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May 30, 2024

Mr. Keith Snavely
North Carolina Department of Environmental Quality
Division of Waste Management,
Inactive Hazardous Sites Branch - Superfund Section
217 West Jones Street
Raleigh, North Carolina 27699-1646

RE: Groundwater and Soil-Gas Investigation Report
Gaither Transou Property
1202 Guilford College Road
Jamestown, Guilford County, North Carolina
ID No. NONCD0000024
State Contract No. N091319

Dear Mr. Snavely:

ATC Associates of North Carolina, P.C. (ATC) has prepared this letter report to document the results of groundwater and soil-gas assessment activities associated with the above referenced site in Jamestown, Guilford County, North Carolina. The location of the site is depicted on ***Figure 1***. The proposed scope of work was outlined in ATC's Work Plan dated December 5, 2023 (Work Plan) and authorized by the North Carolina Department of Environmental Quality (NCDEQ), Division of Waste Management (DWM), Superfund Section, Inactive Hazardous Sites Branch (IHSB) on December 7, 2023. The proposed scope of work included installation and sampling of temporary groundwater monitoring wells and temporary soil-gas monitoring points. One passive soil-gas sample was collected in lieu of one of the temporary soil-gas monitoring points.

1.0 PRELIMINARY ACTIVITIES

ATC prepared an application for a monitoring well construction permit and submitted the application to the NCDEQ Division of Water Resources (DWR). The monitoring well construction permit was issued on January 31, 2024. A copy of the permit is provided in ***Appendix A.***

ATC conducted a site visit on December 4, 2023. The site visit was attended by Mr. Keith Snavely of the NCDEQ, and Jordon Lerew with Guilford County. During the site visit, ATC staff conducted a walk-through of the property to determine sampling locations for the temporary monitoring wells and temporary soil-gas points.

Prior to initiating subsurface activities, ATC contacted NC One Call (811) to identify and mark local utilities. ATC also subcontracted with a private utility location firm to locate other underground utilities not identified by 811. Proposed locations for the borings were marked and areas for equipment access and investigation-derived waste (IDW) drum storage were selected. Private utility location was completed on February 15, 2024. Buried utility lines necessitated only minor adjustments to the proposed boring locations.

2.0 FIELD INVESTIGATION

This section discusses the field investigations performed between February 15 and February 22, 2024. Sampling procedures for field activities were performed in accordance with ATC's approved Work Plan, ATCs Standard Operating Procedures (SOPs) and Quality Assurance (QA) Manual dated April 17, 2013, the IHSB's most recent Guidelines for Assessment and Cleanup, and the Division of Waste Management Vapor Intrusion Guidance. Field notes associated with the investigations are provided in ***Appendix B***. Photographs are provided in ***Appendix C***. A site map that displays sampling locations is provided as ***Figure 1***. Sampling location coordinates are reported in ***Table 1***.

2.1 Groundwater Investigation

2.1.1 Monitoring Well Installation

On February 15, 2024, ATC supervised the installation of two temporary groundwater monitoring wells (TMW-1 and TMW-2) by a NC-licensed well driller. The locations of TMW-1 and TMW-2 are shown on ***Figure 2***. A hand auger was initially used to assess for subsurface utilities to a depth of five feet below ground surface (bgs). No subsurface utilities were identified. The borings were then advanced utilizing direct-push technology (DPT). A two-inch diameter Macrocore™ sampler was used to obtain continuous cores of the soil profile to determine lithology. Soil samples were obtained at sequential intervals and field-screened with a photoionization detector (PID) to assess for VOCs. Following completion of the initial DPT boring, hollow stem augers (HSAs) were used to advance the boreholes to the desire depth for installation of the temporary wells. The borings were advanced to 30 feet bgs for both TMW-1 and TMW-2.

Once the borehole was completed, a two-inch diameter polyvinyl chloride (PVC) monitoring well was constructed in each borehole using the HSAs as a temporary casing while the well was constructed. First, 15 feet of two-inch diameter well screen (10-slot) was inserted into the borehole, and an appropriate length of two-inch diameter solid Schedule-40 PVC casing was attached to the screen to extend the well to about two feet above grade. Filter sand was added to envelop the well screen and was extended to about two feet above the top of the screen. The filter sand was added in lifts while slowly extracting the HSAs. Two feet of bentonite pellets was added above the filter sand and hydrated. An expandable well plug was inserted into the well casing. After installation, the well was developed using a decontaminated submersible pump. The well location was surveyed with a hand-held global positioning system (GPS) instrument. Monitoring well construction details are reported in ***Table 2.*** Photographs of the well installation are provided in ***Appendix C***. The boring log and well construction records are attached in ***Appendix D***.

2.1.2 Monitoring Well Sampling

On February 22, 2024 ATC gauged and sampled temporary groundwater monitoring wells TMW-1 and TMW-2. Depth to water measurements for each well are provided in ***Table 2***.

Purging and sampling were performed by low-flow methodology using a peristaltic pump and disposable high density polyethylene tubing. A field water quality instrument and flow-through cell were used to monitor pH, specific conductance, turbidity, dissolved oxygen, oxidation reduction potential, and temperature during the low-flow groundwater purging and sampling activities. The samples were collected after pH and specific conductance adequately stabilized and turbidity was below 5 Nephelometric Units (NTUs) or stable. The samples were placed in laboratory-provided containers, properly labeled and stored on ice pending delivery to the contracted laboratory. Groundwater samples were shipped to a North Carolina (NC) certified laboratory for analyses by SW-846 Method 8260D (low level), semi-volatile organic

compounds (SVOCs) by EPA Method 8270D, and per- and poly-fluoroalkyl substances (PFAS) by EPA Method 537.1. Field parameter data is included in ***Table 3***.

2.1.3 Groundwater Analytical Results

The results of the groundwater sampling indicated concentrations of one or more target compounds above the laboratory detection limits in the samples collected from TMW-1 and TMW-2. Several compounds detected in TMW-1 were above the 15A NCAC 2L Groundwater Standards (2L Standards) including benzene (1.74 µg/L), 1,1,-Dichloroethane (11.2 µg/L), cis-1,2-DCE (13,200 µg/L), trans-1,2-DCE (117 µg/L), PCE (21.7 µg/L), TCE (33.2 µg/L), and vinyl chloride (3,010 µg/L). No compounds were detected above the 2L Standards in TMW-2. Additionally, several PFAS compounds were detected in both TMW-1 and TMW-2. Groundwater laboratory analytical results are summarized in ***Table 4*** and ***Table 5*** and are also shown on ***Figure 2A*** and ***Figure 2B.*** The analytical report is included in ***Appendix E***.

2.2 Soil-Gas Investigation

2.2.1 Soil-Gas Monitoring Point Installation

On February 22, 2024, ATC supervised a NC-licensed well driller to install three (3) temporary soil-gas monitoring points (SGMPs) using a hand auger and direct push technology (DPT). The locations of the SGMPs (SGMP-1 through SGMP-3) are depicted in ***Figure 1***. The boreholes were initially advanced with a 3.25-inch outer diameter hand auger to a depth of five feet below ground surface (bgs). The SGMP boreholes were then advanced to 10 feet bgs with a 2.25-inch outer diameter Macrocore™ samplers by DPT. Lithologic logs were created for each borehole, and soils were field screened with a PID to assess for VOCs.

After the boreholes for the SGMPs were advanced to the specified depths, a stainless-steel probe implant was installed at the base of each boring. The implants each consisted of a six-inch long stainless-steel screen which was connected to the surface via 0.177-inch inner diameter (0.25-inch outer diameter) Teflon™ tubing. Filter sand was added to envelop the implant and tubing creating a one-foot sand pack around the sampling screen. Hydrated bentonite was utilized to seal the annular space above the filter sand to the ground surface. Boring logs with PID results and SGMP construction details are provided in ***Appendix C.***

2.2.2 Soil-Gas Sampling

On February 22, 2024, ATC sampled the SGMPs after they equilibrated for a minimum of two hours after installation. Lab-grade helium gas was used as a tracer during soil-gas sampling activities for sample validation. A temporary shroud was placed over the SGMPs while helium gas was then injected into a fitting in the shroud. A field helium meter was connected to a fitting in the shroud to continuously measure concentrations to ensure helium remained above 15% within the shroud. A syringe and four-way valve that was connected to the SGMP sampling train was used to purge approximately three volumes of air at no more than 200 milliliters per minute (mL/minute) from the SGMPs.

During the purging process, all purged air was collected in a Tedlar® bag. After three volumes of air was purged and collected, the field helium meter was used to measure the concentration of helium gas in the Tedlar® bag. The helium concentrations in the shroud were then compared to the sample to evaluate for the presence of leaks. The results of the tracer gas testing indicated no significant leaks in the SGMP connections. Upon completion of the leak test, the samples were collected in 1-liter stainless-steel batch-certified Summa canisters. Sampling was conducted at a maximum flow rate of 200 mL/minute. After

deploying the summa at SGMP-1, ATC observed an initial vacuum at 28" hg (inches of mercury). Over an hour and a half period, the vacuum remained the same. Therefore SGMP-1 was not sampled, and a Beacon passive soil-gas sampler was installed instead to collect a representative sample at this location (see ***Section 2.2.3***). After sampling was complete, the SGMPs were properly abandoned by removing the tubing and allowing expansion of the hydrated bentonite to close the small diameter hole.

The soil-gas samples were packaged and shipped under chain of custody to a National Environmental Laboratory Accreditation Conference (NELAC) certified laboratory contracted for the project. Soil-gas samples were analyzed by the contracted laboratory for select volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, xylenes, naphthalene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, di-isopropyl ether, tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, vinyl chloride, 1,1-dichloroethane, and trichlorofluoromethane by EPA Method TO-15. Target laboratory detection limits were lower than the NCDEQ DWM Vapor Intrusion Screening Levels (VISLs) for sub-slab and exterior soil-gas.

2.2.3 Passive Soil-Gas Sampling

On February 22, 2024, ATC installed one passive soil-gas gas sampler (PSG-1). The sampler was installed near the location of SGMP-1. Beacon Environmental Services, Inc. (Beacon) was selected to provide the PSG sampler (BeSure Sample Collection Kit™ (Beacon Sampler)) and to perform the sample analyses. In addition to the above-referenced SOPs and guidance documents, methodology specific to the installation of the Beacon Sampler was in general accordance with Beacon's Standard Operating Procedures (SOPs) outlined in the document titled *"Passive Soil Gas Testing: Standard for Site Characterization"*. A copy of the referenced Beacon SOP was included as part of ATCs December 5, 2023, Work Plan.

After installation, the PSG Beacon Sampler remained in-place for 18 days prior to retrieval. On March 11, 2024, ATC returned to retrieve the PSG sampler. Retrieval and site restoration efforts were performed in accordance with the ATC Work Plan and Beacon's SOPs. The borehole was filled with bentonite. After retrieval, the Beacon Sampler was packaged and shipped under chain of custody protocol to Beacon for analysis. Sample packaging and shipping was performed in accordance with Beacon's SOPs. Beacon analyzed the sampler for select VOCs using thermal desorption-gas chromatography/mass spectrometry instrumentation following Environmental Protection Agency (EPA) Method 8260C procedures. Targeted VOCs and laboratory detection limits were the same as outlined above in ***Section 2.1.3***.

2.2.4 Soil Gas and Passive Soil-Gas Analytical Results

Target compounds were detected in soil-gas samples SGMP-2, SGMP-3 and PSG-1, which included toluene, ethylbenzene, and xylenes. The data for PSG-1 is considered representative of the soil-gas concentrations in the area sampled. Cumulative Carcinogenic Risk and Non-carcinogenic Hazard Index values were calculated for the passive soil-gas and soil-gas samples using the NCDEQ DWM Risk Calculator (version February 2024). Only the soil-gas to indoor-air exposure pathway was considered for both residential and non-residential worker land use scenarios. Risk was calculated for individual sample data and considered only the compounds targeted and detected as described herein. No modifications to the default parameter values and equations inherent to the NCDEQ DWM Risk Calculator were made. As specified in N.C.G.S. 130A-310.68, residential and non-residential cumulative risk is acceptable when the carcinogenic risk is less than 1.0E-04 and the hazard index for systemic toxicants is less than 1.0. The calculated risk at each sample location is shown in ***Table 6*** and ***Figure 3***. NCDEQ Risk Calculators are included in ***Appendix F***.

3.0 QUALITY ASSURANCE/QUALITY CONTROL

As part of ATC's quality assurance measures, a data review of the laboratory reports was conducted. During the review, it was found that the samples were received in acceptable condition and properly preserved. The samples were analyzed within correct holding times and reported within the lab report, and the chain of custody was properly completed by all parties. The quality control (QC) report shows that an internal blank was analyzed for each method that was used for the original samples. Matrix spike (MS) and laboratory control sample (LCS) data results were provided for each analytical method. Refer to the laboratory reports in ***Appendix E*** for details regarding QC results for the laboratory samples and any noted exceptions. Overall, ATC concludes that the laboratory results are usable for the intended purposes and any exceptions do not significantly impact the conclusions presented in this report.

For quality assurance/quality control (QA/QC) purposes, field duplicates were collected during sampling of all media. One duplicate groundwater sample (DUP-A) was obtained from TMW-1. A soil-gas sample duplicate (DUP-B) was obtained from PSG-1. Duplicate samples were collected using the same procedures as the original field sample. Analytical methods and target compounds associated with the supplicate samples remained consistent with those described previously. The detected constituents and concentrations in the duplicate samples from all media were reasonably consistent with the field samples.

Additional QA/QC samples specifically associated with PFAS sampling and analysis. These QA/QC samples included a sample of the water the driller used for decontamination (DECON WATER) and a rinse blank from the drilling equipment post-decontamination (EQUIP BLANK-1). PFAS-free blank water provided by the analytical laboratory was used for the rinse blank. The blank water was poured over the decontaminated HSAs and collected in the sample containers. The two samples were analyzed for PFAS by EPA Method 537.1. Targeted PFAS constituents were present in the decontamination water at low estimated concentrations below the laboratory reporting limits but above the method detection limits (J-flagged). PFAS constituents were not present in the rinse-blank sample. Based on the QA/QC sample results, cross-contamination was not the source of the PFAS constituents detected in groundwater.

4.0 INVESTIGATION-DERIVED WASTE (IDW) MANAGEMENT

Soil and decontamination liquid generated during field activities were containerized in a 55-gallon drum. Three composite soil samples (TMW-1 Soil, TMW-2 Soil, and SGP-Soil) were collected from the drummed IDW and submitted to the contracted laboratory for analysis of VOCs by EPA Method 8260D and PFAS by EPA method Method 537.1 for waste characterization. Additionally, one drum contained groundwater and decontamination water, and the water results were used for the liquid IDW characterization. The analytical results indicated that the soil IDW could be classified as non-hazardous. The drum of liquid IDW was disposed of at a hazardous waste disposal facility due to the presence of PFAS and the absence of non-hazardous waste disposal facilities accepting PFAS-contaminated wastes. Laboratory analytical results for the IDW characterization samples are provided in ***Appendix E***. Removal of the IDW drums from the site by a licensed transporter was conducted on May 7, 2024. The IDW will be disposed at a licensed facility. The waste disposal manifests are provided in ***Appendix G***.

5.0 SUMMARY AND CONCLUSIONS

ATC has completed groundwater and soil-gas sampling associated with the Gaither Transou Property, 1202 Guilford College road, Guilford County, North Carolina. The following summarizes the pertinent conclusions from the investigation:

- The results for groundwater sampling indicated targeted VOC, SVOCs, and PFAS related compounds were present for all samples. The groundwater sample collected from TMW-1 reported several compounds over the 2L Standards. No compounds were above 2L Standards in the sample collected from TMW-2.

- The results for soil-gas and passive soil-gas sampling indicated targeted VOCs were present at two of the three sample locations. Detected compounds were limited to relatively low concentrations of common petroleum hydrocarbons including toluene, ethylbenzene and xylenes. No chlorinated VOCs were present in the soil-gas samples.

ATC appreciates the opportunity to assist you with this project. If you have questions or require additional information, please do not hesitate to contact us at (919) 871-0999.

Sincerely,

ATC Associates of North Carolina, P.C.

Laura I. de Sousa
Staff Scientist

NORTH CAROLINA LICENSED SEAL 1163 LAWRENCE MATTHEW GEORGE

Lawrence M. George, P.G., R.S.M
Principal/Senior Project Manager

Attachments:

Tables:
Table 1 – Sample Location Coordinates
Table 2 – Temporary Monitoring Well Construction Data
Table 3 – Field Parameter Data
Table 4 – Groundwater Analytical Data– VOCs/SVOCs
Table 5 – Groundwater Analytical Data - PFAS
Table 6 – Soil-Gas Monitoring Point Analytical Data

Figures:
Figure 1 – Site Map
Figure 2A – Groundwater Analytical Map – VOCs/SVOCs
Figure 2B – Groundwater Analytical Map – PFAS
Figure 3 – Soil-Gas Analytical Map

Appendices:
Appendix A – Monitoring Well Permit
Appendix B – Field Notes
Appendix C – Photographs
Appendix D – Boring Logs and Well Construction Records
Appendix E – Laboratory Reports
Appendix F – North Carolina Department of Environmental Quality Risk Calculators
Appendix G – Waste Manifests

TABLES

Table 1
Sample Location Coordinates
Gaither Transou Property
Jamestown, Guilford County, North Carolina
NONCD0000024

Sampling Location ID	Sample Matrix	Northing	Easting	Latitude	Longitude
TMW-1	Groundwater	597,249	3,989,424	36.0445090	-79.9203974
TMW-2	Groundwater	597,250	3,989,456	36.0448015	-79.9203744
SGMP-1	Soil-Gas	597,336	3,989,449	36.0447278	-79.9194188
SGMP-2	Soil-Gas	597,345	3,989,440	36.0446412	-79.9193259
SGMP-3	Soil-Gas	597,353	3,989,439	36.0446392	-79.9192409
PSG-1	Soil-Gas	597,336	3,989,449	36.0447278	-79.9194188

Notes:

Coordinates are presented in State Plane Coordinate System in feet using the North American Datum of 1983 (NAD83) and latitude and longitude in decimal degrees using the World Geodetic System 1984 (WGS84).

Table 2
Temporary Monitoring Well Construction Data
Gaither Transou Property
Jamestown, Guilford County, North Carolina
NONCD0000024

Well ID	Date Installed	Date Measured	Outer Casing Diameter (inches)	Outer Casing Depth (ft BTOC)	Well Diameter (inches)	Screen Interval (feet BTOC)	Well Depth (feet BTOC)	TOC Elevation (feet)	Depth to Water (feet BTOC)	Groundwater Elevation (feet)
TMW-1	02/15/24	02/22/24	N/A	N/A	2	15-30	30	NM	23.54	NM
TMW-2	02/15/24	02/22/24	N/A	N/A	2	15-30	30	NM	19.26	NM

Notes:
BTOC = Below Top of Casing.
NM = Not Measured.
N/A = Not Applicable.

Table 3
Field Parameter Data
Gaither Transou Property
Jamestown, Guilford County, North Carolina
NONCD0000024

Parameter	TMW-1	MW-2
	2/22/2024	2/22/2024
Time	12:49	14:47
pH	6.04	5.57
Temperature (°C)	16.60	16.70
Specific Conductivity (µS/cm)	421.2	160.8
Oxidation-Reduction Potential (mV)	-44.7	103.2
Dissolved Oxygen (mg/L)	0.30	5.76
Turbidity (NTUs)	7.09	2.70

Notes:
°C: Degrees Celsius.
µS/cm: Microsiemens per centimeter.
NTU: Nephelometric turbidity units.
mV: Millivolts.
mg/L: Milligrams per liter.

Table 4
Groundwater Analytical Data - VOCs/SVOCs
Gaither Transou Property
Jamestown, Guilford County, North Carolina
NONCD0000024

Method	Parameter	2L Standard (µg/L)	TMW-1		TMW-2
			2/22/2024	2/22/2024*	2/22/2024
VOCs by Method 8260D	Benzene	**1**	**1.74**	**1.70**	ND
	n-Butylbenzene	**70**	0.198J	0.312J	ND
	sec-Butylbenzene	**70**	0.444J	0.479J	ND
	Chlorobenzene	**50**	15.2	15.6	ND
	1,2-Dichlorobenzene	**20**	4.03	4.23	ND
	1,3-Dichlorobenzene	**200**	0.667J	0.679J	ND
	1,4-Dichlorobenzene	**6**	3.87	4.08	ND
	1,1-Dichloroethane	**6**	**11.2**	**11.4**	ND
	1,1-Dichloroethene	**350**[1]	5.92	6.09	ND
	cis-1,2-Dichloroethene	**70**	**13,200**	**13,400**	ND
	trans-1,2-Dichloroethene	**100**	**117**	**120**	ND
	Di-isopropyl ether	**70**	0.161J	0.165J	ND
	Ethylbenzene	**600**	12.7	12.8	ND
	Isopropylbenzene	**70**	1.88	2.04	ND
	p-Isopropyltoluene	**25**	0.200J	0.220J	ND
	n-Propylbenzene	**70**	0.280J	0.303J	ND
	Tetrachloroethene (PCE)	**0.7**	**21.7**	**21.5**	ND
	Toluene	**600**	37.1	36.8	ND
	1,2,4-Trichlorobenzene	**70**	0.569J	0.604J	ND
	1,1,1-Trichloroethane	**200**	ND	ND	0.306J
	Trichloroethene (TCE)	**3**	**33.2**	**32.5**	ND
	1,2,4-Trimethylbenzene	**400**	1.65	1.69	ND
	1,2,3-Trimethylbenzene	**NE**	4.55	4.81	ND
	1,3,5-Trimethylbenzene	**400**	1.56	1.59	ND
	Vinyl Chloride	**0.03**	**3,010**	**2,940**	ND
	Xylenes, Total	**500**	63.6	65	ND
SVOCs by Method 8270E	Isophorone	**40**	0.502J	ND	0.422J
	Naphthalene	**6**	0.541J	ND	0.424J
	Diethyl phthalate	**6,000**	0.585J	ND	0.654J
	1,2,4-Trichlorobenzene	**70**	0.299J	ND	ND
	2,4-Dimethylphenol	**100**	0.212J	ND	ND

Notes:
2L Standards = 15A NCAC 2L Standards effective April 1, 2022
NE = 15A NCAC 2L Standard not established for this compound
BOLD: Concentration exceeds 15A NCAC 2L Standard
[1] = 15A NCAC 2L Standard > EPA MCL of 7 µg/L, private wells and public water systems must comply with EPA MCL
J = Estimated value less than laboratory reporting limit but greater than the method detection limit.
* = Denotes field duplicate sample.
VOCs = Volatile Organic Compounds.
SVOCs = Semi-Volatile Organic Compounds.
Values reported in µg/L (micrograms per liter)
ND = Not detected

Table 5
Groundwater Analytical Data - PFAS
Gaither Transou Property
Jamestown, Guilford County, North Carolina
NONCD0000024

Method	Parameter	TMW-1		TMW-2
		2/22/2024	2/22/2024*	2/22/2024
PFAS by Method 537.1	Perfluoro-1-butanesulfonic acid (PFBS)	78	87	0.49
	Perfluoro-1-pentanesulfonic acid (PFPeS)	14	16	ND
	Perfluorohexanesulfonic acid (PFHxS)	20	20	2.3
	Perfluoro-n-butanoic acid (PFBA)	12	12	1.1
	Perfluoro-n-heptanoic acid (PFHpA)	10	11	ND
	Perfluoro-n-hexanoic acid (PFHxA)	29	25	ND
	Perfluoro-n-octanoic acid (PFOA)	24	24	0.97
	Perfluoro-n-pentanoic acid (PFPeA)	14	14	ND

Notes:
* = Denotes field duplicate sample.
Values reported in ng/L (nanograms per liter)
ND = Not detected

Table 6
Soil-Gas Monitoring Point Analytical Data
Gaither Transou Property
Jamestown, Guilford County, North Carolina
NONCD0000024

Sample ID	Sampling Date	Sampling Duration	Sample Depth (Feet BGS)	EPA Method TO-15/8260C															NCDEQ RC Results			
				Targeted Compounds Analytical Results (µg/m^3)															Residential SG to IA		Non-residential SG to IA	
				Benzene	Toluene	Ethylbenzene	Xylenes (total)	Naphthalene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Di-isopropyl Ether	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	1,1-Dichloroethane	Trichlorofluoromethane	Cumulative Carcinogenic Risk	Non-Carcinogenic Hazard Index	Cumulative Carcinogenic Risk	Non-Carcinogenic Hazard Index
PSG-1	02/22/24-03/11/24	18 days	1	ND	ND	1.29	7.75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.4E-08	0.0023	2.6E-09	0.00018
	02/22/24-03/11/24*		1	ND	ND	1.37	8.30	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.7E-08	0.0024	2.8E-09	0.00019
SGMP-2	02/22/24	Grab	10	ND	27	10	52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7E-07	0.015	2.0E-08	0.0012
SGMP-3	02/22/24		10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--

Notes:
PSG-1 analyzed by 8260C, SGMP-2 and SGMP-3 analyzed by TO-15
BGS = Below Ground Surface.
µg/m³ = Micrograms per cubic meter.
ND = Not detected above laboratory Method Detection Limit.
NCDEQ IRC = North Carolina Department of Environmental Quality Vapor Risk Calculator (February 2024).
SG to IA = Soil-gas to Indoor Air exposure pathway.
- - = Target compounds not detected, risk not calculated.
* = Denotes a duplicate sample.

FIGURES

C:\USERS\ECHO.MILANUK\ONEATLAS\DIGITAL SERVICES - FILE SERVER\2024\CAD DEPARTMENT\NCDEQ-IHSB\GAITHER TRANSOU\IHSB050P01-SITE.DWG, ATT1

SITE MAP

GAITHER TRANSOU PROPERTY
1202 GUILFORD COLLEGE ROAD
JAMESTOWN, GUILFORD COUNTY, NORTH CAROLINA
ID No. NONCD0000024

Figure: 1
Date: 05/29/2024
Scale: AS SHOWN

NOTES:
1. Features shown are not an authoritative location, nor are they presented to a stated accuracy.

COORDINATE SYSTEM:
NAD 1983 NORTH CAROLINA STATE PLANE FIPS 3200, US SURVEY FEET

Project Number: IHSB050P01	Dm. By: EM
Drawing File: SEE LOWER LEFT	Ckd. By: LG
ATC	App'd By:
	Ckd. Date:

LEGEND:

- TMW-1 — TEMPORARY MONITORING WELL (Well Identification)
- SGP-1 — SOIL-GAS MONITORING POINT (Sample Identification)
- PSG-1 — PASSIVE SOIL-GAS (Sample Identification)
- SITE PROPERTY LINE
- PARCEL LINE

NOTE: ALL LOCATIONS ARE APPROXIMATE

TMW-2	
Sampling Date	2/22/2024
Units	µg/L
1,1,1-Trichloroethane	0.306J
Isophorone	0.422J
Naphthalene	0.424J
Diethyl phthalate	0.654J

TMW-1		
Sampling Date	2/22/2024	2/22/2024*
Units	µg/L	
Benzene	**1.74**	**1.70**
n-Butylbenzene	0.198J	0.312J
sec-Butylbenzene	0.444J	0.479J
Chlorobenzene	15.2	15.6
1,2-Dichlorobenzene	4.03	4.23
1,3-Dichlorobenzene	0.667J	0.679J
1,4-Dichlorobenzene	3.87	4.08
1,1-Dichloroethane	**11.2**	**11.4**
1,1-Dichloroethene	5.92	6.09
cis-1,2-Dichloroethene	**13,200**	**13,400**
trans-1,2-Dichloroethene	**117**	**120**
Di-isopropyl ether	0.161J	0.165J
Ethylbenzene	12.7	12.8
Isopropylbenzene	1.88	2.04
p-Isopropyltoluene	0.200J	0.220J
n-Propylbenzene	0.280J	0.303J
Tetrachloroethene (PCE)	**21.7**	**21.5**
Toluene	37.1	36.8
1,2,4-Trichlorobenzene	0.569J	0.604J
Trichloroethene (TCE)	**33.2**	**32.5**
1,2,4-Trimethylbenzene	1.65	1.69
1,2,3-Trimethylbenzene	4.55	4.81
1,3,5-Trimethylbenzene	1.56	1.59
Vinyl Chloride	**3,010**	**2,940**
Xylenes, Total	63.6	65
Isophorone	0.502J	ND
Naphthalene	0.541J	ND
Diethyl phthalate	0.585J	ND
1,2,4-Trichlorobenzene	0.299J	ND
2,4-Dimethylphenol	0.212J	ND

TMW-2
TMW-1
SGP-1
PSG-1
SGP-2
SGP-3
GUILFORD COLLEGE ROAD

N

0 10 20 30 40 50

SCALE: 1" = 50'

NOTES:
1. Features shown are not an authoritative location, nor are they presented to a stated accuracy.
2. µg/L = micrograms per liter.
3. **BOLD** = exceeds 15A NCAC 2L Groundwater Standard (April 2022).

COORDINATE SYSTEM:
NAD 1983 NORTH CAROLINA STATE PLANE FIPS 3200, US SURVEY FEET

Dm. By: EM | Ckd. By: LG | App'd By: | Ckd. Date:

Project Number: IHSB050P01

Drawing File: SEE LOWER LEFT

GROUNDWATER ANALYTICAL MAP - VOCS AND SVOCS

GAITHER TRANSOU PROPERTY
1202 GUILFORD COLLEGE ROAD
JAMESTOWN, GUILFORD COUNTY, NORTH CAROLINA
ID No. NONCD0000024

Date: 05/29/2024
Scale: AS SHOWN
Figure: 2A

C:\USERS\ECHO.MILANUK\ONEATLAS\DIGITAL SERVICES - FILE SERVER\2024\CAD DEPARTMENT\NCDEQ-IHSB\GAITHER TRANSOU\IHSB050P01-VOCS.DWG, ATT2A

LEGEND:

- TMW-1 — TEMPORARY MONITORING WELL (Well Identification)
- SGP-1 — SOIL-GAS MONITORING POINT (Sample Identification)
- PSG-1 — PASSIVE SOIL-GAS (Sample Identification)
- SITE PROPERTY LINE
- PARCEL LINE

NOTE: ALL LOCATIONS ARE APPROXIMATE

TMW-2	
Sampling Date	2/22/2024
Units	ng/L
Perfluoro-1-butanesulfonic acid (PFBS)	0.49
Perfluorohexanesulfonic acid (PFHxS)	2.3
Perfluoro-n-butanoic acid (PFBA)	1.1
Perfluoro-n-octanoic acid (PFOA)	0.97

TMW-1		
Sampling Date	2/22/2024	2/22/2024*
Units	ng/L	
Perfluoro-1-butanesulfonic acid (PFBS)	78	87
Perfluoro-1-pentanesulfonic acid (PFPeS)	14	16
Perfluorohexanesulfonic acid (PFHxS)	20	20
Perfluoro-n-butanoic acid (PFBA)	12	12
Perfluoro-n-heptanoic acid (PFHpA)	10	11
Perfluoro-n-hexanoic acid (PFHxA)	29	25
Perfluoro-n-octanoic acid (PFOA)	24	24
Perfluoro-n-pentanoic acid (PFPeA)	14	14

TMW-2
TMW-1
SGP-1
PSG-1
SGP-2
SGP-3
GUILFORD COLLEGE ROAD

N

0 10 20 30 40 50

SCALE: 1" = 50'

NOTES:
1. Features shown are not an authoritative location, nor are they presented to a stated accuracy.
2. ng/L = nanograms per liter.

COORDINATE SYSTEM:
NAD 1983 NORTH CAROLINA STATE PLANE FIPS 3200, US SURVEY FEET

GROUNDWATER ANALYTICAL MAP - PFAS

GAITHER TRANSOU PROPERTY
1202 GUILFORD COLLEGE ROAD
JAMESTOWN, GUILFORD COUNTY, NORTH CAROLINA
ID No. NONCD0000024

Dm. By:	EM
Ckd. By:	LG
App'd By:	
Ckd. Date:	
Project Number:	IHSB050P01
Drawing File:	SEE LOWER LEFT
Date:	05/29/2024
Scale:	AS SHOWN
Figure:	2B

C:\USERS\ECHO.MILANUK\ONEATLAS\DIGITAL SERVICES - FILE SERVER\2024\CAD DEPARTMENT\NCDEQ-IHSB\GAITHER TRANSOU\IHSB050P01-PFAS.DWG, ATT2B

LEGEND:

- TMW-1 — TEMPORARY MONITORING WELL (Well Identification)
- SGP-1 — SOIL-GAS MONITORING POINT (Sample Identification)
- PSG-1 — PASSIVE SOIL-GAS (Sample Identification)
- SITE PROPERTY LINE
- PARCEL LINE

NOTE: ALL LOCATIONS ARE APPROXIMATE

PSG-1		
Sampling Date	2/22/2024	2/22/2024*
Units	µg/m³	
Depth (feet)	1	
Ethyl Benzene	1.29	1.37
Toluene	ND	ND
Xylenes (total)	7.75	8.3
Residential Carcinogenic Risk	3.4E-08	3.7E-08
Residential Hazard Index	0.0023	0.0024
Non-Residential Carcinogenic Risk	2.6E-09	2.8E-09
Non-Residential Hazard Index	0.00018	0.00019

SGMP-2	
Sampling Date	2/22/2024
Units	µg/m³
Depth (feet)	10
Ethyl Benzene	10
Toluene	27
Xylenes (total)	52
Residential Carcinogenic Risk	2.7E-07
Residential Hazard Index	0.015
Non-Residential Carcinogenic Risk	2.0E-08
Non-Residential Hazard Index	0.0012

SGMP-3	
Sampling Date	2/22/2024
Units	µg/m³
Depth (feet)	10
Ethyl Benzene	1.29
Toluene	ND
Xylenes (total)	7.75
Residential Carcinogenic Risk	--
Residential Hazard Index	--
Non-Residential Carcinogenic Risk	--
Non-Residential Hazard Index	--

TMW-2
TMW-1
SGP-1
PSG-1
SGP-2
SGP-3
GUILFORD COLLEGE ROAD

N

0 10 20 30 40 50

SCALE: 1" = 50'

C:\USERS\ECHO.MILANUK\ONEATLAS\DIGITAL SERVICES - FILE SERVER\2024\CAD DEPARTMENT\NCDEQ-IHSB\GAITHER TRANSOU\IHSB050P01-SG.DWG, ATT3

Dm. By: EM | Ckd. By: LG | App'd By: | Ckd. Date:

Project Number: IHSB050P01

Drawing File: SEE LOWER LEFT

NOTES:
1. Features shown are not an authoritative location, nor are they presented to a stated accuracy.
2. µg/m³ = micrograms per cubic meter.
3. Risk values calculated using NCDEQ Risk Calculator (February 2024).

COORDINATE SYSTEM:
NAD 1983 NORTH CAROLINA STATE PLANE FIPS 3200, US SURVEY FEET

SOIL GAS ANALYTICAL MAP

GAITHER TRANSOU PROPERTY
1202 GUILFORD COLLEGE ROAD
JAMESTOWN, GUILFORD COUNTY, NORTH CAROLINA
ID No. NONCD0000024

Date: 05/29/2024

Scale: AS SHOWN

Figure: 3

APPENDIX A

MONITORING WELL PERMIT

ROY COOPER
Governor
ELIZABETH S. BISER
Secretary
RICHARD E. ROGERS, JR.
Director

NORTH CAROLINA
Environmental Quality

January 31, 2024

Mr. Keith Snavely
NCDEQ IHSB – Superfund Section
1646 Mail Service Center
Raleigh, NC 27699-1746

SUBJECT: ***MONITORING WELL CONSTRUCTION***
PERMIT NO. WM0401508
COUNTY: Guilford
FILE NAME: Gaither Transou Property

Dear Mr. Snavely:

In accordance with your application received on January 29, 2024, we are forwarding herewith:

1. Monitoring Well Construction Permit No. WM0401508 for the construction of two (2) monitoring wells at 1202 Guilford College Road in Jamestown, North Carolina, in Guilford County.

Henceforth, correspondence and data relating to this well shall be designated as specified in the subject heading above. This Permit will be effective from the date of issuance and shall be subject to the conditions and limitations as specified therein. If you have any questions regarding this permit, please contact me or Shuying Wang at (336) 776-9800.

Sincerely,

DocuSigned by:
Lon T. Snider
145B49E225C94EA...

Lon T. Snider
Regional Supervisor
Water Quality Regional Operations Section
Division of Water Resources, NCDEQ – WSRO

cc: Larry M. George – ATC Associates of North Carolina, P.C. (Electronic Copy)
Keith Snavely – NCDEQ IHSB – Superfund Section (Electronic Copy)
Gene Mao – Guilford County Environmental Health (Electronic Copy)

NORTH CAROLINA
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WATER RESOURCES – WATER QUALITY REGIONAL OPERATIONS SECTION

PERMIT FOR THE CONSTRUCTION OF A MONITORING WELL

In accordance with the provisions of Article 7, Chapter 87, North Carolina General Statutes, and other applicable Laws, Rules and Regulations.

PERMISSION IS HEREBY GRANTED TO

NCDEQ IHSB – Superfund Section

FOR THE CONSTRUCTION OF A MONITOR WELL SYSTEM consisting of two (2) monitoring wells owned by NCDEQ IHSB – Superfund Section. The well will be located at 1202 Guilford College Road in Jamestown, North Carolina, in Guilford County. This Permit is issued in accordance with the application received on January 29, 2024, in conformity with specifications and supporting data, all of which are filed with the Department of Environmental Quality and are considered integral parts of this Permit.

This Permit is for **well construction only** and does not waive any provision or requirement of any other applicable law or regulation. Construction of any well under this Permit shall be in strict compliance with the North Carolina Well Construction Regulations and Standards (15A NCAC 02C .0100), and other State and Local Laws and regulations pertaining to well construction.

If any requirements or limitations specified in this Permit are unacceptable, you have a right to an adjudicatory hearing upon written request within 30 days of receipt of this Permit. The request must be in the form of a written petition conforming to Chapter 150B of the North Carolina General Statutes and filed with the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714. Unless such a demand is made, this Permit is final and binding.

This Permit will be effective for one year from the date of its issuance and shall be subject to other specified conditions, limitations, or exceptions as follows:

1. Issuance of this Permit does not obligate reimbursement from State trust funds, if these wells are being installed as part of an investigation for contamination from an underground storage tank or dry cleaner incident.
2. Issuance of this Permit does not supersede any other agreement, permit, or requirement issued by another agency.
3. The well(s) shall be located and constructed as shown on the attachments submitted as part of the Permit application.
4. Each well shall have a Well Contractor Identification Plate in accordance with 15A NCAC 02C .0108(o).

5. Well construction records (GW-1) for each well shall be submitted to the Division of Water Resources' Information Processing Unit within 30 days of the well completion.
6. When the well is discontinued or abandoned, it shall be abandoned in accordance with 15A NCAC 02C .0113 and a well abandonment record (GW-30) shall be submitted to the Division of Water Resources' Information Processing Unit within 30 days of the well abandonment.
7. The County Health Department may require a county monitoring well construction permit. Please contact the health department for their requirements.

Permit issued the 31st of January 2024

FOR THE NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

DocuSigned by:
Lon T. Snider
145B49E225C94EA...

Lon T. Snider, Regional Supervisor
Water Quality Regional Operations Section
Division of Water Resources, NCDEQ - WSRO

By Authority of the Environmental Management Commission

Permit No. # WM0401508

APPENDIX B

FIELD NOTES

(77) 12/4/2023 Gaither - Transou

Leave office @ 0930 St-Odom 226
on-site @ 1100 End Odom 422
196 mi. tot.

