18/2023 01:34	WG2191210
1,3,5-Trimethylbenzene	ND		0.00700	1.02	12/18/2023 01:34	WG2191210
Vinyl chloride	ND		0.00350	1.02	12/18/2023 01:34	WG2191210
Xylenes, Total	ND		0.00910	1.02	12/18/2023 01:34	WG2191210
(S) Toluene-d8	*98.4*		*75.0-131*		*12/18/2023 01:34*	WG2191210
(S) 4-Bromofluorobenzene	*103*		*67.0-138*		*12/18/2023 01:34*	WG2191210
(S) 1,2-Dichloroethane-d4	*112*		*70.0-130*		*12/18/2023 01:34*	WG2191210

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.5		1	12/14/2023 13:00	WG2189419

Metals (ICPMS) by Method 6020

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	62.5		2.23	5	12/17/2023 22:43	WG2190437

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0620	1	12/18/2023 01:53	WG2191210
Acrylonitrile	ND		0.0155	1	12/18/2023 01:53	WG2191210
Benzene	ND		0.00124	1	12/18/2023 01:53	WG2191210
Bromobenzene	ND		0.0155	1	12/18/2023 01:53	WG2191210
Bromodichloromethane	ND		0.00310	1	12/18/2023 01:53	WG2191210
Bromoform	ND		0.0310	1	12/18/2023 01:53	WG2191210
Bromomethane	ND		0.0155	1	12/18/2023 01:53	WG2191210
n-Butylbenzene	ND		0.0155	1	12/18/2023 01:53	WG2191210
sec-Butylbenzene	ND		0.0155	1	12/18/2023 01:53	WG2191210
tert-Butylbenzene	ND		0.00620	1	12/18/2023 01:53	WG2191210
Carbon tetrachloride	ND	J4	0.00620	1	12/18/2023 01:53	WG2191210
Chlorobenzene	ND		0.00310	1	12/18/2023 01:53	WG2191210
Chlorodibromomethane	ND		0.00310	1	12/18/2023 01:53	WG2191210
Chloroethane	ND		0.00620	1	12/18/2023 01:53	WG2191210
Chloroform	ND		0.00310	1	12/18/2023 01:53	WG2191210
Chloromethane	ND		0.0155	1	12/18/2023 01:53	WG2191210
2-Chlorotoluene	ND		0.00310	1	12/18/2023 01:53	WG2191210
4-Chlorotoluene	ND		0.00620	1	12/18/2023 01:53	WG2191210
1,2-Dibromo-3-Chloropropane	ND		0.0310	1	12/18/2023 01:53	WG2191210
1,2-Dibromoethane	ND		0.00310	1	12/18/2023 01:53	WG2191210
Dibromomethane	ND		0.00620	1	12/18/2023 01:53	WG2191210
1,2-Dichlorobenzene	ND		0.00620	1	12/18/2023 01:53	WG2191210
1,3-Dichlorobenzene	ND		0.00620	1	12/18/2023 01:53	WG2191210
1,4-Dichlorobenzene	ND		0.00620	1	12/18/2023 01:53	WG2191210
Dichlorodifluoromethane	ND		0.00620	1	12/18/2023 01:53	WG2191210
1,1-Dichloroethane	ND		0.00310	1	12/18/2023 01:53	WG2191210
1,2-Dichloroethane	ND		0.00310	1	12/18/2023 01:53	WG2191210
1,1-Dichloroethene	ND		0.00310	1	12/18/2023 01:53	WG2191210
cis-1,2-Dichloroethene	ND		0.00310	1	12/18/2023 01:53	WG2191210
trans-1,2-Dichloroethene	ND		0.00620	1	12/18/2023 01:53	WG2191210
1,2-Dichloropropane	ND		0.00620	1	12/18/2023 01:53	WG2191210
1,1-Dichloropropene	ND		0.00310	1	12/18/2023 01:53	WG2191210
1,3-Dichloropropane	ND		0.00620	1	12/18/2023 01:53	WG2191210
cis-1,3-Dichloropropene	ND		0.00310	1	12/18/2023 01:53	WG2191210
trans-1,3-Dichloropropene	ND		0.00620	1	12/18/2023 01:53	WG2191210
2,2-Dichloropropane	ND		0.00310	1	12/18/2023 01:53	WG2191210
Di-isopropyl ether	ND		0.00124	1	12/18/2023 01:53	WG2191210
Ethylbenzene	ND		0.00310	1	12/18/2023 01:53	WG2191210
Hexachloro-1,3-butadiene	ND		0.0310	1	12/18/2023 01:53	WG2191210
Isopropylbenzene	ND		0.00310	1	12/18/2023 01:53	WG2191210
p-Isopropyltoluene	ND		0.00620	1	12/18/2023 01:53	WG2191210
2-Butanone (MEK)	ND		0.124	1	12/18/2023 01:53	WG2191210
Methylene Chloride	ND		0.0310	1	12/18/2023 01:53	WG2191210
4-Methyl-2-pentanone (MIBK)	ND		0.0310	1	12/18/2023 01:53	WG2191210
Methyl tert-butyl ether	ND		0.00124	1	12/18/2023 01:53	WG2191210