Sunny and cool

DEQ - Keith Snavely
Guilford Co. Jordon
ATC - L George

- Located TMW and SGMP's + flagged
- took photos
- discussed QA/QC samples
- Keith said would contact owner about using well water for NON since sampled + VOC, SVOC + PFAS free
- left site @ 1345
- Office C 1530

2

GAITHER TRANSOM PROPERTY 2/15/24

DODGE RAM

LdS/RG

START 10,099

END 10,281

WEATHER: PARTLY CLOUDY

H: 63 L: 34

515 LOAD VEHICLE

550 ATC DEPARTS TO SITE

1750 ATC ONSITE

- LARRY GEORGE ONSITE
- GEX ONSITE - DAVID HALL
- EAST COAST GEOPHYSICS ONSITE

CONDUCTED TGSM

- PID CALIBRATED

DRILLING INFO

RIG: GEOPROBE 7822DT ; DRILLER: DAVID HALL

DPT: 2.25" DIAMETER

HA: 3.25" DIAMETER

HSA: 8.25" DIAMETER

- 1000AM EC GEOPHYSICS DEPARTS SITE

GAITHER TRANSOM PROPERTY 2/15/24

- AFTER DECON ATC COLLECTED EQUIPMENT BLANK BY POURING PFAS-FREE WATER FROM LAB OVER HOLLOW STEM AUGERS

  EQUIP-BLANK-1 SAMPLE COLLECTED @ 1135

- ATC COLLECTED SAMPLE FROM DRILLERS DECONAMINATION WATER TANK.

  DECON-WATER SAMPLE COLLECTED @ 1125

TMW-1 SOIL SAMPLE COLLECTED @ 1140

TMW-2 SOIL SAMPLE COLLECTED @ 1225

- 1700 ATC & GEX DEPART SITE
- 1900 ATC BACK TO OFFICE
- 1930 FINISHED UNLOADING

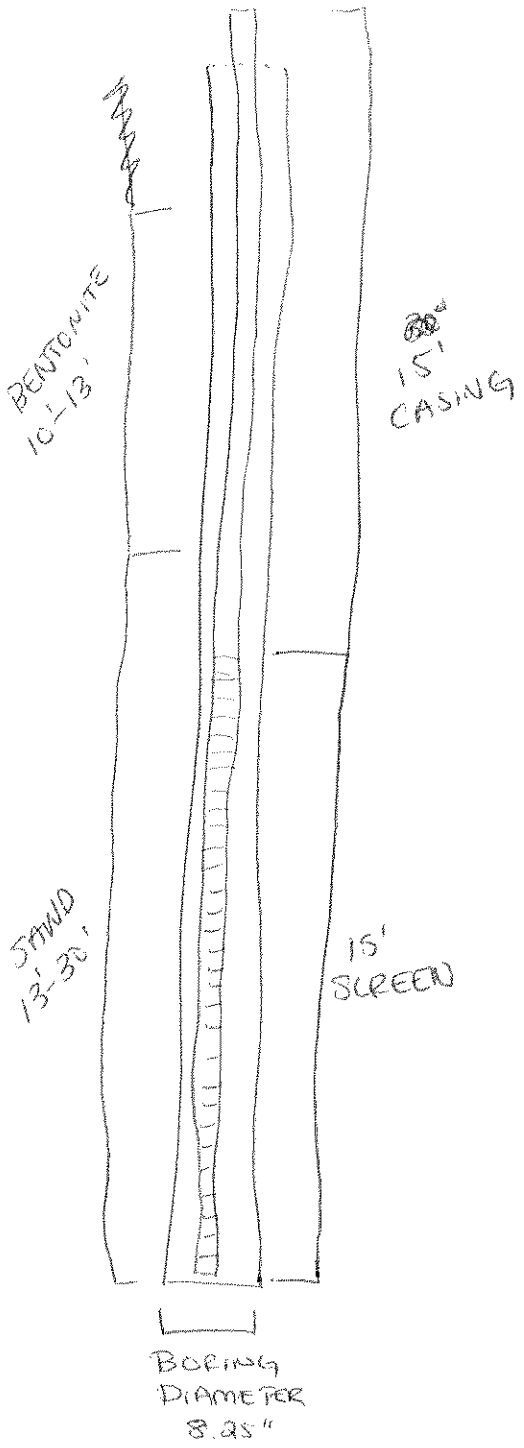
GAITHER TRANSOU PROPERTY 2/15/24

TMW-1

DEPTH	LITHOLOGY	PID
0 - 1'	BROWN FINE GRAINED SILTY SAND; DRY	0-2 1.1
1' - 14'	BROWNISH RED; CLAYEY SILT; HARD; DRY	2-4 1.5
14 - 18'	REDDISH BROWN SANDY SILT,	4-6 1.2
18' - 20'	BROWN CLAYEY SILT, MOIST BLACK MOTTLING	6-8 2.4
20' - 22'	RED SANDY CLAY	8-10 2.0
22' - 25'	REDDISH BROWN SANDY SILT; SOME GRAVEL FRAGMENTS	10-12 2.6
25-29'	REDDISH BROWN TAN SILT; MOIST; BLACK MOTTLING; 28'-29' STRONG CHEMICAL ODOR	12-14 3.6
29-30'	SAPROLITE	14-16 1.9
		16-18 2.4
		18-20 4.2
		20-22 4.3
		22-24 6.2
		24-26 27.5
		26-28 48.8
		28-30 95.0

(BOTH WELLS)

WELL CONSTRUCTION



DTW: 23.54'

GAITHER TRANSOU PROPERTY 2/15/24

TMW-2

DEPTH	LITHOLOGY	PID	
0' - 3'	BROWNISH RED CLAY; DENSE; DRY	0 - 2 3.9	
		2-4 2.7	
3' - 24'	BROWNISH RED SILTY CLAY; DAMP @ 14' BLACK MODDELING MOIST @ 22'	4-5 3.4	
		6-8	DPT SLEEVE MELTED AND WAS STUCK IN ROD. RELEVERY WAS MINIMAL
24'-26'	LIGHT BROWN SANDY SILT; FINE GRAINED	8-10	
		10-12 3.3	
26-29'	REDDISH BROWN CLAYEY SILT; MOIST SATURATED @ 27'	12-14 4.9	
		14-16 4.4	
29-30'	SAPROLITE; DRY	16-18 4.5	
		18-20 3.0	
		20-22 2.2	
		22-24 4.7	
		24-26 3.0	

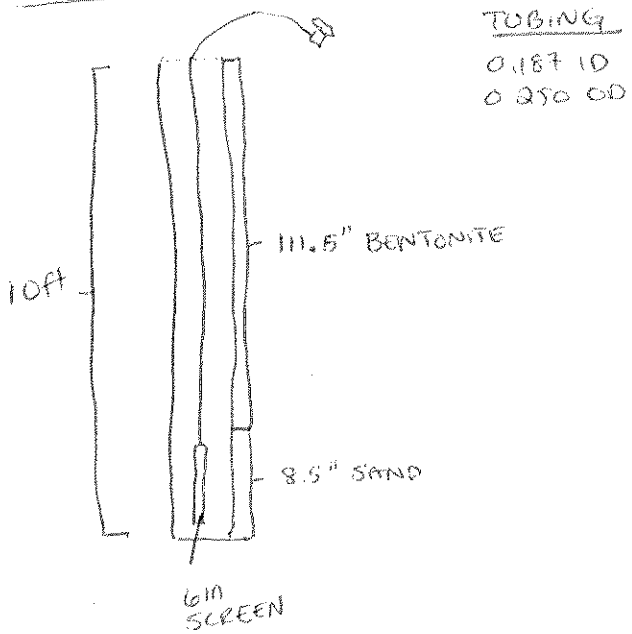
DTW: 21.25

GAITHER TRANSOU PROPERTY 2/15/24

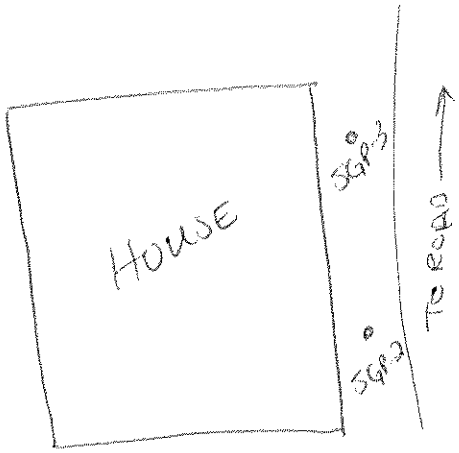
SGP-1

DEPTH	LITHOLOGY	PID
0.0' - 0.50'	TOPSOIL; ORGANICS	0-1 5.8
0.50' - 5.0'	BROWNISH RED SILTY CLAY; MICACEOUS; BLACK MODDELING; DRY	1-2 6.2 2-3 3.9 3-4 4.4 4.5 2.5 5-6 3.7
5' - 7'	WHITE + TAN SANDY CLAY; DRY; FINE GRAINED SAND	6-7 8.9 7-8 4.9 8-9 4.5 9-10 3.8
7' - 10'	REDDISH BROWN SILTY CLAY; DRY	

(ALL SGPs)
CONSTRUCTION DETAILS



LOCATIONS



SGP-1

SGP-2 + SGP-3

DEPTH	LITHOLOGY	SGP-2 PID	SGP-3 PID
0.0 - 0.50'	TOPSOIL; ORGANICS	0-1	
0.50' - 5.0'	REDDISH BROWN SILTY CLAY; MICACEOUS; DRY	3.9	2.1
		1-2	
		4.0	2.0
		2-3	
5' - 7.5'	WHITE & TAN SANDY CLAY; DRY; SOME GRAVEL FRAGMENTS	4.1	2.1
		3-4	
		3.4	2.5
		4-5	
7.5' - 10	REDDISH BROWN SILTY CLAY; DRY, MICACEOUS	4.2	2.7
		5-6	
		3.6	3.6
		6-7	
		4.0	3.4
		7-8	
		3.6	3.6
		8-9	
		4.1	3.3
		9-10	
		4.7	3.2

GAITHER TRANSOM PREP 2/22/24

RAM 1500
START 10,730
END 10,916

LDS/LC

WEATHER: CLOUDY
H 63 L 37

800 LOAD VEHICLE
845 DEPART TO SITE
1030 ATC ONSITE
- CONDUCTED TGSM

WELL ID	DTW
TMW-1	23.19
TMW-2	19.26

- CALIBRATED YSI & TURBIDITY METER
- USING HDPE TUBING FOR SAMPLING
- SEE GW SAMPLING FORM FOR DETAILS
- NOTIFIED PM THAT PPE DRUM WAS TAKEN FROM SITE.
- DUE TO SAMPLE UNABLE TO BE COLLECTED FROM SGP-1, BEACON SAMPLER WAS INSTALLED (PSG-1).
  - PSG-1 INSTALLED NEAR SGP-1 LOCATION
    INSTALLED @ 1740

GAITHER TRANSOU PROPERTY 2/22/24

LAS/LC

GW EQUIPMENT BLANK-2 COLLECTED @ 1505
- POURED PFAS FREE DI WATER THROUGH FRESH HDPE TUBING

SGP- SOIL COLLECTED @ 1530

TMW-1 (SOIL) COLLECTED @ 1540
TMW-2 (SOIL) COLLECTED @ 1550

GPS LOCATIONS COLLECTED FOR BOTH WELLS & ALL SGPs.

- NO DUPLICATE SAMPLE OF SGP DUE TO SAMPLING T NOT APPROPRIATE FOR SUMMAS. NOTIFIED PM.

1800 ATC DEPARTS SITE
1936 ATC ARRIVES TO OFFICE
2000 FINISHED UNLOADING.

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

GROUNDWATER SAMPLING LOG

Date: 2/22/04	Well ID: TMW-1	Sampled by: LdS/LC
Site: GAITHER TRANSOU PROP	Depth to Water (ft): 23.19	

Purge Method: (Peristaltic Pump) Bladder Pump

Instruments: (YSI Pro Quatro) (Turbidity Meter)

Teflon Tubing Used (footage):

Parameters

Time	Temp (°C)	DO (mg/L)	SPC (µS/cm)	Cond. (µS/cm) (± 5%)	pH (Std.) (±0.1)	ORP (mV)	Turbidity (NTU) (<10)	DTW (ft)
1110	16.8	1.81	408.0	343.6	5.88	-15.6	76.9	23.32
1113	16.6	1.67	407.6	340.9	5.78	-4.8	84.3	23.39
1116	16.4	1.17	404.7	337.8	5.85	-11.4	92.7	23.42
1119	16.4	1.06	403.3	336.4	5.88	-13.7	97.4	23.45
1122	16.3	2.13	402.8	335.6	5.87	-16.7	94.0	23.48
1125	16.3	1.77	402.9	335.7	5.80	-13.0	97.0	23.51
1128	16.1	0.89	403.0	334.5	5.87	-15.2	90.4	23.54
1131	16.2	0.90	401.6	334.2	5.87	-12.9	85.3	23.57
1134	16.2	0.87	402.7	335.0	5.91	-16.9	78.1	23.59
1137	16.3	0.77	403.4	336.0	5.90	-17.2	65.3	23.61
1140	16.2	0.78	404.3	336.0	5.92	-18.4	63.2	23.64
1143	16.5	0.73	404.6	339.0	5.92	-22.3	53.0	23.66
1146	16.9	0.71	407.6	341.9	5.93	-25.1	46.9	23.67
1149	16.7	0.15	409.1	343.9	5.95	-26.0	45.2	23.68
1152	16.5	0.68	412.5	345.0	5.96	-28.3	37.9	23.70
1155	16.6	0.53	411.6	346.2	5.95	-29.4	35.0	23.70
1158	16.7	0.53	412.9	347.4	5.98	-31.3	31.6	23.71
1201	16.6	0.50	414.5	348.1	5.96	-32.5	28.3	23.71
1204	16.5	0.48	416.0	348.3	5.99	-35.1	23.3	23.71
1207	16.5	0.46	417.4	349.0	6.02	-37.6	21.1	23.71

Turbidity:

	Time	NTU
Pre-decant		
Post-decant:		

SAMPLE COLLECTION TIME:

Notes: DUP-A

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

GROUNDWATER SAMPLING LOG

Date: 2/22/24	Well ID: TMW-1	Sampled by: LdS/LC
Site: GAITHER TENNSON PREP	Depth to Water (ft): 23.19	

Purge Method: (Peristaltic Pump) Bladder Pump

Instruments: (YSI Pro Quatro) (Turbidity Meter)

Teflon Tubing Used (footage):

Parameters

Time	Temp (°C)	DO (mg/L)	SPC (µS/cm)	Cond. (µS/cm) (± 5%)	pH (Std.) (±0.1)	ORP (mV)	Turbidity (NTU) (<~~10~~ 5)	DTW (ft)
1210	16.5	0.39	418.4	350.8	6.04	-39.5	18.1	23.71
1213	17.0	1.25	416.8	353.2	6.05	-40.6	14.9	23.71
1216	16.7	0.40	419.5	353.3	6.04	-41.5	13.8	23.71
1219	16.7	0.45	421.0	353.8	6.03	-42.2	13.1	23.72
1222	16.6	0.29	420.5	353.1	6.04	-42.7	12.0	23.72
1225	16.7	0.28	419.9	353.3	6.03	-43.3	11.0	23.72
1228	17.0	0.27	420.4	355.6	6.03	-44.2	9.85	23.73
1231	17.0	0.26	421.6	356.7	6.05	-44.9	9.32	23.73
1234	17.0	0.27	421.3	357.2	6.04	-44.5	8.71	23.74
1237	16.9	0.30	422.1	357.0	6.05	-44.9	8.94	23.72
1240	17.0	0.28	421.9	357.3	6.05	-45.1	8.88	23.72
1243	16.9	0.28	421.8	356.2	6.04	-44.6	7.95	23.72
1246	16.7	0.25	421.2	355.0	6.04	-43.6	8.66	23.72
1249	16.6	0.30	421.2	353.6	6.04	-44.7	7.09	23.71

Turbidity:

	Time	NTU
Pre-decant		
Post-decant:		

SAMPLE COLLECTION TIME: 1255

Notes: CALLED PM TO NOTIFY ABOUT TURBIDITY; PM ADVISED TO SAMPLE

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

GROUNDWATER SAMPLING LOG

Date: 8/22/24	Well ID: TMW-2	Sampled by: CdS/LC
Site:	Depth to Water (ft): 19.26	

Purge Method: (Peristaltic Pump) Bladder Pump

Instruments: (YSI Pro Quatro) (Turbidity Meter)

Teflon Tubing Used (footage):

Parameters

Time	Temp (°C)	DO (mg/L)	SPC (µS/cm)	Cond. (µS/cm) (± 5%)	pH (Std.) (±0.1)	ORP (mV)	Turbidity (NTU) (<10)	DTW (ft)
1438	17.3	6.61	155.7	132.9	5.65	105.6	8.38	19.37
1441	16.9	5.91	157.3	132.2	5.57	110.5	6.16	19.47
1444	16.9	5.87	157.8	133.4	5.58	107.4	3.17	19.52
1447	16.7	5.76	160.8	135.4	5.57	103.2	2.70	19.60

Turbidity:

	Time	NTU
Pre-decant		
Post-decant:		

SAMPLE COLLECTION TIME: 1500

Notes:

ATC

GAS PROBE SAMPLING

Notes: GAITHER TRANSOM

SGP-1 NOT COLLECTED DUE TO VACCUM.

Date	Sample ID	Pressure Test	Start Time	Start Vac "Hg	End Time	End Vac "Hg	Summa ID	Reg ID	He TEDLAR ~~H2S Sample Time~~ PPM	He SYRINGE ~~Teflon Tubing Footage~~ %	HELIUM TEST
							34001081				
2/22/24	SGP-1	✓	1609	~~28.0~~	—	—	~~[illegible]~~	24328	0.0	21.6	✓
2/22/24	SGP-2	✓	1700	27.5	1710	3.0	IL2112	23383	0.0	23.9	✓
2/22/24	SGP-3	✓	1718	27.5	1727	3.0	IL2179	23830	0.0	19.5	✓

~~PDOG~~
BEACON @ 1740

FIELD ENVIRONMENTAL INSTRUMENTS, INC.
www.fieldenvironmental.com

301 Brushton Ave
Suite A
Pittsburgh, PA 15221
Toll Free (800) 393-4009
Local (412) 436-2600
Fax (412) 436-2616

Helium Detector Calibration Certificate

	Lot #	Expiration
Helium Gas	19-7110	10/30/2024

Cal Standard	Reading	Acceptable Range
5,000 ppm	5,050	(4,500 - 5,500)

Model	Dielectric
S/N	42637
Barcode	U103547X
Order #	542214

Calibrated By	Justin Leonard
Date of Calibration	02/21/2024

All calibrations performed by FEI conform to manufacturer's specifications. Please report any issues within 24 hours of receiving equipment.
All calibration gas used is traceable to NIST. Additional documentation is available upon request.

FIELD ENVIRONMENTAL INSTRUMENTS, INC.
www.fieldenvironmental.com

301 Brushton Ave
Suite A
Pittsburgh, PA 15221
Toll Free (800) 393-4009
Local (412) 436-2600
Fax (412) 436-2616

Geotech Turbidity Meter Calibration Certificate

	Lot #	Exp Date	Reading
0.1 NTU	55D	11/01/2024	0.1
20 NTU	55D	11/01/2024	20.0
100 NTU	55D	11/01/2024	100.0
800 NTU	55D	11/01/2024	800.0

Model	Geotech Turb
S/N	21063282
Barcode	U106593X
Order #	U542214X

Calibrated By Justin Leonard

Date of Calibration 02/21/2024

All calibrations performed by Field Environmental Instruments conform to manufacturer's specifications.
Any problems must be reported to Field Environmental within 24 hours of receiveing equipment.

FEB 94 Gaither Transon 2-23-24
Vehicle: Ram 1500 S: 10924 E: 11085

Personel: Luke C

Equipment none

Weather: Rain H: 51 L: 38

Objective: Abandon monitoring wells TMW-1, TMW-2

0630	ATC depart to site
0800	ATC on-site
0820	GEX on site
0930	Well abandonment Complete
0955	ATC depart site
1205	ATC at office

2.5 bags of hole plug per hole for TMW-1 and TMW-2.

Abandonment

TMW-1	0 - 0.6'	Concrete
	0.6' - 10'	Bentonite
TMW-2	0 - 0.6'	Concrete
	0.6' - 10'	Bentonite

APPENDIX C

PHOTOGRAPHS

Photo #1: Utility Locate

Photo #2: Utility Locate

ATC Associates of North Carolina, P.C.
2725 E. Millbrook Road, Suite 121
Raleigh, NC 27604
(919) 871-0999

ATC PROJECT NO: IHSB050P01

REVIEWED BY: LG	DATE: 2/15/2024	PHOTOS BY: LdS

Photograph Log

Gaither Transou Property
1202 Guilford College Road
Jamestown, Guilford County, North Carolina
Site ID NONCD0000024

Photo #3: TMW-1 Installation

Photo #4: Decontamination Pit

ATC Associates of North Carolina, P.C.
2725 E. Millbrook Road, Suite 121
Raleigh, NC 27604
(919) 871-0999

ATC PROJECT NO: IHSB050P01

REVIEWED BY: LG	DATE: 2/15/2024	PHOTOS BY: LdS

Photograph Log

Gaither Transou Property
1202 Guilford College Road
Jamestown, Guilford County, North Carolina
Site ID NONCD0000024

Photo #5: TMW-1

Photo #6: TMW-2

ATC Associates of North Carolina, P.C.
2725 E. Millbrook Road, Suite 121
Raleigh, NC 27604
(919) 871-0999

ATC PROJECT NO: IHSB050P01

REVIEWED BY: LG	DATE: 2/22/2024	PHOTOS BY: LdS

Photograph Log

Gaither Transou Property
1202 Guilford College Road
Jamestown, Guilford County, North Carolina
Site ID NONCD0000024

Photo #7: TMW-1 Abandonment

Photo #8: TMW-2 Abandonment

ATC Associates of North Carolina, P.C.
2725 E. Millbrook Road, Suite 121
Raleigh, NC 27604
(919) 871-0999

ATC PROJECT NO: IHSB050P01

REVIEWED BY: LG	DATE: 2/23/2024	PHOTOS BY: LdS

Photograph Log

Gaither Transou Property
1202 Guilford College Road
Jamestown, Guilford County, North Carolina
Site ID NONCD0000024

Photo #9: SGMP-1/PSG-1

Photo #10: SGMP-2

ATC Associates of North Carolina, P.C.
2725 E. Millbrook Road, Suite 121
Raleigh, NC 27604
(919) 871-0999

ATC PROJECT NO: IHSB050P01

REVIEWED BY: LG	DATE: 2/22/2024	PHOTOS BY: LdS

Photograph Log

Gaither Transou Property
1202 Guilford College Road
Jamestown, Guilford County, North Carolina
Site ID NONCD0000024

Photo #11: SGMP-3

Photo #12: SGMP-1 Abandonment

ATC Associates of North Carolina, P.C.
2725 E. Millbrook Road, Suite 121
Raleigh, NC 27604
(919) 871-0999

ATC PROJECT NO: IHSB050P01

REVIEWED BY: LG	DATE: 2/22/2024	PHOTOS BY: LdS

Photograph Log

Gaither Transou Property
1202 Guilford College Road
Jamestown, Guilford County, North Carolina
Site ID NONCD0000024

Photo #13: SGMP-2 Abandonment

Photo #14: SGMP-3 Abandonment

ATC Associates of North Carolina, P.C.
2725 E. Millbrook Road, Suite 121
Raleigh, NC 27604
(919) 871-0999

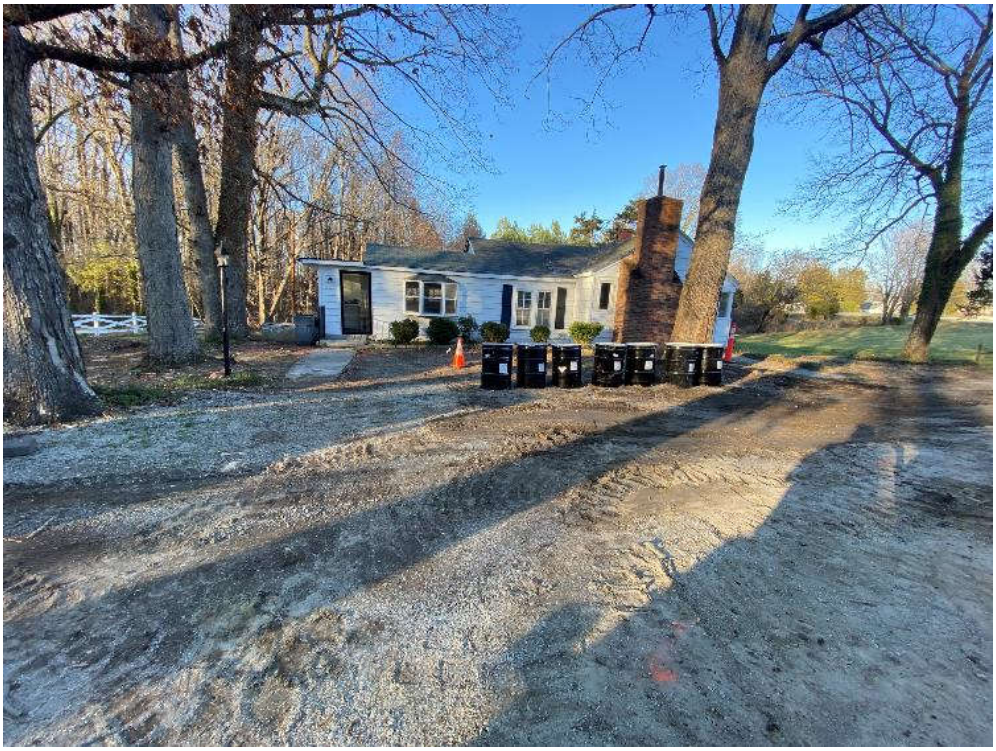
ATC PROJECT NO: IHSB050P01

REVIEWED BY: LG	DATE: 2/22/2024	PHOTOS BY: LdS

Photograph Log

Gaither Transou Property
1202 Guilford College Road
Jamestown, Guilford County, North Carolina
Site ID NONCD0000024

Photo #15: IDW Location



ATC Associates of North Carolina, P.C.
2725 E. Millbrook Road, Suite 121
Raleigh, NC 27604
(919) 871-0999

ATC PROJECT NO: IHSB050P01

REVIEWED BY: LG	DATE: 2/15/2024	PHOTOS BY: LdS

Photograph Log

Gaither Transou Property
1202 Guilford College Road
Jamestown, Guilford County, North Carolina
Site ID NONCD0000024

APPENDIX D

BORING LOGS AND WELL CONSTRUCTION RECORDS

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

DAVID HALL

Well Contractor Name

A - 4459

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 02/15/24 **Well ID#** TMW-1

5a. Well Location:

GAITHER TRANSOU

Facility/Owner Name

Facility ID# (if applicable)

1202 GUILFORD COLLEGE ROAD JAMESTOWN 27282

Physical Address, City, and Zip

GUILFORD

County

Parcel Identification No. (PIN)

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

36° 02' 40.79" N 79° 55' 10.44" W

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

7. Is this a repair to an existing well: ☐**Yes** **or** ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2.25 **(in.)**

12. Well construction method: DPT

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
ft.	ft.	in.			
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
ft.	ft.		
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
ft.	ft.		
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	30.0 ft.	DIRECT PUSH
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

David Hall 02/27/24

Signature of Certified Well Contractor Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

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

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

DAVID HALL

Well Contractor Name (or well owner personally abandoning well on his/her property)

A - 4459

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☑Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 02/23/24

5a. Well location:

GAITHER TRANSOU

Facility/Owner Name

Facility ID# (if applicable)

1202 GUILFORD COLLEGE ROAD JAMESTOWN 27282

Physical Address, City, and Zip

GUILFORD

County

Parcel Identification No. (PIN)

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

36° 02' 40.79" N 79° 55' 10.44" W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TMW-1

6b. Total well depth: 30.0 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: _____ **(ft.)**

6e. Outer casing length (if known): _____ **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): _____ **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: 1

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): _____ **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☑ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

4.75 GALLONS

7g. Provide a brief description of the abandonment procedure:

ABANDONED VIA TREMIE PIPE WITH BENTONITE SLURRY

8. Certification:

David Hall

Signature of Certified Well Contractor or Well Owner

02/27/24

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

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

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

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

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

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

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

DAVID HALL

Well Contractor Name

A - 4459

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 02/15/24 **Well ID#** TMW-2

5a. Well Location:

GAITHER TRANSOU

Facility/Owner Name

Facility ID# (if applicable)

1202 GUILFORD COLLEGE ROAD JAMESTOWN 27282

Physical Address, City, and Zip

GUILFORD

County

Parcel Identification No. (PIN)

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

36° 02' 40.79" N 79° 55' 10.44" W

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

7. Is this a repair to an existing well: ☐**Yes** **or** ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 30.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: _____ **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2.25 **(in.)**

12. Well construction method: DPT

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

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

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

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

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

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
ft.	ft.	in.			
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
ft.	ft.		
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
ft.	ft.		
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	30.0 ft.	DIRECT PUSH
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

22. Certification:

David Hall 02/27/24

Signature of Certified Well Contractor Date

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

23. Site diagram or additional well details:

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

SUBMITTAL INSTUCTIONS

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

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

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

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

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

WELL ABANDONMENT RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

DAVID HALL

Well Contractor Name (or well owner personally abandoning well on his/her property)

A - 4459

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.) if known

3. Well use (check well use):

Water Supply Well:	
☐Agricultural	☐Municipal/Public
☐Geothermal (Heating/Cooling Supply)	☐Residential Water Supply (single)
☐Industrial/Commercial	☐Residential Water Supply (shared)
☐Irrigation	
Non-Water Supply Well:	
☑Monitoring	☐Recovery
Injection Well:	
☐Aquifer Recharge	☐Groundwater Remediation
☐Aquifer Storage and Recovery	☐Salinity Barrier
☐Aquifer Test	☐Stormwater Drainage
☐Experimental Technology	☐Subsidence Control
☐Geothermal (Closed Loop)	☐Tracer
☐Geothermal (Heating/Cooling Return)	☐Other (explain under 7g)

4. Date well(s) abandoned: 02/23/24

5a. Well location:

GAITHER TRANSOU

Facility/Owner Name

Facility ID# (if applicable)

1202 GUILFORD COLLEGE ROAD JAMESTOWN 27282

Physical Address, City, and Zip

GUILFORD

County

Parcel Identification No. (PIN)

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

36° 02' 40.79" N 79° 55' 10.44" W

CONSTRUCTION DETAILS OF WELL(S) BEING ABANDONED

*Attach well construction record(s) if available. For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

6a. Well ID#: TMW-2

6b. Total well depth: 30.0 **(ft.)**

6c. Borehole diameter: 2.25 **(in.)**

6d. Water level below ground surface: _____ **(ft.)**

6e. Outer casing length (if known): _____ **(ft.)**

6f. Inner casing/tubing length (if known): _____ **(ft.)**

6g. Screen length (if known): _____ **(ft.)**

For Internal Use ONLY:

WELL ABANDONMENT DETAILS

7a. Number of wells being abandoned: 1

*For multiple injection or non-water supply wells **ONLY** with the same construction/abandonment, you can submit one form.*

7b. Approximate volume of water remaining in well(s): _____ **(gal.)**

FOR WATER SUPPLY WELLS ONLY:

7c. Type of disinfectant used: _____

7d. Amount of disinfectant used: _____

7e. Sealing materials used (check all that apply):

☐ Neat Cement Grout	☐ Bentonite Chips or Pellets
☐ Sand Cement Grout	☐ Dry Clay
☐ Concrete Grout	☐ Drill Cuttings
☐ Specialty Grout	☐ Gravel
☑ Bentonite Slurry	☐ Other (explain under 7g)

7f. For each material selected above, provide amount of materials used:

4.75 GALLONS

7g. Provide a brief description of the abandonment procedure:

ABANDONED VIA TREMIE PIPE WITH BENTONITE SLURRY

8. Certification:

David Hall

Signature of Certified Well Contractor or Well Owner

02/27/24

Date

By signing this form, I hereby certify that the well(s) was (were) abandoned in accordance with 15A NCAC 02C .0100 or 2C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

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

SUBMITTAL INSTRUCTIONS

10a. For All Wells: Submit this form within 30 days of completion of well abandonment to the following:

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

10b. For Injection Wells: In addition to sending the form to the address in 10a above, also submit one copy of this form within 30 days of completion of well abandonment to the following:

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

10c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well abandonment to the county health department of the county where abandoned.

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

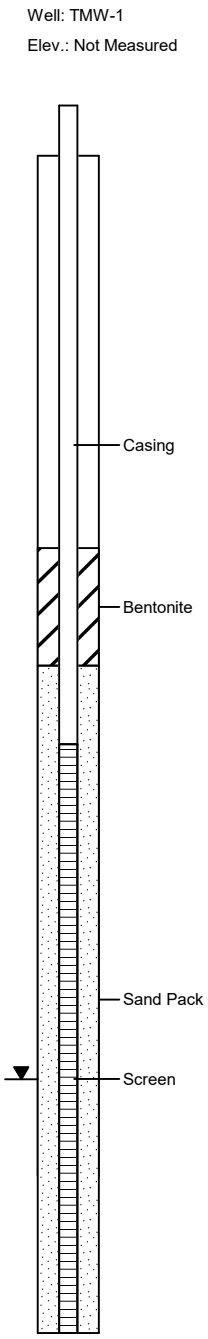
Temporary Monitoring Well: TMW-1

Gaither Transou Property
1202 Guilford College Road
Jamestown, Guilford County, North Carolina
ID No. NONCD0000024

State Contract No. N091319

Date(s) Drilled	: 2/15/2024	Boring Diameter	: HA = 3", DPT = 2.5"
Drilling Contractor	: GEX		: HSA = 8.25"
Drilling Method	: Hand Auger	Sampling Interval	: Continuous
	: Direct Push Technology	Abandonment Date	: 2/23/2024
	: Hollow Stem Augers	Logged By	: LdS

Depth In Feet (BGS)	USCS	GRAPHIC	DESCRIPTION	PID (PPM)
0	SM		Brown SILTY SAND, fine grained, dry.	1.1
	ML		Brownish red CLAYEY SILT, hard, dry.	1.5
5				1.2
				2.4
				2.0
10				2.6
				3.6
15	ML		Reddish brown SANDY SILT.	1.9
				2.4
	ML		Brown CLAYEY SILT, moist, black moddeling.	4.2
20	CL		Red SANDY CLAY.	4.3
	ML		Reddish brown SANDY SILT, some gravel fragments.	6.2
25	ML		Reddish brown tan SILT, moist, black moddeling. 28 feet to 29 feet - strong chemical odor.	27.5
				48.8
	GR		Saprolite.	95.0
30			End of boring.	



GEX =Geologic Exploration Inc.
DPT = Direct Push Technology
HA = Hand Auger
HSA = Hollow Stem Augers
PID = Photoionization Detector

PPM = Parts Per Million

ENVIRONMENTAL • GEOTECHNICAL
BUILDING SCIENCES • MATERIALS TESTING

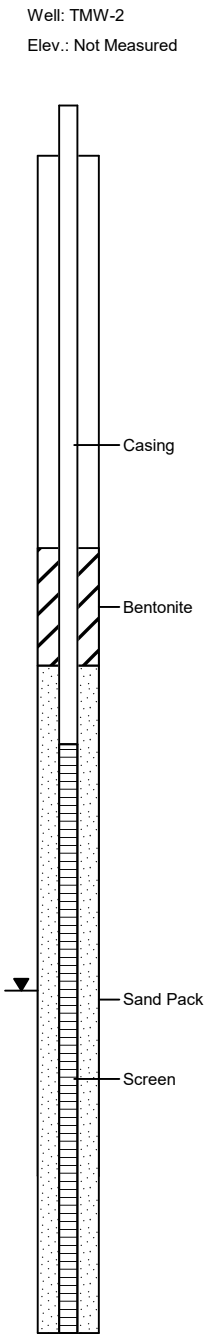
Temporary Monitoring Well: TMW-2

Gaither Transou Property
1202 Guilford College Road
Jamestown, Guilford County, North Carolina
ID No. NONCD0000024

State Contract No. N091319

Date(s) Drilled	: 2/15/2024	Boring Diameter	: HA = 3", DPT = 2.5"
Drilling Contractor	: GEX		: HSA = 8.25"
Drilling Method	: Hand Auger	Sampling Interval	: Continuous
	: Direct Push Technology	Abandonment Date	: 2/23/2024
	: Hollow Stem Augers	Logged By	: LdS

Depth In Feet (BGS)	USCS	GRAPHIC	DESCRIPTION	PID (PPM)
0	CL		Brownish red CLAY, dense, dry.	3.9
			Brownish red SILTY CLAY, black moddeling.	2.7
5			Damp at 14 feet	3.4
			Moist at 22 feet	
10				3.3
	CL			4.9
15				4.4
				4.5
				3.0
20				2.2
				4.7
25	ML		Light brown SANDY SILT, fine grained.	3.0
	ML		Reddish brown CLAYEY SILT, moist. Saturated at 27 feet.	
30			Saprolite.	
			End of boring.	



GEX =Geologic Exploration Inc.
DPT = Direct Push Technology
HA = Hand Auger
HSA = Hollow Stem Augers
PID = Photoionization Detector

PPM = Parts Per Million

ENVIRONMENTAL - GEOTECHNICAL
BUILDING SCIENCES - MATERIALS TESTING

Temporary Soil Gas Monitoring Point: SGMP-1

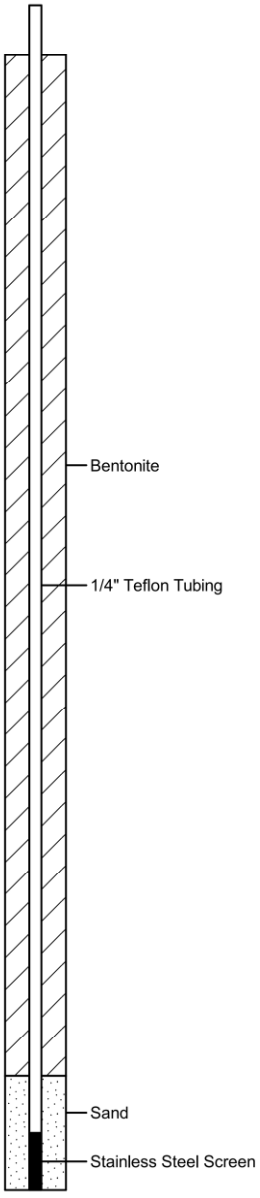
Gaither Transou Property
1202 Guilford College Road
Jamestwon, Guilford County, North Carolina
ID No. NONCD0000024

State Contract No. N091319

Date Drilled	: 2/15/2024	Boring Diameter	: HA = 3", DPT = 2.5"
Drilling Contractor	: GEX		
Drilling Method	: Hand Auger : Direct Push Technology	Sampling Interval	: Continuous
		Logged By	: LdS

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	PID (ppm)
0			Topsoil, Organics.	5.8
1	CL		Brownish red SILTY CLAY, micaceous, black moddeling, dry.	6.2
2				3.9
3				4.4
4				2.5
5	CL		White and tan SANDY CLAY, fine grained, dry.	3.7
6				8.9
7	CL		Reddish brown SILTY CLAY, dry.	4.9
8				4.5
9				3.8
10			End of boring.	

Soil Gas Monitoring Point: SGMP-1



SGMP-1 abandoned on 2/22/2024
GEX = Geologic Exploration Inc.
HA = Hand Auger
DPT = Direct Push Technology

PID = Photoionization Detector
ppm = Parts per Million

ENVIRONMENTAL - GEOTECHNICAL
BUILDING SCIENCES - MATERIALS TESTING

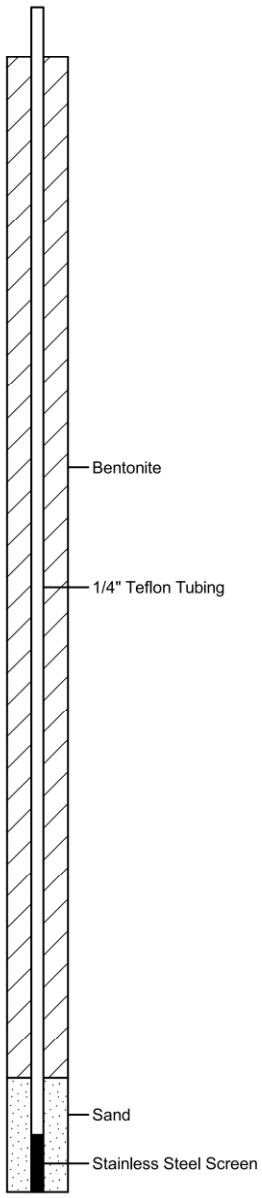
Temporary Soil Gas Monitoring Point: SGMP-2

Gaither Transou Property
1202 Guilford College Road
Jamestwon, Guilford County, North Carolina
ID No. NONCD0000024

State Contract No. N091319

Date Drilled	: 2/15/2024	Boring Diameter	: HA = 3", DPT = 2.5"
Drilling Contractor	: GEX		
Drilling Method	: Hand Auger : Direct Push Technology	Sampling Interval	: Continuous
		Logged By	: LdS

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	PID (ppm)
0			Topsoil, Organics.	3.9
1	CL		Reddish brown SILTY CLAY, micaceous, dry.	4.0
2				4.1
3				3.4
4				4.2
5	CL		White and tan SANDY CLAY, some gravel fragments.	3.6
6				4.0
7	CL		Reddish brown SILTY CLAY, micaceous, dry.	3.6
8				4.1
9				4.7
10			End of boring.	