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	ND		0.0155	1	12/18/2023 01:53	WG2191210
n-Propylbenzene	ND		0.00620	1	12/18/2023 01:53	WG2191210
Styrene	ND		0.0155	1	12/18/2023 01:53	WG2191210
1,1,1,2-Tetrachloroethane	ND		0.00310	1	12/18/2023 01:53	WG2191210
1,1,2,2-Tetrachloroethane	ND		0.00310	1	12/18/2023 01:53	WG2191210
Tetrachloroethene	ND		0.00310	1	12/18/2023 01:53	WG2191210
Toluene	0.00686		0.00620	1	12/18/2023 01:53	WG2191210
1,2,3-Trichlorobenzene	ND		0.0155	1	12/18/2023 01:53	WG2191210
1,2,4-Trichlorobenzene	ND		0.0155	1	12/18/2023 01:53	WG2191210
1,1,1-Trichloroethane	ND		0.00310	1	12/18/2023 01:53	WG2191210
1,1,2-Trichloroethane	ND		0.00310	1	12/18/2023 01:53	WG2191210
Trichloroethene	ND		0.00124	1	12/18/2023 01:53	WG2191210
Trichlorofluoromethane	ND		0.00310	1	12/18/2023 01:53	WG2191210
1,2,3-Trichloropropane	ND		0.0155	1	12/18/2023 01:53	WG2191210
1,2,4-Trimethylbenzene	ND		0.00620	1	12/18/2023 01:53	WG2191210
1,3,5-Trimethylbenzene	ND		0.00620	1	12/18/2023 01:53	WG2191210
Vinyl chloride	ND		0.00310	1	12/18/2023 01:53	WG2191210
Xylenes, Total	0.0117		0.00806	1	12/18/2023 01:53	WG2191210
(S) Toluene-d8	*99.8*		*75.0-131*		*12/18/2023 01:53*	WG2191210
(S) 4-Bromofluorobenzene	*106*		*67.0-138*		*12/18/2023 01:53*	WG2191210
(S) 1,2-Dichloroethane-d4	*114*		*70.0-130*		*12/18/2023 01:53*	WG2191210

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	12/17/2023 19:52	WG2191193
Acrolein	ND	C3 J3	50.0	1	12/17/2023 19:52	WG2191193
Acrylonitrile	ND		10.0	1	12/17/2023 19:52	WG2191193
Benzene	ND		1.00	1	12/17/2023 19:52	WG2191193
Bromobenzene	ND		1.00	1	12/17/2023 19:52	WG2191193
Bromodichloromethane	ND		1.00	1	12/17/2023 19:52	WG2191193
Bromoform	ND		1.00	1	12/17/2023 19:52	WG2191193
Bromomethane	ND		5.00	1	12/17/2023 19:52	WG2191193
n-Butylbenzene	ND		1.00	1	12/17/2023 19:52	WG2191193
sec-Butylbenzene	ND		1.00	1	12/17/2023 19:52	WG2191193
tert-Butylbenzene	ND		1.00	1	12/17/2023 19:52	WG2191193
Carbon tetrachloride	ND		1.00	1	12/17/2023 19:52	WG2191193
Chlorobenzene	ND		1.00	1	12/17/2023 19:52	WG2191193
Chlorodibromomethane	ND		1.00	1	12/17/2023 19:52	WG2191193
Chloroethane	ND		5.00	1	12/17/2023 19:52	WG2191193
Chloroform	ND		5.00	1	12/17/2023 19:52	WG2191193
Chloromethane	ND		2.50	1	12/17/2023 19:52	WG2191193
2-Chlorotoluene	ND		1.00	1	12/17/2023 19:52	WG2191193
4-Chlorotoluene	ND		1.00	1	12/17/2023 19:52	WG2191193
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/17/2023 19:52	WG2191193
1,2-Dibromoethane	ND		1.00	1	12/17/2023 19:52	WG2191193
Dibromomethane	ND		1.00	1	12/17/2023 19:52	WG2191193
1,2-Dichlorobenzene	ND		1.00	1	12/17/2023 19:52	WG2191193
1,3-Dichlorobenzene	ND		1.00	1	12/17/2023 19:52	WG2191193
1,4-Dichlorobenzene	ND		1.00	1	12/17/2023 19:52	WG2191193
Dichlorodifluoromethane	ND	J3	5.00	1	12/17/2023 19:52	WG2191193
1,1-Dichloroethane	ND		1.00	1	12/17/2023 19:52	WG2191193
1,2-Dichloroethane	ND		1.00	1	12/17/2023 19:52	WG2191193
1,1-Dichloroethene	ND		1.00	1	12/17/2023 19:52	WG2191193
cis-1,2-Dichloroethene	ND		1.00	1	12/17/2023 19:52	WG2191193
trans-1,2-Dichloroethene	ND		1.00	1	12/17/2023 19:52	WG2191193
1,2-Dichloropropane	ND		1.00	1	12/17/2023 19:52	WG2191193
1,1-Dichloropropene	ND		1.00	1	12/17/2023 19:52	WG2191193
1,3-Dichloropropane	ND		1.00	1	12/17/2023 19:52	WG2191193
cis-1,3-Dichloropropene	ND		1.00	1	12/17/2023 19:52	WG2191193
trans-1,3-Dichloropropene	ND		1.00	1	12/17/2023 19:52	WG2191193
2,2-Dichloropropane	ND		1.00	1	12/17/2023 19:52	WG2191193
Di-isopropyl ether	ND		1.00	1	12/17/2023 19:52	WG2191193
Ethylbenzene	ND		1.00	1	12/17/2023 19:52	WG2191193
Hexachloro-1,3-butadiene	ND	C3 J3	1.00	1	12/17/2023 19:52	WG2191193
Isopropylbenzene	ND		1.00	1	12/17/2023 19:52	WG2191193
p-Isopropyltoluene	ND		1.00	1	12/17/2023 19:52	WG2191193
2-Butanone (MEK)	ND		10.0	1	12/17/2023 19:52	WG2191193
Methylene Chloride	ND		5.00	1	12/17/2023 19:52	WG2191193
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/17/2023 19:52	WG2191193
Methyl tert-butyl ether	ND		1.00	1	12/17/2023 19:52	WG2191193
Naphthalene	ND	C3	5.00	1	12/17/2023 19:52	WG2191193
n-Propylbenzene	ND		1.00	1	12/17/2023 19:52	WG2191193
Styrene	ND		1.00	1	12/17/2023 19:52	WG2191193
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/17/2023 19:52	WG2191193
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/17/2023 19:52	WG2191193
Tetrachloroethene	ND		1.00	1	12/17/2023 19:52	WG2191193
Toluene	ND		1.00	1	12/17/2023 19:52	WG2191193
1,2,3-Trichlorobenzene	ND	C3	1.00	1	12/17/2023 19:52	WG2191193
1,2,4-Trichlorobenzene	ND	C3	1.00	1	12/17/2023 19:52	WG2191193
1,1,1-Trichloroethane	ND		1.00	1	12/17/2023 19:52	WG2191193

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		1.00	1	12/17/2023 19:52	WG2191193
Trichloroethene	ND		1.00	1	12/17/2023 19:52	WG2191193
Trichlorofluoromethane	ND		5.00	1	12/17/2023 19:52	WG2191193
1,2,3-Trichloropropane	ND		2.50	1	12/17/2023 19:52	WG2191193
1,2,4-Trimethylbenzene	ND		1.00	1	12/17/2023 19:52	WG2191193
1,3,5-Trimethylbenzene	ND		1.00	1	12/17/2023 19:52	WG2191193
Vinyl chloride	ND		1.00	1	12/17/2023 19:52	WG2191193
Xylenes, Total	ND		3.00	1	12/17/2023 19:52	WG2191193
(S) Toluene-d8	*106*		*80.0-120*		*12/17/2023 19:52*	WG2191193
(S) 4-Bromofluorobenzene	*103*		*77.0-126*		*12/17/2023 19:52*	WG2191193
(S) 1,2-Dichloroethane-d4	*89.9*		*70.0-130*		*12/17/2023 19:52*	WG2191193

Method Blank (MB)

(MB) R4012798-1 12/14/23 13:00

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00300			

L1687656-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1687656-02 12/14/23 13:00 • (DUP) R4012798-3 12/14/23 13:00

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	92.6	92.4	1	0.251		10

Laboratory Control Sample (LCS)

(LCS) R4012798-2 12/14/23 13:00

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	90.0-110	

Method Blank (MB)

(MB) R4013577-1 12/17/23 21:57

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.0990	2.00

Laboratory Control Sample (LCS)

(LCS) R4013577-2 12/17/23 22:00

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	91.4	91.4	80.0-120	

L1687684-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1687684-02 12/17/23 22:04 • (MS) R4013577-5 12/17/23 22:13 • (MSD) R4013577-6 12/17/23 22:17

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	123	53.8	136	151	66.6	78.9	5	75.0-125	J6		10.6	20

Method Blank (MB)

(MB) R4013782-3 12/17/23 17:47

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00
Hexachloro-1,3-butadiene	U		0.337	1.00

QUALITY CONTROL SUMMARY

L1687657-07

Method Blank (MB)