SGMP-2 abandoned on 2/22/2024
GEX =Geologic Exploration Inc.
HA = Hand Auger
DPT = Direct Push Technology

PID = Photoionization Detector
ppm = Parts per Million

ENVIRONMENTAL - GEOTECHNICAL
BUILDING SCIENCES - MATERIALS TESTING

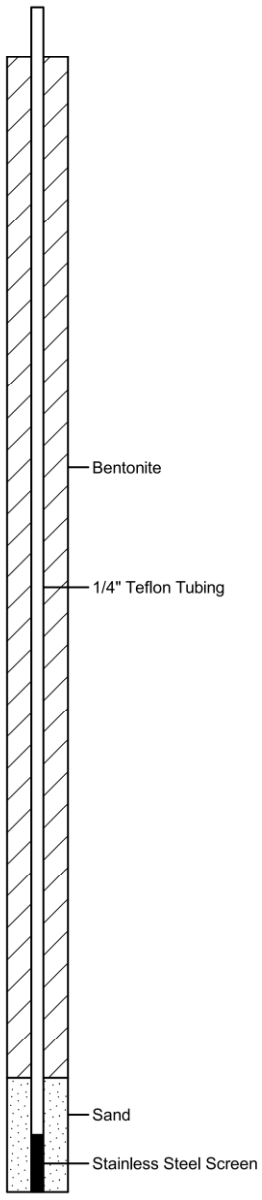
Temporary Soil Gas Monitoring Point: SGMP-3

Gaither Transou Property
1202 Guilford College Road
Jamestwon, Guilford County, North Carolina
ID No. NONCD0000024

State Contract No. N091319

Date Drilled	: 2/15/2024	Boring Diameter	: HA = 3", DPT = 2.5"
Drilling Contractor	: GEX		
Drilling Method	: Hand Auger : Direct Push Technology	Sampling Interval	: Continuous
		Logged By	: LdS

Depth in Feet	USCS	GRAPHIC	DESCRIPTION	PID (ppm)
0			Topsoil, Organics.	2.1
1	CL		Reddish brown SILTY CLAY, micaceous, dry.	2.0
2				2.1
3				2.5
4				2.7
5	CL		White and tan SANDY CLAY, some gravel fragments.	3.6
6				3.4
7	CL		Reddish brown SILTY CLAY, micaceous, dry.	3.6
8				3.3
9				3.2
10			End of boring.	



SGMP-3 abandoned on 2/22/2024
GEX =Geologic Exploration Inc.
HA = Hand Auger
DPT = Direct Push Technology

PID = Photoionization Detector
ppm = Parts per Million

APPENDIX E

LABORATORY REPORTS

ANALYTICAL REPORT

March 06, 2024

ATC Group Services LLC

Sample Delivery Group:	L1709696
Samples Received:	02/27/2024
Project Number:	
Description:	Gaither Transou Property

Report To: Larry George
2725 E. Millbrook Road, Ste 121
Raleigh, NC 27604

Entire Report Reviewed By:

Heather J Wagner
Project Manager

TABLE OF CONTENTS

TMW-1 L1709696-01 GW

Collected by: Laura DeSousa | Collected date/time: 02/22/24 12:55 | Received date/time: 02/27/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2238249	1	03/02/24 14:24	03/02/24 14:24	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2240214	250	03/06/24 03:54	03/06/24 03:54	JCP	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2233906	1.05	02/28/24 06:13	02/29/24 16:19	DSH	Mt. Juliet, TN

TMW-2 L1709696-02 GW

Collected by: Laura DeSousa | Collected date/time: 02/22/24 15:00 | Received date/time: 02/27/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2238249	1	03/02/24 14:43	03/02/24 14:43	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2240214	1	03/05/24 23:57	03/05/24 23:57	JCP	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2235509	1	02/29/24 10:06	02/29/24 23:48	DSH	Mt. Juliet, TN

DUP-A L1709696-03 GW

Collected by: Laura DeSousa | Collected date/time: 02/22/24 12:55 | Received date/time: 02/27/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2238249	1	03/02/24 15:02	03/02/24 15:02	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2240214	250	03/06/24 04:17	03/06/24 04:17	JCP	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2235509	1	02/29/24 10:06	03/01/24 02:15	DSH	Mt. Juliet, TN

EQUIP-BLANK-2 L1709696-04 GW

Collected by: Laura DeSousa | Collected date/time: 02/22/24 15:05 | Received date/time: 02/27/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2238249	1	03/02/24 13:09	03/02/24 13:09	JHH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2235509	1	02/29/24 10:06	03/01/24 00:09	DSH	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.

Heather J Wagner
Project Manager

Project Narrative

Method 8270: WG2233906 Pyridine, Aniline, and Benzidine are reporting with critically low recovery in the laboratory control sample(s). These compounds are method defined poor performers. Results are estimated.

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3	11.3	50.0	1	03/02/2024 14:24	WG2238249
Acrolein	U	J4	2.54	50.0	1	03/02/2024 14:24	WG2238249
Acrylonitrile	U		0.671	10.0	1	03/02/2024 14:24	WG2238249
Benzene	1.74		0.0941	1.00	1	03/02/2024 14:24	WG2238249
Bromobenzene	U		0.118	1.00	1	03/02/2024 14:24	WG2238249
Bromodichloromethane	U		0.136	1.00	1	03/02/2024 14:24	WG2238249
Bromoform	U		0.129	1.00	1	03/02/2024 14:24	WG2238249
Bromomethane	U		0.605	5.00	1	03/02/2024 14:24	WG2238249
n-Butylbenzene	0.198	J	0.157	1.00	1	03/02/2024 14:24	WG2238249
sec-Butylbenzene	0.444	J	0.125	1.00	1	03/02/2024 14:24	WG2238249
tert-Butylbenzene	U	J4	0.127	1.00	1	03/02/2024 14:24	WG2238249
Carbon tetrachloride	U	J4	0.128	1.00	1	03/02/2024 14:24	WG2238249
Chlorobenzene	15.2		0.116	1.00	1	03/02/2024 14:24	WG2238249
Chlorodibromomethane	U		0.140	1.00	1	03/02/2024 14:24	WG2238249
Chloroethane	U		0.192	5.00	1	03/02/2024 14:24	WG2238249
Chloroform	U		0.111	5.00	1	03/02/2024 14:24	WG2238249
Chloromethane	U		0.960	2.50	1	03/02/2024 14:24	WG2238249
2-Chlorotoluene	U		0.106	1.00	1	03/02/2024 14:24	WG2238249
4-Chlorotoluene	U		0.114	1.00	1	03/02/2024 14:24	WG2238249
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	03/02/2024 14:24	WG2238249
1,2-Dibromoethane	U		0.126	1.00	1	03/02/2024 14:24	WG2238249
Dibromomethane	U		0.122	1.00	1	03/02/2024 14:24	WG2238249
1,2-Dichlorobenzene	4.03		0.107	1.00	1	03/02/2024 14:24	WG2238249
1,3-Dichlorobenzene	0.667	J	0.110	1.00	1	03/02/2024 14:24	WG2238249
1,4-Dichlorobenzene	3.87		0.120	1.00	1	03/02/2024 14:24	WG2238249
Dichlorodifluoromethane	U		0.374	5.00	1	03/02/2024 14:24	WG2238249
1,1-Dichloroethane	11.2		0.100	1.00	1	03/02/2024 14:24	WG2238249
1,2-Dichloroethane	U		0.0819	1.00	1	03/02/2024 14:24	WG2238249
1,1-Dichloroethene	5.92		0.188	1.00	1	03/02/2024 14:24	WG2238249
cis-1,2-Dichloroethene	13200		31.5	250	250	03/06/2024 03:54	WG2240214
trans-1,2-Dichloroethene	117		0.149	1.00	1	03/02/2024 14:24	WG2238249
1,2-Dichloropropane	U		0.149	1.00	1	03/02/2024 14:24	WG2238249
1,1-Dichloropropene	U		0.142	1.00	1	03/02/2024 14:24	WG2238249
1,3-Dichloropropane	U		0.110	1.00	1	03/02/2024 14:24	WG2238249
cis-1,3-Dichloropropene	U		0.111	1.00	1	03/02/2024 14:24	WG2238249
trans-1,3-Dichloropropene	U		0.118	1.00	1	03/02/2024 14:24	WG2238249
2,2-Dichloropropane	U		0.161	1.00	1	03/02/2024 14:24	WG2238249
Di-isopropyl ether	0.161	J	0.105	1.00	1	03/02/2024 14:24	WG2238249
Ethylbenzene	12.7		0.137	1.00	1	03/02/2024 14:24	WG2238249
Hexachloro-1,3-butadiene	U		0.337	1.00	1	03/02/2024 14:24	WG2238249
Isopropylbenzene	1.88		0.105	1.00	1	03/02/2024 14:24	WG2238249
p-Isopropyltoluene	0.200	J	0.120	1.00	1	03/02/2024 14:24	WG2238249
2-Butanone (MEK)	U		1.19	10.0	1	03/02/2024 14:24	WG2238249
Methylene Chloride	U		0.430	5.00	1	03/02/2024 14:24	WG2238249
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	03/02/2024 14:24	WG2238249
Methyl tert-butyl ether	U		0.101	1.00	1	03/02/2024 14:24	WG2238249
Naphthalene	U		1.00	5.00	1	03/02/2024 14:24	WG2238249
n-Propylbenzene	0.280	J	0.0993	1.00	1	03/02/2024 14:24	WG2238249
Styrene	U		0.118	1.00	1	03/02/2024 14:24	WG2238249
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	03/02/2024 14:24	WG2238249
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	03/02/2024 14:24	WG2238249
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	03/02/2024 14:24	WG2238249
Tetrachloroethene	21.7		0.300	1.00	1	03/02/2024 14:24	WG2238249
Toluene	37.1		0.278	1.00	1	03/02/2024 14:24	WG2238249
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/02/2024 14:24	WG2238249
1,2,4-Trichlorobenzene	0.569	J	0.481	1.00	1	03/02/2024 14:24	WG2238249

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.149	1.00	1	03/02/2024 14:24	WG2238249
1,1,2-Trichloroethane	U		0.158	1.00	1	03/02/2024 14:24	WG2238249
Trichloroethene	33.2		0.190	1.00	1	03/02/2024 14:24	WG2238249
Trichlorofluoromethane	U		0.160	5.00	1	03/02/2024 14:24	WG2238249
1,2,3-Trichloropropane	U		0.237	2.50	1	03/02/2024 14:24	WG2238249
1,2,4-Trimethylbenzene	1.65		0.322	1.00	1	03/02/2024 14:24	WG2238249
1,2,3-Trimethylbenzene	4.55		0.104	1.00	1	03/02/2024 14:24	WG2238249
1,3,5-Trimethylbenzene	1.56	C5 J4	0.104	1.00	1	03/02/2024 14:24	WG2238249
Vinyl chloride	3010		58.5	250	250	03/06/2024 03:54	WG2240214
Xylenes, Total	63.6		0.174	3.00	1	03/02/2024 14:24	WG2238249
(S) Toluene-d8	*100*			*80.0-120*		*03/02/2024 14:24*	WG2238249
(S) Toluene-d8	*101*			*80.0-120*		*03/06/2024 03:54*	WG2240214
(S) 4-Bromofluorobenzene	*96.5*			*77.0-126*		*03/02/2024 14:24*	WG2238249
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*03/06/2024 03:54*	WG2240214
(S) 1,2-Dichloroethane-d4	*96.4*			*70.0-130*		*03/02/2024 14:24*	WG2238249
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*03/06/2024 03:54*	WG2240214

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0930	1.05	1.05	02/29/2024 16:19	WG2233906
Acenaphthylene	U		0.0967	1.05	1.05	02/29/2024 16:19	WG2233906
Anthracene	U		0.0844	1.05	1.05	02/29/2024 16:19	WG2233906
Benzidine	U	J4	3.93	10.5	1.05	02/29/2024 16:19	WG2233906
Benzo(a)anthracene	U		0.209	1.05	1.05	02/29/2024 16:19	WG2233906
Benzo(b)fluoranthene	U		0.136	1.05	1.05	02/29/2024 16:19	WG2233906
Benzo(k)fluoranthene	U		0.126	1.05	1.05	02/29/2024 16:19	WG2233906
Benzo(g,h,i)perylene	U		0.127	1.05	1.05	02/29/2024 16:19	WG2233906
Benzo(a)pyrene	U		0.0400	1.05	1.05	02/29/2024 16:19	WG2233906
Bis(2-chlorethoxy)methane	U		0.122	10.5	1.05	02/29/2024 16:19	WG2233906
Bis(2-chloroethyl)ether	U		0.144	10.5	1.05	02/29/2024 16:19	WG2233906
2,2-Oxybis(1-Chloropropane)	U		0.221	10.5	1.05	02/29/2024 16:19	WG2233906
4-Bromophenyl-phenylether	U		0.0921	10.5	1.05	02/29/2024 16:19	WG2233906
2-Chloronaphthalene	U		0.0680	1.05	1.05	02/29/2024 16:19	WG2233906
4-Chlorophenyl-phenylether	U		0.0972	10.5	1.05	02/29/2024 16:19	WG2233906
Chrysene	U		0.136	1.05	1.05	02/29/2024 16:19	WG2233906
Dibenz(a,h)anthracene	U		0.0676	1.05	1.05	02/29/2024 16:19	WG2233906
3,3-Dichlorobenzidine	U		0.223	10.5	1.05	02/29/2024 16:19	WG2233906
2,4-Dinitrotoluene	U		0.103	10.5	1.05	02/29/2024 16:19	WG2233906
2,6-Dinitrotoluene	U		0.263	10.5	1.05	02/29/2024 16:19	WG2233906
Fluoranthene	U		0.107	1.05	1.05	02/29/2024 16:19	WG2233906
Fluorene	U		0.0886	1.05	1.05	02/29/2024 16:19	WG2233906
Hexachlorobenzene	U		0.0793	1.05	1.05	02/29/2024 16:19	WG2233906
Hexachloro-1,3-butadiene	U		0.102	10.5	1.05	02/29/2024 16:19	WG2233906
Hexachlorocyclopentadiene	U		0.0628	10.5	1.05	02/29/2024 16:19	WG2233906
Hexachloroethane	U		0.133	10.5	1.05	02/29/2024 16:19	WG2233906
Indeno(1,2,3-cd)pyrene	U		0.293	1.05	1.05	02/29/2024 16:19	WG2233906
Isophorone	0.502	J	0.150	10.5	1.05	02/29/2024 16:19	WG2233906
Naphthalene	0.541	J	0.167	1.05	1.05	02/29/2024 16:19	WG2233906
Nitrobenzene	U		0.312	10.5	1.05	02/29/2024 16:19	WG2233906
n-Nitrosodimethylamine	U		1.05	10.5	1.05	02/29/2024 16:19	WG2233906
n-Nitrosodiphenylamine	U		2.49	10.5	1.05	02/29/2024 16:19	WG2233906
n-Nitrosodi-n-propylamine	U		0.274	10.5	1.05	02/29/2024 16:19	WG2233906
Phenanthrene	U		0.118	1.05	1.05	02/29/2024 16:19	WG2233906
Benzylbutyl phthalate	U		0.803	3.15	1.05	02/29/2024 16:19	WG2233906
Bis(2-ethylhexyl)phthalate	U		0.940	3.15	1.05	02/29/2024 16:19	WG2233906

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Di-n-butyl phthalate	U		0.476	3.15	1.05	02/29/2024 16:19	WG2233906
Diethyl phthalate	0.585	J	0.301	3.15	1.05	02/29/2024 16:19	WG2233906
Dimethyl phthalate	U		0.273	3.15	1.05	02/29/2024 16:19	WG2233906
Di-n-octyl phthalate	U		0.979	3.15	1.05	02/29/2024 16:19	WG2233906
Pyrene	U		0.112	1.05	1.05	02/29/2024 16:19	WG2233906
1,2,4-Trichlorobenzene	0.299	J	0.0733	10.5	1.05	02/29/2024 16:19	WG2233906
4-Chloro-3-methylphenol	U		0.138	10.5	1.05	02/29/2024 16:19	WG2233906
2-Chlorophenol	U		0.140	10.5	1.05	02/29/2024 16:19	WG2233906
2,4-Dichlorophenol	U		0.107	10.5	1.05	02/29/2024 16:19	WG2233906
2,4-Dimethylphenol	0.212	J	0.0668	10.5	1.05	02/29/2024 16:19	WG2233906
4,6-Dinitro-2-methylphenol	U		1.18	10.5	1.05	02/29/2024 16:19	WG2233906
2,4-Dinitrophenol	U		6.23	10.5	1.05	02/29/2024 16:19	WG2233906
2-Nitrophenol	U		0.123	10.5	1.05	02/29/2024 16:19	WG2233906
4-Nitrophenol	U		0.150	10.5	1.05	02/29/2024 16:19	WG2233906
Pentachlorophenol	U		0.329	10.5	1.05	02/29/2024 16:19	WG2233906
Phenol	U		4.55	10.5	1.05	02/29/2024 16:19	WG2233906
2,4,6-Trichlorophenol	U		0.105	10.5	1.05	02/29/2024 16:19	WG2233906
(S) 2-Fluorophenol	*32.4*			*10.0-120*		*02/29/2024 16:19*	WG2233906
(S) Phenol-d5	*18.8*			*10.0-120*		*02/29/2024 16:19*	WG2233906
(S) Nitrobenzene-d5	*55.7*			*10.0-127*		*02/29/2024 16:19*	WG2233906
(S) 2-Fluorobiphenyl	*60.6*			*10.0-130*		*02/29/2024 16:19*	WG2233906
(S) 2,4,6-Tribromophenol	*76.2*			*10.0-155*		*02/29/2024 16:19*	WG2233906
(S) p-Terphenyl-d14	*67.0*			*10.0-128*		*02/29/2024 16:19*	WG2233906

Sample Narrative:

L1709696-01 WG2233906: Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3	11.3	50.0	1	03/02/2024 14:43	WG2238249
Acrolein	U	J4	2.54	50.0	1	03/02/2024 14:43	WG2238249
Acrylonitrile	U		0.671	10.0	1	03/02/2024 14:43	WG2238249
Benzene	U		0.0941	1.00	1	03/02/2024 14:43	WG2238249
Bromobenzene	U		0.118	1.00	1	03/02/2024 14:43	WG2238249
Bromodichloromethane	U		0.136	1.00	1	03/02/2024 14:43	WG2238249
Bromoform	U		0.129	1.00	1	03/02/2024 14:43	WG2238249
Bromomethane	U		0.605	5.00	1	03/02/2024 14:43	WG2238249
n-Butylbenzene	U		0.157	1.00	1	03/02/2024 14:43	WG2238249
sec-Butylbenzene	U		0.125	1.00	1	03/02/2024 14:43	WG2238249
tert-Butylbenzene	U	J4	0.127	1.00	1	03/02/2024 14:43	WG2238249
Carbon tetrachloride	U	J4	0.128	1.00	1	03/02/2024 14:43	WG2238249
Chlorobenzene	U		0.116	1.00	1	03/02/2024 14:43	WG2238249
Chlorodibromomethane	U		0.140	1.00	1	03/02/2024 14:43	WG2238249
Chloroethane	U		0.192	5.00	1	03/02/2024 14:43	WG2238249
Chloroform	U		0.111	5.00	1	03/02/2024 14:43	WG2238249
Chloromethane	U		0.960	2.50	1	03/02/2024 14:43	WG2238249
2-Chlorotoluene	U		0.106	1.00	1	03/02/2024 14:43	WG2238249
4-Chlorotoluene	U		0.114	1.00	1	03/02/2024 14:43	WG2238249
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	03/02/2024 14:43	WG2238249
1,2-Dibromoethane	U		0.126	1.00	1	03/02/2024 14:43	WG2238249
Dibromomethane	U		0.122	1.00	1	03/02/2024 14:43	WG2238249
1,2-Dichlorobenzene	U		0.107	1.00	1	03/02/2024 14:43	WG2238249
1,3-Dichlorobenzene	U		0.110	1.00	1	03/02/2024 14:43	WG2238249
1,4-Dichlorobenzene	U		0.120	1.00	1	03/02/2024 14:43	WG2238249
Dichlorodifluoromethane	U		0.374	5.00	1	03/02/2024 14:43	WG2238249
1,1-Dichloroethane	U		0.100	1.00	1	03/02/2024 14:43	WG2238249
1,2-Dichloroethane	U		0.0819	1.00	1	03/02/2024 14:43	WG2238249
1,1-Dichloroethene	U		0.188	1.00	1	03/02/2024 14:43	WG2238249
cis-1,2-Dichloroethene	U		0.126	1.00	1	03/05/2024 23:57	WG2240214
trans-1,2-Dichloroethene	U		0.149	1.00	1	03/02/2024 14:43	WG2238249
1,2-Dichloropropane	U		0.149	1.00	1	03/02/2024 14:43	WG2238249
1,1-Dichloropropene	U		0.142	1.00	1	03/02/2024 14:43	WG2238249
1,3-Dichloropropane	U		0.110	1.00	1	03/02/2024 14:43	WG2238249
cis-1,3-Dichloropropene	U		0.111	1.00	1	03/02/2024 14:43	WG2238249
trans-1,3-Dichloropropene	U		0.118	1.00	1	03/02/2024 14:43	WG2238249
2,2-Dichloropropane	U		0.161	1.00	1	03/02/2024 14:43	WG2238249
Di-isopropyl ether	U		0.105	1.00	1	03/02/2024 14:43	WG2238249
Ethylbenzene	U		0.137	1.00	1	03/02/2024 14:43	WG2238249
Hexachloro-1,3-butadiene	U		0.337	1.00	1	03/02/2024 14:43	WG2238249
Isopropylbenzene	U		0.105	1.00	1	03/02/2024 14:43	WG2238249
p-Isopropyltoluene	U		0.120	1.00	1	03/02/2024 14:43	WG2238249
2-Butanone (MEK)	U		1.19	10.0	1	03/02/2024 14:43	WG2238249
Methylene Chloride	U		0.430	5.00	1	03/02/2024 14:43	WG2238249
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	03/02/2024 14:43	WG2238249
Methyl tert-butyl ether	U		0.101	1.00	1	03/02/2024 14:43	WG2238249
Naphthalene	U		1.00	5.00	1	03/02/2024 14:43	WG2238249
n-Propylbenzene	U		0.0993	1.00	1	03/02/2024 14:43	WG2238249
Styrene	U		0.118	1.00	1	03/02/2024 14:43	WG2238249
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	03/02/2024 14:43	WG2238249
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	03/02/2024 14:43	WG2238249
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	03/02/2024 14:43	WG2238249
Tetrachloroethene	U		0.300	1.00	1	03/02/2024 14:43	WG2238249
Toluene	U		0.278	1.00	1	03/02/2024 14:43	WG2238249
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/02/2024 14:43	WG2238249
1,2,4-Trichlorobenzene	U		0.481	1.00	1	03/02/2024 14:43	WG2238249

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	0.306	J	0.149	1.00	1	03/02/2024 14:43	WG2238249
1,1,2-Trichloroethane	U		0.158	1.00	1	03/02/2024 14:43	WG2238249
Trichloroethene	U		0.190	1.00	1	03/02/2024 14:43	WG2238249
Trichlorofluoromethane	U		0.160	5.00	1	03/02/2024 14:43	WG2238249
1,2,3-Trichloropropane	U		0.237	2.50	1	03/02/2024 14:43	WG2238249
1,2,4-Trimethylbenzene	U		0.322	1.00	1	03/02/2024 14:43	WG2238249
1,2,3-Trimethylbenzene	U		0.104	1.00	1	03/02/2024 14:43	WG2238249
1,3,5-Trimethylbenzene	U	J4	0.104	1.00	1	03/02/2024 14:43	WG2238249
Vinyl chloride	U		0.234	1.00	1	03/05/2024 23:57	WG2240214
Xylenes, Total	U		0.174	3.00	1	03/02/2024 14:43	WG2238249
(S) Toluene-d8	*103*			*80.0-120*		*03/02/2024 14:43*	WG2238249
(S) Toluene-d8	*95.0*			*80.0-120*		*03/05/2024 23:57*	WG2240214
(S) 4-Bromofluorobenzene	*96.6*			*77.0-126*		*03/02/2024 14:43*	WG2238249
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*03/05/2024 23:57*	WG2240214
(S) 1,2-Dichloroethane-d4	*97.1*			*70.0-130*		*03/02/2024 14:43*	WG2238249
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*03/05/2024 23:57*	WG2240214

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0886	1.00	1	02/29/2024 23:48	WG2235509
Acenaphthylene	U		0.0921	1.00	1	02/29/2024 23:48	WG2235509
Anthracene	U		0.0804	1.00	1	02/29/2024 23:48	WG2235509
Benzidine	U	J4	3.74	10.0	1	02/29/2024 23:48	WG2235509
Benzo(a)anthracene	U		0.199	1.00	1	02/29/2024 23:48	WG2235509
Benzo(b)fluoranthene	U		0.130	1.00	1	02/29/2024 23:48	WG2235509
Benzo(k)fluoranthene	U		0.120	1.00	1	02/29/2024 23:48	WG2235509
Benzo(g,h,i)perylene	U		0.121	1.00	1	02/29/2024 23:48	WG2235509
Benzo(a)pyrene	U		0.0381	1.00	1	02/29/2024 23:48	WG2235509
Bis(2-chlorethoxy)methane	U		0.116	10.0	1	02/29/2024 23:48	WG2235509
Bis(2-chloroethyl)ether	U		0.137	10.0	1	02/29/2024 23:48	WG2235509
2,2-Oxybis(1-Chloropropane)	U		0.210	10.0	1	02/29/2024 23:48	WG2235509
4-Bromophenyl-phenylether	U		0.0877	10.0	1	02/29/2024 23:48	WG2235509
2-Chloronaphthalene	U		0.0648	1.00	1	02/29/2024 23:48	WG2235509
4-Chlorophenyl-phenylether	U		0.0926	10.0	1	02/29/2024 23:48	WG2235509
Chrysene	U		0.130	1.00	1	02/29/2024 23:48	WG2235509
Dibenz(a,h)anthracene	U		0.0644	1.00	1	02/29/2024 23:48	WG2235509
3,3-Dichlorobenzidine	U		0.212	10.0	1	02/29/2024 23:48	WG2235509
2,4-Dinitrotoluene	U		0.0983	10.0	1	02/29/2024 23:48	WG2235509
2,6-Dinitrotoluene	U		0.250	10.0	1	02/29/2024 23:48	WG2235509
Fluoranthene	U		0.102	1.00	1	02/29/2024 23:48	WG2235509
Fluorene	U		0.0844	1.00	1	02/29/2024 23:48	WG2235509
Hexachlorobenzene	U		0.0755	1.00	1	02/29/2024 23:48	WG2235509
Hexachloro-1,3-butadiene	U		0.0968	10.0	1	02/29/2024 23:48	WG2235509
Hexachlorocyclopentadiene	U		0.0598	10.0	1	02/29/2024 23:48	WG2235509
Hexachloroethane	U		0.127	10.0	1	02/29/2024 23:48	WG2235509
Indeno(1,2,3-cd)pyrene	U		0.279	1.00	1	02/29/2024 23:48	WG2235509
Isophorone	U		0.143	10.0	1	02/29/2024 23:48	WG2235509
Naphthalene	U		0.159	1.00	1	02/29/2024 23:48	WG2235509
Nitrobenzene	U		0.297	10.0	1	02/29/2024 23:48	WG2235509
n-Nitrosodimethylamine	U		0.998	10.0	1	02/29/2024 23:48	WG2235509
n-Nitrosodiphenylamine	U		2.37	10.0	1	02/29/2024 23:48	WG2235509
n-Nitrosodi-n-propylamine	U		0.261	10.0	1	02/29/2024 23:48	WG2235509
Phenanthrene	U		0.112	1.00	1	02/29/2024 23:48	WG2235509
Benzylbutyl phthalate	U		0.765	3.00	1	02/29/2024 23:48	WG2235509
Bis(2-ethylhexyl)phthalate	U		0.895	3.00	1	02/29/2024 23:48	WG2235509

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Di-n-butyl phthalate	U		0.453	3.00	1	02/29/2024 23:48	WG2235509
Diethyl phthalate	U		0.287	3.00	1	02/29/2024 23:48	WG2235509
Dimethyl phthalate	U		0.260	3.00	1	02/29/2024 23:48	WG2235509
Di-n-octyl phthalate	U		0.932	3.00	1	02/29/2024 23:48	WG2235509
Pyrene	U		0.107	1.00	1	02/29/2024 23:48	WG2235509
1,2,4-Trichlorobenzene	U		0.0698	10.0	1	02/29/2024 23:48	WG2235509
4-Chloro-3-methylphenol	U		0.131	10.0	1	02/29/2024 23:48	WG2235509
2-Chlorophenol	U		0.133	10.0	1	02/29/2024 23:48	WG2235509
2,4-Dichlorophenol	U		0.102	10.0	1	02/29/2024 23:48	WG2235509
2,4-Dimethylphenol	U		0.0636	10.0	1	02/29/2024 23:48	WG2235509
4,6-Dinitro-2-methylphenol	U		1.12	10.0	1	02/29/2024 23:48	WG2235509
2,4-Dinitrophenol	U	C3	5.93	10.0	1	02/29/2024 23:48	WG2235509
2-Nitrophenol	U		0.117	10.0	1	02/29/2024 23:48	WG2235509
4-Nitrophenol	U		0.143	10.0	1	02/29/2024 23:48	WG2235509
Pentachlorophenol	U		0.313	10.0	1	02/29/2024 23:48	WG2235509
Phenol	U		4.33	10.0	1	02/29/2024 23:48	WG2235509
2,4,6-Trichlorophenol	U		0.100	10.0	1	02/29/2024 23:48	WG2235509
(S) 2-Fluorophenol	*21.3*			*10.0-120*		*02/29/2024 23:48*	WG2235509
(S) Phenol-d5	*14.5*			*10.0-120*		*02/29/2024 23:48*	WG2235509
(S) Nitrobenzene-d5	*41.0*			*10.0-127*		*02/29/2024 23:48*	WG2235509
(S) 2-Fluorobiphenyl	*42.4*			*10.0-130*		*02/29/2024 23:48*	WG2235509
(S) 2,4,6-Tribromophenol	*38.6*			*10.0-155*		*02/29/2024 23:48*	WG2235509
(S) p-Terphenyl-d14	*60.6*			*10.0-128*		*02/29/2024 23:48*	WG2235509

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3	11.3	50.0	1	03/02/2024 15:02	WG2238249
Acrolein	U	J4	2.54	50.0	1	03/02/2024 15:02	WG2238249
Acrylonitrile	U		0.671	10.0	1	03/02/2024 15:02	WG2238249
Benzene	1.70		0.0941	1.00	1	03/02/2024 15:02	WG2238249
Bromobenzene	U		0.118	1.00	1	03/02/2024 15:02	WG2238249
Bromodichloromethane	U		0.136	1.00	1	03/02/2024 15:02	WG2238249
Bromoform	U		0.129	1.00	1	03/02/2024 15:02	WG2238249
Bromomethane	U		0.605	5.00	1	03/02/2024 15:02	WG2238249
n-Butylbenzene	0.312	J	0.157	1.00	1	03/02/2024 15:02	WG2238249
sec-Butylbenzene	0.479	J	0.125	1.00	1	03/02/2024 15:02	WG2238249
tert-Butylbenzene	U	J4	0.127	1.00	1	03/02/2024 15:02	WG2238249
Carbon tetrachloride	U	J4	0.128	1.00	1	03/02/2024 15:02	WG2238249
Chlorobenzene	15.6		0.116	1.00	1	03/02/2024 15:02	WG2238249
Chlorodibromomethane	U		0.140	1.00	1	03/02/2024 15:02	WG2238249
Chloroethane	U		0.192	5.00	1	03/02/2024 15:02	WG2238249
Chloroform	U		0.111	5.00	1	03/02/2024 15:02	WG2238249
Chloromethane	U		0.960	2.50	1	03/02/2024 15:02	WG2238249
2-Chlorotoluene	U		0.106	1.00	1	03/02/2024 15:02	WG2238249
4-Chlorotoluene	U		0.114	1.00	1	03/02/2024 15:02	WG2238249
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	03/02/2024 15:02	WG2238249
1,2-Dibromoethane	U		0.126	1.00	1	03/02/2024 15:02	WG2238249
Dibromomethane	U		0.122	1.00	1	03/02/2024 15:02	WG2238249
1,2-Dichlorobenzene	4.23		0.107	1.00	1	03/02/2024 15:02	WG2238249
1,3-Dichlorobenzene	0.679	J	0.110	1.00	1	03/02/2024 15:02	WG2238249
1,4-Dichlorobenzene	4.08		0.120	1.00	1	03/02/2024 15:02	WG2238249
Dichlorodifluoromethane	U		0.374	5.00	1	03/02/2024 15:02	WG2238249
1,1-Dichloroethane	11.4		0.100	1.00	1	03/02/2024 15:02	WG2238249
1,2-Dichloroethane	U		0.0819	1.00	1	03/02/2024 15:02	WG2238249
1,1-Dichloroethene	6.09		0.188	1.00	1	03/02/2024 15:02	WG2238249
cis-1,2-Dichloroethene	13400		31.5	250	250	03/06/2024 04:17	WG2240214
trans-1,2-Dichloroethene	120		0.149	1.00	1	03/02/2024 15:02	WG2238249
1,2-Dichloropropane	U		0.149	1.00	1	03/02/2024 15:02	WG2238249
1,1-Dichloropropene	U		0.142	1.00	1	03/02/2024 15:02	WG2238249
1,3-Dichloropropane	U		0.110	1.00	1	03/02/2024 15:02	WG2238249
cis-1,3-Dichloropropene	U		0.111	1.00	1	03/02/2024 15:02	WG2238249
trans-1,3-Dichloropropene	U		0.118	1.00	1	03/02/2024 15:02	WG2238249
2,2-Dichloropropane	U		0.161	1.00	1	03/02/2024 15:02	WG2238249
Di-isopropyl ether	0.165	J	0.105	1.00	1	03/02/2024 15:02	WG2238249
Ethylbenzene	12.8		0.137	1.00	1	03/02/2024 15:02	WG2238249
Hexachloro-1,3-butadiene	U		0.337	1.00	1	03/02/2024 15:02	WG2238249
Isopropylbenzene	2.04		0.105	1.00	1	03/02/2024 15:02	WG2238249
p-Isopropyltoluene	0.220	J	0.120	1.00	1	03/02/2024 15:02	WG2238249
2-Butanone (MEK)	U		1.19	10.0	1	03/02/2024 15:02	WG2238249
Methylene Chloride	U		0.430	5.00	1	03/02/2024 15:02	WG2238249
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	03/02/2024 15:02	WG2238249
Methyl tert-butyl ether	U		0.101	1.00	1	03/02/2024 15:02	WG2238249
Naphthalene	U		1.00	5.00	1	03/02/2024 15:02	WG2238249
n-Propylbenzene	0.303	J	0.0993	1.00	1	03/02/2024 15:02	WG2238249
Styrene	U		0.118	1.00	1	03/02/2024 15:02	WG2238249
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	03/02/2024 15:02	WG2238249
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	03/02/2024 15:02	WG2238249
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	03/02/2024 15:02	WG2238249
Tetrachloroethene	21.5		0.300	1.00	1	03/02/2024 15:02	WG2238249
Toluene	36.8		0.278	1.00	1	03/02/2024 15:02	WG2238249
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/02/2024 15:02	WG2238249
1,2,4-Trichlorobenzene	0.604	J	0.481	1.00	1	03/02/2024 15:02	WG2238249

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.149	1.00	1	03/02/2024 15:02	WG2238249
1,1,2-Trichloroethane	U		0.158	1.00	1	03/02/2024 15:02	WG2238249
Trichloroethene	32.5		0.190	1.00	1	03/02/2024 15:02	WG2238249
Trichlorofluoromethane	U		0.160	5.00	1	03/02/2024 15:02	WG2238249
1,2,3-Trichloropropane	U		0.237	2.50	1	03/02/2024 15:02	WG2238249
1,2,4-Trimethylbenzene	1.69		0.322	1.00	1	03/02/2024 15:02	WG2238249
1,2,3-Trimethylbenzene	4.81		0.104	1.00	1	03/02/2024 15:02	WG2238249
1,3,5-Trimethylbenzene	1.59	C5 J4	0.104	1.00	1	03/02/2024 15:02	WG2238249
Vinyl chloride	2940		58.5	250	250	03/06/2024 04:17	WG2240214
Xylenes, Total	65.0		0.174	3.00	1	03/02/2024 15:02	WG2238249
(S) Toluene-d8	*99.4*			*80.0-120*		*03/02/2024 15:02*	WG2238249
(S) Toluene-d8	*103*			*80.0-120*		*03/06/2024 04:17*	WG2240214
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*03/02/2024 15:02*	WG2238249
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*03/06/2024 04:17*	WG2240214
(S) 1,2-Dichloroethane-d4	*96.1*			*70.0-130*		*03/02/2024 15:02*	WG2238249
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*03/06/2024 04:17*	WG2240214

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.0886	1.00	1	03/01/2024 02:15	WG2235509
Acenaphthylene	U		0.0921	1.00	1	03/01/2024 02:15	WG2235509
Anthracene	U		0.0804	1.00	1	03/01/2024 02:15	WG2235509
Benzidine	U	J4	3.74	10.0	1	03/01/2024 02:15	WG2235509
Benzo(a)anthracene	U		0.199	1.00	1	03/01/2024 02:15	WG2235509
Benzo(b)fluoranthene	U		0.130	1.00	1	03/01/2024 02:15	WG2235509
Benzo(k)fluoranthene	U		0.120	1.00	1	03/01/2024 02:15	WG2235509
Benzo(g,h,i)perylene	U		0.121	1.00	1	03/01/2024 02:15	WG2235509
Benzo(a)pyrene	U		0.0381	1.00	1	03/01/2024 02:15	WG2235509
Bis(2-chlorethoxy)methane	U		0.116	10.0	1	03/01/2024 02:15	WG2235509
Bis(2-chloroethyl)ether	U		0.137	10.0	1	03/01/2024 02:15	WG2235509
2,2-Oxybis(1-Chloropropane)	U		0.210	10.0	1	03/01/2024 02:15	WG2235509
4-Bromophenyl-phenylether	U		0.0877	10.0	1	03/01/2024 02:15	WG2235509
2-Chloronaphthalene	U		0.0648	1.00	1	03/01/2024 02:15	WG2235509
4-Chlorophenyl-phenylether	U		0.0926	10.0	1	03/01/2024 02:15	WG2235509
Chrysene	U		0.130	1.00	1	03/01/2024 02:15	WG2235509
Dibenz(a,h)anthracene	U		0.0644	1.00	1	03/01/2024 02:15	WG2235509
3,3-Dichlorobenzidine	U		0.212	10.0	1	03/01/2024 02:15	WG2235509
2,4-Dinitrotoluene	U		0.0983	10.0	1	03/01/2024 02:15	WG2235509
2,6-Dinitrotoluene	U		0.250	10.0	1	03/01/2024 02:15	WG2235509
Fluoranthene	U		0.102	1.00	1	03/01/2024 02:15	WG2235509
Fluorene	U		0.0844	1.00	1	03/01/2024 02:15	WG2235509
Hexachlorobenzene	U		0.0755	1.00	1	03/01/2024 02:15	WG2235509
Hexachloro-1,3-butadiene	U		0.0968	10.0	1	03/01/2024 02:15	WG2235509
Hexachlorocyclopentadiene	U		0.0598	10.0	1	03/01/2024 02:15	WG2235509
Hexachloroethane	U		0.127	10.0	1	03/01/2024 02:15	WG2235509
Indeno(1,2,3-cd)pyrene	U		0.279	1.00	1	03/01/2024 02:15	WG2235509
Isophorone	0.422	J	0.143	10.0	1	03/01/2024 02:15	WG2235509
Naphthalene	0.424	J	0.159	1.00	1	03/01/2024 02:15	WG2235509
Nitrobenzene	U		0.297	10.0	1	03/01/2024 02:15	WG2235509
n-Nitrosodimethylamine	U		0.998	10.0	1	03/01/2024 02:15	WG2235509
n-Nitrosodiphenylamine	U		2.37	10.0	1	03/01/2024 02:15	WG2235509
n-Nitrosodi-n-propylamine	U		0.261	10.0	1	03/01/2024 02:15	WG2235509
Phenanthrene	U		0.112	1.00	1	03/01/2024 02:15	WG2235509
Benzylbutyl phthalate	U		0.765	3.00	1	03/01/2024 02:15	WG2235509
Bis(2-ethylhexyl)phthalate	U		0.895	3.00	1	03/01/2024 02:15	WG2235509