(MB) R4013782-3 12/17/23 17:47

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Isopropylbenzene	U		0.105	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	*109*			*80.0-120*
(S) 4-Bromofluorobenzene	*100*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*88.0*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4013782-1 12/17/23 16:50 • (LCSD) R4013782-2 12/17/23 17:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	34.2	33.0	137	132	19.0-160			3.57	27
Acrolein	25.0	7.56	20.2	30.2	80.8	10.0-160		J3	91.1	26
Acrylonitrile	25.0	25.8	26.6	103	106	55.0-149			3.05	20
Benzene	5.00	4.69	4.54	93.8	90.8	70.0-123			3.25	20
Bromobenzene	5.00	4.97	4.82	99.4	96.4	73.0-121			3.06	20
Bromodichloromethane	5.00	4.65	4.20	93.0	84.0	75.0-120			10.2	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4013782-1 12/17/23 16:50 • (LCSD) R4013782-2 12/17/23 17:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	5.00	4.78	4.64	95.6	92.8	68.0-132			2.97	20
Bromomethane	5.00	4.52	4.03	90.4	80.6	10.0-160			11.5	25
n-Butylbenzene	5.00	4.77	4.77	95.4	95.4	73.0-125			0.000	20
sec-Butylbenzene	5.00	4.69	4.68	93.8	93.6	75.0-125			0.213	20
tert-Butylbenzene	5.00	4.89	4.77	97.8	95.4	76.0-124			2.48	20
Carbon tetrachloride	5.00	4.04	3.56	80.8	71.2	68.0-126			12.6	20
Chlorobenzene	5.00	5.04	4.94	101	98.8	80.0-121			2.00	20
Chlorodibromomethane	5.00	5.46	5.17	109	103	77.0-125			5.46	20
Chloroethane	5.00	4.35	3.87	87.0	77.4	47.0-150			11.7	20
Chloroform	5.00	4.45	4.07	89.0	81.4	73.0-120			8.92	20
Chloromethane	5.00	4.30	3.73	86.0	74.6	41.0-142			14.2	20
2-Chlorotoluene	5.00	4.71	4.85	94.2	97.0	76.0-123			2.93	20
4-Chlorotoluene	5.00	4.94	4.83	98.8	96.6	75.0-122			2.25	20
1,2-Dibromo-3-Chloropropane	5.00	4.99	5.13	99.8	103	58.0-134			2.77	20
1,2-Dibromoethane	5.00	5.51	5.37	110	107	80.0-122			2.57	20
Dibromomethane	5.00	5.18	5.16	104	103	80.0-120			0.387	20
1,2-Dichlorobenzene	5.00	4.77	4.45	95.4	89.0	79.0-121			6.94	20
1,3-Dichlorobenzene	5.00	4.94	5.02	98.8	100	79.0-120			1.61	20
1,4-Dichlorobenzene	5.00	4.87	4.54	97.4	90.8	79.0-120			7.01	20
Dichlorodifluoromethane	5.00	4.05	3.12	81.0	62.4	51.0-149		J3	25.9	20
1,1-Dichloroethane	5.00	4.60	4.30	92.0	86.0	70.0-126			6.74	20
1,2-Dichloroethane	5.00	4.02	4.14	80.4	82.8	70.0-128			2.94	20
1,1-Dichloroethene	5.00	4.29	4.09	85.8	81.8	71.0-124			4.77	20
cis-1,2-Dichloroethene	5.00	5.05	4.95	101	99.0	73.0-120			2.00	20
trans-1,2-Dichloroethene	5.00	4.78	4.36	95.6	87.2	73.0-120			9.19	20
1,2-Dichloropropane	5.00	5.20	5.04	104	101	77.0-125			3.12	20
1,1-Dichloropropene	5.00	4.14	3.88	82.8	77.6	74.0-126			6.48	20
1,3-Dichloropropane	5.00	5.06	5.11	101	102	80.0-120			0.983	20
cis-1,3-Dichloropropene	5.00	4.83	4.70	96.6	94.0	80.0-123			2.73	20
trans-1,3-Dichloropropene	5.00	4.83	5.16	96.6	103	78.0-124			6.61	20
2,2-Dichloropropane	5.00	4.37	4.32	87.4	86.4	58.0-130			1.15	20
Di-isopropyl ether	5.00	4.56	4.47	91.2	89.4	58.0-138			1.99	20
Ethylbenzene	5.00	5.03	4.82	101	96.4	79.0-123			4.26	20
Hexachloro-1,3-butadiene	5.00	3.55	2.80	71.0	56.0	54.0-138		J3	23.6	20
Isopropylbenzene	5.00	4.85	4.65	97.0	93.0	76.0-127			4.21	20
p-Isopropyltoluene	5.00	4.91	4.53	98.2	90.6	76.0-125			8.05	20
2-Butanone (MEK)	25.0	38.5	32.5	154	130	44.0-160			16.9	20
Methylene Chloride	5.00	5.52	5.02	110	100	67.0-120			9.49	20
4-Methyl-2-pentanone (MIBK)	25.0	26.7	27.4	107	110	68.0-142			2.59	20
Methyl tert-butyl ether	5.00	4.76	4.66	95.2	93.2	68.0-125			2.12	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4013782-1 12/17/23 16:50 • (LCSD) R4013782-2 12/17/23 17:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	5.00	3.56	3.92	71.2	78.4	54.0-135			9.63	20
n-Propylbenzene	5.00	4.94	4.91	98.8	98.2	77.0-124			0.609	20
Styrene	5.00	5.20	4.94	104	98.8	73.0-130			5.13	20
1,1,1,2-Tetrachloroethane	5.00	4.89	4.86	97.8	97.2	75.0-125			0.615	20
1,1,2,2-Tetrachloroethane	5.00	5.36	5.90	107	118	65.0-130			9.59	20
Tetrachloroethene	5.00	4.70	4.34	94.0	86.8	72.0-132			7.96	20
Toluene	5.00	4.70	4.96	94.0	99.2	79.0-120			5.38	20
1,2,3-Trichlorobenzene	5.00	2.78	2.83	55.6	56.6	50.0-138			1.78	20
1,2,4-Trichlorobenzene	5.00	3.83	3.37	76.6	67.4	57.0-137			12.8	20
1,1,1-Trichloroethane	5.00	4.18	3.67	83.6	73.4	73.0-124			13.0	20
1,1,2-Trichloroethane	5.00	4.86	5.41	97.2	108	80.0-120			10.7	20
Trichloroethene	5.00	4.53	4.34	90.6	86.8	78.0-124			4.28	20
Trichlorofluoromethane	5.00	4.01	3.48	80.2	69.6	59.0-147			14.2	20
1,2,3-Trichloropropane	5.00	5.60	5.07	112	101	73.0-130			9.93	20
1,2,4-Trimethylbenzene	5.00	4.90	4.73	98.0	94.6	76.0-121			3.53	20
1,3,5-Trimethylbenzene	5.00	4.82	4.86	96.4	97.2	76.0-122			0.826	20
Vinyl chloride	5.00	4.14	3.79	82.8	75.8	67.0-131			8.83	20
Xylenes, Total	15.0	15.1	14.2	101	94.7	79.0-123			6.14	20
(S) Toluene-d8				*103*	*106*	*80.0-120*				
(S) 4-Bromofluorobenzene				*99.2*	*100*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*94.6*	*88.0*	*70.0-130*				

Method Blank (MB)

(MB) R4013895-2 12/17/23 21:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.000467	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	U		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

Method Blank (MB)

(MB) R4013895-2 12/17/23 21:10

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	*98.3*			*75.0-131*
(S) 4-Bromofluorobenzene	*101*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*113*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4013895-1 12/17/23 18:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.620	99.2	10.0-160	
Acrylonitrile	0.625	0.717	115	45.0-153	
Benzene	0.125	0.147	118	70.0-123	
Bromobenzene	0.125	0.135	108	73.0-121	
Bromodichloromethane	0.125	0.148	118	73.0-121	
Bromoform	0.125	0.138	110	64.0-132	
Bromomethane	0.125	0.147	118	56.0-147	

Laboratory Control Sample (LCS)

(LCS) R4013895-1 12/17/23 18:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
n-Butylbenzene	0.125	0.114	91.2	68.0-135	
sec-Butylbenzene	0.125	0.118	94.4	74.0-130	
tert-Butylbenzene	0.125	0.116	92.8	75.0-127	
Carbon tetrachloride	0.125	0.167	134	66.0-128	J4
Chlorobenzene	0.125	0.118	94.4	76.0-128	
Chlorodibromomethane	0.125	0.128	102	74.0-127	
Chloroethane	0.125	0.161	129	61.0-134	
Chloroform	0.125	0.143	114	72.0-123	
Chloromethane	0.125	0.167	134	51.0-138	
2-Chlorotoluene	0.125	0.108	86.4	75.0-124	
4-Chlorotoluene	0.125	0.127	102	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.135	108	59.0-130	
1,2-Dibromoethane	0.125	0.134	107	74.0-128	
Dibromomethane	0.125	0.144	115	75.0-122	
1,2-Dichlorobenzene	0.125	0.120	96.0	76.0-124	
1,3-Dichlorobenzene	0.125	0.127	102	76.0-125	
1,4-Dichlorobenzene	0.125	0.120	96.0	77.0-121	
Dichlorodifluoromethane	0.125	0.177	142	43.0-156	
1,1-Dichloroethane	0.125	0.144	115	70.0-127	
1,2-Dichloroethane	0.125	0.142	114	65.0-131	
1,1-Dichloroethene	0.125	0.155	124	65.0-131	
cis-1,2-Dichloroethene	0.125	0.139	111	73.0-125	
trans-1,2-Dichloroethene	0.125	0.131	105	71.0-125	
1,2-Dichloropropane	0.125	0.139	111	74.0-125	
1,1-Dichloropropene	0.125	0.154	123	73.0-125	
1,3-Dichloropropane	0.125	0.135	108	80.0-125	
cis-1,3-Dichloropropene	0.125	0.146	117	76.0-127	
trans-1,3-Dichloropropene	0.125	0.126	101	73.0-127	
2,2-Dichloropropane	0.125	0.152	122	59.0-135	
Di-isopropyl ether	0.125	0.155	124	60.0-136	
Ethylbenzene	0.125	0.123	98.4	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.150	120	57.0-150	
Isopropylbenzene	0.125	0.114	91.2	72.0-127	
p-Isopropyltoluene	0.125	0.112	89.6	72.0-133	
2-Butanone (MEK)	0.625	0.687	110	30.0-160	
Methylene Chloride	0.125	0.144	115	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.668	107	56.0-143	
Methyl tert-butyl ether	0.125	0.134	107	66.0-132	
Naphthalene	0.125	0.134	107	59.0-130	
n-Propylbenzene	0.125	0.123	98.4	74.0-126	

Laboratory Control Sample (LCS)

(LCS) R4013895-1 12/17/23 18:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Styrene	0.125	0.109	87.2	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.108	86.4	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.126	101	68.0-128	
Tetrachloroethene	0.125	0.138	110	70.0-136	
Toluene	0.125	0.123	98.4	75.0-121	
1,2,3-Trichlorobenzene	0.125	0.146	117	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.122	97.6	62.0-137	
1,1,1-Trichloroethane	0.125	0.157	126	69.0-126	
1,1,2-Trichloroethane	0.125	0.125	100	78.0-123	
Trichloroethene	0.125	0.146	117	76.0-126	
Trichlorofluoromethane	0.125	0.149	119	61.0-142	
1,2,3-Trichloropropane	0.125	0.126	101	67.0-129	
1,2,4-Trimethylbenzene	0.125	0.114	91.2	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.114	91.2	73.0-127	
Vinyl chloride	0.125	0.160	128	63.0-134	
Xylenes, Total	0.375	0.306	81.6	72.0-127	
(S) Toluene-d8			*96.5*	*75.0-131*	
(S) 4-Bromofluorobenzene			*101*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*120*	*70.0-130*	

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
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Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
S&ME Inc. - Raleigh NC

3201 Spring Forest Road
Raleigh, NC 27616

Billing Information:
Accounts Payable
3201 Spring Forest Rd.

(smeinc_invoice@concursolution

Pres Chk

Report to:
Mr. Jerry Paul

Email To: **jpaul@smeinc.com**

Project Description:
East Durham Park

City/State Collected: Durham, NC

Please Circle: PT MT CT (ET)

Phone: **919-872-2660**

Client Project #

Lab Project #
SMERLNC-EASTDURHAM

Collected by (print):
Chelsea Parra

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N___ Y✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PBG 2ozClr-NoPres	SPLP/TCLP HOLD 4ozClr-NoPres	TS 4ozClr-NoPres	V8260 40mlAmb-HCl-Blk	V8260 40mlAmb/MeOH10ml/Syr	Remarks	Sample # (lab only)
821-SB-16	C	SS	(0-1)	12/12/23	0925	4	X	X	X		X		-01
821-SB-17		SS			0930	4	X	X	X		X		-02
TRIP BLANK 821-SB-18		~~GW~~ SS			0910	4[4]	X		X	X[4]	X		-03
821-SB-19		SS			0915	4	X		X		X		-04
821-SB-20		SS			1000	4	X		X		X		-05
821-SB-21		SS			1005	4	X	X	X		X		-06
Trip Blank		GW				2				X[4]			-07

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 168765T
A168

Acctnum: **SMERLNC**
Template: **T243170**
Prelogin: **P1042523**
PM: **034 - Craig Cothron**
PB:

Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: Analyze soil for PBG, TS, V8260 and TCLP/SPLP on hold. Trip Blank for VOCs, Sorry for the messy chain.