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Di-n-butyl phthalate	U		0.453	3.00	1	03/01/2024 02:15	WG2235509
Diethyl phthalate	0.654	J	0.287	3.00	1	03/01/2024 02:15	WG2235509
Dimethyl phthalate	U		0.260	3.00	1	03/01/2024 02:15	WG2235509
Di-n-octyl phthalate	U		0.932	3.00	1	03/01/2024 02:15	WG2235509
Pyrene	U		0.107	1.00	1	03/01/2024 02:15	WG2235509
1,2,4-Trichlorobenzene	U		0.0698	10.0	1	03/01/2024 02:15	WG2235509
4-Chloro-3-methylphenol	U		0.131	10.0	1	03/01/2024 02:15	WG2235509
2-Chlorophenol	U		0.133	10.0	1	03/01/2024 02:15	WG2235509
2,4-Dichlorophenol	U		0.102	10.0	1	03/01/2024 02:15	WG2235509
2,4-Dimethylphenol	U		0.0636	10.0	1	03/01/2024 02:15	WG2235509
4,6-Dinitro-2-methylphenol	U		1.12	10.0	1	03/01/2024 02:15	WG2235509
2,4-Dinitrophenol	U	C3	5.93	10.0	1	03/01/2024 02:15	WG2235509
2-Nitrophenol	U		0.117	10.0	1	03/01/2024 02:15	WG2235509
4-Nitrophenol	U		0.143	10.0	1	03/01/2024 02:15	WG2235509
Pentachlorophenol	U		0.313	10.0	1	03/01/2024 02:15	WG2235509
Phenol	U		4.33	10.0	1	03/01/2024 02:15	WG2235509
2,4,6-Trichlorophenol	U		0.100	10.0	1	03/01/2024 02:15	WG2235509
(S) 2-Fluorophenol	*29.5*			*10.0-120*		*03/01/2024 02:15*	WG2235509
(S) Phenol-d5	*22.0*			*10.0-120*		*03/01/2024 02:15*	WG2235509
(S) Nitrobenzene-d5	*51.3*			*10.0-127*		*03/01/2024 02:15*	WG2235509
(S) 2-Fluorobiphenyl	*50.5*			*10.0-130*		*03/01/2024 02:15*	WG2235509
(S) 2,4,6-Tribromophenol	*63.0*			*10.0-155*		*03/01/2024 02:15*	WG2235509
(S) p-Terphenyl-d14	*73.6*			*10.0-128*		*03/01/2024 02:15*	WG2235509

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	C3	11.3	50.0	1	03/02/2024 13:09	WG2238249
Acrolein	U	J4	2.54	50.0	1	03/02/2024 13:09	WG2238249
Acrylonitrile	U		0.671	10.0	1	03/02/2024 13:09	WG2238249
Benzene	U		0.0941	1.00	1	03/02/2024 13:09	WG2238249
Bromobenzene	U		0.118	1.00	1	03/02/2024 13:09	WG2238249
Bromodichloromethane	U		0.136	1.00	1	03/02/2024 13:09	WG2238249
Bromoform	U		0.129	1.00	1	03/02/2024 13:09	WG2238249
Bromomethane	U		0.605	5.00	1	03/02/2024 13:09	WG2238249
n-Butylbenzene	U		0.157	1.00	1	03/02/2024 13:09	WG2238249
sec-Butylbenzene	U		0.125	1.00	1	03/02/2024 13:09	WG2238249
tert-Butylbenzene	U	J4	0.127	1.00	1	03/02/2024 13:09	WG2238249
Carbon tetrachloride	U	J4	0.128	1.00	1	03/02/2024 13:09	WG2238249
Chlorobenzene	U		0.116	1.00	1	03/02/2024 13:09	WG2238249
Chlorodibromomethane	U		0.140	1.00	1	03/02/2024 13:09	WG2238249
Chloroethane	U		0.192	5.00	1	03/02/2024 13:09	WG2238249
Chloroform	0.202	J	0.111	5.00	1	03/02/2024 13:09	WG2238249
Chloromethane	U		0.960	2.50	1	03/02/2024 13:09	WG2238249
2-Chlorotoluene	U		0.106	1.00	1	03/02/2024 13:09	WG2238249
4-Chlorotoluene	U		0.114	1.00	1	03/02/2024 13:09	WG2238249
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	03/02/2024 13:09	WG2238249
1,2-Dibromoethane	U		0.126	1.00	1	03/02/2024 13:09	WG2238249
Dibromomethane	U		0.122	1.00	1	03/02/2024 13:09	WG2238249
1,2-Dichlorobenzene	U		0.107	1.00	1	03/02/2024 13:09	WG2238249
1,3-Dichlorobenzene	U		0.110	1.00	1	03/02/2024 13:09	WG2238249
1,4-Dichlorobenzene	U		0.120	1.00	1	03/02/2024 13:09	WG2238249
Dichlorodifluoromethane	U		0.374	5.00	1	03/02/2024 13:09	WG2238249
1,1-Dichloroethane	U		0.100	1.00	1	03/02/2024 13:09	WG2238249
1,2-Dichloroethane	U		0.0819	1.00	1	03/02/2024 13:09	WG2238249
1,1-Dichloroethene	U		0.188	1.00	1	03/02/2024 13:09	WG2238249
cis-1,2-Dichloroethene	U		0.126	1.00	1	03/02/2024 13:09	WG2238249
trans-1,2-Dichloroethene	U		0.149	1.00	1	03/02/2024 13:09	WG2238249
1,2-Dichloropropane	U		0.149	1.00	1	03/02/2024 13:09	WG2238249
1,1-Dichloropropene	U		0.142	1.00	1	03/02/2024 13:09	WG2238249
1,3-Dichloropropane	U		0.110	1.00	1	03/02/2024 13:09	WG2238249
cis-1,3-Dichloropropene	U		0.111	1.00	1	03/02/2024 13:09	WG2238249
trans-1,3-Dichloropropene	U		0.118	1.00	1	03/02/2024 13:09	WG2238249
2,2-Dichloropropane	U		0.161	1.00	1	03/02/2024 13:09	WG2238249
Di-isopropyl ether	U		0.105	1.00	1	03/02/2024 13:09	WG2238249
Ethylbenzene	U		0.137	1.00	1	03/02/2024 13:09	WG2238249
Hexachloro-1,3-butadiene	U		0.337	1.00	1	03/02/2024 13:09	WG2238249
Isopropylbenzene	U		0.105	1.00	1	03/02/2024 13:09	WG2238249
p-Isopropyltoluene	U		0.120	1.00	1	03/02/2024 13:09	WG2238249
2-Butanone (MEK)	U		1.19	10.0	1	03/02/2024 13:09	WG2238249
Methylene Chloride	0.928	J	0.430	5.00	1	03/02/2024 13:09	WG2238249
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	03/02/2024 13:09	WG2238249
Methyl tert-butyl ether	U		0.101	1.00	1	03/02/2024 13:09	WG2238249
Naphthalene	U		1.00	5.00	1	03/02/2024 13:09	WG2238249
n-Propylbenzene	U		0.0993	1.00	1	03/02/2024 13:09	WG2238249
Styrene	U		0.118	1.00	1	03/02/2024 13:09	WG2238249
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	03/02/2024 13:09	WG2238249
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	03/02/2024 13:09	WG2238249
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	03/02/2024 13:09	WG2238249
Tetrachloroethene	U		0.300	1.00	1	03/02/2024 13:09	WG2238249
Toluene	U		0.278	1.00	1	03/02/2024 13:09	WG2238249
1,2,3-Trichlorobenzene	U		0.230	1.00	1	03/02/2024 13:09	WG2238249
1,2,4-Trichlorobenzene	U		0.481	1.00	1	03/02/2024 13:09	WG2238249

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
1,1,1-Trichloroethane	U		0.149	1.00	1	03/02/2024 13:09	WG2238249
1,1,2-Trichloroethane	U		0.158	1.00	1	03/02/2024 13:09	WG2238249
Trichloroethene	U		0.190	1.00	1	03/02/2024 13:09	WG2238249
Trichlorofluoromethane	U		0.160	5.00	1	03/02/2024 13:09	WG2238249
1,2,3-Trichloropropane	U		0.237	2.50	1	03/02/2024 13:09	WG2238249
1,2,4-Trimethylbenzene	U		0.322	1.00	1	03/02/2024 13:09	WG2238249
1,2,3-Trimethylbenzene	U		0.104	1.00	1	03/02/2024 13:09	WG2238249
1,3,5-Trimethylbenzene	U	J4	0.104	1.00	1	03/02/2024 13:09	WG2238249
Vinyl chloride	U		0.234	1.00	1	03/02/2024 13:09	WG2238249
Xylenes, Total	U		0.174	3.00	1	03/02/2024 13:09	WG2238249
(S) Toluene-d8	*100*			*80.0-120*		*03/02/2024 13:09*	WG2238249
(S) 4-Bromofluorobenzene	*100*			*77.0-126*		*03/02/2024 13:09*	WG2238249
(S) 1,2-Dichloroethane-d4	*99.7*			*70.0-130*		*03/02/2024 13:09*	WG2238249

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acenaphthene	U		0.0886	1.00	1	03/01/2024 00:09	WG2235509
Acenaphthylene	U		0.0921	1.00	1	03/01/2024 00:09	WG2235509
Anthracene	U		0.0804	1.00	1	03/01/2024 00:09	WG2235509
Benzidine	U	J4	3.74	10.0	1	03/01/2024 00:09	WG2235509
Benzo(a)anthracene	U		0.199	1.00	1	03/01/2024 00:09	WG2235509
Benzo(b)fluoranthene	U		0.130	1.00	1	03/01/2024 00:09	WG2235509
Benzo(k)fluoranthene	U		0.120	1.00	1	03/01/2024 00:09	WG2235509
Benzo(g,h,i)perylene	U		0.121	1.00	1	03/01/2024 00:09	WG2235509
Benzo(a)pyrene	U		0.0381	1.00	1	03/01/2024 00:09	WG2235509
Bis(2-chlorethoxy)methane	U		0.116	10.0	1	03/01/2024 00:09	WG2235509
Bis(2-chloroethyl)ether	U		0.137	10.0	1	03/01/2024 00:09	WG2235509
2,2-Oxybis(1-Chloropropane)	U		0.210	10.0	1	03/01/2024 00:09	WG2235509
4-Bromophenyl-phenylether	U		0.0877	10.0	1	03/01/2024 00:09	WG2235509
2-Chloronaphthalene	U		0.0648	1.00	1	03/01/2024 00:09	WG2235509
4-Chlorophenyl-phenylether	U		0.0926	10.0	1	03/01/2024 00:09	WG2235509
Chrysene	U		0.130	1.00	1	03/01/2024 00:09	WG2235509
Dibenz(a,h)anthracene	U		0.0644	1.00	1	03/01/2024 00:09	WG2235509
3,3-Dichlorobenzidine	U		0.212	10.0	1	03/01/2024 00:09	WG2235509
2,4-Dinitrotoluene	U		0.0983	10.0	1	03/01/2024 00:09	WG2235509
2,6-Dinitrotoluene	U		0.250	10.0	1	03/01/2024 00:09	WG2235509
Fluoranthene	U		0.102	1.00	1	03/01/2024 00:09	WG2235509
Fluorene	U		0.0844	1.00	1	03/01/2024 00:09	WG2235509
Hexachlorobenzene	U		0.0755	1.00	1	03/01/2024 00:09	WG2235509
Hexachloro-1,3-butadiene	U		0.0968	10.0	1	03/01/2024 00:09	WG2235509
Hexachlorocyclopentadiene	U		0.0598	10.0	1	03/01/2024 00:09	WG2235509
Hexachloroethane	U		0.127	10.0	1	03/01/2024 00:09	WG2235509
Indeno(1,2,3-cd)pyrene	U		0.279	1.00	1	03/01/2024 00:09	WG2235509
Isophorone	U		0.143	10.0	1	03/01/2024 00:09	WG2235509
Naphthalene	U		0.159	1.00	1	03/01/2024 00:09	WG2235509
Nitrobenzene	U		0.297	10.0	1	03/01/2024 00:09	WG2235509
n-Nitrosodimethylamine	U		0.998	10.0	1	03/01/2024 00:09	WG2235509
n-Nitrosodiphenylamine	U		2.37	10.0	1	03/01/2024 00:09	WG2235509
n-Nitrosodi-n-propylamine	U		0.261	10.0	1	03/01/2024 00:09	WG2235509
Phenanthrene	U		0.112	1.00	1	03/01/2024 00:09	WG2235509
Benzylbutyl phthalate	U		0.765	3.00	1	03/01/2024 00:09	WG2235509
Bis(2-ethylhexyl)phthalate	U		0.895	3.00	1	03/01/2024 00:09	WG2235509
Di-n-butyl phthalate	U		0.453	3.00	1	03/01/2024 00:09	WG2235509
Diethyl phthalate	U		0.287	3.00	1	03/01/2024 00:09	WG2235509
Dimethyl phthalate	U		0.260	3.00	1	03/01/2024 00:09	WG2235509

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Di-n-octyl phthalate	U		0.932	3.00	1	03/01/2024 00:09	WG2235509
Pyrene	U		0.107	1.00	1	03/01/2024 00:09	WG2235509
1,2,4-Trichlorobenzene	U		0.0698	10.0	1	03/01/2024 00:09	WG2235509
4-Chloro-3-methylphenol	U		0.131	10.0	1	03/01/2024 00:09	WG2235509
2-Chlorophenol	U		0.133	10.0	1	03/01/2024 00:09	WG2235509
2,4-Dichlorophenol	U		0.102	10.0	1	03/01/2024 00:09	WG2235509
2,4-Dimethylphenol	U		0.0636	10.0	1	03/01/2024 00:09	WG2235509
4,6-Dinitro-2-methylphenol	U		1.12	10.0	1	03/01/2024 00:09	WG2235509
2,4-Dinitrophenol	U	C3	5.93	10.0	1	03/01/2024 00:09	WG2235509
2-Nitrophenol	U		0.117	10.0	1	03/01/2024 00:09	WG2235509
4-Nitrophenol	U		0.143	10.0	1	03/01/2024 00:09	WG2235509
Pentachlorophenol	U		0.313	10.0	1	03/01/2024 00:09	WG2235509
Phenol	U		4.33	10.0	1	03/01/2024 00:09	WG2235509
2,4,6-Trichlorophenol	U		0.100	10.0	1	03/01/2024 00:09	WG2235509
(S) 2-Fluorophenol	*30.9*			*10.0-120*		*03/01/2024 00:09*	WG2235509
(S) Phenol-d5	*19.6*			*10.0-120*		*03/01/2024 00:09*	WG2235509
(S) Nitrobenzene-d5	*48.1*			*10.0-127*		*03/01/2024 00:09*	WG2235509
(S) 2-Fluorobiphenyl	*55.1*			*10.0-130*		*03/01/2024 00:09*	WG2235509
(S) 2,4,6-Tribromophenol	*52.0*			*10.0-155*		*03/01/2024 00:09*	WG2235509
(S) p-Terphenyl-d14	*70.0*			*10.0-128*		*03/01/2024 00:09*	WG2235509

Method Blank (MB)

(MB) R4041813-2 03/02/24 10:19

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) R4041813-2 03/02/24 10:19

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
1,1,2-Trichlorotrifluoroethane	U		0.180	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
1,2,3-Trimethylbenzene	U		0.104	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	*103*			*80.0-120*
(S) 4-Bromofluorobenzene	*98.0*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*95.8*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R4041813-1 03/02/24 09:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	17.0	68.0	19.0-160	
Acrolein	25.0	42.1	168	10.0-160	J4
Acrylonitrile	25.0	23.5	94.0	55.0-149	
Benzene	5.00	5.56	111	70.0-123	

Laboratory Control Sample (LCS)

(LCS) R4041813-1 03/02/24 09:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromobenzene	5.00	5.39	108	73.0-121	
Bromodichloromethane	5.00	5.36	107	75.0-120	
Bromoform	5.00	5.48	110	68.0-132	
Bromomethane	5.00	5.57	111	10.0-160	
n-Butylbenzene	5.00	5.93	119	73.0-125	
sec-Butylbenzene	5.00	6.23	125	75.0-125	
tert-Butylbenzene	5.00	6.33	127	76.0-124	J4
Carbon tetrachloride	5.00	6.39	128	68.0-126	J4
Chlorobenzene	5.00	5.63	113	80.0-121	
Chlorodibromomethane	5.00	5.58	112	77.0-125	
Chloroethane	5.00	5.78	116	47.0-150	
Chloroform	5.00	5.06	101	73.0-120	
Chloromethane	5.00	5.40	108	41.0-142	
2-Chlorotoluene	5.00	5.66	113	76.0-123	
4-Chlorotoluene	5.00	5.81	116	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.70	94.0	58.0-134	
1,2-Dibromoethane	5.00	5.54	111	80.0-122	
Dibromomethane	5.00	5.33	107	80.0-120	
1,2-Dichlorobenzene	5.00	5.80	116	79.0-121	
1,3-Dichlorobenzene	5.00	5.89	118	79.0-120	
1,4-Dichlorobenzene	5.00	5.85	117	79.0-120	
Dichlorodifluoromethane	5.00	5.86	117	51.0-149	
1,1-Dichloroethane	5.00	5.76	115	70.0-126	
1,2-Dichloroethane	5.00	5.45	109	70.0-128	
1,1-Dichloroethene	5.00	5.34	107	71.0-124	
cis-1,2-Dichloroethene	5.00	5.50	110	73.0-120	
trans-1,2-Dichloroethene	5.00	5.72	114	73.0-120	
1,2-Dichloropropane	5.00	5.56	111	77.0-125	
1,1-Dichloropropene	5.00	5.89	118	74.0-126	
1,3-Dichloropropane	5.00	5.51	110	80.0-120	
cis-1,3-Dichloropropene	5.00	5.31	106	80.0-123	
trans-1,3-Dichloropropene	5.00	5.52	110	78.0-124	
2,2-Dichloropropane	5.00	5.94	119	58.0-130	
Di-isopropyl ether	5.00	4.94	98.8	58.0-138	
Ethylbenzene	5.00	5.66	113	79.0-123	
Hexachloro-1,3-butadiene	5.00	5.04	101	54.0-138	
Isopropylbenzene	5.00	5.87	117	76.0-127	
p-Isopropyltoluene	5.00	6.20	124	76.0-125	
2-Butanone (MEK)	25.0	24.4	97.6	44.0-160	
Methylene Chloride	5.00	5.23	105	67.0-120	

Laboratory Control Sample (LCS)

(LCS) R4041813-1 03/02/24 09:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Methyl-2-pentanone (MIBK)	25.0	26.3	105	68.0-142	
Methyl tert-butyl ether	5.00	4.97	99.4	68.0-125	
Naphthalene	5.00	4.24	84.8	54.0-135	
n-Propylbenzene	5.00	5.93	119	77.0-124	
Styrene	5.00	5.52	110	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	5.51	110	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	5.75	115	65.0-130	
1,1,2-Trichlorotrifluoroethane	5.00	6.25	125	69.0-132	
Tetrachloroethene	5.00	5.99	120	72.0-132	
Toluene	5.00	5.22	104	79.0-120	
1,2,3-Trichlorobenzene	5.00	4.04	80.8	50.0-138	
1,2,4-Trichlorobenzene	5.00	4.02	80.4	57.0-137	
1,1,1-Trichloroethane	5.00	5.99	120	73.0-124	
1,1,2-Trichloroethane	5.00	5.47	109	80.0-120	
Trichloroethene	5.00	5.48	110	78.0-124	
Trichlorofluoromethane	5.00	6.17	123	59.0-147	
1,2,3-Trichloropropane	5.00	6.00	120	73.0-130	
1,2,4-Trimethylbenzene	5.00	5.69	114	76.0-121	
1,2,3-Trimethylbenzene	5.00	5.71	114	77.0-120	
1,3,5-Trimethylbenzene	5.00	6.13	123	76.0-122	J4
Vinyl chloride	5.00	6.18	124	67.0-131	
Xylenes, Total	15.0	17.1	114	79.0-123	
(S) Toluene-d8			*100*	*80.0-120*	
(S) 4-Bromofluorobenzene			*99.9*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*98.3*	*70.0-130*	

Method Blank (MB)

(MB) R4042124-3 03/05/24 22:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
cis-1,2-Dichloroethene	U		0.126	1.00
Vinyl chloride	U		0.234	1.00
(S) Toluene-d8	*103*			*80.0-120*
(S) 4-Bromofluorobenzene	*99.1*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*99.3*			*70.0-130*

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

(LCS) R4042124-1 03/05/24 21:10 • (LCSD) R4042124-2 03/05/24 21:34

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
cis-1,2-Dichloroethene	5.00	4.90	4.97	98.0	99.4	73.0-120			1.42	20
Vinyl chloride	5.00	5.51	5.52	110	110	67.0-131			0.181	20
(S) Toluene-d8				*98.1*	*98.1*	*80.0-120*				
(S) 4-Bromofluorobenzene				*104*	*102*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*101*	*99.1*	*70.0-130*				

Method Blank (MB)

(MB) R4040438-2 02/29/24 09:58

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acenaphthene	U		0.0886	1.00
Acenaphthylene	U		0.0921	1.00
Anthracene	U		0.0804	1.00
Benzidine	U		3.74	10.0
Benzo(a)anthracene	U		0.199	1.00
Benzo(b)fluoranthene	U		0.130	1.00
Benzo(k)fluoranthene	U		0.120	1.00
Benzo(g,h,i)perylene	U		0.121	1.00
Benzo(a)pyrene	U		0.0381	1.00
Bis(2-chlorethoxy)methane	U		0.116	10.0
Bis(2-chloroethyl)ether	U		0.137	10.0
2,2-Oxybis(1-Chloropropane)	U		0.210	10.0
4-Bromophenyl-phenylether	U		0.0877	10.0
2-Chloronaphthalene	U		0.0648	1.00
4-Chlorophenyl-phenylether	U		0.0926	10.0
Chrysene	U		0.130	1.00
Dibenz(a,h)anthracene	U		0.0644	1.00
3,3-Dichlorobenzidine	U		0.212	10.0
2,4-Dinitrotoluene	U		0.0983	10.0
2,6-Dinitrotoluene	U		0.250	10.0
Fluoranthene	U		0.102	1.00
Fluorene	U		0.0844	1.00
Hexachlorobenzene	U		0.0755	1.00
Hexachloro-1,3-butadiene	U		0.0968	10.0
Hexachlorocyclopentadiene	U		0.0598	10.0
Hexachloroethane	U		0.127	10.0
Indeno(1,2,3-cd)pyrene	U		0.279	1.00
Isophorone	U		0.143	10.0
Naphthalene	U		0.159	1.00
Nitrobenzene	U		0.297	10.0
n-Nitrosodimethylamine	U		0.998	10.0
n-Nitrosodiphenylamine	U		2.37	10.0
n-Nitrosodi-n-propylamine	U		0.261	10.0
Phenanthrene	U		0.112	1.00
Benzylbutyl phthalate	U		0.765	3.00
Bis(2-ethylhexyl)phthalate	U		0.895	3.00
Di-n-butyl phthalate	U		0.453	3.00
Diethyl phthalate	U		0.287	3.00
Dimethyl phthalate	U		0.260	3.00
Di-n-octyl phthalate	U		0.932	3.00

Method Blank (MB)

(MB) R4040438-2 02/29/24 09:58

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Pyrene	U		0.107	1.00
1,2,4-Trichlorobenzene	U		0.0698	10.0
4-Chloro-3-methylphenol	U		0.131	10.0
2-Chlorophenol	U		0.133	10.0
2,4-Dichlorophenol	U		0.102	10.0
2,4-Dimethylphenol	U		0.0636	10.0
4,6-Dinitro-2-methylphenol	U		1.12	10.0
2,4-Dinitrophenol	U		5.93	10.0
2-Nitrophenol	U		0.117	10.0
4-Nitrophenol	U		0.143	10.0
Pentachlorophenol	U		0.313	10.0
Phenol	U		4.33	10.0
2,4,6-Trichlorophenol	U		0.100	10.0
(S) 2-Fluorophenol	*36.4*			*10.0-120*
(S) Phenol-d5	*19.3*			*10.0-120*
(S) Nitrobenzene-d5	*61.6*			*10.0-127*
(S) 2-Fluorobiphenyl	*68.5*			*10.0-130*
(S) 2,4,6-Tribromophenol	*76.0*			*10.0-155*
(S) p-Terphenyl-d14	*72.9*			*10.0-128*

Laboratory Control Sample (LCS)

(LCS) R4040438-1 02/29/24 09:37

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	50.0	25.9	51.8	41.0-120	
Acenaphthylene	50.0	27.9	55.8	43.0-120	
Anthracene	50.0	31.3	62.6	45.0-120	
Benzidine	100	0.000	0.000	10.0-120	J4
Benzo(a)anthracene	50.0	31.5	63.0	47.0-120	
Benzo(b)fluoranthene	50.0	31.5	63.0	46.0-120	
Benzo(k)fluoranthene	50.0	31.7	63.4	46.0-120	
Benzo(g,h,i)perylene	50.0	29.9	59.8	48.0-121	
Benzo(a)pyrene	50.0	33.0	66.0	47.0-120	
Bis(2-chlorethoxy)methane	50.0	24.2	48.4	33.0-120	
Bis(2-chloroethyl)ether	50.0	26.1	52.2	23.0-120	
2,2-Oxybis(1-Chloropropane)	50.0	23.3	46.6	28.0-120	
4-Bromophenyl-phenylether	50.0	32.4	64.8	45.0-120	
2-Chloronaphthalene	50.0	25.8	51.6	37.0-120	

Laboratory Control Sample (LCS)

(LCS) R4040438-1 02/29/24 09:37

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Chlorophenyl-phenylether	50.0	28.5	57.0	44.0-120	
Chrysene	50.0	30.4	60.8	48.0-120	
Dibenz(a,h)anthracene	50.0	31.1	62.2	47.0-120	
3,3-Dichlorobenzidine	100	66.4	66.4	44.0-120	
2,4-Dinitrotoluene	50.0	37.3	74.6	49.0-124	
2,6-Dinitrotoluene	50.0	34.1	68.2	46.0-120	
Fluoranthene	50.0	32.6	65.2	51.0-120	
Fluorene	50.0	27.8	55.6	47.0-120	
Hexachlorobenzene	50.0	32.7	65.4	44.0-120	
Hexachloro-1,3-butadiene	50.0	22.8	45.6	19.0-120	
Hexachlorocyclopentadiene	50.0	16.4	32.8	15.0-120	
Hexachloroethane	50.0	24.5	49.0	15.0-120	
Indeno(1,2,3-cd)pyrene	50.0	32.9	65.8	49.0-122	
Isophorone	50.0	22.9	45.8	36.0-120	
Naphthalene	50.0	23.5	47.0	27.0-120	
Nitrobenzene	50.0	23.0	46.0	27.0-120	
n-Nitrosodimethylamine	50.0	13.2	26.4	10.0-120	
n-Nitrosodiphenylamine	50.0	31.6	63.2	47.0-120	
n-Nitrosodi-n-propylamine	50.0	22.5	45.0	31.0-120	
Phenanthrene	50.0	30.0	60.0	46.0-120	
Benzylbutyl phthalate	50.0	33.6	67.2	43.0-121	
Bis(2-ethylhexyl)phthalate	50.0	33.9	67.8	43.0-122	
Di-n-butyl phthalate	50.0	33.7	67.4	49.0-121	
Diethyl phthalate	50.0	30.8	61.6	48.0-122	
Dimethyl phthalate	50.0	32.7	65.4	48.0-120	
Di-n-octyl phthalate	50.0	31.7	63.4	42.0-125	
Pyrene	50.0	31.0	62.0	47.0-120	
1,2,4-Trichlorobenzene	50.0	24.5	49.0	24.0-120	
4-Chloro-3-methylphenol	50.0	22.9	45.8	40.0-120	
2-Chlorophenol	50.0	21.9	43.8	25.0-120	
2,4-Dichlorophenol	50.0	26.1	52.2	36.0-120	
2,4-Dimethylphenol	50.0	22.0	44.0	33.0-120	
4,6-Dinitro-2-methylphenol	50.0	46.1	92.2	38.0-138	
2,4-Dinitrophenol	50.0	41.1	82.2	10.0-120	
2-Nitrophenol	50.0	28.7	57.4	31.0-120	
4-Nitrophenol	50.0	7.84	15.7	10.0-120	
Pentachlorophenol	50.0	28.0	56.0	23.0-120	
Phenol	50.0	8.95	17.9	10.0-120	
2,4,6-Trichlorophenol	50.0	29.1	58.2	42.0-120	
(S) 2-Fluorophenol			*27.6*	*10.0-120*	

Laboratory Control Sample (LCS)

(LCS) R4040438-1 02/29/24 09:37

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) Phenol-d5			*17.1*	*10.0-120*	
(S) Nitrobenzene-d5			*40.5*	*10.0-127*	
(S) 2-Fluorobiphenyl			*50.3*	*10.0-130*	
(S) 2,4,6-Tribromophenol			*71.0*	*10.0-155*	
(S) p-Terphenyl-d14			*63.1*	*10.0-128*	

L1708982-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1708982-07 02/29/24 16:40 • (MS) R4040438-3 02/29/24 17:01 • (MSD) R4040438-4 02/29/24 17:23

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 %
Acenaphthene	50.0	U	34.2	24.9	68.4	49.8	1	28.0-120		J3	31.5	25
Acenaphthylene	50.0	U	37.4	26.9	74.8	53.8	1	31.0-121		J3	32.7	25
Anthracene	50.0	U	36.5	27.1	73.0	54.2	1	36.0-120		J3	29.6	23
Benzidine	100	U	10.1	4.09	10.1	4.09	1	10.0-120		J3 J6	84.7	37
Benzo(a)anthracene	50.0	U	32.9	29.5	65.8	59.0	1	39.0-120			10.9	23
Benzo(b)fluoranthene	50.0	U	32.0	29.9	64.0	59.8	1	37.0-120			6.79	23
Benzo(k)fluoranthene	50.0	U	31.9	29.9	63.8	59.8	1	37.0-120			6.47	26
Benzo(g,h,i)perylene	50.0	U	29.1	27.5	58.2	55.0	1	37.0-123			5.65	25
Benzo(a)pyrene	50.0	U	32.2	30.5	64.4	61.0	1	37.0-120			5.42	24
Bis(2-chlorethoxy)methane	50.0	U	29.7	23.3	59.4	46.6	1	17.0-120			24.2	31
Bis(2-chloroethyl)ether	50.0	U	32.9	25.5	65.8	51.0	1	14.0-120			25.3	33
2,2-Oxybis(1-Chloropropane)	50.0	U	31.6	24.3	63.2	48.6	1	18.0-120			26.1	34
4-Bromophenyl-phenylether	50.0	U	38.2	28.6	76.4	57.2	1	37.0-120		J3	28.7	24
2-Chloronaphthalene	50.0	U	35.2	25.0	70.4	50.0	1	29.0-120		J3	33.9	28
4-Chlorophenyl-phenylether	50.0	U	35.8	27.1	71.6	54.2	1	36.0-120		J3	27.7	23
Chrysene	50.0	U	31.5	28.9	63.0	57.8	1	38.0-120			8.61	23
Dibenz(a,h)anthracene	50.0	U	30.2	28.3	60.4	56.6	1	36.0-121			6.50	24
3,3-Dichlorobenzidine	100	U	76.0	58.6	76.0	58.6	1	10.0-134			25.9	30
2,4-Dinitrotoluene	50.0	U	43.8	31.5	87.6	63.0	1	39.0-125		J3	32.7	25
2,6-Dinitrotoluene	50.0	U	40.8	30.0	81.6	60.0	1	36.0-120		J3	30.5	27
Fluoranthene	50.0	U	37.2	28.9	74.4	57.8	1	41.0-121		J3	25.1	22
Fluorene	50.0	U	35.4	25.6	70.8	51.2	1	37.0-120		J3	32.1	24
Hexachlorobenzene	50.0	U	37.2	31.2	74.4	62.4	1	35.0-122			17.5	24
Hexachloro-1,3-butadiene	50.0	U	30.1	23.7	60.2	47.4	1	12.0-120			23.8	34
Hexachlorocyclopentadiene	50.0	U	17.8	15.8	35.6	31.6	1	10.0-120			11.9	33
Hexachloroethane	50.0	U	33.1	24.3	66.2	48.6	1	10.0-120			30.7	40
Indeno(1,2,3-cd)pyrene	50.0	U	31.7	29.5	63.4	59.0	1	38.0-125			7.19	24
Isophorone	50.0	U	28.6	22.3	57.2	44.6	1	21.0-120			24.8	27

L1708982-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1708982-07 02/29/24 16:40 • (MS) R4040438-3 02/29/24 17:01 • (MSD) R4040438-4 02/29/24 17:23

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 %
Naphthalene	50.0	U	31.4	23.5	62.8	47.0	1	10.0-120			28.8	31
Nitrobenzene	50.0	U	29.5	22.6	59.0	45.2	1	12.0-120			26.5	30
n-Nitrosodimethylamine	50.0	U	15.0	13.5	30.0	27.0	1	10.0-120			10.5	40
n-Nitrosodiphenylamine	50.0	U	36.6	27.0	73.2	54.0	1	37.0-120		J3	30.2	24
n-Nitrosodi-n-propylamine	50.0	U	28.1	21.7	56.2	43.4	1	16.0-120			25.7	30
Phenanthrene	50.0	U	34.9	26.0	69.8	52.0	1	33.0-120		J3	29.2	22
Benzylbutyl phthalate	50.0	U	37.0	28.4	74.0	56.8	1	34.0-126		J3	26.3	24
Bis(2-ethylhexyl)phthalate	50.0	U	33.7	31.3	67.4	62.6	1	33.0-126			7.38	25
Di-n-butyl phthalate	50.0	U	37.0	28.2	74.0	56.4	1	35.0-128		J3	27.0	23
Diethyl phthalate	50.0	U	36.9	26.5	73.8	53.0	1	39.0-125		J3	32.8	24
Dimethyl phthalate	50.0	U	38.0	28.5	76.0	57.0	1	37.0-120		J3	28.6	24
Di-n-octyl phthalate	50.0	U	32.1	29.6	64.2	59.2	1	25.0-135			8.10	26
Pyrene	50.0	U	34.4	27.7	68.8	55.4	1	39.0-120			21.6	22
1,2,4-Trichlorobenzene	50.0	U	32.5	24.4	65.0	48.8	1	15.0-120			28.5	31
4-Chloro-3-methylphenol	50.0	U	23.9	18.9	47.8	37.8	1	26.0-120			23.4	27
2-Chlorophenol	50.0	U	24.7	19.0	49.4	38.0	1	18.0-120			26.1	34
2,4-Dichlorophenol	50.0	U	29.7	23.4	59.4	46.8	1	19.0-120			23.7	27
2,4-Dimethylphenol	50.0	U	23.7	19.3	47.4	38.6	1	15.0-120			20.5	28
4,6-Dinitro-2-methylphenol	50.0	U	51.8	37.4	104	74.8	1	10.0-144			32.3	39
2,4-Dinitrophenol	50.0	U	44.9	32.9	89.8	65.8	1	10.0-120			30.8	40
2-Nitrophenol	50.0	U	34.5	26.1	69.0	52.2	1	20.0-120			27.7	30
4-Nitrophenol	50.0	U	6.16	3.39	12.3	6.78	1	10.0-120		J3 J6	58.0	40
Pentachlorophenol	50.0	U	31.1	21.2	62.2	42.4	1	10.0-128		J3	37.9	37
Phenol	50.0	U	10.7	7.84	21.4	15.7	1	10.0-120			30.9	40
2,4,6-Trichlorophenol	50.0	U	35.5	25.9	71.0	51.8	1	26.0-120		J3	31.3	31
(S) 2-Fluorophenol					*30.3*	*22.6*		*10.0-120*				
(S) Phenol-d5					*18.1*	*13.7*		*10.0-120*				
(S) Nitrobenzene-d5					*55.0*	*41.8*		*10.0-127*				
(S) 2-Fluorobiphenyl					*68.9*	*50.2*		*10.0-130*				
(S) 2,4,6-Tribromophenol					*82.5*	*56.5*		*10.0-155*				
(S) p-Terphenyl-d14					*66.6*	*59.8*		*10.0-128*				

Method Blank (MB)

(MB) R4040219-3 02/29/24 23:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acenaphthene	U		0.0886	1.00
Acenaphthylene	U		0.0921	1.00
Anthracene	U		0.0804	1.00
Benzidine	U		3.74	10.0
Benzo(a)anthracene	U		0.199	1.00
Benzo(b)fluoranthene	U		0.130	1.00
Benzo(k)fluoranthene	U		0.120	1.00
Benzo(g,h,i)perylene	U		0.121	1.00
Benzo(a)pyrene	U		0.0381	1.00
Bis(2-chlorethoxy)methane	U		0.116	10.0
Bis(2-chloroethyl)ether	U		0.137	10.0
2,2-Oxybis(1-Chloropropane)	U		0.210	10.0
4-Bromophenyl-phenylether	U		0.0877	10.0
2-Chloronaphthalene	U		0.0648	1.00
4-Chlorophenyl-phenylether	U		0.0926	10.0
Chrysene	U		0.130	1.00
Dibenz(a,h)anthracene	U		0.0644	1.00
3,3-Dichlorobenzidine	U		0.212	10.0
2,4-Dinitrotoluene	U		0.0983	10.0
2,6-Dinitrotoluene	U		0.250	10.0
Fluoranthene	U		0.102	1.00
Fluorene	U		0.0844	1.00
Hexachlorobenzene	U		0.0755	1.00
Hexachloro-1,3-butadiene	U		0.0968	10.0
Hexachlorocyclopentadiene	U		0.0598	10.0
Hexachloroethane	U		0.127	10.0
Indeno(1,2,3-cd)pyrene	U		0.279	1.00
Isophorone	U		0.143	10.0
Naphthalene	U		0.159	1.00
Nitrobenzene	U		0.297	10.0
n-Nitrosodimethylamine	U		0.998	10.0
n-Nitrosodiphenylamine	U		2.37	10.0
n-Nitrosodi-n-propylamine	U		0.261	10.0
Phenanthrene	U		0.112	1.00
Benzylbutyl phthalate	U		0.765	3.00
Bis(2-ethylhexyl)phthalate	U		0.895	3.00
Di-n-butyl phthalate	U		0.453	3.00
Diethyl phthalate	U		0.287	3.00
Dimethyl phthalate	U		0.260	3.00
Di-n-octyl phthalate	U		0.932	3.00

Method Blank (MB)

(MB) R4040219-3 02/29/24 23:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Pyrene	U		0.107	1.00
1,2,4-Trichlorobenzene	U		0.0698	10.0
4-Chloro-3-methylphenol	U		0.131	10.0
2-Chlorophenol	U		0.133	10.0
2,4-Dichlorophenol	U		0.102	10.0
2,4-Dimethylphenol	U		0.0636	10.0
4,6-Dinitro-2-methylphenol	U		1.12	10.0
2,4-Dinitrophenol	U		5.93	10.0
2-Nitrophenol	U		0.117	10.0
4-Nitrophenol	U		0.143	10.0
Pentachlorophenol	U		0.313	10.0
Phenol	U		4.33	10.0
2,4,6-Trichlorophenol	U		0.100	10.0
(S) 2-Fluorophenol	*38.0*			*10.0-120*
(S) Phenol-d5	*22.4*			*10.0-120*
(S) Nitrobenzene-d5	*53.9*			*10.0-127*
(S) 2-Fluorobiphenyl	*57.9*			*10.0-130*
(S) 2,4,6-Tribromophenol	*49.7*			*10.0-155*
(S) p-Terphenyl-d14	*64.7*			*10.0-128*