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 7155 0298 3032

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
Rad Screen <0.5 mR/hr: Y N

	Date	Time		
Relinquished by : (Signature) CP	12/12/23 ~~1730~~	1730	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received: MSPB 2.7+0=2.7
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Zak Wolff	Date: 12-13-23 Time: 9:00

Preservation required by Login: Date/Time

Condition: NCF / OK

ANALYTICAL REPORT

January 02, 2024

S&ME Inc. - Raleigh NC

Sample Delivery Group:	L1689524
Samples Received:	12/12/2023
Project Number:	
Description:	East Durham Park

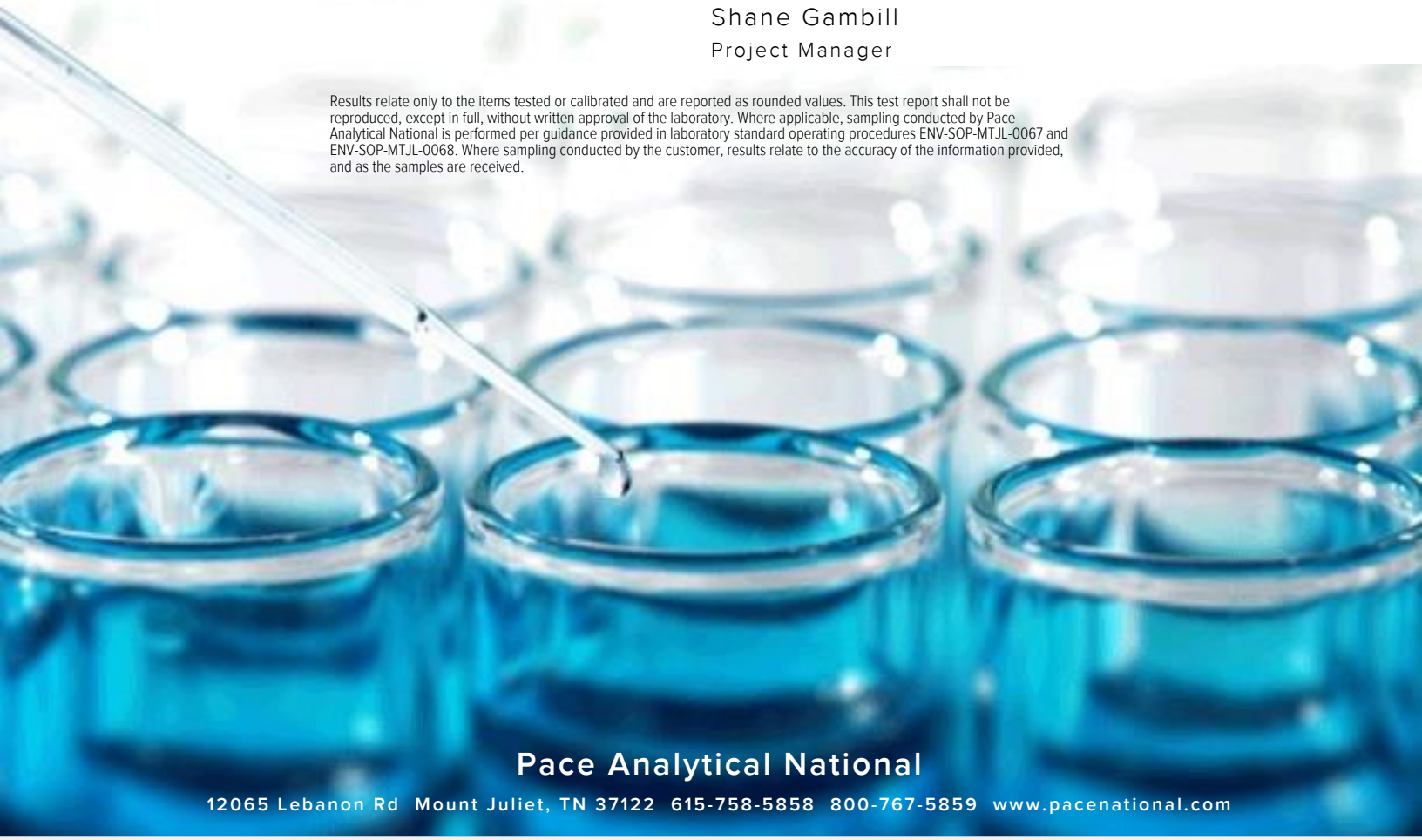
Report To:

Mr. Jerry Paul
3201 Spring Forest Road
Raleigh, NC 27616

Entire Report Reviewed By:

Shane Gambill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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SAMPLE SUMMARY

821-SB-06 L1689524-01 Waste

Collected by: Chelsea Parra
Collected date/time: 12/11/23 12:50
Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2193630	1	12/21/23 12:34	12/21/23 12:34	WC	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2198172	1	12/30/23 09:34	12/30/23 14:50	SJM	Mt. Juliet, TN

821-SB-06 L1689524-02 Leachate

Collected by: Chelsea Parra
Collected date/time: 12/11/23 12:50
Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1312	WG2192766	1	12/20/23 14:29	12/20/23 14:29	BTP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2193966	1	12/22/23 10:31	12/22/23 19:33	JPD	Mt. Juliet, TN

821-SB-07 L1689524-03 Waste

Collected by: Chelsea Parra
Collected date/time: 12/11/23 13:40
Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1311	WG2193630	1	12/21/23 12:34	12/21/23 12:34	WC	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2198172	1	12/30/23 09:34	12/30/23 14:37	SJM	Mt. Juliet, TN

821-SB-07 L1689524-04 Leachate

Collected by: Chelsea Parra
Collected date/time: 12/11/23 13:40
Received date/time: 12/12/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Preparation by Method 1312	WG2192766	1	12/20/23 14:29	12/20/23 14:29	BTP	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2193966	1	12/22/23 10:31	12/22/23 19:46	JPD	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Shane Gambill
Project Manager

Sample Delivery Group (SDG) Narrative

Sample quantity was not sufficient to complete analysis per recommended method guidelines for the following samples.

Lab Sample ID	Project Sample ID	Method
L1689524-03	821-SB-07	1311

Preparation by Method 1311/1312

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		12/21/2023 12:34:05 PM	WG2193630
Initial pH	6.10		12/21/2023 12:34:05 PM	WG2193630
Final pH	4.95		12/21/2023 12:34:05 PM	WG2193630

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Lead	0.774		0.0200		1	12/30/2023 14:50	WG2198172

Preparation by Method 1311/1312

Analyte	Result	Qualifier	Prep date / time	Batch
SPLP Extraction	-		12/20/2023 2:29:06 PM	WG2192766
Final pH	6.73		12/20/2023 2:29:06 PM	WG2192766

Metals (ICPMS) by Method 6020

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Lead	258	V	2.00	1	12/22/2023 19:33	WG2193966

Preparation by Method 1311/1312

Analyte	Result	Qualifier	Prep date / time	Batch
TCLP Extraction	-		12/21/2023 12:34:05 PM	WG2193630
Initial pH	6.21		12/21/2023 12:34:05 PM	WG2193630
Final pH	4.91		12/21/2023 12:34:05 PM	WG2193630

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	RDL mg/l	Limit mg/l	Dilution	Analysis date / time	Batch
Lead	0.375		0.0200		1	12/30/2023 14:37	WG2198172

Preparation by Method 1311/1312

Analyte	Result	Qualifier	Prep date / time	Batch
SPLP Extraction	-		12/20/2023 2:29:06 PM	WG2192766
Final pH	6.58		12/20/2023 2:29:06 PM	WG2192766

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
	ug/l		ug/l			
Lead	117		2.00	1	12/22/2023 19:46	WG2193966

Method Blank (MB)

(MB) R4016165-1 12/22/23 19:26

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Lead	U		0.849	2.00

Laboratory Control Sample (LCS)

(LCS) R4016165-2 12/22/23 19:30

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Lead	50.0	48.6	97.3	80.0-120	

L1689524-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1689524-02 12/22/23 19:33 • (MS) R4016165-4 12/22/23 19:39 • (MSD) R4016165-5 12/22/23 19:43

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Lead	50.0	258	294	304	73.5	92.8	1	75.0-125	V		3.23	20

Method Blank (MB)

(MB) R4018480-1 12/30/23 14:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lead	U		0.00240	0.0200

Laboratory Control Sample (LCS)

(LCS) R4018480-2 12/30/23 14:33

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	0.500	0.495	99.1	80.0-120	

L1689524-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1689524-03 12/30/23 14:37 • (MS) R4018480-4 12/30/23 14:43 • (MSD) R4018480-5 12/30/23 14:47

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	0.500	0.375	0.947	0.884	114	102	1	75.0-125			6.88	20

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Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
V	The sample concentration is too high to evaluate accurate spike recoveries.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

S&ME Inc. - Raleigh NC

3201 Spring Forest Road
Raleigh, NC 27616

Billing Information:
Accounts Payable
3201 Spring Forest Rd.
(smeinc_invoice@concursolution

Report to: Mr. Jerry Paul

Email To: jpaul@smeinc.com

Project Description: East Durham Park

City/State Collected: Durham, NC

Please Circle: PT MT CT (ET)

Phone: 919-872-2660

Client Project #

Lab Project # SMERLNC-EASTDURHAM

Collected by (print): Chelsea Parra

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Immediately Packed on Ice N ___ Y ✓

Date Results Needed: ___ Same Day ___ Five Day; ___ Next Day ___ 5 Day (Rad Only); ___ Two Day ___ 10 Day (Rad Only); ___ Three Day

Analysis / Container / Preservative

Pres Chk

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	PBG 2ozClr-NdPres	SPLP/TCLP HOLD 4ozClr-NoPres	TS 4ozClr-NoPres	V8260 40mlAmb-HCl-Blk	V8260 40mlAmb/MeOH10ml/Syr
821-SB-01	C	SS	0-1	12/11/23	1100	4	X	X	X		X
821-SB-02		SS	0-1		1115	4	X	X	X		X
821-SB-03		SS	0-1		1140	4	X	X	X		X
821-SB-04		SS	0-1		1200	4	X	X	X		X
821-SB-05		SS	0-1		1220	4	X	X	X		X
821-SB-06		SS	0-1		1250	4	X	X	X		X
821-SB-07		SS	0-1		1340	4	X	X	X		X
821-SB-08		SS	0-1		1400	4	X	X	X		X
DUP-SB		SS	0-1		-	4	X	X	X		X
Trip Blank		~~SS~~ GW	~~0-1~~			~~4~~ 2	~~X~~	~~X~~	~~X~~	X	~~X~~

CP CP CP

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # L1687027 NV

A085 L1689524 12/19/23

Acctnum: SMERLNC

Template: T243170

Prelogin: P1042523

PM: 034 - Craig Cothron

PB:

Shipped Via: FedEX Ground

Remarks | Sample # (lab only)

-01
-02
-03
-04
-05
-06 -01/02
-09 03/04
-08
-09
-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 7878 3535 2770

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
CP	12/11/23	1630	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Kato Kelly

Trip Blank Received: Yes / No (HCl / MeOH) TBR

Temp: °C Bottles Received: MSAB 1.4+0=1.4 36

Date: 12-12-23 Time: 9:00

Preservation required by Login: Date/Time

Condition: NCF / OK

L1687027 SMERLNC relog

R5

Per client request relog L1687027-06 and 07 for both TCLP PBG and SPLP PBG,

Time estimate: oh **Time spent:** oh

Members

CC Craig Cothron

Appendix IV – NCDEQ Risk Calculator Outputs

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	February 2024
Basis:	November 2023 EPA RSL Table
Site Name:	East Durham Park
Site Address:	2601 E. Main Street & 300 Gary Street, Durham NC
DEQ Section:	NONCD0000821
Site ID:	S&ME Project No. 23050632
Exposure Unit ID:	821 - Only VOC detections were input into the Risk Calculator
Submittal Date:	2/28/2024
Prepared By:	Chelsea Parra
Reviewed By:	Gerald Paul

Complete Exposure Pathways	Input Form 1A

Version Date: February 2024
Basis: November 2023 EPA RSL Table
Site ID: S&ME Project No. 23050632

Exposure Unit ID: 821 - Only VOC detections were input into the Risk Calculator

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 2A**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: S&ME Project No. 23050632

Exposure Unit ID: 821 - Only VOC detections were input into the Risk Calculator

Soil Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Only VOC detections were input into the Risk Calculator.