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

(LCS) R4040219-1 02/29/24 22:23 • (LCSD) R4040219-2 02/29/24 22:45

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 %
Acenaphthene	50.0	29.9	31.7	59.8	63.4	41.0-120			5.84	22
Acenaphthylene	50.0	31.6	32.9	63.2	65.8	43.0-120			4.03	22
Anthracene	50.0	33.7	36.9	67.4	73.8	45.0-120			9.07	20
Benzidine	100	6.81	9.52	6.81	9.52	10.0-120	J4	J4	33.2	36
Benzo(a)anthracene	50.0	35.4	38.7	70.8	77.4	47.0-120			8.91	20
Benzo(b)fluoranthene	50.0	35.2	38.9	70.4	77.8	46.0-120			9.99	20
Benzo(k)fluoranthene	50.0	35.2	37.7	70.4	75.4	46.0-120			6.86	21
Benzo(g,h,i)perylene	50.0	32.0	34.9	64.0	69.8	48.0-121			8.67	20
Benzo(a)pyrene	50.0	29.5	32.3	59.0	64.6	47.0-120			9.06	20
Bis(2-chlorethoxy)methane	50.0	21.7	22.0	43.4	44.0	33.0-120			1.37	24
Bis(2-chloroethyl)ether	50.0	23.4	24.4	46.8	48.8	23.0-120			4.18	33
2,2-Oxybis(1-Chloropropane)	50.0	25.2	26.0	50.4	52.0	28.0-120			3.13	31
4-Bromophenyl-phenylether	50.0	30.9	33.8	61.8	67.6	45.0-120			8.96	20
2-Chloronaphthalene	50.0	27.6	29.0	55.2	58.0	37.0-120			4.95	25

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

(LCS) R4040219-1 02/29/24 22:23 • (LCSD) R4040219-2 02/29/24 22:45

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 %
4-Chlorophenyl-phenylether	50.0	30.2	32.9	60.4	65.8	44.0-120			8.56	20
Chrysene	50.0	33.2	35.6	66.4	71.2	48.0-120			6.98	20
Dibenz(a,h)anthracene	50.0	32.4	35.2	64.8	70.4	47.0-120			8.28	20
3,3-Dichlorobenzidine	100	69.7	80.9	69.7	80.9	44.0-120			14.9	20
2,4-Dinitrotoluene	50.0	30.9	32.5	61.8	65.0	49.0-124			5.05	20
2,6-Dinitrotoluene	50.0	29.6	31.9	59.2	63.8	46.0-120			7.48	21
Fluoranthene	50.0	34.9	37.9	69.8	75.8	51.0-120			8.24	20
Fluorene	50.0	31.6	34.0	63.2	68.0	47.0-120			7.32	20
Hexachlorobenzene	50.0	28.8	32.4	57.6	64.8	44.0-120			11.8	20
Hexachloro-1,3-butadiene	50.0	18.9	19.4	37.8	38.8	19.0-120			2.61	32
Hexachlorocyclopentadiene	50.0	7.77	8.10	15.5	16.2	15.0-120			4.16	31
Hexachloroethane	50.0	24.4	25.3	48.8	50.6	15.0-120			3.62	37
Indeno(1,2,3-cd)pyrene	50.0	32.4	35.3	64.8	70.6	49.0-122			8.57	20
Isophorone	50.0	23.2	23.9	46.4	47.8	36.0-120			2.97	23
Naphthalene	50.0	22.7	23.7	45.4	47.4	27.0-120			4.31	27
Nitrobenzene	50.0	21.2	21.8	42.4	43.6	27.0-120			2.79	29
n-Nitrosodimethylamine	50.0	16.3	17.3	32.6	34.6	10.0-120			5.95	40
n-Nitrosodiphenylamine	50.0	31.8	34.3	63.6	68.6	47.0-120			7.56	20
n-Nitrosodi-n-propylamine	50.0	27.0	28.5	54.0	57.0	31.0-120			5.41	28
Phenanthrene	50.0	32.5	34.3	65.0	68.6	46.0-120			5.39	20
Benzylbutyl phthalate	50.0	31.0	34.0	62.0	68.0	43.0-121			9.23	20
Bis(2-ethylhexyl)phthalate	50.0	30.4	34.8	60.8	69.6	43.0-122			13.5	20
Di-n-butyl phthalate	50.0	36.0	39.7	72.0	79.4	49.0-121			9.78	20
Diethyl phthalate	50.0	33.7	35.3	67.4	70.6	48.0-122			4.64	20
Dimethyl phthalate	50.0	31.1	33.5	62.2	67.0	48.0-120			7.43	20
Di-n-octyl phthalate	50.0	28.9	33.3	57.8	66.6	42.0-125			14.1	20
Pyrene	50.0	35.1	37.8	70.2	75.6	47.0-120			7.41	20
1,2,4-Trichlorobenzene	50.0	21.8	22.0	43.6	44.0	24.0-120			0.913	29
4-Chloro-3-methylphenol	50.0	20.8	20.9	41.6	41.8	40.0-120			0.480	21
2-Chlorophenol	50.0	21.2	21.4	42.4	42.8	25.0-120			0.939	35
2,4-Dichlorophenol	50.0	23.1	22.8	46.2	45.6	36.0-120			1.31	26
2,4-Dimethylphenol	50.0	20.3	20.6	40.6	41.2	33.0-120			1.47	26
4,6-Dinitro-2-methylphenol	50.0	29.5	31.9	59.0	63.8	38.0-138			7.82	25
2,4-Dinitrophenol	50.0	21.4	23.5	42.8	47.0	10.0-120			9.35	39
2-Nitrophenol	50.0	22.8	22.8	45.6	45.6	31.0-120			0.000	29
4-Nitrophenol	50.0	11.0	11.3	22.0	22.6	10.0-120			2.69	33
Pentachlorophenol	50.0	20.3	22.7	40.6	45.4	23.0-120			11.2	25
Phenol	50.0	10.0	9.90	20.0	19.8	10.0-120			1.01	36
2,4,6-Trichlorophenol	50.0	28.3	29.9	56.6	59.8	42.0-120			5.50	23
(S) 2-Fluorophenol				*26.2*	*25.4*	*10.0-120*				

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

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

(LCS) R4040219-1 02/29/24 22:23 • (LCSD) R4040219-2 02/29/24 22:45

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 %
(S) Phenol-d5				*19.8*	*19.7*	*10.0-120*				
(S) Nitrobenzene-d5				*39.0*	*38.9*	*10.0-127*				
(S) 2-Fluorobiphenyl				*50.1*	*52.3*	*10.0-130*				
(S) 2,4,6-Tribromophenol				*54.5*	*57.5*	*10.0-155*				
(S) p-Terphenyl-d14				*57.0*	*61.3*	*10.0-128*				

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

MDL	Method Detection Limit.
RDL	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.
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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.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
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.
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:
ATC Group Services LLC

2725 E. Millbrook Rd STE 121
Raleigh, NC 27604

Billing Information:

Report to: Larry George

Email To: **larry.george@oneatlas.com**

Project Description: GAITHER TRANSOU PROPERTY

City/State Collected:

Phone: **919-872-2660**
Fax: **919-876-3958**

Client Project #

Lab Project #

Collected by (print): LAURA DESOUSA

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	SVOC8270 - 100ml amber	8260 - 40ml amber HCL	Trip Blank 8260	Rem./Contaminant	Sample # (lab only)
TMW-1	G	GW	–	2/22/24	1255	5	X	X			-01
TMW-2	G	GW	–	2/22/24	1500	5	X	X			-02
DUP-A	G	GW	–	2/22/24	1255	5	X	X			-03
EQUIP-BLANK-2	G	GW	–	2/20/24	1505	5	X	X			-04

Chain of Custody Page ___ of ___

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 170996
D184

Acctnum: ATCRNC
Template:
Prelogin:
TSR: Wagner
Cooler:
Shipped Via: Raleigh Serv

Sample Receipt Checklist
COC Seal Present/Intact: ✓Y ___N
COC Signed/Accurate: ✓Y ___N
Bottles arrive intact: ✓Y ___N
Correct bottles used: ✓Y ___N
Sufficient volume sent: ✓Y ___N
RA Screen <0.5 mR/hr: ✓Y ___N
If Applicable
VOA Zero Headspace: ___Y ___N
Pres. Correct/Check: ___Y ___N
TRIP Blank

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: 7155 0309 3572

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
	2/22/24	2030	Mike Watts (PACE 2/26/24 1155		
Relinquished by : (Signature) Mike Watts (PACE	Date: 2/26/24	Time: 1245	Received by: (Signature)	Temp: DAY °C 0.8 to 0.8 Bottles Received: 2.0	COC Seal Intact: ___Y ___N ___NA
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Chr Ste	Date: 2-27-24 Time: 9:00	pH Checked: NCF:

ANALYTICAL REPORT

March 26, 2024

ATC Group Services LLC

Sample Delivery Group:	L1709860
Samples Received:	02/28/2024
Project Number:	
Description:	Gaither Transou Property
Report To:	Larry George 2725 E. Millbrook Road, Ste 121 Raleigh, NC 27604

Entire Report Reviewed By:

Heather J Wagner
Project Manager

TABLE OF CONTENTS

SGP- SOIL L1709860-01 Solid

Collected by: L.
Collected date/time: 02/22/24 15:30
Received date/time: 02/28/24 13:53

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2236040	1	03/26/24 00:00	03/26/24 00:00	-	West Columbia, SC 29172

TMW-1 L1709860-02 GW

Collected by: L.
Collected date/time: 02/22/24 12:55
Received date/time: 02/28/24 13:53

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2236040	1	03/26/24 00:00	03/26/24 00:00	-	West Columbia, SC 29172

TMW-2 L1709860-03 GW

Collected by: L.
Collected date/time: 02/22/24 15:00
Received date/time: 02/28/24 13:53

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2236040	1	03/26/24 00:00	03/26/24 00:00	-	West Columbia, SC 29172

EQUIP BLANK-2 L1709860-04 GW

Collected by: L.
Collected date/time: 02/22/24 15:05
Received date/time: 02/28/24 13:53

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2236040	1	03/26/24 00:00	03/26/24 00:00	-	West Columbia, SC 29172

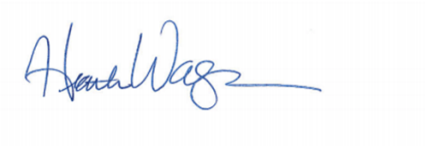
DUP-A L1709860-05 GW

Collected by: L.
Collected date/time: 02/22/24 12:55
Received date/time: 02/28/24 13:53

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2236040	1	03/26/24 00:00	03/26/24 00:00	-	West Columbia, SC 29172

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.



Heather J Wagner
Project Manager

Project Narrative

L1709860 -01, -02, -03, -04, -05 contains subout data that is included after the chain of custody.

GLOSSARY OF TERMS

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Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

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
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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		

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L1709860

Pace Analytical®

PACE ANALYTICAL SERVICES, LLC
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.pacelabs.com

Number 156383

Client: ATC	Report to Contact: LARRY GEORGE	Telephone No. / E-mail: LARRY.GEORGE@ONEATLAS.COM	Quote No:
Address: 3725 E. MILLBROOK RD. SUITE 121	Sampler's Signature: X	Analysis (Attach list if more space is needed)	Page 1 of 1
City: RALEIGH	State: NC	Zip Code: 27604	
Project Name: GAITHER TRANSON PROPERTY	Printed Name: LAURA DESCUSA		
Project No.: IHSB050 P01	P.O. No.:		

Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (military)	Grab / Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Other	No of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Field Filtered	PFAS 537.1	Remarks / Cooler I.D.
SGP-SOIL	2/22/24	1530	C											X	
TMW-1	2/22/24	1255	G											X	
TMW-2	2/22/24	1500	G											X	
EQUIP-BLANK-2	2/22/24	1505	G											X	
DUP-A	2/22/24	1255	G											X	

ZB27002

JSH

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☐ Standard ☐ Rush (Specify)	Sample Disposal: ☐ Return to Client ☐ Disposal by Lab	Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown	QC Requirements (Specify)		
1. Relinquished by: ATC	Date: 2/22/24	Time: 2030	1. Received by: MW Watts (PACE	Date: 2/26/24	Time: 1155
2. Relinquished by: MW Watts (PACE	Date: 2/26/24	Time: 1745	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Received by	Date	Time
4. Relinquished by: Fedex	Date: 2.27.24	Time: 850	4. Laboratory received by: Coryn Wiseman	Date: 2.27.24	Time: 850

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY — Received on ice (Circle): (Yes) No Ice Pack — Receipt Temp: 1.1 °C — Temp Blank: ☐ Y ☒ N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: MF103N2-01

Report of Analysis

Pace Analytical LLC
12065 Lebanon Rd.
Mt. Juliet, TN 37122
Attention: Jimmy Huckaba

Project Name: L1709860

Project Number: WG2236040

Lot Number:**ZB27002**

Date Completed:03/26/2024

03/26/2024 3:08 PM
Approved and released by:
Project Coordinator 1: **Jenna S. Holliday**

Case Narrative
Pace Analytical LLC
Lot Number: ZB27002

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18. Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

PFAS Analysis
Surrogate recovery for samples ZB27002-002, -004, and -005 were outside the acceptance limits. These samples did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The matrix spike/matrix spike duplicate (MS/MSD) for batch 98668 recovered outside of the acceptance limits. The associated laboratory control sample (LCS) passed acceptance criteria. Therefore, the data has been reported.

Sample Summary
Pace Analytical LLC
Lot Number: ZB27002
Project Name: L1709860
Project Number: WG2236040

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SGP-SOIL	Solid	02/22/2024 1530	02/27/2024
002	TMW-1	Aqueous	02/22/2024 1255	02/27/2024
003	TMW-2	Aqueous	02/22/2024 1500	02/27/2024
004	EQUIP-BLANK-2	Aqueous	02/22/2024 1505	02/27/2024
005	DUP-A	Aqueous	02/22/2024 1255	02/27/2024

(5 samples)

Detection Summary

Pace Analytical LLC

Lot Number: ZB27002

Project Name: L1709860

Project Number: WG2236040

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	SGP-SOIL	Solid	PFHxS	PFAS by ID	1.1	J	ug/kg	6
001	SGP-SOIL	Solid	PFOA	PFAS by ID	0.42	J	ug/kg	6
001	SGP-SOIL	Solid	PFOS	PFAS by ID	1.8	S	ug/kg	6
002	TMW-1	Aqueous	PFBS	PFAS by ID	78		ng/L	8
002	TMW-1	Aqueous	PFPeS	PFAS by ID	14		ng/L	8
002	TMW-1	Aqueous	PFHxS	PFAS by ID	20		ng/L	8
002	TMW-1	Aqueous	PFBA	PFAS by ID	12		ng/L	8
002	TMW-1	Aqueous	PFHpA	PFAS by ID	10		ng/L	8
002	TMW-1	Aqueous	PFHxA	PFAS by ID	29		ng/L	8
002	TMW-1	Aqueous	PFOA	PFAS by ID	24		ng/L	8
002	TMW-1	Aqueous	PFPeA	PFAS by ID	14		ng/L	8
003	TMW-2	Aqueous	PFBS	PFAS by ID	0.49	J	ng/L	10
003	TMW-2	Aqueous	PFHxS	PFAS by ID	2.3	J	ng/L	10
003	TMW-2	Aqueous	PFBA	PFAS by ID	1.1	J	ng/L	10
003	TMW-2	Aqueous	PFOA	PFAS by ID	0.97	J	ng/L	10
005	DUP-A	Aqueous	PFBS	PFAS by ID	87		ng/L	14
005	DUP-A	Aqueous	PFPeS	PFAS by ID	16		ng/L	14
005	DUP-A	Aqueous	PFHxS	PFAS by ID	20		ng/L	14
005	DUP-A	Aqueous	PFBA	PFAS by ID	12		ng/L	14
005	DUP-A	Aqueous	PFHpA	PFAS by ID	11		ng/L	14
005	DUP-A	Aqueous	PFHxA	PFAS by ID	25		ng/L	14
005	DUP-A	Aqueous	PFOA	PFAS by ID	24		ng/L	14
005	DUP-A	Aqueous	PFPeA	PFAS by ID	14		ng/L	14

(23 detections)

PFAS by LC/MS/MS

Client: **Pace Analytical LLC** Laboratory ID: **ZB27002-001**

Description: **SGP-SOIL** Matrix: **Solid**

Date Sampled: **02/22/2024 1530** Project Name: **L1709860** % Solids: **77.5** **03/07/2024 1202**

Date Received: **02/27/2024** Project Number: **WG2236040**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/22/2024 1919	NRP	03/21/2024 2030	98668

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		2.4	0.19	ug/kg	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		2.4	0.21	ug/kg	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.4	0.33	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.4	0.83	ug/kg	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		2.4	0.46	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.4	0.26	ug/kg	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		4.9	0.71	ug/kg	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		2.4	0.18	ug/kg	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		2.4	0.43	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.4	0.35	ug/kg	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		2.4	0.28	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.4	0.42	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.4	0.48	ug/kg	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		2.4	0.41	ug/kg	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.2	0.16	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.2	0.27	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.2	0.27	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		1.2	0.31	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	**355-46-4**	**PFAS by ID SOP**	**1.1**	**J**	**1.2**	**0.21**	**ug/kg**	**1**
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.2	0.51	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.2	0.19	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.2	0.17	ug/kg	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		2.4	0.27	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.2	0.18	ug/kg	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		1.2	0.43	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	**335-67-1**	**PFAS by ID SOP**	**0.42**	**J**	**1.2**	**0.26**	**ug/kg**	**1**
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.2	0.19	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	**1763-23-1**	**PFAS by ID SOP**	**1.8**	**S**	**1.2**	**0.43**	**ug/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		104	25-150
13C2_6:2FTS		103	25-150
13C2_8:2FTS		89	25-150
13C2_PFDoA		93	25-150
13C2_PFHxDA		96	25-150
13C2_PFTeDA		109	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Pace Analytical LLC** Laboratory ID: **ZB27002-001**

Description: **SGP-SOIL** Matrix: **Solid**

Date Sampled: **02/22/2024 1530** Project Name: **L1709860** % Solids: **77.5** **03/07/2024 1202**

Date Received: **02/27/2024** Project Number: **WG2236040**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		96	25-150
13C3_PFHxS		91	25-150
13C3-HFPO-DA		102	25-150
13C4_PFBA		91	25-150
13C4_PFHpA		96	25-150
13C5_PFHxA		104	25-150
13C5_PFPeA		85	25-150
13C6_PFDA		88	25-150
13C7_PFUdA		85	25-150
13C8_PFOA		92	25-150
13C8_PFOS		96	25-150
13C8_PFOSA		91	10-150
13C9_PFNA		100	25-150
d-EtFOSA		90	10-150
d5-EtFOSAA		98	25-150
d9-EtFOSE		95	10-150
d-MeFOSA		72	10-150
d3-MeFOSAA		106	25-150
d7-MeFOSE		97	10-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Pace Analytical LLC** Laboratory ID: **ZB27002-002**

Description: **TMW-1** Matrix: **Aqueous**

Date Sampled: **02/22/2024 1255** Project Name: **L1709860**

Date Received: **02/27/2024** Project Number: **WG2236040**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/18/2024 1844	NRP	03/15/2024 0924	98369

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		7.7	0.46	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		7.7	0.63	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	7.7	1.5	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	7.7	1.9	ng/L	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND	Q	7.7	1.2	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	7.7	0.84	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		7.7	2.0	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		7.7	0.46	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		7.7	1.3	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.7	0.72	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		7.7	0.91	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		15	1.2	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.7	0.89	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		7.7	1.2	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	**375-73-5**	**PFAS by ID SOP**	**78**		**3.8**	**0.40**	**ng/L**	**1**
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.8	0.74	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.8	0.48	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.8	0.68	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.8	0.59	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	**2706-91-4**	**PFAS by ID SOP**	**14**		**3.8**	**0.57**	**ng/L**	**1**
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		7.7	1.0	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	**355-46-4**	**PFAS by ID SOP**	**20**		**3.8**	**0.53**	**ng/L**	**1**
Perfluoro-n-butanoic acid (PFBA)	**375-22-4**	**PFAS by ID SOP**	**12**		**3.8**	**0.57**	**ng/L**	**1**
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.8	0.50	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.8	0.45	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	**375-85-9**	**PFAS by ID SOP**	**10**		**3.8**	**0.43**	**ng/L**	**1**
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		7.7	0.78	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	**307-24-4**	**PFAS by ID SOP**	**29**		**3.8**	**0.66**	**ng/L**	**1**
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.8	0.44	ng/L	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		7.7	0.96	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	**335-67-1**	**PFAS by ID SOP**	**24**		**3.8**	**0.79**	**ng/L**	**1**
Perfluoro-n-pentanoic acid (PFPeA)	**2706-90-3**	**PFAS by ID SOP**	**14**		**3.8**	**0.52**	**ng/L**	**1**
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.8	0.57	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.8	0.51	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.8	0.60	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.8	1.9	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	400	25-150
13C2_6:2FTS	N	306	25-150
13C2_8:2FTS	N	168	25-150
13C2_PFDoA		62	25-150
13C2_PFHxDA		41	25-150
13C2_PFTeDA		66	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Pace Analytical LLC** Laboratory ID: **ZB27002-002**

Description: **TMW-1** Matrix: **Aqueous**

Date Sampled: **02/22/2024 1255** Project Name: **L1709860**

Date Received: **02/27/2024** Project Number: **WG2236040**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		87	25-150
13C3_PFHxS		86	25-150
13C3-HFPO-DA		74	25-150
13C4_PFBA		62	25-150
13C4_PFHpA		69	25-150
13C5_PFHxA		82	25-150
13C5_PFPeA		85	25-150
13C6_PFDA		89	25-150
13C7_PFUdA		69	25-150
13C8_PFOA		112	25-150
13C8_PFOS		74	25-150
13C8_PFOSA		72	10-150
13C9_PFNA		84	25-150
d-EtFOSA		39	10-150
d5-EtFOSAA		75	25-150
d9-EtFOSE		64	10-150
d-MeFOSA		46	10-150
d3-MeFOSAA		75	25-150
d7-MeFOSE		67	10-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Pace Analytical LLC** Laboratory ID: **ZB27002-003**

Description: **TMW-2** Matrix: **Aqueous**

Date Sampled: **02/22/2024 1500** Project Name: **L1709860**

Date Received: **02/27/2024** Project Number: **WG2236040**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/18/2024 1854	NRP	03/15/2024 0924	98369

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		7.5	0.45	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		7.5	0.62	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		7.5	1.5	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		7.5	1.9	ng/L	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		7.5	1.1	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		7.5	0.82	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		7.5	1.9	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		7.5	0.45	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		7.5	1.3	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.5	0.70	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		7.5	0.89	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		15	1.2	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.5	0.87	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		7.5	1.2	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	**375-73-5**	**PFAS by ID SOP**	**0.49**	**J**	**3.7**	**0.39**	**ng/L**	**1**
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.7	0.73	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.7	0.47	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.7	0.67	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.7	0.57	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.7	0.56	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		7.5	0.98	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	**355-46-4**	**PFAS by ID SOP**	**2.3**	**J**	**3.7**	**0.52**	**ng/L**	**1**
Perfluoro-n-butanoic acid (PFBA)	**375-22-4**	**PFAS by ID SOP**	**1.1**	**J**	**3.7**	**0.56**	**ng/L**	**1**
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.7	0.49	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.7	0.44	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.7	0.42	ng/L	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		7.5	0.76	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.7	0.64	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.7	0.43	ng/L	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		7.5	0.94	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	**335-67-1**	**PFAS by ID SOP**	**0.97**	**J**	**3.7**	**0.78**	**ng/L**	**1**
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.7	0.51	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.7	0.56	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.7	0.50	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.7	0.59	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.7	1.9	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		103	25-150
13C2_6:2FTS		102	25-150
13C2_8:2FTS		86	25-150
13C2_PFDoA		75	25-150
13C2_PFHxDA		82	25-150
13C2_PFTeDA		97	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Pace Analytical LLC** Laboratory ID: **ZB27002-003**

Description: **TMW-2** Matrix: **Aqueous**

Date Sampled: **02/22/2024 1500** Project Name: **L1709860**

Date Received: **02/27/2024** Project Number: **WG2236040**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		85	25-150
13C3_PFHxS		90	25-150
13C3-HFPO-DA		92	25-150
13C4_PFBA		80	25-150
13C4_PFHpA		91	25-150
13C5_PFHxA		83	25-150
13C5_PFPeA		89	25-150
13C6_PFDA		84	25-150
13C7_PFUdA		82	25-150
13C8_PFOA		92	25-150
13C8_PFOS		82	25-150
13C8_PFOSA		82	10-150
13C9_PFNA		79	25-150
d-EtFOSA		62	10-150
d5-EtFOSAA		82	25-150
d9-EtFOSE		82	10-150
d-MeFOSA		57	10-150
d3-MeFOSAA		84	25-150
d7-MeFOSE		84	10-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Pace Analytical LLC** Laboratory ID: **ZB27002-004**

Description: **EQUIP-BLANK-2** Matrix: **Aqueous**

Date Sampled: **02/22/2024 1505** Project Name: **L1709860**

Date Received: **02/27/2024** Project Number: **WG2236040**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/18/2024 1926	NRP	03/15/2024 0924	98369

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		7.6	0.46	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		7.6	0.63	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		7.6	1.5	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	7.6	1.9	ng/L	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		7.6	1.1	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		7.6	0.83	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		7.6	2.0	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		7.6	0.46	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		7.6	1.3	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.6	0.71	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		7.6	0.90	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		15	1.2	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.6	0.88	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		7.6	1.2	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		3.8	0.39	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.8	0.74	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.8	0.47	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.8	0.67	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.8	0.58	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.8	0.56	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		7.6	0.99	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		3.8	0.52	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		3.8	0.57	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.8	0.50	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.8	0.45	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.8	0.42	ng/L	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		7.6	0.77	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.8	0.65	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.8	0.44	ng/L	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		7.6	0.95	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.8	0.78	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.8	0.51	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.8	0.57	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.8	0.50	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.8	0.59	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.8	1.9	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		100	25-150
13C2_6:2FTS	N	154	25-150
13C2_8:2FTS		147	25-150
13C2_PFDoA		104	25-150
13C2_PFHxDA		88	25-150
13C2_PFTeDA		111	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Pace Analytical LLC** Laboratory ID: **ZB27002-004**

Description: **EQUIP-BLANK-2** Matrix: **Aqueous**

Date Sampled: **02/22/2024 1505** Project Name: **L1709860**

Date Received: **02/27/2024** Project Number: **WG2236040**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		93	25-150
13C3_PFHxS		94	25-150
13C3-HFPO-DA		87	25-150
13C4_PFBA		86	25-150
13C4_PFHpA		99	25-150
13C5_PFHxA		78	25-150
13C5_PFPeA		97	25-150
13C6_PFDA		100	25-150
13C7_PFUdA		113	25-150
13C8_PFOA		117	25-150
13C8_PFOS		64	25-150
13C8_PFOSA		91	10-150
13C9_PFNA		71	25-150
d-EtFOSA		79	10-150
d5-EtFOSAA		127	25-150
d9-EtFOSE		88	10-150
d-MeFOSA		72	10-150
d3-MeFOSAA		121	25-150
d7-MeFOSE		90	10-150

LOQ = Limit of Quantitation
ND = Not detected at or above the DL
H = Out of holding time
B = Detected in the method blank
N = Recovery is out of criteria
W = Reported on wet weight basis
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
DL = Detection Limit
J = Estimated result < LOQ and ≥ DL
Q = Surrogate failure
L = LCS/LCSD failure
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Pace Analytical LLC** Laboratory ID: **ZB27002-005**

Description: **DUP-A** Matrix: **Aqueous**

Date Sampled: **02/22/2024 1255** Project Name: **L1709860**

Date Received: **02/27/2024** Project Number: **WG2236040**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/18/2024 1937	NRP	03/15/2024 0924	98369

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		7.5	0.45	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		7.5	0.62	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	7.5	1.5	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	7.5	1.9	ng/L	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND	Q	7.5	1.1	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	7.5	0.82	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		7.5	1.9	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		7.5	0.45	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		7.5	1.3	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.5	0.70	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		7.5	0.89	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		15	1.2	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.5	0.87	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		7.5	1.2	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	**375-73-5**	**PFAS by ID SOP**	**87**		**3.7**	**0.39**	**ng/L**	**1**
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.7	0.73	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.7	0.47	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.7	0.66	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.7	0.57	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	**2706-91-4**	**PFAS by ID SOP**	**16**		**3.7**	**0.55**	**ng/L**	**1**
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		7.5	0.98	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	**355-46-4**	**PFAS by ID SOP**	**20**		**3.7**	**0.51**	**ng/L**	**1**
Perfluoro-n-butanoic acid (PFBA)	**375-22-4**	**PFAS by ID SOP**	**12**		**3.7**	**0.56**	**ng/L**	**1**
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.7	0.49	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.7	0.44	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	**375-85-9**	**PFAS by ID SOP**	**11**		**3.7**	**0.42**	**ng/L**	**1**
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		7.5	0.76	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	**307-24-4**	**PFAS by ID SOP**	**25**		**3.7**	**0.64**	**ng/L**	**1**
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.7	0.43	ng/L	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		7.5	0.93	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	**335-67-1**	**PFAS by ID SOP**	**24**		**3.7**	**0.77**	**ng/L**	**1**
Perfluoro-n-pentanoic acid (PFPeA)	**2706-90-3**	**PFAS by ID SOP**	**14**		**3.7**	**0.51**	**ng/L**	**1**
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.7	0.56	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.7	0.49	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.7	0.58	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.7	1.9	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	401	25-150
13C2_6:2FTS	N	316	25-150
13C2_8:2FTS	N	187	25-150
13C2_PFDoA		66	25-150
13C2_PFHxDA		56	25-150
13C2_PFTeDA		74	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Pace Analytical LLC** Laboratory ID: **ZB27002-005**

Description: **DUP-A** Matrix: **Aqueous**

Date Sampled: **02/22/2024 1255** Project Name: **L1709860**

Date Received: **02/27/2024** Project Number: **WG2236040**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		79	25-150
13C3_PFHxS		86	25-150
13C3-HFPO-DA		57	25-150
13C4_PFBA		59	25-150
13C4_PFHpA		66	25-150
13C5_PFHxA		88	25-150
13C5_PFPeA		88	25-150
13C6_PFDA		92	25-150
13C7_PFUdA		78	25-150
13C8_PFOA		108	25-150
13C8_PFOS		74	25-150
13C8_PFOSA		71	10-150
13C9_PFNA		88	25-150
d-EtFOSA		53	10-150
d5-EtFOSAA		73	25-150
d9-EtFOSE		70	10-150
d-MeFOSA		50	10-150
d3-MeFOSAA		88	25-150
d7-MeFOSE		73	10-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
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J = Estimated result < LOQ and ≥ DL
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QC Summary

PFAS by LC/MS/MS - MB

Sample ID: ZQ98369-001
Batch: 98369
Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/15/2024 0924

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
9Cl-PF3ONS	ND		1	8.0	0.48	ng/L	03/18/2024 1822
11Cl-PF3OUdS	ND		1	8.0	0.66	ng/L	03/18/2024 1822
8:2 FTS	ND		1	8.0	1.6	ng/L	03/18/2024 1822
6:2 FTS	ND		1	8.0	2.0	ng/L	03/18/2024 1822
10:2 FTS	ND		1	8.0	1.2	ng/L	03/18/2024 1822
4:2 FTS	ND		1	8.0	0.87	ng/L	03/18/2024 1822
GenX	ND		1	8.0	2.1	ng/L	03/18/2024 1822
ADONA	ND		1	8.0	0.48	ng/L	03/18/2024 1822
EtFOSA	ND		1	8.0	1.4	ng/L	03/18/2024 1822
EtFOSAA	ND		1	8.0	0.75	ng/L	03/18/2024 1822
EtFOSE	ND		1	8.0	0.95	ng/L	03/18/2024 1822
MeFOSA	ND		1	16	1.3	ng/L	03/18/2024 1822
MeFOSAA	ND		1	8.0	0.93	ng/L	03/18/2024 1822
MeFOSE	ND		1	8.0	1.3	ng/L	03/18/2024 1822
PFBS	ND		1	4.0	0.41	ng/L	03/18/2024 1822
PFDS	ND		1	4.0	0.78	ng/L	03/18/2024 1822
PFHpS	ND		1	4.0	0.50	ng/L	03/18/2024 1822
PFNS	ND		1	4.0	0.71	ng/L	03/18/2024 1822
PFOSA	ND		1	4.0	0.61	ng/L	03/18/2024 1822
PFPeS	ND		1	4.0	0.59	ng/L	03/18/2024 1822
PFDOS	ND		1	8.0	1.0	ng/L	03/18/2024 1822
PFHxS	ND		1	4.0	0.55	ng/L	03/18/2024 1822
PFBA	ND		1	4.0	0.60	ng/L	03/18/2024 1822
PFDA	ND		1	4.0	0.52	ng/L	03/18/2024 1822
PFDoA	ND		1	4.0	0.47	ng/L	03/18/2024 1822
PFHpA	ND		1	4.0	0.45	ng/L	03/18/2024 1822
PFHxDA	ND		1	8.0	0.82	ng/L	03/18/2024 1822
PFHxA	ND		1	4.0	0.69	ng/L	03/18/2024 1822
PFNA	ND		1	4.0	0.46	ng/L	03/18/2024 1822
PFODA	ND		1	8.0	1.0	ng/L	03/18/2024 1822
PFOA	ND		1	4.0	0.83	ng/L	03/18/2024 1822
PFPeA	ND		1	4.0	0.54	ng/L	03/18/2024 1822
PFTeDA	ND		1	4.0	0.60	ng/L	03/18/2024 1822
PFTrDA	ND		1	4.0	0.53	ng/L	03/18/2024 1822
PFUdA	ND		1	4.0	0.63	ng/L	03/18/2024 1822
PFOS	ND		1	4.0	2.0	ng/L	03/18/2024 1822

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		106	25-150
13C2_6:2FTS		101	25-150
13C2_8:2FTS		84	25-150
13C2_PFDoA		86	25-150
13C2_PFHxDA		99	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: ZQ98369-001
Batch: 98369
Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/15/2024 0924

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		109	25-150
13C3_PFBS		95	25-150
13C3_PFHxS		99	25-150
13C3-HFPO-DA		94	25-150
13C4_PFBA		90	25-150
13C4_PFHpA		102	25-150
13C5_PFHxA		86	25-150
13C5_PFPeA		95	25-150
13C6_PFDA		98	25-150
13C7_PFUdA		89	25-150
13C8_PFOA		110	25-150
13C8_PFOS		90	25-150
13C8_PFOSA		95	10-150
13C9_PFNA		88	25-150
d-EtFOSA		66	10-150
d5-EtFOSAA		97	25-150
d9-EtFOSE		98	10-150
d-MeFOSA		68	10-150
d3-MeFOSAA		102	25-150
d7-MeFOSE		93	10-150

LOQ = Limit of Quantitation
DL = Detection Limit

ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria

N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: ZQ98369-002
Batch: 98369
Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/15/2024 0924

Parameter	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
9Cl-PF3ONS	15	18		1	123	50-150	03/18/2024 1833
11Cl-PF3OUdS	15	19		1	127	50-150	03/18/2024 1833
8:2 FTS	15	17		1	112	50-150	03/18/2024 1833
6:2 FTS	15	20		1	131	50-150	03/18/2024 1833
10:2 FTS	15	17		1	112	50-150	03/18/2024 1833
4:2 FTS	15	20		1	134	50-150	03/18/2024 1833
GenX	32	37		1	116	50-150	03/18/2024 1833
ADONA	15	22		1	145	50-150	03/18/2024 1833
EtFOSA	16	19		1	122	50-150	03/18/2024 1833
EtFOSAA	16	22		1	136	50-150	03/18/2024 1833
EtFOSE	16	18		1	115	50-150	03/18/2024 1833
MeFOSA	16	20		1	128	50-150	03/18/2024 1833
MeFOSAA	16	21		1	128	50-150	03/18/2024 1833
MeFOSE	16	18		1	113	50-150	03/18/2024 1833
PFBS	14	19		1	134	50-150	03/18/2024 1833
PFDS	15	20		1	127	50-150	03/18/2024 1833
PFHpS	15	22		1	142	50-150	03/18/2024 1833
PFNS	15	22		1	142	50-150	03/18/2024 1833
PFOSA	16	22		1	135	50-150	03/18/2024 1833
PFPeS	15	21		1	139	50-150	03/18/2024 1833
PFDOS	15	17		1	110	50-150	03/18/2024 1833
PFHxS	15	19		1	130	50-150	03/18/2024 1833
PFBA	16	21		1	132	50-150	03/18/2024 1833
PFDA	16	19		1	122	50-150	03/18/2024 1833
PFDoA	16	23		1	144	50-150	03/18/2024 1833
PFHpA	16	21		1	129	50-150	03/18/2024 1833
PFHxDA	16	18		1	112	50-150	03/18/2024 1833
PFHxA	16	19		1	117	50-150	03/18/2024 1833
PFNA	16	22		1	136	50-150	03/18/2024 1833
PFODA	16	20		1	123	50-150	03/18/2024 1833
PFOA	16	21		1	130	50-150	03/18/2024 1833
PFPeA	16	20		1	128	50-150	03/18/2024 1833
PFTeDA	16	21		1	129	50-150	03/18/2024 1833
PFTrDA	16	19		1	121	50-150	03/18/2024 1833
PFUdA	16	23		1	142	50-150	03/18/2024 1833
PFOS	15	18		1	124	50-150	03/18/2024 1833

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		98	25-150
13C2_6:2FTS		110	25-150
13C2_8:2FTS		89	25-150
13C2_PFDoA		82	25-150
13C2_PFHxDA		84	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: ZQ98369-002
Batch: 98369
Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/15/2024 0924

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		104	25-150
13C3_PFBS		94	25-150
13C3_PFHxS		94	25-150
13C3-HFPO-DA		94	25-150
13C4_PFBA		88	25-150
13C4_PFHpA		103	25-150
13C5_PFHxA		91	25-150
13C5_PFPeA		98	25-150
13C6_PFDA		100	25-150
13C7_PFUdA		85	25-150
13C8_PFOA		105	25-150
13C8_PFOS		90	25-150
13C8_PFOSA		86	10-150
13C9_PFNA		86	25-150
d-EtFOSA		67	10-150
d5-EtFOSAA		95	25-150
d9-EtFOSE		93	10-150
d-MeFOSA		66	10-150
d3-MeFOSAA		94	25-150
d7-MeFOSE		90	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: ZQ98668-001
Batch: 98668
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 03/21/2024 2030