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
0.00265		71-43-2	Benzene			mg/kg	821-SB-09									
3150		7439-92-1	~Lead and Compounds			mg/kg	821-SB-06									
0.0196		108-88-3	Toluene			mg/kg	821-SB-12									
0.0177		1330-20-7	Xylenes			mg/kg	821-SB-09									

Risk for Individual Pathways **Output Form 1A**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: S&ME Project No. 23050632

Exposure Unit ID: 821 - Only VOC detections were input into the Risk Calculator

DIRECT CONTACT SOIL AND WATER CALCULATORS				
Receptor	**Pathway**	**Carcinogenic Risk**	**Hazard Index**	**Risk exceeded?**
Resident	Soil	2.2E-09	6.4E-05	NO
	Groundwater Use*	NC	NC	NC
Non-Residential Worker	Soil	4.9E-10	1.3E-05	NO
	Groundwater Use*	NC	NC	NC
Construction Worker	Soil	9.1E-11	2.0E-05	NO
Recreator/Trespasser	Soil	2.1E-10	9.5E-06	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, user did not check this pathway as complete.
4. NC = Pathway not calculated, required contaminant migration parameters were not entered.

Sitewide Risk **Output Form 1B**

Version Date: February 2024 NOTE: If any changes were made, select "Update Sitewide Risk Values" to obtain updated values.

Basis: November 2023 EPA RSL Table

Site ID: S&ME Project No. 23050632

Exposure Unit ID: 821 - Only VOC detections were input into the Risk Calculator

		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	☑	2.2E-09	6.4E-05	☐	NM	NM												
	Groundwater Use*	☐	NM	NM	☐	NM	NM												
Non-Residential Worker	Soil							☑	4.9E-10	1.3E-05	☐	NM	NM						
	Groundwater Use*							☐	NM	NM	☐	NM	NM						
Construction Worker	Soil													☑	9.1E-11	2.0E-05			
Recreator/Trespasser	Soil																☑	2.1E-10	9.5E-06
	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			2.2E-09	6.4E-05		0.0E+00	0.0E+00		4.9E-10	1.3E-05		0.0E+00	0.0E+00		9.1E-11	2.0E-05		2.1E-10	9.5E-06

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 Soil **Output Form 2A**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: S&ME Project No. 23050632

Exposure Unit ID: 821 - Only VOC detections were input into the Risk Calculator

** - 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, which is used below for comparison to be conservative.*

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
71-43-2	Benzene	0.00265	0.00265	0.00265	2.1E-10		2.0E-09	2.2E-09	8.5E-06		2.2E-05	3.1E-05
7439-92-1	~Lead and Compounds	3150	3150	3150					**>SL****	**>SL****	**>SL****	
108-88-3	Toluene	0.0196	0.0196	0.0196					3.1E-06		8.2E-07	4.0E-06
1330-20-7	Xylenes	0.0177	0.0177	0.0177					1.1E-06		2.8E-05	2.9E-05
						Cumulative:		2.2E-09				6.4E-05

DEQ Risk Calculator - Direct Contact - Non-Residential Worker Soil **Output Form 2C**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: S&ME Project No. 23050632

Exposure Unit ID: 821 - Only VOC detections were input into the Risk Calculator

** - 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
71-43-2	Benzene	0.00265	0.00265	0.00265	4.5E-11		4.5E-10	4.9E-10	5.7E-07		5.4E-06	5.9E-06
7439-92-1	~Lead and Compounds	3150	3150	3150					**>SL****	**>SL****	**>SL****	
108-88-3	Toluene	0.0196	0.0196	0.0196					2.1E-07		2.0E-07	4.1E-07
1330-20-7	Xylenes	0.0177	0.0177	0.0177					7.6E-08		6.6E-06	6.7E-06
						Cumulative:		4.9E-10				1.3E-05

DEQ Risk Calculator - Direct Contact - Construction Worker Soil **Output Form 2E**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: S&ME Project No. 23050632

Exposure Unit ID: 821 - Only VOC detections were input into the Risk Calculator

** - 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
71-43-2	Benzene	0.00265	0.00265	0.00265	5.9E-12		8.5E-11	9.1E-11	7.8E-07		9.9E-06	1.1E-05
7439-92-1	~Lead and Compounds	3150	3150	3150					**>SL****	**>SL****	**>SL****	
108-88-3	Toluene	0.0196	0.0196	0.0196					7.2E-08		9.7E-07	1.0E-06
1330-20-7	Xylenes	0.0177	0.0177	0.0177					1.3E-07		8.2E-06	8.3E-06
						Cumulative:		9.1E-11				2.0E-05

DEQ Risk Calculator - Direct Contact - Recreator/Trespasser Soil **Output Form 2F**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: S&ME Project No. 23050632

Exposure Unit ID: 821 - Only VOC detections were input into the Risk Calculator

** - 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, which is used below for comparison to be conservative.*

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
71-43-2	Benzene	0.00265	0.00265	0.00265	1.2E-10		9.1E-11	2.1E-10	4.7E-06		1.0E-06	5.8E-06
7439-92-1	~Lead and Compounds	3150	3150	3150					**>SL****	**>SL****	**>SL****	
108-88-3	Toluene	0.0196	0.0196	0.0196					1.7E-06		3.8E-08	1.8E-06
1330-20-7	Xylenes	0.0177	0.0177	0.0177					6.3E-07		1.3E-06	1.9E-06
						Cumulative:		2.1E-10				9.5E-06