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
9Cl-PF3ONS	ND		1	2.0	0.16	ug/kg	03/22/2024 1857
11Cl-PF3OUdS	ND		1	2.0	0.17	ug/kg	03/22/2024 1857
8:2 FTS	ND		1	2.0	0.27	ug/kg	03/22/2024 1857
6:2 FTS	ND		1	2.0	0.68	ug/kg	03/22/2024 1857
10:2 FTS	ND		1	2.0	0.38	ug/kg	03/22/2024 1857
4:2 FTS	ND		1	2.0	0.22	ug/kg	03/22/2024 1857
GenX	ND		1	4.0	0.58	ug/kg	03/22/2024 1857
ADONA	ND		1	2.0	0.15	ug/kg	03/22/2024 1857
EtFOSA	ND		1	2.0	0.36	ug/kg	03/22/2024 1857
EtFOSAA	ND		1	2.0	0.29	ug/kg	03/22/2024 1857
EtFOSE	ND		1	2.0	0.23	ug/kg	03/22/2024 1857
MeFOSA	ND		1	2.0	0.35	ug/kg	03/22/2024 1857
MeFOSAA	ND		1	2.0	0.40	ug/kg	03/22/2024 1857
MeFOSE	ND		1	2.0	0.33	ug/kg	03/22/2024 1857
PFBS	ND		1	1.0	0.13	ug/kg	03/22/2024 1857
PFDS	ND		1	1.0	0.22	ug/kg	03/22/2024 1857
PFHpS	ND		1	1.0	0.18	ug/kg	03/22/2024 1857
PFNS	ND		1	1.0	0.22	ug/kg	03/22/2024 1857
PFOSA	ND		1	1.0	0.18	ug/kg	03/22/2024 1857
PFPeS	ND		1	1.0	0.19	ug/kg	03/22/2024 1857
PFDOS	ND		1	1.0	0.26	ug/kg	03/22/2024 1857
PFHxS	ND		1	1.0	0.18	ug/kg	03/22/2024 1857
PFBA	ND		1	1.0	0.42	ug/kg	03/22/2024 1857
PFDA	ND		1	1.0	0.16	ug/kg	03/22/2024 1857
PFDoA	ND		1	1.0	0.18	ug/kg	03/22/2024 1857
PFHpA	ND		1	1.0	0.14	ug/kg	03/22/2024 1857
PFHxDA	ND		1	2.0	0.22	ug/kg	03/22/2024 1857
PFHxA	ND		1	1.0	0.18	ug/kg	03/22/2024 1857
PFNA	ND		1	1.0	0.15	ug/kg	03/22/2024 1857
PFODA	ND		1	1.0	0.35	ug/kg	03/22/2024 1857
PFOA	ND		1	1.0	0.21	ug/kg	03/22/2024 1857
PFPeA	ND		1	1.0	0.16	ug/kg	03/22/2024 1857
PFTeDA	ND		1	1.0	0.19	ug/kg	03/22/2024 1857
PFTrDA	ND		1	1.0	0.17	ug/kg	03/22/2024 1857
PFUdA	ND		1	1.0	0.18	ug/kg	03/22/2024 1857
PFOS	ND		1	1.0	0.36	ug/kg	03/22/2024 1857

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		102	25-150
13C2_6:2FTS		99	25-150
13C2_8:2FTS		93	25-150
13C2_PFDoA		106	25-150
13C2_PFHxDA		100	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: ZQ98668-001
Batch: 98668
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 03/21/2024 2030

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		112	25-150
13C3_PFBS		102	25-150
13C3_PFHxS		97	25-150
13C3-HFPO-DA		104	25-150
13C4_PFBA		100	25-150
13C4_PFHpA		106	25-150
13C5_PFHxA		101	25-150
13C5_PFPeA		87	25-150
13C6_PFDA		95	25-150
13C7_PFUdA		86	25-150
13C8_PFOA		101	25-150
13C8_PFOS		105	25-150
13C8_PFOSA		90	10-150
13C9_PFNA		109	25-150
d-EtFOSA		99	10-150
d5-EtFOSAA		102	25-150
d9-EtFOSE		99	10-150
d-MeFOSA		97	10-150
d3-MeFOSAA		111	25-150
d7-MeFOSE		103	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: ZQ98668-002
Batch: 98668
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 03/21/2024 2030

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
9Cl-PF3ONS	1.9	2.2		1	119	50-150	03/22/2024 1908
11Cl-PF3OUdS	1.9	2.3		1	124	50-150	03/22/2024 1908
8:2 FTS	1.9	2.0		1	106	50-150	03/22/2024 1908
6:2 FTS	1.9	1.9		1	99	50-150	03/22/2024 1908
10:2 FTS	1.9	2.0		1	107	50-150	03/22/2024 1908
4:2 FTS	1.9	1.7		1	94	50-150	03/22/2024 1908
GenX	4.0	4.5		1	112	50-150	03/22/2024 1908
ADONA	1.9	2.3		1	124	50-150	03/22/2024 1908
EtFOSA	2.0	2.2		1	112	50-150	03/22/2024 1908
EtFOSAA	2.0	2.2		1	111	50-150	03/22/2024 1908
EtFOSE	2.0	2.2		1	111	50-150	03/22/2024 1908
MeFOSA	2.0	2.5		1	123	50-150	03/22/2024 1908
MeFOSAA	2.0	2.6		1	128	50-150	03/22/2024 1908
MeFOSE	2.0	2.5		1	124	50-150	03/22/2024 1908
PFBS	1.8	2.0		1	113	50-150	03/22/2024 1908
PFDS	1.9	2.3		1	122	50-150	03/22/2024 1908
PFHpS	1.9	2.2		1	113	50-150	03/22/2024 1908
PFNS	1.9	2.5		1	129	50-150	03/22/2024 1908
PFOSA	2.0	2.4		1	118	50-150	03/22/2024 1908
PFPeS	1.9	2.1		1	110	50-150	03/22/2024 1908
PFDOS	1.9	2.2		1	116	50-150	03/22/2024 1908
PFHxS	1.8	2.2		1	121	50-150	03/22/2024 1908
PFBA	2.0	2.2		1	112	50-150	03/22/2024 1908
PFDA	2.0	2.6		1	129	50-150	03/22/2024 1908
PFDoA	2.0	2.4		1	119	50-150	03/22/2024 1908
PFHpA	2.0	2.2		1	111	50-150	03/22/2024 1908
PFHxDA	2.0	2.2		1	109	50-150	03/22/2024 1908
PFHxA	2.0	2.2		1	109	50-150	03/22/2024 1908
PFNA	2.0	2.5		1	125	50-150	03/22/2024 1908
PFODA	2.0	2.2		1	108	50-150	03/22/2024 1908
PFOA	2.0	2.3		1	113	50-150	03/22/2024 1908
PFPeA	2.0	2.4		1	120	50-150	03/22/2024 1908
PFTeDA	2.0	2.4		1	119	50-150	03/22/2024 1908
PFTrDA	2.0	2.5		1	123	50-150	03/22/2024 1908
PFUdA	2.0	2.2		1	110	50-150	03/22/2024 1908
PFOS	1.9	2.2		1	117	50-150	03/22/2024 1908

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		89	25-150
13C2_6:2FTS		83	25-150
13C2_8:2FTS		76	25-150
13C2_PFDoA		73	25-150
13C2_PFHxDA		80	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: ZQ98668-002
Batch: 98668
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 03/21/2024 2030

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		86	25-150
13C3_PFBS		81	25-150
13C3_PFHxS		73	25-150
13C3-HFPO-DA		83	25-150
13C4_PFBA		74	25-150
13C4_PFHpA		82	25-150
13C5_PFHxA		86	25-150
13C5_PFPeA		69	25-150
13C6_PFDA		73	25-150
13C7_PFUdA		79	25-150
13C8_PFOA		79	25-150
13C8_PFOS		76	25-150
13C8_PFOSA		75	10-150
13C9_PFNA		81	25-150
d-EtFOSA		81	10-150
d5-EtFOSAA		75	25-150
d9-EtFOSE		81	10-150
d-MeFOSA		73	10-150
d3-MeFOSAA		79	25-150
d7-MeFOSE		75	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MS

Sample ID: ZB27002-001MS
Batch: 98668
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 03/21/2024 2030

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
9Cl-PF3ONS	ND	2.3	2.9		1	122	50-150	03/22/2024 1929
11Cl-PF3OUdS	ND	2.4	2.7		1	112	50-150	03/22/2024 1929
8:2 FTS	ND	2.4	2.2		1	92	50-150	03/22/2024 1929
6:2 FTS	ND	2.4	3.0		1	124	50-150	03/22/2024 1929
10:2 FTS	ND	2.4	2.2		1	91	50-150	03/22/2024 1929
4:2 FTS	ND	2.4	2.9		1	125	50-150	03/22/2024 1929
GenX	ND	5.1	5.5		1	108	50-150	03/22/2024 1929
ADONA	ND	2.4	2.5		1	106	50-150	03/22/2024 1929
EtFOSA	ND	2.5	2.7		1	108	50-150	03/22/2024 1929
EtFOSAA	ND	2.5	2.7		1	106	50-150	03/22/2024 1929
EtFOSE	ND	2.5	2.9		1	115	50-150	03/22/2024 1929
MeFOSA	ND	2.5	2.8		1	109	50-150	03/22/2024 1929
MeFOSAA	ND	2.5	2.9		1	113	50-150	03/22/2024 1929
MeFOSE	ND	2.5	2.8		1	109	50-150	03/22/2024 1929
PFBS	ND	2.2	2.6		1	117	50-150	03/22/2024 1929
PFDS	ND	2.4	2.7		1	109	50-150	03/22/2024 1929
PFHpS	ND	2.4	2.8		1	115	50-150	03/22/2024 1929
PFNS	ND	2.4	2.8		1	117	50-150	03/22/2024 1929
PFOSA	ND	2.5	3.0		1	118	50-150	03/22/2024 1929
PFPeS	ND	2.4	2.7		1	115	50-150	03/22/2024 1929
PFDOS	ND	2.4	2.9		1	120	50-150	03/22/2024 1929
PFHxS	1.1	2.3	3.7		1	114	50-150	03/22/2024 1929
PFBA	ND	2.5	2.7		1	107	50-150	03/22/2024 1929
PFDA	ND	2.5	2.9		1	113	50-150	03/22/2024 1929
PFDoA	ND	2.5	3.3		1	131	50-150	03/22/2024 1929
PFHpA	ND	2.5	2.7		1	109	50-150	03/22/2024 1929
PFHxDA	ND	2.5	2.9		1	114	50-150	03/22/2024 1929
PFHxA	ND	2.5	2.7		1	108	50-150	03/22/2024 1929
PFNA	ND	2.5	3.0		1	119	50-150	03/22/2024 1929
PFODA	ND	2.5	2.9		1	114	50-150	03/22/2024 1929
PFOA	0.42	2.5	2.9		1	98	50-150	03/22/2024 1929
PFPeA	ND	2.5	2.9		1	116	50-150	03/22/2024 1929
PFTeDA	ND	2.5	2.8		1	110	50-150	03/22/2024 1929
PFTrDA	ND	2.5	3.1		1	122	50-150	03/22/2024 1929
PFUdA	ND	2.5	2.8		1	113	50-150	03/22/2024 1929
PFOS	1.8	2.3	5.9	N	1	177	50-150	03/22/2024 1929

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		91	25-150
13C2_6:2FTS		89	25-150
13C2_8:2FTS		80	25-150
13C2_PFDoA		77	25-150
13C2_PFHxDA		80	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MS

Sample ID: ZB27002-001MS
Batch: 98668
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 03/21/2024 2030

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		95	25-150
13C3_PFBS		79	25-150
13C3_PFHxS		79	25-150
13C3-HFPO-DA		84	25-150
13C4_PFBA		80	25-150
13C4_PFHpA		88	25-150
13C5_PFHxA		91	25-150
13C5_PFPeA		75	25-150
13C6_PFDA		77	25-150
13C7_PFUdA		82	25-150
13C8_PFOA		85	25-150
13C8_PFOS		75	25-150
13C8_PFOSA		71	10-150
13C9_PFNA		86	25-150
d-EtFOSA		78	10-150
d5-EtFOSAA		86	25-150
d9-EtFOSE		78	10-150
d-MeFOSA		69	10-150
d3-MeFOSAA		85	25-150
d7-MeFOSE		81	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MSD

Sample ID: ZB27002-001MD
Batch: 98668
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 03/21/2024 2030

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
9Cl-PF3ONS	ND	2.1	2.8		1	131	4.0	50-150	30	03/22/2024 1940
11Cl-PF3OUdS	ND	2.1	2.8		1	133	6.7	50-150	30	03/22/2024 1940
8:2 FTS	ND	2.2	2.8		1	129	23	50-150	30	03/22/2024 1940
6:2 FTS	ND	2.1	2.9		1	133	4.0	50-150	30	03/22/2024 1940
10:2 FTS	ND	2.2	2.5		1	114	12	50-150	30	03/22/2024 1940
4:2 FTS	ND	2.1	2.4		1	112	22	50-150	30	03/22/2024 1940
GenX	ND	4.5	5.5		1	121	0.30	50-150	30	03/22/2024 1940
ADONA	ND	2.1	2.8		1	132	10	50-150	30	03/22/2024 1940
EtFOSA	ND	2.3	3.1		1	139	14	50-150	30	03/22/2024 1940
EtFOSAA	ND	2.3	2.4		1	108	9.5	50-150	30	03/22/2024 1940
EtFOSE	ND	2.3	3.1		1	139	7.1	50-150	30	03/22/2024 1940
MeFOSA	ND	2.3	2.5		1	110	11	50-150	30	03/22/2024 1940
MeFOSAA	ND	2.3	2.9		1	129	1.2	50-150	30	03/22/2024 1940
MeFOSE	ND	2.3	2.5		1	112	8.8	50-150	30	03/22/2024 1940
PFBS	ND	2.0	2.4		1	119	8.7	50-150	30	03/22/2024 1940
PFDS	ND	2.2	2.9		1	135	10	50-150	30	03/22/2024 1940
PFHpS	ND	2.2	2.9		1	133	4.0	50-150	30	03/22/2024 1940
PFNS	ND	2.2	3.2		1	149	13	50-150	30	03/22/2024 1940
PFOSA	ND	2.3	2.7		1	118	11	50-150	30	03/22/2024 1940
PFPeS	ND	2.1	2.6		1	125	3.1	50-150	30	03/22/2024 1940
PFDOS	ND	2.2	2.8		1	126	5.8	50-150	30	03/22/2024 1940
PFHxS	1.1	2.1	3.4		1	116	6.9	50-150	30	03/22/2024 1940
PFBA	ND	2.3	2.6		1	116	3.7	50-150	30	03/22/2024 1940
PFDA	ND	2.3	3.0		1	131	3.4	50-150	30	03/22/2024 1940
PFDoA	ND	2.3	2.8		1	124	16	50-150	30	03/22/2024 1940
PFHpA	ND	2.3	2.8		1	123	1.0	50-150	30	03/22/2024 1940
PFHxDA	ND	2.3	2.6		1	117	8.7	50-150	30	03/22/2024 1940
PFHxA	ND	2.3	3.1		1	135	11	50-150	30	03/22/2024 1940
PFNA	ND	2.3	3.0		1	133	0.32	50-150	30	03/22/2024 1940
PFODA	ND	2.3	2.7		1	121	4.8	50-150	30	03/22/2024 1940
PFOA	0.42	2.3	3.0		1	113	2.6	50-150	30	03/22/2024 1940
PFPeA	ND	2.3	2.9		1	128	1.9	50-150	30	03/22/2024 1940
PFTeDA	ND	2.3	2.6		1	117	5.1	50-150	30	03/22/2024 1940
PFTrDA	ND	2.3	2.8		1	124	9.5	50-150	30	03/22/2024 1940
PFUdA	ND	2.3	2.6		1	116	8.6	50-150	30	03/22/2024 1940
PFOS	1.8	2.1	6.6	N	1	233	12	50-150	30	03/22/2024 1940

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		129	25-150
13C2_6:2FTS		105	25-150
13C2_8:2FTS		104	25-150
13C2_PFDoA		105	25-150
13C2_PFHxDA		106	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MSD

Sample ID: ZB27002-001MD
Batch: 98668
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 03/21/2024 2030

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		121	25-150
13C3_PFBS		103	25-150
13C3_PFHxS		95	25-150
13C3-HFPO-DA		101	25-150
13C4_PFBA		99	25-150
13C4_PFHpA		97	25-150
13C5_PFHxA		94	25-150
13C5_PFPeA		92	25-150
13C6_PFDA		98	25-150
13C7_PFUdA		104	25-150
13C8_PFOA		101	25-150
13C8_PFOS		87	25-150
13C8_PFOSA		91	10-150
13C9_PFNA		106	25-150
d-EtFOSA		93	10-150
d5-EtFOSAA		124	25-150
d9-EtFOSE		93	10-150
d-MeFOSA		87	10-150
d3-MeFOSAA		110	25-150
d7-MeFOSE		104	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents

Pace Analytical®

PACE ANALYTICAL SERVICES, LLC
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.pacelabs.com

Number 156383

Client: ATC	Report to Contact: LARRY GEORGE	Telephone No. / E-mail: LARRY.GEORGE@ONEATLAS.COM	Quote No.
Address: 2725 E MILLBROOK RD, SUITE 121	Sampler's Signature:	Analysis (Attach list if more space is needed)	Page 1 of 1
City: RALEIGH / State: NC / Zip Code: 27604	Printed Name: LAURA DESOUSA		
Project Name: GAITHER TRANSOM PROPERTY			
Project No.: 1HSB050P01	P.O. No.		

Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Grab G / Composite C	Matrix: Air / Water / Soil / Other	No. of Containers by Preservative Type: Unpres. / H2SO4 / HNO3 / HCl / NaOH / Na2S2O3 / Methanol	PFAS 537.1	Remarks / Cooler I.D.
SGP-SOIL	2/22/24	1530	C	Soil		X	
TMW-1	2/22/24	1255	G	Water		X	
TMW-2	2/22/24	1500	G	Water		X	
EQUIP-BLANK-2	2/22/24	1505	G	Water		X	
DUP-A	2/22/24	1255	G	Water		X	

ZB27002
JSH

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☐ Standard ☐ Rush (Specify)

Sample Disposal ☐ Return to Client ☐ Disposal by Lab

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

		Date	Time		Date	Time
1. Relinquished by	ATC	2/22/24	2030	1. Received by: MIKE WOODS (PACE)	2/26/24	1155
2. Relinquished by	MIKE WOODS (PACE)	2/26/24	1245	2. Received by		
3. Relinquished by				3. Received by		
4. Relinquished by	Fedex	2.27.24	850	4. Laboratory received by	2.27.24	850

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Circle) (Yes) No Ice Pack — Receipt Temp +1 °C — Temp Blank ☐ Y ☑ N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: MF009N2-01

PACE ANALYTICAL SERVICES, LLC

DC#_Title: ENV-FRM-WCOL-0286 v02_Samples Receipt Checklist (SRC)
Effective Date: 8/2/2022

Sample Receipt Checklist (SRC)

Client: ATC Cooler Inspected by/date: KDRW / 02/27/2024 Lot #: ZB27002

Means of receipt: ☐ Pace ☐ Client ☐ UPS ☑ FedEx ☐ Other:

☐ Yes	☑ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☑ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: _____ Chlorine Strip ID: NA Tested by: NA 1600 2.27.24

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA2323

1.1 / 1.1 °C NA / NA °C NA / NA °C NA / NA °C

Method: ☐ Temperature Blank ☑ Against Bottles IR Gun ID: 8 IR Gun Correction Factor: 0 °C

Method of coolant: ☑ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☑ Yes	☐ No	☐ NA	3. Were all coolers received at or below 6.0°C? If no, was Project Manager notified? PM was Notified by: phone / email / face-to-face (circle one).
☑ Yes	☐ No	☐ NA	4. Is the commercial courier's packing slip attached to this form?
☑ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
☑ Yes	☐ No		6. Were sample IDs listed on the COC and all sample containers?
☑ Yes	☐ No		7. Was collection date & time listed on the COC and all sample containers?
☑ Yes	☐ No		8. Did all container label information (ID, date, time) agree with the COC?
☑ Yes	☐ No		9. Were tests to be performed listed on the COC?
☑ Yes	☐ No		10. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
☑ Yes	☐ No		11. Was adequate sample volume available?
☑ Yes	☐ No		12. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☑ Yes	☐ No		13. Were all samples containers accounted for? (No missing/excess)
☑ Yes	☐ No	☐ NA	14. Were VOA, 8015C and RSK-175 samples free of bubbles >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	15. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	16. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	17. Were all applicable NH_3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☑ No	☐ NA	18. Was the quote number listed on the container label? If yes, Quote #

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA. ☐
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is *no*) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Unique ID: NA.

Comments:

Qualtrax ID: 56360

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3/14/2024
Mr. Larry George
ATC Associates
2725 East Millbrook Road
Suite 121
Raleigh NC 27604

Project Name: Gaither Transou Prop
Project #: IHSB050P01
Workorder #: 2402575

Dear Mr. Larry George

The following report includes the data for the above referenced project for sample(s) received on 2/26/2024 at Eurofins Air Toxics LLC.

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

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

Regards,

Brian Whittaker

Project Manager

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WORK ORDER #: 2402575

Work Order Summary

CLIENT:	Mr. Larry George ATLAS (Formerly ATC Associates) 2725 East Millbrook Road Suite 121 Raleigh, NC 27604	**BILL TO:**	Mr. Larry George ATLAS (Formerly ATC Associates) 2725 East Millbrook Road Suite 121 Raleigh, NC 27604
PHONE:	(919) 871-0999	**P.O. #**	
FAX:	(919) 871-0335	**PROJECT #**	IHSB050P01 Gaither Transou Prop
DATE RECEIVED:	02/26/2024	**CONTACT:**	Brian Whittaker
DATE COMPLETED:	03/13/2024		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SGP-2	TO-15	2.8 "Hg	9.9 psi
02A	SGP-3	TO-15	2.8 "Hg	9.9 psi
03A	Lab Blank	TO-15	NA	NA
04A	CCV	TO-15	NA	NA
05A	LCS	TO-15	NA	NA
05AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 03/13/24

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA ELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

LABORATORY NARRATIVE
EPA Method TO-15
ATC Associates
Workorder# 2402575

Two 1 Liter Summa Canister samples were received on February 26, 2024. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

The Chain of Custody contained incorrect method information. The laboratory proceeded with the analysis as per the original contract or verbal agreement.

Samples SGP-2 and SGP-3 were placed on hold per the client's request.

Samples SGP-2 and SGP-3 were removed from "Hold" and placed on "Active" status per client request on 3/12/24.

Analytical Notes

Total Xylenes concentration is calculated by summing the individual concentrations of m,p-Xylene and O-Xylene.

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

CN - See Case Narrative.

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

as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

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

Client Sample ID: SGP-2

Lab ID#: 2402575-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethyl Benzene	0.92	2.4	4.0	10
Toluene	1.8	7.2	6.9	27
o-Xylene	0.92	1.9	4.0	8.2
m,p-Xylene	1.8	10	8.0	46
Total Xylene	2.8	12	12	52

Client Sample ID: SGP-3

Lab ID#: 2402575-02A

No Detections Were Found.

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Client Sample ID: SGP-2

Lab ID#: 2402575-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p031222**	**Date of Collection:**	**2/22/24 5:10:00 PM**
Dil. Factor:	**1.84**	**Date of Analysis:**	**3/13/24 12:59 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.92	Not Detected	2.9	Not Detected
Chlorobenzene	0.92	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
1,4-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
1,1-Dichloroethane	0.92	Not Detected	3.7	Not Detected
1,1-Dichloroethene	0.92	Not Detected	3.6	Not Detected
cis-1,2-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Ethyl Benzene	0.92	2.4	4.0	10
trans-1,2-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Cumene	0.92	Not Detected	4.5	Not Detected
Tetrachloroethene	0.92	Not Detected	6.2	Not Detected
Toluene	1.8	7.2	6.9	27
Trichloroethene	0.92	Not Detected	4.9	Not Detected
1,2,4-Trichlorobenzene	3.7	Not Detected	27	Not Detected
1,2,3-Trimethylbenzene	3.7	Not Detected	18	Not Detected
1,3,5-Trimethylbenzene	0.92	Not Detected	4.5	Not Detected
o-Xylene	0.92	1.9	4.0	8.2
m,p-Xylene	1.8	10	8.0	46
Total Xylene	2.8	12	12	52
Vinyl Chloride	0.92	Not Detected	2.4	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	116	70-130

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Client Sample ID: SGP-3

Lab ID#: 2402575-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p031223**	**Date of Collection:**	**2/22/24 5:27:00 PM**
Dil. Factor:	**1.84**	**Date of Analysis:**	**3/13/24 01:31 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.92	Not Detected	2.9	Not Detected
Chlorobenzene	0.92	Not Detected	4.2	Not Detected
1,2-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
1,4-Dichlorobenzene	0.92	Not Detected	5.5	Not Detected
1,1-Dichloroethane	0.92	Not Detected	3.7	Not Detected
1,1-Dichloroethene	0.92	Not Detected	3.6	Not Detected
cis-1,2-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Ethyl Benzene	0.92	Not Detected	4.0	Not Detected
trans-1,2-Dichloroethene	0.92	Not Detected	3.6	Not Detected
Cumene	0.92	Not Detected	4.5	Not Detected
Tetrachloroethene	0.92	Not Detected	6.2	Not Detected
Toluene	1.8	Not Detected	6.9	Not Detected
Trichloroethene	0.92	Not Detected	4.9	Not Detected
1,2,4-Trichlorobenzene	3.7	Not Detected	27	Not Detected
1,2,3-Trimethylbenzene	3.7	Not Detected	18	Not Detected
1,3,5-Trimethylbenzene	0.92	Not Detected	4.5	Not Detected
o-Xylene	0.92	Not Detected	4.0	Not Detected
m,p-Xylene	1.8	Not Detected	8.0	Not Detected
Total Xylene	2.8	Not Detected	12	Not Detected
Vinyl Chloride	0.92	Not Detected	2.4	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	113	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2402575-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p031207c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/12/24 02:09 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.50	Not Detected	1.6	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
1,2,3-Trimethylbenzene	2.0	Not Detected	9.8	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	1.0	Not Detected	4.3	Not Detected
Total Xylene	1.5	Not Detected	6.5	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: CCV

Lab ID#: 2402575-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p031203**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 3/12/24 11:14 AM**

Compound	%Recovery
Benzene	99
Chlorobenzene	97
1,2-Dichlorobenzene	108
1,4-Dichlorobenzene	106
1,1-Dichloroethane	85
1,1-Dichloroethene	76
cis-1,2-Dichloroethene	81
Ethyl Benzene	88
trans-1,2-Dichloroethene	79
Cumene	85
Tetrachloroethene	110
Toluene	101
Trichloroethene	100
1,2,4-Trichlorobenzene	100
1,2,3-Trimethylbenzene	91
1,3,5-Trimethylbenzene	98
o-Xylene	86
m,p-Xylene	93
Total Xylene	89
Vinyl Chloride	85

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	107	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	125	70-130

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Client Sample ID: LCS

Lab ID#: 2402575-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p031204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/12/24 11:44 AM**	

Compound	%Recovery	Method Limits
Benzene	98	70-130
Chlorobenzene	97	70-130
1,2-Dichlorobenzene	106	70-130
1,4-Dichlorobenzene	104	70-130
1,1-Dichloroethane	90	70-130
1,1-Dichloroethene	76	70-130
cis-1,2-Dichloroethene	84	70-130
Ethyl Benzene	90	70-130
trans-1,2-Dichloroethene	83	70-130
Cumene	85	70-130
Tetrachloroethene	109	70-130
Toluene	99	70-130
Trichloroethene	101	70-130
1,2,4-Trichlorobenzene	103	70-130
1,2,3-Trimethylbenzene	Not Spiked	
1,3,5-Trimethylbenzene	99	70-130
o-Xylene	87	70-130
m,p-Xylene	92	70-130
Total Xylene	89	70-130
Vinyl Chloride	90	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	122	70-130

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Client Sample ID: LCSD

Lab ID#: 2402575-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p031205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/12/24 12:13 PM**	

Compound	%Recovery	Method Limits
Benzene	97	70-130
Chlorobenzene	96	70-130
1,2-Dichlorobenzene	104	70-130
1,4-Dichlorobenzene	104	70-130
1,1-Dichloroethane	88	70-130
1,1-Dichloroethene	76	70-130
cis-1,2-Dichloroethene	83	70-130
Ethyl Benzene	90	70-130
trans-1,2-Dichloroethene	80	70-130
Cumene	85	70-130
Tetrachloroethene	108	70-130
Toluene	96	70-130
Trichloroethene	100	70-130
1,2,4-Trichlorobenzene	107	70-130
1,2,3-Trimethylbenzene	Not Spiked	
1,3,5-Trimethylbenzene	99	70-130
o-Xylene	87	70-130
m,p-Xylene	91	70-130
Total Xylene	89	70-130
Vinyl Chloride	86	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	122	70-130

Analysis Request / Canister Chain of Custody

eurofins | Air Toxics
Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2402575

Instructions

page 1 of 1

Client: ATC
Site Name: GAITHER TRANSOU PROP
Project Manager: LARRY GEORGE
Sampler: L. DESOUSA

Project Name: GAITHER TRANSOU PROP
Project #: 1HSB050P01
PO#:

Turnaround Time (Specify Below)
Standard _____ Rush _____ (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days:

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information		Stop Sampling Information		Requested Analyses	Canister Vacuum/Pressure		Lab Use Only	
				Date	Time	Date	Time	TO-15 Low LEVEL	Initial (in "Hg)	Final (in "Hg)	Receipt (in "Hg)	Final (in psi) Gas: N2 / He
01A	SGP-2	IL2112	23383	2/22/24	1700	2/22/24	1710		27.5	3.0		
02A	SGP-3	IL2979	23830	2/22/24	1718	2/22/24	1727		27.5	3.0		

Special Instructions/Notes:
* CONFIRM ANALYSIS WITH LARRY GEORGE

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
	2/22/24	2030	EATL	2.26.24	0847
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fed Ex | Custody Seals Intact? Yes No None | Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

Beacon Environmental
526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

CERTIFICATE OF ANALYSIS

Beacon Proposal No.: 230920R07

Laboratory Work Order: 0007609

Project Description:
Gaither Transou Property
Jamestown, NC

Prepared for:
Larry George
ATC Group Services
2725 E. Millbrook Road, Suite 121
Raleigh, NC 27604

Ryan W. Schneider
Senior Project Manager

March 22, 2024

All data meet requirements as specified in the Beacon Environmental Quality Assurance Project Plan and the results relate only to the samples reported. The work performed was in accordance with ISO/IEC 17025:2017, except compounds reported with ∉ are not included in Beacon's scope of accreditation. This report shall not be reproduced, except in full, without written approval of the laboratory. Release of the data contained in this data package has been authorized by the Laboratory Director or his signee, as verified by the following signatures:

Steven C. Thornley
Laboratory Director

Peter B. Kelly
Quality Manager

Table of Contents

BEACON ENVIRONMENTAL

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CERTIFICATE OF ANALYSIS

ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Sample Summary

Lab Sample ID	Client Sample ID	Received	Analysis	Matrix
0007609-01	Trip-1	03/13/2024	EPA 8260C	Air
Sampler Type:	Beacon Passive Sampler			
0007609-02	PSG-1	03/13/2024	EPA 8260C	Soil Gas
Sampler Type:	Beacon Passive Sampler			
0007609-03	Dup-B	03/13/2024	EPA 8260C	Soil Gas
Sampler Type:	Beacon Passive Sampler			

Project Completeness

Samples Received: 3
Samples Analyzed: 3

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Case Narrative

U.S. EPA Method 8260C

All samples were analyzed using thermal desorption-gas chromatography/mass spectrometry (TD-GC/MS) instrumentation following U.S. EPA Method 8260C, with laboratory results provided in nanograms (ng) and micrograms per cubic meter ($\mu g/m^3$). Laboratory QA/QC procedures included internal standards, surrogates, and blanks based on EPA Method 8260C. Analyses and reporting were under BEACON's Quality Assurance Project Plan.

Passive Soil-Gas Survey Notes

If sample locations are covered with or near the edge of an impervious surface (*e.g.*, asphalt or concrete), the concentrations of compounds in soil gas are higher than if the surfacing was not present. Therefore, the sample location conditions should be considered when comparing results between locations.

Survey findings are exclusive to this project and when the spatial relationships are compared with results of other BEACON Surveys it is necessary to incorporate information from both investigations (*e.g.*, depth to sources, soil types, porosity, soil moisture, presence of impervious surfacing, sample collection times).

Reporting Limits

The RLs represent a baseline above which results meet laboratory-determined limits of precision and accuracy. All reported results are within the calibration range. The project method quantitation limit (MQL) is the limit of quantitation (LOQ) as noted in the data tables. Beacon determined uptake rates for a suite of compounds with the Beacon sampler for sampling in air. Beacon calculated the uptake rates for the remaining compounds using Graham's Law of Diffusion. The reported data includes LOQ limits.

Project Details

Samples were received in proper condition and laboratory control parameters were met unless otherwise noted below. The work performed was in accordance with ISO/IEC 17025:2017, except compounds reported with ∉ are not included in Beacon's scope of accreditation. Some closing QC checks were analyzed out of tune time but all samples were analyzed within tune time.

End of Case Narrative

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Analytical Results

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Summary of Compound Detections- Mass

Lab Sample ID: 0007609-02 — **PSG-1** — Soil Gas — Method: EPA 8260C

Analyte	CAS#	Result (ng)	Q	RT	LOQ (ng)	File ID
Ethylbenzene	100-41-4	**28**		9.001	25	Kb24031422.D
p & m-Xylene	179601-23-1	**129**		9.112	25	Kb24031422.D
o-Xylene	95-47-6	**45**		9.410	25	Kb24031422.D

Lab Sample ID: 0007609-03 — **Dup-B** — Soil Gas — Method: EPA 8260C

Analyte	CAS#	Result (ng)	Q	RT	LOQ (ng)	File ID
Ethylbenzene	100-41-4	**30**		9.004	25	Kb24031423.D
p & m-Xylene	179601-23-1	**139**		9.112	25	Kb24031423.D
o-Xylene	95-47-6	**49**		9.410	25	Kb24031423.D

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Summary of Compound Detections- Concentration

Lab Sample ID: 0007609-02 — **PSG-1** — Soil Gas — Method: EPA 8260C

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	File ID
Ethylbenzene	100-41-4	**1.29**		9.001	1.15	Kb24031422.D
p & m-Xylene	179601-23-1	**5.74**		9.112	1.11	Kb24031422.D
o-Xylene	95-47-6	**2.01**		9.410	1.11	Kb24031422.D

Lab Sample ID: 0007609-03 — **Dup-B** — Soil Gas — Method: EPA 8260C

Analyte	CAS#	Result (µg/m³)	Q	RT	LOQ (µg/m³)	File ID
Ethylbenzene	100-41-4	**1.37**		9.004	1.15	Kb24031423.D
p & m-Xylene	179601-23-1	**6.15**		9.112	1.11	Kb24031423.D
o-Xylene	95-47-6	**2.15**		9.410	1.11	Kb24031423.D

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Data Summary Table- Mass

Compound	Frequency	LOQ (ng)	Max Value (ng)
Ethylbenzene	1	25	28
p & m-Xylene	1	25	129
o-Xylene	1	25	45
Total Xylenes	1	25	175

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Data Summary Table- Concentration

Compound	Frequency	LOQ (µg/m³)	Max Value (µg/m³)
Ethylbenzene	1	1.15	1.29
p & m-Xylene	1	1.11	5.74
o-Xylene	1	1.11	2.01
Total Xylenes	1	1.11	7.75

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
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Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Detailed Analytical Results

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Detailed Analytical Results- Mass

BEACON ENVIRONMENTAL

526 Underwood Lane
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CERTIFICATE OF ANALYSIS

ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Lab Sample ID: 0007609-01

Trip-1

Air

Method: EPA 8260C

Analyte	CAS#	Result (ng)	Q	LOQ (ng)	Analyzed	File ID
Vinyl Chloride	75-01-4	<10		10	03/14/2024 14:30	Kb24031405.D
1,1-Dichloroethene	75-35-4	<10		10	03/14/2024 14:30	Kb24031405.D
trans-1,2-Dichloroethene	156-60-5	<10		10	03/14/2024 14:30	Kb24031405.D
1,1-Dichloroethane	75-34-3	<10		10	03/14/2024 14:30	Kb24031405.D
cis-1,2-Dichloroethene	156-59-2	<10		10	03/14/2024 14:30	Kb24031405.D
Benzene	71-43-2	<25		25	03/14/2024 14:30	Kb24031405.D
Trichloroethene	79-01-6	<10		10	03/14/2024 14:30	Kb24031405.D
Toluene	108-88-3	<25		25	03/14/2024 14:30	Kb24031405.D
Tetrachloroethene	127-18-4	<10		10	03/14/2024 14:30	Kb24031405.D
Chlorobenzene	108-90-7	<10		10	03/14/2024 14:30	Kb24031405.D
Ethylbenzene	100-41-4	<25		25	03/14/2024 14:30	Kb24031405.D
p & m-Xylene	179601-23-1	<25		25	03/14/2024 14:30	Kb24031405.D
o-Xylene	95-47-6	<25		25	03/14/2024 14:30	Kb24031405.D
Isopropylbenzene	98-82-8	<25		25	03/14/2024 14:30	Kb24031405.D
1,3,5-Trimethylbenzene	108-67-8	<25		25	03/14/2024 14:30	Kb24031405.D
1,2,4-Trimethylbenzene	95-63-6	<25		25	03/14/2024 14:30	Kb24031405.D
1,4-Dichlorobenzene	106-46-7	<10		10	03/14/2024 14:30	Kb24031405.D
1,2-Dichlorobenzene	95-50-1	<10		10	03/14/2024 14:30	Kb24031405.D
∉ Total Xylenes	1330-20-7	<25.0		25.0	03/14/2024 14:30	

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*109%*	*70-130*		*03/14/2024 14:30*	*Kb24031405.D*
Surrogate: Toluene-d8	2037-26-5	*95.7%*	*70-130*		*03/14/2024 14:30*	*Kb24031405.D*
Surrogate: Bromofluorobenzene	460-00-4	*89.9%*	*70-130*		*03/14/2024 14:30*	*Kb24031405.D*

BEACON ENVIRONMENTAL

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CERTIFICATE OF ANALYSIS

ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Lab Sample ID: 0007609-02

PSG-1

Soil Gas

Method: EPA 8260C

Analyte	CAS#	Result (ng)	Q	LOQ (ng)	Analyzed	File ID
Vinyl Chloride	75-01-4	<10		10	03/14/2024 22:31	Kb24031422.D
1,1-Dichloroethene	75-35-4	<10		10	03/14/2024 22:31	Kb24031422.D
trans-1,2-Dichloroethene	156-60-5	<10		10	03/14/2024 22:31	Kb24031422.D
1,1-Dichloroethane	75-34-3	<10		10	03/14/2024 22:31	Kb24031422.D
cis-1,2-Dichloroethene	156-59-2	<10		10	03/14/2024 22:31	Kb24031422.D
Benzene	71-43-2	<25		25	03/14/2024 22:31	Kb24031422.D
Trichloroethene	79-01-6	<10		10	03/14/2024 22:31	Kb24031422.D
Toluene	108-88-3	<25		25	03/14/2024 22:31	Kb24031422.D
Tetrachloroethene	127-18-4	<10		10	03/14/2024 22:31	Kb24031422.D
Chlorobenzene	108-90-7	<10		10	03/14/2024 22:31	Kb24031422.D
Ethylbenzene	100-41-4	**28**		25	03/14/2024 22:31	Kb24031422.D
p & m-Xylene	179601-23-1	**129**		25	03/14/2024 22:31	Kb24031422.D
o-Xylene	95-47-6	**45**		25	03/14/2024 22:31	Kb24031422.D
Isopropylbenzene	98-82-8	<25		25	03/14/2024 22:31	Kb24031422.D
1,3,5-Trimethylbenzene	108-67-8	<25		25	03/14/2024 22:31	Kb24031422.D
1,2,4-Trimethylbenzene	95-63-6	<25		25	03/14/2024 22:31	Kb24031422.D
1,4-Dichlorobenzene	106-46-7	<10		10	03/14/2024 22:31	Kb24031422.D
1,2-Dichlorobenzene	95-50-1	<10		10	03/14/2024 22:31	Kb24031422.D
∉ **Total Xylenes**	1330-20-7	**175**		25.0	03/14/2024 22:31	

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*92.4%*	*70-130*		*03/14/2024 22:31*	*Kb24031422.D*
Surrogate: Toluene-d8	2037-26-5	*90.4%*	*70-130*		*03/14/2024 22:31*	*Kb24031422.D*
Surrogate: Bromofluorobenzene	460-00-4	*95.0%*	*70-130*		*03/14/2024 22:31*	*Kb24031422.D*

BEACON ENVIRONMENTAL

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CERTIFICATE OF ANALYSIS

ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Lab Sample ID: 0007609-03

Dup-B

Soil Gas

Method: EPA 8260C

Analyte	CAS#	Result (ng)	Q	LOQ (ng)	Analyzed	File ID
Vinyl Chloride	75-01-4	<10		10	03/14/2024 22:59	Kb24031423.D
1,1-Dichloroethene	75-35-4	<10		10	03/14/2024 22:59	Kb24031423.D
trans-1,2-Dichloroethene	156-60-5	<10		10	03/14/2024 22:59	Kb24031423.D
1,1-Dichloroethane	75-34-3	<10		10	03/14/2024 22:59	Kb24031423.D
cis-1,2-Dichloroethene	156-59-2	<10		10	03/14/2024 22:59	Kb24031423.D
Benzene	71-43-2	<25		25	03/14/2024 22:59	Kb24031423.D
Trichloroethene	79-01-6	<10		10	03/14/2024 22:59	Kb24031423.D
Toluene	108-88-3	<25		25	03/14/2024 22:59	Kb24031423.D
Tetrachloroethene	127-18-4	<10		10	03/14/2024 22:59	Kb24031423.D
Chlorobenzene	108-90-7	<10		10	03/14/2024 22:59	Kb24031423.D
Ethylbenzene	100-41-4	**30**		25	03/14/2024 22:59	Kb24031423.D
p & m-Xylene	179601-23-1	**139**		25	03/14/2024 22:59	Kb24031423.D
o-Xylene	95-47-6	**49**		25	03/14/2024 22:59	Kb24031423.D
Isopropylbenzene	98-82-8	<25		25	03/14/2024 22:59	Kb24031423.D
1,3,5-Trimethylbenzene	108-67-8	<25		25	03/14/2024 22:59	Kb24031423.D
1,2,4-Trimethylbenzene	95-63-6	<25		25	03/14/2024 22:59	Kb24031423.D
1,4-Dichlorobenzene	106-46-7	<10		10	03/14/2024 22:59	Kb24031423.D
1,2-Dichlorobenzene	95-50-1	<10		10	03/14/2024 22:59	Kb24031423.D
∉ **Total Xylenes**	1330-20-7	**187**		25.0	03/14/2024 22:59	

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*79.5%*	*70-130*		*03/14/2024 22:59*	*Kb24031423.D*
Surrogate: Toluene-d8	2037-26-5	*91.9%*	*70-130*		*03/14/2024 22:59*	*Kb24031423.D*
Surrogate: Bromofluorobenzene	460-00-4	*93.7%*	*70-130*		*03/14/2024 22:59*	*Kb24031423.D*

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Detailed Analytical Results- Concentration

BEACON ENVIRONMENTAL

526 Underwood Lane
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CERTIFICATE OF ANALYSIS

ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Lab Sample ID: 0007609-01

Trip-1

Air

Method: EPA 8260C

Analyte	CAS#	Result (µg/m³)	Q	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.48		0.48	03/14/2024 14:30	Kb24031405.D
1,1-Dichloroethene	75-35-4	<1.18		1.18	03/14/2024 14:30	Kb24031405.D
trans-1,2-Dichloroethene	156-60-5	<0.89		0.89	03/14/2024 14:30	Kb24031405.D
1,1-Dichloroethane	75-34-3	<0.46		0.46	03/14/2024 14:30	Kb24031405.D
cis-1,2-Dichloroethene	156-59-2	<0.74		0.74	03/14/2024 14:30	Kb24031405.D
Benzene	71-43-2	<1.84		1.84	03/14/2024 14:30	Kb24031405.D
Trichloroethene	79-01-6	<1.18		1.18	03/14/2024 14:30	Kb24031405.D
Toluene	108-88-3	<2.44		2.44	03/14/2024 14:30	Kb24031405.D
Tetrachloroethene	127-18-4	<0.95		0.95	03/14/2024 14:30	Kb24031405.D
Chlorobenzene	108-90-7	<0.46		0.46	03/14/2024 14:30	Kb24031405.D
Ethylbenzene	100-41-4	<1.15		1.15	03/14/2024 14:30	Kb24031405.D
p & m-Xylene	179601-23-1	<1.11		1.11	03/14/2024 14:30	Kb24031405.D
o-Xylene	95-47-6	<1.11		1.11	03/14/2024 14:30	Kb24031405.D
Isopropylbenzene	98-82-8	<1.18		1.18	03/14/2024 14:30	Kb24031405.D
1,3,5-Trimethylbenzene	108-67-8	<1.18		1.18	03/14/2024 14:30	Kb24031405.D
1,2,4-Trimethylbenzene	95-63-6	<1.18		1.18	03/14/2024 14:30	Kb24031405.D
1,4-Dichlorobenzene	106-46-7	<0.52		0.52	03/14/2024 14:30	Kb24031405.D
1,2-Dichlorobenzene	95-50-1	<0.52		0.52	03/14/2024 14:30	Kb24031405.D
∉ Total Xylenes	1330-20-7	<1.11		1.11	03/14/2024 14:30	

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*109%*	*70-130*		*03/14/2024 14:30*	*Kb24031405.D*
Surrogate: Toluene-d8	2037-26-5	*95.7%*	*70-130*		*03/14/2024 14:30*	*Kb24031405.D*
Surrogate: Bromofluorobenzene	460-00-4	*89.9%*	*70-130*		*03/14/2024 14:30*	*Kb24031405.D*

BEACON ENVIRONMENTAL

526 Underwood Lane
Bel Air, MD 21014 USA
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CERTIFICATE OF ANALYSIS

ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Lab Sample ID: 0007609-02

PSG-1

Soil Gas

Method: EPA 8260C

Analyte	CAS#	Result (µg/m³)	Q	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.48		0.48	03/14/2024 22:31	Kb24031422.D
1,1-Dichloroethene	75-35-4	<1.18		1.18	03/14/2024 22:31	Kb24031422.D
trans-1,2-Dichloroethene	156-60-5	<0.89		0.89	03/14/2024 22:31	Kb24031422.D
1,1-Dichloroethane	75-34-3	<0.46		0.46	03/14/2024 22:31	Kb24031422.D
cis-1,2-Dichloroethene	156-59-2	<0.74		0.74	03/14/2024 22:31	Kb24031422.D
Benzene	71-43-2	<1.84		1.84	03/14/2024 22:31	Kb24031422.D
Trichloroethene	79-01-6	<1.18		1.18	03/14/2024 22:31	Kb24031422.D
Toluene	108-88-3	<2.44		2.44	03/14/2024 22:31	Kb24031422.D
Tetrachloroethene	127-18-4	<0.95		0.95	03/14/2024 22:31	Kb24031422.D
Chlorobenzene	108-90-7	<0.46		0.46	03/14/2024 22:31	Kb24031422.D
Ethylbenzene	100-41-4	**1.29**		1.15	03/14/2024 22:31	Kb24031422.D
p & m-Xylene	179601-23-1	**5.74**		1.11	03/14/2024 22:31	Kb24031422.D
o-Xylene	95-47-6	**2.01**		1.11	03/14/2024 22:31	Kb24031422.D
Isopropylbenzene	98-82-8	<1.18		1.18	03/14/2024 22:31	Kb24031422.D
1,3,5-Trimethylbenzene	108-67-8	<1.18		1.18	03/14/2024 22:31	Kb24031422.D
1,2,4-Trimethylbenzene	95-63-6	<1.18		1.18	03/14/2024 22:31	Kb24031422.D
1,4-Dichlorobenzene	106-46-7	<0.52		0.52	03/14/2024 22:31	Kb24031422.D
1,2-Dichlorobenzene	95-50-1	<0.52		0.52	03/14/2024 22:31	Kb24031422.D
∉ **Total Xylenes**	1330-20-7	**7.75**		1.11	03/14/2024 22:31	

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*92.4%*	*70-130*		*03/14/2024 22:31*	*Kb24031422.D*
Surrogate: Toluene-d8	2037-26-5	*90.4%*	*70-130*		*03/14/2024 22:31*	*Kb24031422.D*
Surrogate: Bromofluorobenzene	460-00-4	*95.0%*	*70-130*		*03/14/2024 22:31*	*Kb24031422.D*

BEACON ENVIRONMENTAL

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CERTIFICATE OF ANALYSIS

ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Lab Sample ID: 0007609-03

Dup-B

Soil Gas

Method: EPA 8260C

Analyte	CAS#	Result (µg/m³)	Q	LOQ (µg/m³)	Analyzed	File ID
Vinyl Chloride	75-01-4	<0.48		0.48	03/14/2024 22:59	Kb24031423.D
1,1-Dichloroethene	75-35-4	<1.18		1.18	03/14/2024 22:59	Kb24031423.D
trans-1,2-Dichloroethene	156-60-5	<0.89		0.89	03/14/2024 22:59	Kb24031423.D
1,1-Dichloroethane	75-34-3	<0.46		0.46	03/14/2024 22:59	Kb24031423.D
cis-1,2-Dichloroethene	156-59-2	<0.74		0.74	03/14/2024 22:59	Kb24031423.D
Benzene	71-43-2	<1.84		1.84	03/14/2024 22:59	Kb24031423.D
Trichloroethene	79-01-6	<1.18		1.18	03/14/2024 22:59	Kb24031423.D
Toluene	108-88-3	<2.44		2.44	03/14/2024 22:59	Kb24031423.D
Tetrachloroethene	127-18-4	<0.95		0.95	03/14/2024 22:59	Kb24031423.D
Chlorobenzene	108-90-7	<0.46		0.46	03/14/2024 22:59	Kb24031423.D
Ethylbenzene	100-41-4	**1.37**		1.15	03/14/2024 22:59	Kb24031423.D
p & m-Xylene	179601-23-1	**6.15**		1.11	03/14/2024 22:59	Kb24031423.D
o-Xylene	95-47-6	**2.15**		1.11	03/14/2024 22:59	Kb24031423.D
Isopropylbenzene	98-82-8	<1.18		1.18	03/14/2024 22:59	Kb24031423.D
1,3,5-Trimethylbenzene	108-67-8	<1.18		1.18	03/14/2024 22:59	Kb24031423.D
1,2,4-Trimethylbenzene	95-63-6	<1.18		1.18	03/14/2024 22:59	Kb24031423.D
1,4-Dichlorobenzene	106-46-7	<0.52		0.52	03/14/2024 22:59	Kb24031423.D
1,2-Dichlorobenzene	95-50-1	<0.52		0.52	03/14/2024 22:59	Kb24031423.D
∉ **Total Xylenes**	1330-20-7	**8.30**		1.11	03/14/2024 22:59	

Analyte	*CAS#*	*% Recovery*	*Recovery Limits*	*Q*	*Analyzed*	*File ID*
Surrogate: 1,2-DCA-d4	17060-07-0	*79.5%*	*70-130*		*03/14/2024 22:59*	*Kb24031423.D*
Surrogate: Toluene-d8	2037-26-5	*91.9%*	*70-130*		*03/14/2024 22:59*	*Kb24031423.D*
Surrogate: Bromofluorobenzene	460-00-4	*93.7%*	*70-130*		*03/14/2024 22:59*	*Kb24031423.D*

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

QC Information/Summary

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary

Sequence: B24A120 - Instrument: K System - File ID: Kb24013016.D

B24A120-ICV1 (LCSD/Second Source Verification/CALV)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	53.7	10	ng	50.0		107	70-130			
1,1-Dichloroethene	48.8	10	ng	50.0		97.7	70-130			
trans-1,2-Dichloroethene	52.6	10	ng	50.0		105	70-130			
1,1-Dichloroethane	50.8	10	ng	50.0		102	70-130			
cis-1,2-Dichloroethene	50.6	10	ng	50.0		101	70-130			
Benzene	42.7	25	ng	50.0		85.4	70-130			
Trichloroethene	49.6	10	ng	50.0		99.2	70-130			
Toluene	46.1	25	ng	50.0		92.1	70-130			
Tetrachloroethene	46.3	10	ng	50.0		92.5	70-130			
Chlorobenzene	48.7	10	ng	50.0		97.4	70-130			
Ethylbenzene	50.0	25	ng	50.0		100	70-130			
p & m-Xylene	50.3	25	ng	50.0		101	70-130			
o-Xylene	50.0	25	ng	50.0		100	70-130			
Isopropylbenzene	50.1	25	ng	50.0		100	70-130			
1,3,5-Trimethylbenzene	47.2	25	ng	50.0		94.5	70-130			
1,2,4-Trimethylbenzene	42.2	25	ng	50.0		84.3	70-130			
1,4-Dichlorobenzene	49.1	10	ng	50.0		98.3	70-130			
1,2-Dichlorobenzene	50.3	10	ng	50.0		101	70-130			
Surrogate: 1,2-DCA-d4	*51.5*		*ng*	50.0		*103*	*70-130*			
Surrogate: Toluene-d8	*50.1*		*ng*	50.0		*100*	*70-130*			
Surrogate: Bromofluorobenzene	*45.9*		*ng*	50.0		*91.9*	*70-130*			

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary

Sequence: B24A120 - Instrument: K System - File ID: Kb24013020.D

B24A120-ICB1 (Lab Blank/Initial Calibration Blank)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<5	10	ng							U
1,1-Dichloroethene	<5	10	ng							U
trans-1,2-Dichloroethene	<5	10	ng							U
1,1-Dichloroethane	<5	10	ng							U
cis-1,2-Dichloroethene	<5	10	ng							U
Benzene	<10	25	ng							U
Trichloroethene	<5	10	ng							U
Toluene	<10	25	ng							U
Tetrachloroethene	<5	10	ng							U
Chlorobenzene	<5	10	ng							U
Ethylbenzene	<10	25	ng							U
p & m-Xylene	<10	25	ng							U
o-Xylene	<10	25	ng							U
Isopropylbenzene	<10	25	ng							U
1,3,5-Trimethylbenzene	<10	25	ng							U
1,2,4-Trimethylbenzene	<10	25	ng							U
1,4-Dichlorobenzene	<5	10	ng							U
1,2-Dichlorobenzene	<5	10	ng							U
Surrogate: 1,2-DCA-d4	*104*		*ng*	100		*104*	*70-130*			
Surrogate: Toluene-d8	*101*		*ng*	100		*101*	*70-130*			
Surrogate: Bromofluorobenzene	*91.4*		*ng*	100		*91.4*	*70-130*			

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary

Sequence: B24C033 - Batch: 24C0032 - Instrument: K System - File ID: Kb24031402.D

24C0032-BS1 (LCS, Calibration Source Verification)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	52.4	10	ng	50.0		105	80-120			
1,1-Dichloroethene	48.2	10	ng	50.0		96.4	80-120			
trans-1,2-Dichloroethene	54.9	10	ng	50.0		110	80-120			
1,1-Dichloroethane	53.2	10	ng	50.0		106	80-120			
cis-1,2-Dichloroethene	49.1	10	ng	50.0		98.3	80-120			
Benzene	42.2	25	ng	50.0		84.5	80-120			
Trichloroethene	47.5	10	ng	50.0		95.0	80-120			
Toluene	43.3	25	ng	50.0		86.6	80-120			
Tetrachloroethene	43.2	10	ng	50.0		86.4	80-120			
Chlorobenzene	49.2	10	ng	50.0		98.3	80-120			
Ethylbenzene	48.1	25	ng	50.0		96.2	80-120			
p & m-Xylene	47.4	25	ng	50.0		94.9	80-120			
o-Xylene	46.5	25	ng	50.0		93.0	80-120			
Isopropylbenzene	47.5	25	ng	50.0		95.0	80-120			
1,3,5-Trimethylbenzene	44.1	25	ng	50.0		88.2	80-120			
1,2,4-Trimethylbenzene	49.6	25	ng	50.0		99.1	80-120			
1,4-Dichlorobenzene	47.9	10	ng	50.0		95.7	80-120			
1,2-Dichlorobenzene	48.5	10	ng	50.0		97.0	80-120			
Surrogate: 1,2-DCA-d4	*55.0*		*ng*	50.0		*110*	*70-130*			
Surrogate: Toluene-d8	*52.9*		*ng*	50.0		*106*	*70-130*			
Surrogate: Bromofluorobenzene	*45.6*		*ng*	50.0		*91.1*	*70-130*			

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Soil-Gas Analysis by EPA 8260 - Data in Concentration - Quality Control Summary

Sequence: B24C033 - Batch: 24C0032 - Instrument: K System - File ID: Kb24031403.D

24C0032-BLK1 (Lab Blank)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<0.482	0.482	µg/m³							U
1,1-Dichloroethene	<1.18	1.18	µg/m³							U
trans-1,2-Dichloroethene	<0.888	0.888	µg/m³							U
1,1-Dichloroethane	<0.460	0.460	µg/m³							U
cis-1,2-Dichloroethene	<0.737	0.737	µg/m³							U
Benzene	<1.84	1.84	µg/m³							U
Trichloroethene	<1.18	1.18	µg/m³							U
Toluene	<2.44	2.44	µg/m³							U
Tetrachloroethene	<0.953	0.953	µg/m³							U
Chlorobenzene	<0.460	0.460	µg/m³							U
Ethylbenzene	<1.15	1.15	µg/m³							U
p & m-Xylene	<1.11	1.11	µg/m³							U
o-Xylene	<1.11	1.11	µg/m³							U
Isopropylbenzene	<1.18	1.18	µg/m³							U
1,3,5-Trimethylbenzene	<1.18	1.18	µg/m³							U
1,2,4-Trimethylbenzene	<1.18	1.18	µg/m³							U
1,4-Dichlorobenzene	<0.521	0.521	µg/m³							U
1,2-Dichlorobenzene	<0.521	0.521	µg/m³							U
Surrogate: 1,2-DCA-d4	*111*		*ng*	100		*111*	*70-130*			
Surrogate: Toluene-d8	*102*		*ng*	100		*102*	*70-130*			
Surrogate: Bromofluorobenzene	*87.8*		*ng*	100		*87.8*	*70-130*			

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary

Sequence: B24C033 - Batch: 24C0032 - Instrument: K System - File ID: Kb24031403.D

24C0032-BLK1 (Lab Blank)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<5	10	ng							U
1,1-Dichloroethene	<5	10	ng							U
trans-1,2-Dichloroethene	<5	10	ng							U
1,1-Dichloroethane	<5	10	ng							U
cis-1,2-Dichloroethene	<5	10	ng							U
Benzene	<10	25	ng							U
Trichloroethene	<5	10	ng							U
Toluene	<10	25	ng							U
Tetrachloroethene	<5	10	ng							U
Chlorobenzene	<5	10	ng							U
Ethylbenzene	<10	25	ng							U
p & m-Xylene	<10	25	ng							U
o-Xylene	<10	25	ng							U
Isopropylbenzene	<10	25	ng							U
1,3,5-Trimethylbenzene	<10	25	ng							U
1,2,4-Trimethylbenzene	<10	25	ng							U
1,4-Dichlorobenzene	<5	10	ng							U
1,2-Dichlorobenzene	<5	10	ng							U
Surrogate: 1,2-DCA-d4	*111*		*ng*	100		*111*	*70-130*			
Surrogate: Toluene-d8	*102*		*ng*	100		*102*	*70-130*			
Surrogate: Bromofluorobenzene	*87.8*		*ng*	100		*87.8*	*70-130*			

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary

Sequence: B24C033 - Instrument: K System - File ID: Kb24031404.D

B24C033-ICV1 (LCSD/Second Source Verification/CALV)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	59.4	10	ng	50.0		119	70-130			
1,1-Dichloroethene	51.5	10	ng	50.0		103	70-130			
trans-1,2-Dichloroethene	56.2	10	ng	50.0		112	70-130			
1,1-Dichloroethane	53.8	10	ng	50.0		108	70-130			
cis-1,2-Dichloroethene	51.2	10	ng	50.0		102	70-130			
Benzene	45.5	25	ng	50.0		91.0	70-130			
Trichloroethene	48.1	10	ng	50.0		96.1	70-130			
Toluene	44.9	25	ng	50.0		89.8	70-130			
Tetrachloroethene	45.0	10	ng	50.0		89.9	70-130			
Chlorobenzene	50.5	10	ng	50.0		101	70-130			
Ethylbenzene	49.2	25	ng	50.0		98.4	70-130			
p & m-Xylene	48.6	25	ng	50.0		97.2	70-130			
o-Xylene	48.0	25	ng	50.0		96.1	70-130			
Isopropylbenzene	48.4	25	ng	50.0		96.9	70-130			
1,3,5-Trimethylbenzene	44.2	25	ng	50.0		88.4	70-130			
1,2,4-Trimethylbenzene	48.8	25	ng	50.0		97.5	70-130			
1,4-Dichlorobenzene	46.2	10	ng	50.0		92.4	70-130			
1,2-Dichlorobenzene	48.8	10	ng	50.0		97.6	70-130			
Surrogate: 1,2-DCA-d4	*55.6*		*ng*	50.0		*111*	*70-130*			
Surrogate: Toluene-d8	*51.3*		*ng*	50.0		*103*	*70-130*			
Surrogate: Bromofluorobenzene	*44.9*		*ng*	50.0		*89.7*	*70-130*			

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary

Sequence: B24C033 - Instrument: K System - File ID: Kb24031415.D

B24C033-CCV1 (LCS, Closing Calibration Verification)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	51.4	10	ng	50.0		103	50-150			
1,1-Dichloroethene	48.8	10	ng	50.0		97.5	50-150			
trans-1,2-Dichloroethene	53.0	10	ng	50.0		106	50-150			
1,1-Dichloroethane	52.8	10	ng	50.0		106	50-150			
cis-1,2-Dichloroethene	49.6	10	ng	50.0		99.3	50-150			
Benzene	50.6	25	ng	50.0		101	50-150			
Trichloroethene	47.7	10	ng	50.0		95.3	50-150			
Toluene	55.2	25	ng	50.0		110	50-150			
Tetrachloroethene	43.4	10	ng	50.0		86.8	50-150			
Chlorobenzene	47.9	10	ng	50.0		95.9	50-150			
Ethylbenzene	48.0	25	ng	50.0		95.9	50-150			
p & m-Xylene	47.7	25	ng	50.0		95.4	50-150			
o-Xylene	46.2	25	ng	50.0		92.4	50-150			
Isopropylbenzene	47.2	25	ng	50.0		94.5	50-150			
1,3,5-Trimethylbenzene	45.0	25	ng	50.0		89.9	50-150			
1,2,4-Trimethylbenzene	57.1	25	ng	50.0		114	50-150			
1,4-Dichlorobenzene	46.6	10	ng	50.0		93.2	50-150			
1,2-Dichlorobenzene	48.5	10	ng	50.0		97.0	50-150			
Surrogate: 1,2-DCA-d4	*56.5*		*ng*	50.0		*113*	*70-130*			
Surrogate: Toluene-d8	*50.9*		*ng*	50.0		*102*	*50-150*			
Surrogate: Bromofluorobenzene	*44.8*		*ng*	50.0		*89.5*	*50-150*			

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Soil-Gas Analysis by EPA 8260 - Data in Concentration - Quality Control Summary

Sequence: B24C033 - Instrument: K System - File ID: Kb24031416.D

B24C033-CCB1 (Lab Blank)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<5	10	ng							U
1,1-Dichloroethene	<5	10	ng							U
trans-1,2-Dichloroethene	<5	10	ng							U
1,1-Dichloroethane	<5	10	ng							U
cis-1,2-Dichloroethene	<5	10	ng							U
Benzene	<10	25	ng							U
Trichloroethene	<5	10	ng							U
Toluene	<10	25	ng							U
Tetrachloroethene	<5	10	ng							U
Chlorobenzene	<5	10	ng							U
Ethylbenzene	<10	25	ng							U
p & m-Xylene	<10	25	ng							U
o-Xylene	<10	25	ng							U
Isopropylbenzene	<10	25	ng							U
1,3,5-Trimethylbenzene	<10	25	ng							U
1,2,4-Trimethylbenzene	<10	25	ng							U
1,4-Dichlorobenzene	<5	10	ng							U
1,2-Dichlorobenzene	<5	10	ng							U
Surrogate: 1,2-DCA-d4	*110*		*ng*	100		*110*	*70-130*			
Surrogate: Toluene-d8	*98.8*		*ng*	100		*98.8*	*70-130*			
Surrogate: Bromofluorobenzene	*90.3*		*ng*	100		*90.3*	*70-130*			

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary

Sequence: B24C033 - Instrument: K System - File ID: Kb24031416.D

B24C033-CCB1 (Lab Blank)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<5	10	ng							U
1,1-Dichloroethene	<5	10	ng							U
trans-1,2-Dichloroethene	<5	10	ng							U
1,1-Dichloroethane	<5	10	ng							U
cis-1,2-Dichloroethene	<5	10	ng							U
Benzene	<10	25	ng							U
Trichloroethene	<5	10	ng							U
Toluene	<10	25	ng							U
Tetrachloroethene	<5	10	ng							U
Chlorobenzene	<5	10	ng							U
Ethylbenzene	<10	25	ng							U
p & m-Xylene	<10	25	ng							U
o-Xylene	<10	25	ng							U
Isopropylbenzene	<10	25	ng							U
1,3,5-Trimethylbenzene	<10	25	ng							U
1,2,4-Trimethylbenzene	<10	25	ng							U
1,4-Dichlorobenzene	<5	10	ng							U
1,2-Dichlorobenzene	<5	10	ng							U
Surrogate: 1,2-DCA-d4	*110*		*ng*	100		*110*	*70-130*			
Surrogate: Toluene-d8	*98.8*		*ng*	100		*98.8*	*70-130*			
Surrogate: Bromofluorobenzene	*90.3*		*ng*	100		*90.3*	*70-130*			

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Soil-Gas Sample Analysis by EPA Method 8260C - Quality Control Summary

Sequence: B24C033 - Instrument: K System - File ID: Kb24031424.D

B24C033-CCV2 (Continuing Calibration Verification)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	51.7	10	ng	50.0		103	50-150			
1,1-Dichloroethene	46.9	10	ng	50.0		93.7	50-150			
trans-1,2-Dichloroethene	51.8	10	ng	50.0		104	50-150			
1,1-Dichloroethane	51.1	10	ng	50.0		102	50-150			
cis-1,2-Dichloroethene	47.9	10	ng	50.0		95.8	50-150			
Benzene	56.9	25	ng	50.0		114	50-150			
Trichloroethene	46.1	10	ng	50.0		92.2	50-150			
Toluene	41.9	25	ng	50.0		83.8	50-150			
Tetrachloroethene	44.8	10	ng	50.0		89.6	50-150			
Chlorobenzene	49.2	10	ng	50.0		98.5	50-150			
Ethylbenzene	48.9	25	ng	50.0		97.8	50-150			
p & m-Xylene	48.5	25	ng	50.0		97.0	50-150			
o-Xylene	47.1	25	ng	50.0		94.1	50-150			
Isopropylbenzene	48.2	25	ng	50.0		96.5	50-150			
1,3,5-Trimethylbenzene	44.5	25	ng	50.0		88.9	50-150			
1,2,4-Trimethylbenzene	40.6	25	ng	50.0		81.2	50-150			
1,4-Dichlorobenzene	47.1	10	ng	50.0		94.3	50-150			
1,2-Dichlorobenzene	47.8	10	ng	50.0		95.5	50-150			
Surrogate: 1,2-DCA-d4	*53.8*		*ng*	50.0		*108*	*70-130*			
Surrogate: Toluene-d8	*51.3*		*ng*	50.0		*103*	*50-150*			
Surrogate: Bromofluorobenzene	*46.3*		*ng*	50.0		*92.5*	*50-150*			

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Soil-Gas Analysis by EPA 8260 - Data in Concentration - Quality Control Summary

Sequence: B24C033 - Instrument: K System - File ID: Kb24031425.D

B24C033-CCB2 (Lab Blank)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<5	10	ng							U
1,1-Dichloroethene	<5	10	ng							U
trans-1,2-Dichloroethene	<5	10	ng							U
1,1-Dichloroethane	<5	10	ng							U
cis-1,2-Dichloroethene	<5	10	ng							U
Benzene	<10	25	ng							U
Trichloroethene	<5	10	ng							U
Toluene	<10	25	ng							U
Tetrachloroethene	<5	10	ng							U
Chlorobenzene	<5	10	ng							U
Ethylbenzene	<10	25	ng							U
p & m-Xylene	<10	25	ng							U
o-Xylene	<10	25	ng							U
Isopropylbenzene	<10	25	ng							U
1,3,5-Trimethylbenzene	<10	25	ng							U
1,2,4-Trimethylbenzene	<10	25	ng							U
1,4-Dichlorobenzene	<5	10	ng							U
1,2-Dichlorobenzene	<5	10	ng							U
Surrogate: 1,2-DCA-d4	*108*		*ng*	100		*108*	*70-130*			
Surrogate: Toluene-d8	*99.7*		*ng*	100		*99.7*	*70-130*			
Surrogate: Bromofluorobenzene	*91.3*		*ng*	100		*91.3*	*70-130*			

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Soil-Gas Analysis by EPA 8260 - Data in Concentration - Quality Control Summary

Sequence: B24C033 - Instrument: K System - File ID: Kb24031432.D

B24C033-CCB3 (Lab Blank)

Analyte	Result	LOQ	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Vinyl Chloride	<5	10	ng							U
1,1-Dichloroethene	<5	10	ng							U
trans-1,2-Dichloroethene	<5	10	ng							U
1,1-Dichloroethane	<5	10	ng							U
cis-1,2-Dichloroethene	<5	10	ng							U
Benzene	<10	25	ng							U
Trichloroethene	<5	10	ng							U
Toluene	<10	25	ng							U
Tetrachloroethene	<5	10	ng							U
Chlorobenzene	<5	10	ng							U
Ethylbenzene	<10	25	ng							U
p & m-Xylene	<10	25	ng							U
o-Xylene	<10	25	ng							U
Isopropylbenzene	<10	25	ng							U
1,3,5-Trimethylbenzene	<10	25	ng							U
1,2,4-Trimethylbenzene	<10	25	ng							U
1,4-Dichlorobenzene	<5	10	ng							U
1,2-Dichlorobenzene	<5	10	ng							U
Surrogate: 1,2-DCA-d4	*111*		*ng*	100		*111*	*70-130*			
Surrogate: Toluene-d8	*103*		*ng*	100		*103*	*70-130*			
Surrogate: Bromofluorobenzene	*88.2*		*ng*	100		*88.2*	*70-130*			

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Sample Duplicate RPD Summary

Soil-Gas Sample Analysis by EPA Method 8260C

Duplicate Sample: Dup-B (0007609-03) ***Sample: PSG-1 (0007609-02)*** ***Average RPD:*** 1.6%

Analyte	CAS#	Duplicate Result (ng)	LOQ (ng)	Sample Result (ng)	LOQ (ng)	RPD (%)
Vinyl Chloride	75-01-4	<10	10	<10	10	0.0
1,1-Dichloroethene	75-35-4	<10	10	<10	10	0.0
trans-1,2-Dichloroethene	156-60-5	<10	10	<10	10	0.0
1,1-Dichloroethane	75-34-3	<10	10	<10	10	0.0
cis-1,2-Dichloroethene	156-59-2	<10	10	<10	10	0.0
Benzene	71-43-2	<25	25	<25	25	0.0
Trichloroethene	79-01-6	<10	10	<10	10	0.0
Toluene	108-88-3	<25	25	<25	25	0.0
Tetrachloroethene	127-18-4	<10	10	<10	10	0.0
Chlorobenzene	108-90-7	<10	10	<10	10	0.0
Ethylbenzene	100-41-4	30.0	25	28.0	25	6.9
p & m-Xylene	179601-23-1	139	25	129	25	7.5
o-Xylene	95-47-6	49.0	25	45.0	25	8.5
Isopropylbenzene	98-82-8	<25	25	<25	25	0.0
1,3,5-Trimethylbenzene	108-67-8	<25	25	<25	25	0.0
1,2,4-Trimethylbenzene	95-63-6	<25	25	<25	25	0.0
1,4-Dichlorobenzene	106-46-7	<10	10	<10	10	0.0
1,2-Dichlorobenzene	95-50-1	<10	10	<10	10	0.0
Total Xylenes	1330-20-7	187	25.0	175	25.0	6.6

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Sample Duplicate RPD Summary - Concentration

Soil-Gas Analysis by EPA 8260 - Data in Concentration

Duplicate Sample: Dup-B (0007609-03) ***Sample: PSG-1 (0007609-02)*** ***Average RPD:*** 1.4%

Analyte	CAS#	Duplicate Result (µg/m³)	LOQ (µg/m³)	Sample Result (µg/m³)	LOQ (µg/m³)	RPD (%)
Vinyl Chloride	75-01-4	<0.48	0.48	<0.48	0.48	0.0
1,1-Dichloroethene	75-35-4	<1.18	1.18	<1.18	1.18	0.0
trans-1,2-Dichloroethene	156-60-5	<0.89	0.89	<0.89	0.89	0.0
1,1-Dichloroethane	75-34-3	<0.46	0.46	<0.46	0.46	0.0
cis-1,2-Dichloroethene	156-59-2	<0.74	0.74	<0.74	0.74	0.0
Benzene	71-43-2	<1.84	1.84	<1.84	1.84	0.0
Trichloroethene	79-01-6	<1.18	1.18	<1.18	1.18	0.0
Toluene	108-88-3	<2.44	2.44	<2.44	2.44	0.0
Tetrachloroethene	127-18-4	<0.95	0.95	<0.95	0.95	0.0
Chlorobenzene	108-90-7	<0.46	0.46	<0.46	0.46	0.0
Ethylbenzene	100-41-4	1.37	1.15	1.29	1.15	6.0
p & m-Xylene	179601-23-1	6.15	1.11	5.74	1.11	6.9
o-Xylene	95-47-6	2.15	1.11	2.01	1.11	6.7
Isopropylbenzene	98-82-8	<1.18	1.18	<1.18	1.18	0.0
1,3,5-Trimethylbenzene	108-67-8	<1.18	1.18	<1.18	1.18	0.0
1,2,4-Trimethylbenzene	95-63-6	<1.18	1.18	<1.18	1.18	0.0
1,4-Dichlorobenzene	106-46-7	<0.52	0.52	<0.52	0.52	0.0
1,2-Dichlorobenzene	95-50-1	<0.52	0.52	<0.52	0.52	0.0
Total Xylenes	1330-20-7	8.30	1.11	7.75	1.11	6.9

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Additional QC Information

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Sample Result Calculation Summary (Concentration)

EPA 8260C

Analyte	t Sampling Time minutes	DF Dilution Factor	U Uptake Rate	M Initial Result ng	C Calculated Result µg/m³	File ID
Lab ID: 0007609-01 **Sample Name:** Trip-1						
Vinyl Chloride	25,605	1.00	0.810	U	U	Kb24031405.D
1,1-Dichloroethene	25,605	1.00	0.330	U	U	Kb24031405.D
trans-1,2-Dichloroethene	25,605	1.00	0.440	U	U	Kb24031405.D
1,1-Dichloroethane	25,605	1.00	0.850	U	U	Kb24031405.D
cis-1,2-Dichloroethene	25,605	1.00	0.530	U	U	Kb24031405.D
Benzene	25,605	1.00	0.530	U	U	Kb24031405.D
Trichloroethene	25,605	1.00	0.330	U	U	Kb24031405.D
Toluene	25,605	1.00	0.400	U	U	Kb24031405.D
Tetrachloroethene	25,605	1.00	0.410	U	U	Kb24031405.D
Chlorobenzene	25,605	1.00	0.850 g	U	U	Kb24031405.D
Ethylbenzene	25,605	1.00	0.850	U	U	Kb24031405.D
p & m-Xylene	25,605	1.00	0.880	U	U	Kb24031405.D
o-Xylene	25,605	1.00	0.880	U	U	Kb24031405.D
Isopropylbenzene	25,605	1.00	0.830 g	U	U	Kb24031405.D
1,3,5-Trimethylbenzene	25,605	1.00	0.830 g	U	U	Kb24031405.D
1,2,4-Trimethylbenzene	25,605	1.00	0.830 g	U	U	Kb24031405.D
1,4-Dichlorobenzene	25,605	1.00	0.750 g	U	U	Kb24031405.D
1,2-Dichlorobenzene	25,605	1.00	0.750 g	U	U	Kb24031405.D
Lab ID: 0007609-02 **Sample Name:** PSG-1						
Vinyl Chloride	25,605	1.00	0.810	U	U	Kb24031422.D
1,1-Dichloroethene	25,605	1.00	0.330	U	U	Kb24031422.D
trans-1,2-Dichloroethene	25,605	1.00	0.440	U	U	Kb24031422.D
1,1-Dichloroethane	25,605	1.00	0.850	U	U	Kb24031422.D
cis-1,2-Dichloroethene	25,605	1.00	0.530	U	U	Kb24031422.D
Benzene	25,605	1.00	0.530	U	U	Kb24031422.D
Trichloroethene	25,605	1.00	0.330	U	U	Kb24031422.D
Toluene	25,605	1.00	0.400	U	U	Kb24031422.D
Tetrachloroethene	25,605	1.00	0.410	U	U	Kb24031422.D
Chlorobenzene	25,605	1.00	0.850 g	U	U	Kb24031422.D
Ethylbenzene	25,605	1.00	0.850	28.01	1.29	Kb24031422.D
p & m-Xylene	25,605	1.00	0.880	129.32	5.74	Kb24031422.D
o-Xylene	25,605	1.00	0.880	45.20	2.01	Kb24031422.D
Isopropylbenzene	25,605	1.00	0.830 g	U	U	Kb24031422.D
1,3,5-Trimethylbenzene	25,605	1.00	0.830 g	U	U	Kb24031422.D
1,2,4-Trimethylbenzene	25,605	1.00	0.830 g	U	U	Kb24031422.D
1,4-Dichlorobenzene	25,605	1.00	0.750 g	U	U	Kb24031422.D
1,2-Dichlorobenzene	25,605	1.00	0.750 g	U	U	Kb24031422.D

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Sample Result Calculation Summary (Concentration)

EPA 8260C

Analyte	t Sampling Time minutes	DF Dilution Factor	U Uptake Rate	M Initial Result ng	C Calculated Result µg/m³	File ID
Lab ID: 0007609-03 **Sample Name:** Dup-B						
Vinyl Chloride	25,605	1.00	0.810	U	U	Kb24031423.D
1,1-Dichloroethene	25,605	1.00	0.330	U	U	Kb24031423.D
trans-1,2-Dichloroethene	25,605	1.00	0.440	U	U	Kb24031423.D
1,1-Dichloroethane	25,605	1.00	0.850	U	U	Kb24031423.D
cis-1,2-Dichloroethene	25,605	1.00	0.530	U	U	Kb24031423.D
Benzene	25,605	1.00	0.530	U	U	Kb24031423.D
Trichloroethene	25,605	1.00	0.330	U	U	Kb24031423.D
Toluene	25,605	1.00	0.400	U	U	Kb24031423.D
Tetrachloroethene	25,605	1.00	0.410	U	U	Kb24031423.D
Chlorobenzene	25,605	1.00	0.850 [g]	U	U	Kb24031423.D
Ethylbenzene	25,605	1.00	0.850	29.76	1.37	Kb24031423.D
p & m-Xylene	25,605	1.00	0.880	138.51	6.15	Kb24031423.D
o-Xylene	25,605	1.00	0.880	48.52	2.15	Kb24031423.D
Isopropylbenzene	25,605	1.00	0.830 [g]	U	U	Kb24031423.D
1,3,5-Trimethylbenzene	25,605	1.00	0.830 [g]	U	U	Kb24031423.D
1,2,4-Trimethylbenzene	25,605	1.00	0.830 [g]	U	U	Kb24031423.D
1,4-Dichlorobenzene	25,605	1.00	0.750 [g]	U	U	Kb24031423.D
1,2-Dichlorobenzene	25,605	1.00	0.750 [g]	U	U	Kb24031423.D

Calculations:

$$C = \frac{1000 \times M \times DF}{U \times t}$$

where: C = concentration (µg/m^3)
M = mass (ng)
DF = dilution factor
t = sampling time (minutes)
U = compound specific uptake rate

[g] = Uptake rate determined using Graham's Law of Diffusion.

Reference: Federal Register/Vol. 79, No. 125/June 30, 2014

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Method Detection and Reporting Limit Calculations (Concentration)

EPA 8260C

Analyte	t Sampling Time minutes	DF Dilution Factor	U Uptake Rate	M Initial LOQ ng	C Calculated LOQ µg/m³
Lab ID: 0007609-01 **Sample Name:** Trip-1					
Vinyl Chloride	25,605	1.00	0.810	10.0	0.48
1,1-Dichloroethene	25,605	1.00	0.330	10.0	1.18
trans-1,2-Dichloroethene	25,605	1.00	0.440	10.0	0.89
1,1-Dichloroethane	25,605	1.00	0.850	10.0	0.46
cis-1,2-Dichloroethene	25,605	1.00	0.530	10.0	0.74
Benzene	25,605	1.00	0.530	25.0	1.84
Trichloroethene	25,605	1.00	0.330	10.0	1.18
Toluene	25,605	1.00	0.400	25.0	2.44
Tetrachloroethene	25,605	1.00	0.410	10.0	0.95
Chlorobenzene	25,605	1.00	0.850 g	10.0	0.46
Ethylbenzene	25,605	1.00	0.850	25.0	1.15
p & m-Xylene	25,605	1.00	0.880	25.0	1.11
o-Xylene	25,605	1.00	0.880	25.0	1.11
Isopropylbenzene	25,605	1.00	0.830 g	25.0	1.18
1,3,5-Trimethylbenzene	25,605	1.00	0.830 g	25.0	1.18
1,2,4-Trimethylbenzene	25,605	1.00	0.830 g	25.0	1.18
1,4-Dichlorobenzene	25,605	1.00	0.750 g	10.0	0.52
1,2-Dichlorobenzene	25,605	1.00	0.750 g	10.0	0.52
Lab ID: 0007609-02 **Sample Name:** PSG-1					
Vinyl Chloride	25,605	1.00	0.810	10.0	0.48
1,1-Dichloroethene	25,605	1.00	0.330	10.0	1.18
trans-1,2-Dichloroethene	25,605	1.00	0.440	10.0	0.89
1,1-Dichloroethane	25,605	1.00	0.850	10.0	0.46
cis-1,2-Dichloroethene	25,605	1.00	0.530	10.0	0.74
Benzene	25,605	1.00	0.530	25.0	1.84
Trichloroethene	25,605	1.00	0.330	10.0	1.18
Toluene	25,605	1.00	0.400	25.0	2.44
Tetrachloroethene	25,605	1.00	0.410	10.0	0.95
Chlorobenzene	25,605	1.00	0.850 g	10.0	0.46
Ethylbenzene	25,605	1.00	0.850	25.0	1.15
p & m-Xylene	25,605	1.00	0.880	25.0	1.11
o-Xylene	25,605	1.00	0.880	25.0	1.11
Isopropylbenzene	25,605	1.00	0.830 g	25.0	1.18
1,3,5-Trimethylbenzene	25,605	1.00	0.830 g	25.0	1.18
1,2,4-Trimethylbenzene	25,605	1.00	0.830 g	25.0	1.18
1,4-Dichlorobenzene	25,605	1.00	0.750 g	10.0	0.52
1,2-Dichlorobenzene	25,605	1.00	0.750 g	10.0	0.52

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Method Detection and Reporting Limit Calculations (Concentration)

EPA 8260C

Lab ID: 0007609-03 **Sample Name:** Dup-B

Analyte	**t** Sampling Time minutes	**DF** Dilution Factor	**U** Uptake Rate	**M** Initial LOQ ng	**C** Calculated LOQ µg/m³
Vinyl Chloride	25,605	1.00	0.810	10.0	0.48
1,1-Dichloroethene	25,605	1.00	0.330	10.0	1.18
trans-1,2-Dichloroethene	25,605	1.00	0.440	10.0	0.89
1,1-Dichloroethane	25,605	1.00	0.850	10.0	0.46
cis-1,2-Dichloroethene	25,605	1.00	0.530	10.0	0.74
Benzene	25,605	1.00	0.530	25.0	1.84
Trichloroethene	25,605	1.00	0.330	10.0	1.18
Toluene	25,605	1.00	0.400	25.0	2.44
Tetrachloroethene	25,605	1.00	0.410	10.0	0.95
Chlorobenzene	25,605	1.00	0.850 g	10.0	0.46
Ethylbenzene	25,605	1.00	0.850	25.0	1.15
p & m-Xylene	25,605	1.00	0.880	25.0	1.11
o-Xylene	25,605	1.00	0.880	25.0	1.11
Isopropylbenzene	25,605	1.00	0.830 g	25.0	1.18
1,3,5-Trimethylbenzene	25,605	1.00	0.830 g	25.0	1.18
1,2,4-Trimethylbenzene	25,605	1.00	0.830 g	25.0	1.18
1,4-Dichlorobenzene	25,605	1.00	0.750 g	10.0	0.52
1,2-Dichlorobenzene	25,605	1.00	0.750 g	10.0	0.52

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1.410.838.8780

ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Laboratory Certification List

Certification ID	Certification No.	Description	Expires	Project Required
Alaska CS-LAP	19-002	Alaska Department of Environmental Conservation	12/30/2024	
DoD-ELAP	72690/L22-563	United States Department of Defense Environmental Laboratory Accreditation	11/30/2024	
ISO/IEC 17025:2017	72690/L22-563	General Requirements for the Competence of Testing and Calibration Laboratories	11/30/2024	
NEFAP	72690/L22-564	TNI National Environmental Field Activities Program (NEFAP)	11/30/2024	
NY-NELAC	12097	New York Department of Health	04/01/2024	
Utah-NELAC	MD010912023-14	Utah Department of Health	12/31/2024	

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ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Qualifiers/Notes and Definitions

General Definitions:

DF	Dilution Factor
DL	Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
NA	Not Applicable
Q	Qualifier
RPD	Relative Percent Difference
RT	Retention Times in Minutes
RRT	Evaluation of Relative Retention Times in RRT Units (qualified if outside $\pm$0.06 control limits)
3σ	Uncertainty
∉	Compound not on scope of accreditation
+	values are outside method/contract required QC limits
∅	Compound not on scope of accreditation and analyzed with a one-point calibration

526 Underwood Lane
Bel Air, MD 21014 USA
1.410.838.8780

ATC Group Services	**Site Name:** Gaither Transou Property	**Beacon Proposal:** 230920R07
2725 E. Millbrook Road, Suite 121	**Site Location:** Jamestown, NC	**Lab Work Order:** 0007609
Raleigh, NC 27604	**Project Manager:** Larry George	**Reported:** 03/22/2024

Sample Management Records

BEACON ENVIRONMENTAL
526 Underwood Lane
Bel Air, Maryland 21014 USA
Need help? Call 1-410-838-8780
or email help@beacon-usa.com

PASSIVE SOIL GAS SAMPLES | CHAIN-OF-CUSTODY

Project Information		Client Information	
Site Name: GAITHER TRANSOU PROPERTY		Company Name: ATC	Project Manager: Larry George
		Office Location: 2725 E. Millbrook Road, Raleigh, NC	Client PO:
Site Location: 202 GUILFORD COLLEGE ROAD, JAMESTOWN, NC		Submitted by: Aaron Spivey	Turn around time (check one): ☒ Normal ☐ Rush (specify) ____ days
		Email: aaro	

Field Sample ID	Start Date	Start Time	Stop Date	Stop Time	Sampling Hole Depth ☐ cm ☒ inches	Surface Type (Soil, Asphalt, Concrete, Gravel)	Optional Information (Location Description, Sample Condition, PID / FID Readings, etc)
PSG-1	2/22/24	1740	3/11/24	1225	12	Soil	
DUP-B	2/22/24	1740	3/11/24	1225	12	Soil	Duplicate PSG-1
TRIP-1	—	—	—	—	—	—	Trip Blank

Special Instructions:
* Contact Larry George (larry.george@oneatlas.com) for target compound list *

Relinquished by (signature): Fed Ex	Date / Time: 3/12/24 0945	Received by (signature): FEDEX	Date / Time:
Relinquished by (signature): Fed Ex	Date / Time:	Received by (signature): Peter Kelly	Date / Time: 3/13/2024 1420
For Lab Use Only	Beacon Job No: 7609	Beacon Proposal: 230920R07	Analytical Method: 8260
Courier Name: Fed Ex	Shipment Condition: Good	Custody Seal Intact: ☑ Yes ☐ No ☐ n/a 3/13/24	Custody Seal No: 6047319

ANALYTICAL REPORT

March 12, 2024

ATC Group Services LLC

Sample Delivery Group:	L1709230
Samples Received:	02/26/2024
Project Number:	
Description:	Gaither Transou Property
Report To:	Larry George 2725 E. Millbrook Road, Ste 121 Raleigh, NC 27604

Entire Report Reviewed By:

Heather J Wagner
Project Manager

TABLE OF CONTENTS

TMW-1 SOIL L1709230-01 Solid

Collected by: L.
Collected date/time: 02/15/24 11:40
Received date/time: 02/26/24 08:35

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2233994	1	03/11/24 00:00	03/11/24 00:00	-	West Columbia, SC 29172

TMW-2 SOIL L1709230-02 DW

Collected by: L.
Collected date/time: 02/15/24 12:25
Received date/time: 02/26/24 08:35

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2233994	1	03/11/24 00:00	03/11/24 00:00	-	West Columbia, SC 29172

EQUIP BLANK-1 L1709230-03 GW

Collected by: L.
Collected date/time: 02/15/24 11:35
Received date/time: 02/26/24 08:35

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2233994	1	03/11/24 00:00	03/11/24 00:00	-	West Columbia, SC 29172

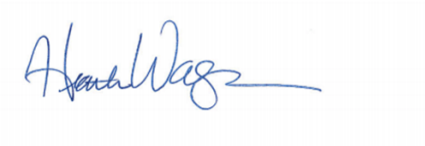
DECON WATER L1709230-04 GW

Collected by: L.
Collected date/time: 02/15/24 11:25
Received date/time: 02/26/24 08:35

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2233994	1	03/11/24 00:00	03/11/24 00:00	-	West Columbia, SC 29172

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.



Heather J Wagner
Project Manager

Project Narrative

L1709230 -01, -02, -03, -04 contains subout data that is included after the chain of custody.

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

SDG	Sample Delivery Group.
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

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

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.

L1709230

Pace Analytical®

PACE ANALYTICAL SERVICES, LLC
106 Vantage Point Drive - West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.pacelabs.com

Number 156382

Client: ATC	Report to Contact: LARRY GEORGE	Telephone No. / E-mail: LARRY.GEORGE@CNEATLAS.COM	Quote No.
Address: 2725 E MILLBROOK RD SUITE, 121	Sampler's Signature:	Analysis (Attach list if more space is needed)	Page 1 of 1
City: RALEIGH State: NC Zip Code: 27604	Printed Name: LAURA DE SOUSA		ZB21016
Project Name: GAITHER TRANSOL PROPERTY			

Project No.	P.O. No.			Matrix			No. of Containers by Preservative Type								
Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Grab (G) or Composite (C)	Aqueous	Solid	Non-Aqueous	Methanol	Sodium Bisulfate	Sodium Hydroxide	HCl	H2SO4	Sodium Thiosulfate	Ascorbic Acid	Other Preserved	PFAS 537.1
TMW-1 SOIL	2/15/24	1140	C		X		X								X
TMW-2 SOIL	2/15/24	1225	C		X		X								X
EQUIP BLANK-1	2/15/24	1135	G	X			X								X
DECON-WATER	2/15/24	1125	G	X			X								X

Remarks / Cooler I.D.:

Turn Around Time Required (Prior lab approval required for expedited TAT.)	Sample Disposal	Possible Hazard Identification	QC Requirements (Specify)
☐ Standard ☐ Rush (Specify)	☐ Return to Client ☐ Disposal by Lab	☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown	

	Date	Time		Date	Time
1. Relinquished by	2/15/24	1800	1. Received by: Mike Watts (PACE	2/20/24	1250
2. Relinquished by: Mike Watts (PACE	2/20/24	1330	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Received by	Date	Time
4. Relinquished by: fedex	2/21/24	945	4. Laboratory received by: Karen Mauney	2-21-24	945

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack
Receipt Temp: 0.9 °C
Temp Blank ☑ Y ☐ N

DISTRIBUTION: WHITE & YELLOW Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: MEOOSN2-01

Report of Analysis

Pace Analytical LLC
12065 Lebanon Rd.
Mt. Juliet, TN 37122
Attention: Jimmy Huckaba

Project Name: L1709230

Project Number: WG2233994

Lot Number:**ZB21016**

Date Completed:03/11/2024

03/11/2024 3:39 PM
Approved and released by:
Project Coordinator 1: **Jenna S. Holliday**

Case Narrative
Pace Analytical LLC
Lot Number: ZB21016

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18. Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

Sample Summary
Pace Analytical LLC
Lot Number: ZB21016
Project Name: L1709230
Project Number: WG2233994

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	TMW-1 Soil	Solid	02/15/2024 1140	02/21/2024
002	TMW-2 Soil	Solid	02/15/2024 1225	02/21/2024
003	Equip Blank-1	Aqueous	02/15/2024 1135	02/21/2024
004	Decon-Water	Aqueous	02/15/2024 1125	02/21/2024

(4 samples)

Detection Summary

Pace Analytical LLC

Lot Number: ZB21016

Project Name: L1709230

Project Number: WG2233994

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
004	Decon-Water	Aqueous	PFBS	PFAS by ID	1.7	J	ng/L	11
004	Decon-Water	Aqueous	PFHxS	PFAS by ID	1.1	J	ng/L	11
004	Decon-Water	Aqueous	PFBA	PFAS by ID	0.67	J	ng/L	11
004	Decon-Water	Aqueous	PFHpA	PFAS by ID	0.68	J	ng/L	11
004	Decon-Water	Aqueous	PFHxA	PFAS by ID	1.4	J	ng/L	11
004	Decon-Water	Aqueous	PFOA	PFAS by ID	2.9	J	ng/L	11
004	Decon-Water	Aqueous	PFPeA	PFAS by ID	1.4	J	ng/L	11

(7 detections)

PFAS by LC/MS/MS

Client: **Pace Analytical LLC** Laboratory ID: **ZB21016-001**

Description: **TMW-1 Soil** Matrix: **Solid**

Date Sampled: **02/15/2024 1140** Project Name: **L1709230** % Solids: **73.7** **02/23/2024 2130**

Date Received: **02/21/2024** Project Number: **WG2233994**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	02/26/2024 1705	BWS	02/25/2024 1946	97154

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		2.3	0.18	ug/kg	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		2.3	0.20	ug/kg	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.3	0.32	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.3	0.36	ug/kg	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		2.3	0.44	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.3	0.25	ug/kg	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		4.7	0.68	ug/kg	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		2.3	0.18	ug/kg	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		2.3	0.42	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.3	0.34	ug/kg	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		2.3	0.27	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.3	0.41	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.3	0.46	ug/kg	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		2.3	0.39	ug/kg	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.2	0.15	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.2	0.26	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.2	0.20	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.2	0.26	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		1.2	0.30	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.2	0.49	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.2	0.18	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.2	0.17	ug/kg	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		2.3	0.26	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.2	0.17	ug/kg	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		1.2	0.41	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.2	0.25	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.2	0.19	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.2	0.20	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.2	0.42	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		113	25-150
13C2_6:2FTS		104	25-150
13C2_8:2FTS		96	25-150
13C2_PFDoA		97	25-150
13C2_PFHxDA		106	25-150
13C2_PFTeDA		109	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Pace Analytical LLC**		Laboratory ID: **ZB21016-001**	
Description: **TMW-1 Soil**		Matrix: **Solid**	
Date Sampled: **02/15/2024 1140**	Project Name: **L1709230**	% Solids: **73.7**	**02/23/2024 2130**
Date Received: **02/21/2024**	Project Number: **WG2233994**		

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		93	25-150
13C3_PFHxS		93	25-150
13C3-HFPO-DA		98	25-150
13C4_PFBA		98	25-150
13C4_PFHpA		96	25-150
13C5_PFHxA		90	25-150
13C5_PFPeA		99	25-150
13C6_PFDA		96	25-150
13C7_PFUdA		101	25-150
13C8_PFOA		103	25-150
13C8_PFOS		106	25-150
13C8_PFOSA		111	10-150
13C9_PFNA		105	25-150
d-EtFOSA		112	10-150
d5-EtFOSAA		103	25-150
d9-EtFOSE		107	10-150
d-MeFOSA		98	10-150
d3-MeFOSAA		105	25-150
d7-MeFOSE		108	10-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Pace Analytical LLC** Laboratory ID: **ZB21016-002**

Description: **TMW-2 Soil** Matrix: **Solid**

Date Sampled: **02/15/2024 1225** Project Name: **L1709230** % Solids: **69.2** **02/23/2024 2130**

Date Received: **02/21/2024** Project Number: **WG2233994**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	02/26/2024 1737	BWS	02/25/2024 1946	97154

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		2.5	0.19	ug/kg	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		2.5	0.21	ug/kg	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.5	0.34	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.5	0.38	ug/kg	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		2.5	0.46	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.5	0.27	ug/kg	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		4.9	0.72	ug/kg	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		2.5	0.19	ug/kg	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		2.5	0.44	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.5	0.36	ug/kg	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		2.5	0.28	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.5	0.43	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.5	0.49	ug/kg	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		2.5	0.41	ug/kg	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.2	0.16	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.2	0.28	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.2	0.27	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		1.2	0.32	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.2	0.51	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.2	0.20	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.2	0.18	ug/kg	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		2.5	0.28	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.2	0.18	ug/kg	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		1.2	0.43	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.2	0.26	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.2	0.20	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.2	0.44	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		82	25-150
13C2_6:2FTS		68	25-150
13C2_8:2FTS		89	25-150
13C2_PFDoA		75	25-150
13C2_PFHxDA		83	25-150
13C2_PFTeDA		78	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Pace Analytical LLC**		Laboratory ID: **ZB21016-002**	
Description: **TMW-2 Soil**		Matrix: **Solid**	
Date Sampled: **02/15/2024 1225**	Project Name: **L1709230**	% Solids: **69.2**	**02/23/2024 2130**
Date Received: **02/21/2024**	Project Number: **WG2233994**		

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		72	25-150
13C3_PFHxS		69	25-150
13C3-HFPO-DA		69	25-150
13C4_PFBA		74	25-150
13C4_PFHpA		69	25-150
13C5_PFHxA		70	25-150
13C5_PFPeA		71	25-150
13C6_PFDA		67	25-150
13C7_PFUdA		80	25-150
13C8_PFOA		71	25-150
13C8_PFOS		74	25-150
13C8_PFOSA		73	10-150
13C9_PFNA		74	25-150
d-EtFOSA		77	10-150
d5-EtFOSAA		78	25-150
d9-EtFOSE		83	10-150
d-MeFOSA		68	10-150
d3-MeFOSAA		77	25-150
d7-MeFOSE		82	10-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Pace Analytical LLC** Laboratory ID: **ZB21016-003**

Description: **Equip Blank-1** Matrix: **Aqueous**

Date Sampled: **02/15/2024 1135** Project Name: **L1709230**

Date Received: **02/21/2024** Project Number: **WG2233994**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/07/2024 2311	ALM	03/05/2024 1607	97765

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		7.4	0.45	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		7.4	0.61	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		7.4	1.5	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		7.4	1.8	ng/L	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		7.4	1.1	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		7.4	0.81	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		7.4	1.9	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		7.4	0.45	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		7.4	1.3	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.4	0.69	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		7.4	0.88	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		15	1.2	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.4	0.86	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		7.4	1.2	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		3.7	0.38	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.7	0.72	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.7	0.46	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.7	0.66	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.7	0.57	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.7	0.55	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		7.4	0.97	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		3.7	0.51	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		3.7	0.55	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.7	0.48	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.7	0.44	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.7	0.41	ng/L	1
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		7.4	0.75	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.7	0.64	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.7	0.43	ng/L	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		7.4	0.92	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.7	0.77	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.7	0.50	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.7	0.55	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.7	0.49	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.7	0.58	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.7	1.8	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		116	25-150
13C2_6:2FTS		132	25-150
13C2_8:2FTS		108	25-150
13C2_PFDoA		100	25-150
13C2_PFHxDA		95	25-150
13C2_PFTeDA		113	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Pace Analytical LLC** Laboratory ID: **ZB21016-003**

Description: **Equip Blank-1** Matrix: **Aqueous**

Date Sampled: **02/15/2024 1135** Project Name: **L1709230**

Date Received: **02/21/2024** Project Number: **WG2233994**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		113	25-150
13C3_PFHxS		109	25-150
13C3-HFPO-DA		105	25-150
13C4_PFBA		106	25-150
13C4_PFHpA		110	25-150
13C5_PFHxA		105	25-150
13C5_PFPeA		100	25-150
13C6_PFDA		103	25-150
13C7_PFUdA		97	25-150
13C8_PFOA		113	25-150
13C8_PFOS		103	25-150
13C8_PFOSA		100	10-150
13C9_PFNA		112	25-150
d-EtFOSA		63	10-150
d5-EtFOSAA		108	25-150
d9-EtFOSE		94	10-150
d-MeFOSA		68	10-150
d3-MeFOSAA		104	25-150
d7-MeFOSE		89	10-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

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PFAS by LC/MS/MS

Client: **Pace Analytical LLC** Laboratory ID: **ZB21016-004**

Description: **Decon-Water** Matrix: **Aqueous**

Date Sampled: **02/15/2024 1125** Project Name: **L1709230**

Date Received: **02/21/2024** Project Number: **WG2233994**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	03/07/2024 2322	ALM	03/05/2024 1607	97765

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	756426-58-1	PFAS by ID SOP	ND		7.4	0.45	ng/L	1
11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3...)	763051-92-9	PFAS by ID SOP	ND		7.4	0.62	ng/L	1
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		7.4	1.5	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		7.4	1.9	ng/L	1
1H,1H,2H,2H-perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	PFAS by ID SOP	ND		7.4	1.1	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		7.4	0.81	ng/L	1
Hexafluoropropylene oxide dimer acid (GenX)	13252-13-6	PFAS by ID SOP	ND		7.4	1.9	ng/L	1
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	PFAS by ID SOP	ND		7.4	0.45	ng/L	1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	PFAS by ID SOP	ND		7.4	1.3	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.4	0.70	ng/L	1
2-N-ethylperfluoro-1-octanesulfonamido-ethanol (EtFOSE)	1691-99-2	PFAS by ID SOP	ND		7.4	0.89	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		15	1.2	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.4	0.87	ng/L	1
2-N-methylperfluoro-1-octanesulfonamido-ethanol (MeFOSE)	24448-09-7	PFAS by ID SOP	ND		7.4	1.2	ng/L	1
Perfluoro-1-butanesulfonic acid (PFBS)	**375-73-5**	**PFAS by ID SOP**	**1.7**	**J**	**3.7**	**0.39**	**ng/L**	**1**
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.7	0.72	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.7	0.46	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.7	0.66	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.7	0.57	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.7	0.55	ng/L	1
Perfluorododecanesulfonic acid (PFDOS)	79780-39-5	PFAS by ID SOP	ND		7.4	0.97	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	**355-46-4**	**PFAS by ID SOP**	**1.1**	**J**	**3.7**	**0.51**	**ng/L**	**1**
Perfluoro-n-butanoic acid (PFBA)	**375-22-4**	**PFAS by ID SOP**	**0.67**	**J**	**3.7**	**0.56**	**ng/L**	**1**
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.7	0.49	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.7	0.44	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	**375-85-9**	**PFAS by ID SOP**	**0.68**	**J**	**3.7**	**0.42**	**ng/L**	**1**
Perfluoro-n-hexadecanoic acid (PFHxDA)	67905-19-5	PFAS by ID SOP	ND		7.4	0.76	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	**307-24-4**	**PFAS by ID SOP**	**1.4**	**J**	**3.7**	**0.64**	**ng/L**	**1**
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.7	0.43	ng/L	1
Perfluoro-n-octadecanoic acid (PFODA)	16517-11-6	PFAS by ID SOP	ND		7.4	0.93	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	**335-67-1**	**PFAS by ID SOP**	**2.9**	**J**	**3.7**	**0.77**	**ng/L**	**1**
Perfluoro-n-pentanoic acid (PFPeA)	**2706-90-3**	**PFAS by ID SOP**	**1.4**	**J**	**3.7**	**0.51**	**ng/L**	**1**
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.7	0.56	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.7	0.49	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.7	0.58	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.7	1.9	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		102	25-150
13C2_6:2FTS		101	25-150
13C2_8:2FTS		99	25-150
13C2_PFDoA		84	25-150
13C2_PFHxDA		89	25-150
13C2_PFTeDA		101	25-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

Pace Analytical Services, LLC *(formerly Shealy Environmental Services, Inc.)*
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Client: **Pace Analytical LLC** Laboratory ID: **ZB21016-004**

Description: **Decon-Water** Matrix: **Aqueous**

Date Sampled: **02/15/2024 1125** Project Name: **L1709230**

Date Received: **02/21/2024** Project Number: **WG2233994**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C3_PFBS		99	25-150
13C3_PFHxS		97	25-150
13C3-HFPO-DA		99	25-150
13C4_PFBA		94	25-150
13C4_PFHpA		94	25-150
13C5_PFHxA		85	25-150
13C5_PFPeA		92	25-150
13C6_PFDA		92	25-150
13C7_PFUdA		88	25-150
13C8_PFOA		98	25-150
13C8_PFOS		86	25-150
13C8_PFOSA		89	10-150
13C9_PFNA		93	25-150
d-EtFOSA		39	10-150
d5-EtFOSAA		96	25-150
d9-EtFOSE		83	10-150
d-MeFOSA		50	10-150
d3-MeFOSAA		90	25-150
d7-MeFOSE		77	10-150

LOQ = Limit of Quantitation
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
DL = Detection Limit
Q = Surrogate failure
ND = Not detected at or above the DL
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
J = Estimated result < LOQ and ≥ DL
L = LCS/LCSD failure
H = Out of holding time
W = Reported on wet weight basis
S = MS/MSD failure

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QC Summary

PFAS by LC/MS/MS - MB

Sample ID: ZQ97154-001
Batch: 97154
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 02/25/2024 1946

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
9Cl-PF3ONS	ND		1	2.0	0.16	ug/kg	02/26/2024 1612
11Cl-PF3OUdS	ND		1	2.0	0.17	ug/kg	02/26/2024 1612
8:2 FTS	ND		1	2.0	0.27	ug/kg	02/26/2024 1612
6:2 FTS	ND		1	2.0	0.31	ug/kg	02/26/2024 1612
10:2 FTS	ND		1	2.0	0.38	ug/kg	02/26/2024 1612
4:2 FTS	ND		1	2.0	0.22	ug/kg	02/26/2024 1612
GenX	ND		1	4.0	0.58	ug/kg	02/26/2024 1612
ADONA	ND		1	2.0	0.15	ug/kg	02/26/2024 1612
EtFOSA	ND		1	2.0	0.36	ug/kg	02/26/2024 1612
EtFOSAA	ND		1	2.0	0.29	ug/kg	02/26/2024 1612
EtFOSE	ND		1	2.0	0.23	ug/kg	02/26/2024 1612
MeFOSA	ND		1	2.0	0.35	ug/kg	02/26/2024 1612
MeFOSAA	ND		1	2.0	0.40	ug/kg	02/26/2024 1612
MeFOSE	ND		1	2.0	0.33	ug/kg	02/26/2024 1612
PFBS	ND		1	1.0	0.13	ug/kg	02/26/2024 1612
PFDS	ND		1	1.0	0.22	ug/kg	02/26/2024 1612
PFHpS	ND		1	1.0	0.18	ug/kg	02/26/2024 1612
PFNS	ND		1	1.0	0.22	ug/kg	02/26/2024 1612
PFOSA	ND		1	1.0	0.18	ug/kg	02/26/2024 1612
PFPeS	ND		1	1.0	0.19	ug/kg	02/26/2024 1612
PFDOS	ND		1	1.0	0.26	ug/kg	02/26/2024 1612
PFHxS	ND		1	1.0	0.18	ug/kg	02/26/2024 1612
PFBA	ND		1	1.0	0.42	ug/kg	02/26/2024 1612
PFDA	ND		1	1.0	0.16	ug/kg	02/26/2024 1612
PFDoA	ND		1	1.0	0.18	ug/kg	02/26/2024 1612
PFHpA	ND		1	1.0	0.14	ug/kg	02/26/2024 1612
PFHxDA	ND		1	2.0	0.22	ug/kg	02/26/2024 1612
PFHxA	ND		1	1.0	0.18	ug/kg	02/26/2024 1612
PFNA	ND		1	1.0	0.15	ug/kg	02/26/2024 1612
PFODA	ND		1	1.0	0.35	ug/kg	02/26/2024 1612
PFOA	ND		1	1.0	0.21	ug/kg	02/26/2024 1612
PFPeA	ND		1	1.0	0.16	ug/kg	02/26/2024 1612
PFTeDA	ND		1	1.0	0.19	ug/kg	02/26/2024 1612
PFTrDA	ND		1	1.0	0.17	ug/kg	02/26/2024 1612
PFUdA	ND		1	1.0	0.18	ug/kg	02/26/2024 1612
PFOS	ND		1	1.0	0.36	ug/kg	02/26/2024 1612

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		102	25-150
13C2_6:2FTS		90	25-150
13C2_8:2FTS		103	25-150
13C2_PFDoA		95	25-150
13C2_PFHxDA		103	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: ZQ97154-001
Batch: 97154
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 02/25/2024 1946

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		106	25-150
13C3_PFBS		100	25-150
13C3_PFHxS		94	25-150
13C3-HFPO-DA		105	25-150
13C4_PFBA		99	25-150
13C4_PFHpA		97	25-150
13C5_PFHxA		91	25-150
13C5_PFPeA		100	25-150
13C6_PFDA		97	25-150
13C7_PFUdA		102	25-150
13C8_PFOA		91	25-150
13C8_PFOS		93	25-150
13C8_PFOSA		101	10-150
13C9_PFNA		93	25-150
d-EtFOSA		89	10-150
d5-EtFOSAA		109	25-150
d9-EtFOSE		98	10-150
d-MeFOSA		93	10-150
d3-MeFOSAA		92	25-150
d7-MeFOSE		105	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: ZQ97154-002
Batch: 97154
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 02/25/2024 1946

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
9Cl-PF3ONS	1.9	1.9		1	103	50-150	02/26/2024 1622
11Cl-PF3OUdS	1.9	2.0		1	107	50-150	02/26/2024 1622
8:2 FTS	1.9	2.2		1	116	50-150	02/26/2024 1622
6:2 FTS	1.9	2.6		1	136	50-150	02/26/2024 1622
10:2 FTS	1.9	2.0		1	102	50-150	02/26/2024 1622
4:2 FTS	1.9	2.0		1	110	50-150	02/26/2024 1622
GenX	4.0	4.1		1	104	50-150	02/26/2024 1622
ADONA	1.9	2.2		1	115	50-150	02/26/2024 1622
EtFOSA	2.0	1.8		1	91	50-150	02/26/2024 1622
EtFOSAA	2.0	2.0		1	98	50-150	02/26/2024 1622
EtFOSE	2.0	2.1		1	107	50-150	02/26/2024 1622
MeFOSA	2.0	2.7		1	134	50-150	02/26/2024 1622
MeFOSAA	2.0	2.1		1	104	50-150	02/26/2024 1622
MeFOSE	2.0	2.3		1	115	50-150	02/26/2024 1622
PFBS	1.8	1.8		1	103	50-150	02/26/2024 1622
PFDS	1.9	1.8		1	94	50-150	02/26/2024 1622
PFHpS	1.9	2.0		1	107	50-150	02/26/2024 1622
PFNS	1.9	2.2		1	112	50-150	02/26/2024 1622
PFOSA	2.0	2.3		1	116	50-150	02/26/2024 1622
PFPeS	1.9	2.1		1	112	50-150	02/26/2024 1622
PFDOS	1.9	2.2		1	114	50-150	02/26/2024 1622
PFHxS	1.8	1.9		1	105	50-150	02/26/2024 1622
PFBA	2.0	2.3		1	113	50-150	02/26/2024 1622
PFDA	2.0	2.2		1	112	50-150	02/26/2024 1622
PFDoA	2.0	2.0		1	100	50-150	02/26/2024 1622
PFHpA	2.0	2.1		1	106	50-150	02/26/2024 1622
PFHxDA	2.0	2.0		1	98	50-150	02/26/2024 1622
PFHxA	2.0	2.3		1	117	50-150	02/26/2024 1622
PFNA	2.0	2.1		1	104	50-150	02/26/2024 1622
PFODA	2.0	2.1		1	105	50-150	02/26/2024 1622
PFOA	2.0	2.3		1	113	50-150	02/26/2024 1622
PFPeA	2.0	2.1		1	106	50-150	02/26/2024 1622
PFTeDA	2.0	2.0		1	100	50-150	02/26/2024 1622
PFTrDA	2.0	1.8		1	90	50-150	02/26/2024 1622
PFUdA	2.0	2.5		1	127	50-150	02/26/2024 1622
PFOS	1.9	2.1		1	112	50-150	02/26/2024 1622

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		96	25-150
13C2_6:2FTS		83	25-150
13C2_8:2FTS		104	25-150
13C2_PFDoA		99	25-150
13C2_PFHxDA		96	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: ZQ97154-002
Batch: 97154
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 02/25/2024 1946

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		98	25-150
13C3_PFBS		97	25-150
13C3_PFHxS		88	25-150
13C3-HFPO-DA		92	25-150
13C4_PFBA		92	25-150
13C4_PFHpA		92	25-150
13C5_PFHxA		88	25-150
13C5_PFPeA		89	25-150
13C6_PFDA		79	25-150
13C7_PFUdA		84	25-150
13C8_PFOA		92	25-150
13C8_PFOS		97	25-150
13C8_PFOSA		89	10-150
13C9_PFNA		95	25-150
d-EtFOSA		92	10-150
d5-EtFOSAA		102	25-150
d9-EtFOSE		98	10-150
d-MeFOSA		77	10-150
d3-MeFOSAA		87	25-150
d7-MeFOSE		96	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MS

Sample ID: ZB21016-001MS
Batch: 97154
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 02/25/2024 1946

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
9Cl-PF3ONS	ND	2.2	2.4		1	111	50-150	02/26/2024 1715
11Cl-PF3OUdS	ND	2.2	2.2		1	101	50-150	02/26/2024 1715
8:2 FTS	ND	2.2	1.8		1	83	50-150	02/26/2024 1715
6:2 FTS	ND	2.2	2.5		1	114	50-150	02/26/2024 1715
10:2 FTS	ND	2.2	2.3		1	104	50-150	02/26/2024 1715
4:2 FTS	ND	2.2	2.6		1	121	50-150	02/26/2024 1715
GenX	ND	4.6	4.6		1	98	50-150	02/26/2024 1715
ADONA	ND	2.2	2.3		1	107	50-150	02/26/2024 1715
EtFOSA	ND	2.3	2.1		1	92	50-150	02/26/2024 1715
EtFOSAA	ND	2.3	2.4		1	105	50-150	02/26/2024 1715
EtFOSE	ND	2.3	2.2		1	97	50-150	02/26/2024 1715
MeFOSA	ND	2.3	2.6		1	111	50-150	02/26/2024 1715
MeFOSAA	ND	2.3	2.6		1	111	50-150	02/26/2024 1715
MeFOSE	ND	2.3	2.7		1	117	50-150	02/26/2024 1715
PFBS	ND	2.0	2.2		1	107	50-150	02/26/2024 1715
PFDS	ND	2.2	2.1		1	93	50-150	02/26/2024 1715
PFHpS	ND	2.2	2.3		1	107	50-150	02/26/2024 1715
PFNS	ND	2.2	2.4		1	110	50-150	02/26/2024 1715
PFOSA	ND	2.3	2.5		1	108	50-150	02/26/2024 1715
PFPeS	ND	2.2	2.5		1	114	50-150	02/26/2024 1715
PFDOS	ND	2.2	2.7		1	123	50-150	02/26/2024 1715
PFHxS	ND	2.1	2.4		1	115	50-150	02/26/2024 1715
PFBA	ND	2.3	2.5		1	107	50-150	02/26/2024 1715
PFDA	ND	2.3	2.3		1	101	50-150	02/26/2024 1715
PFDoA	ND	2.3	2.5		1	110	50-150	02/26/2024 1715
PFHpA	ND	2.3	2.5		1	108	50-150	02/26/2024 1715
PFHxDA	ND	2.3	2.2		1	96	50-150	02/26/2024 1715
PFHxA	ND	2.3	2.1		1	91	50-150	02/26/2024 1715
PFNA	ND	2.3	2.5		1	110	50-150	02/26/2024 1715
PFODA	ND	2.3	2.4		1	105	50-150	02/26/2024 1715
PFOA	ND	2.3	2.4		1	104	50-150	02/26/2024 1715
PFPeA	ND	2.3	2.3		1	98	50-150	02/26/2024 1715
PFTeDA	ND	2.3	2.5		1	110	50-150	02/26/2024 1715
PFTrDA	ND	2.3	2.4		1	106	50-150	02/26/2024 1715
PFUdA	ND	2.3	2.4		1	106	50-150	02/26/2024 1715
PFOS	ND	2.1	2.3		1	106	50-150	02/26/2024 1715

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		98	25-150
13C2_6:2FTS		106	25-150
13C2_8:2FTS		106	25-150
13C2_PFDoA		91	25-150
13C2_PFHxDA		98	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MS

Sample ID: ZB21016-001MS
Batch: 97154
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 02/25/2024 1946

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		106	25-150
13C3_PFBS		95	25-150
13C3_PFHxS		89	25-150
13C3-HFPO-DA		100	25-150
13C4_PFBA		98	25-150
13C4_PFHpA		96	25-150
13C5_PFHxA		92	25-150
13C5_PFPeA		101	25-150
13C6_PFDA		89	25-150
13C7_PFUdA		93	25-150
13C8_PFOA		91	25-150
13C8_PFOS		101	25-150
13C8_PFOSA		101	10-150
13C9_PFNA		92	25-150
d-EtFOSA		103	10-150
d5-EtFOSAA		96	25-150
d9-EtFOSE		105	10-150
d-MeFOSA		93	10-150
d3-MeFOSAA		92	25-150
d7-MeFOSE		100	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MSD

Sample ID: ZB21016-001MD
Batch: 97154
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 02/25/2024 1946

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
9Cl-PF3ONS	ND	2.1	2.3		1	107	6.2	50-150	30	02/26/2024 1726
11Cl-PF3OUdS	ND	2.1	2.2		1	102	0.37	50-150	30	02/26/2024 1726
8:2 FTS	ND	2.2	2.5	+	1	115	31	50-150	30	02/26/2024 1726
6:2 FTS	ND	2.2	2.5		1	117	0.28	50-150	30	02/26/2024 1726
10:2 FTS	ND	2.2	2.0		1	91	14	50-150	30	02/26/2024 1726
4:2 FTS	ND	2.1	2.2		1	102	19	50-150	30	02/26/2024 1726
GenX	ND	4.6	4.4		1	96	4.1	50-150	30	02/26/2024 1726
ADONA	ND	2.1	2.5		1	115	5.6	50-150	30	02/26/2024 1726
EtFOSA	ND	2.3	2.3		1	103	9.8	50-150	30	02/26/2024 1726
EtFOSAA	ND	2.3	2.5		1	109	2.7	50-150	30	02/26/2024 1726
EtFOSE	ND	2.3	2.3		1	99	0.99	50-150	30	02/26/2024 1726
MeFOSA	ND	2.3	2.6		1	115	2.3	50-150	30	02/26/2024 1726
MeFOSAA	ND	2.3	2.3		1	100	12	50-150	30	02/26/2024 1726
MeFOSE	ND	2.3	2.5		1	110	6.9	50-150	30	02/26/2024 1726
PFBS	ND	2.0	2.1		1	106	3.5	50-150	30	02/26/2024 1726
PFDS	ND	2.2	2.2		1	102	8.5	50-150	30	02/26/2024 1726
PFHpS	ND	2.2	2.1		1	95	13	50-150	30	02/26/2024 1726
PFNS	ND	2.2	2.4		1	112	0.095	50-150	30	02/26/2024 1726
PFOSA	ND	2.3	2.2		1	97	12	50-150	30	02/26/2024 1726
PFPeS	ND	2.1	2.2		1	104	12	50-150	30	02/26/2024 1726
PFDOS	ND	2.2	2.5		1	113	9.7	50-150	30	02/26/2024 1726
PFHxS	ND	2.1	2.2		1	107	9.4	50-150	30	02/26/2024 1726
PFBA	ND	2.3	2.4		1	107	1.4	50-150	30	02/26/2024 1726
PFDA	ND	2.3	2.5		1	112	8.6	50-150	30	02/26/2024 1726
PFDoA	ND	2.3	2.2		1	99	12	50-150	30	02/26/2024 1726
PFHpA	ND	2.3	2.5		1	111	1.3	50-150	30	02/26/2024 1726
PFHxDA	ND	2.3	2.3		1	99	2.1	50-150	30	02/26/2024 1726
PFHxA	ND	2.3	2.4		1	104	12	50-150	30	02/26/2024 1726
PFNA	ND	2.3	2.3		1	100	10	50-150	30	02/26/2024 1726
PFODA	ND	2.3	2.2		1	96	11	50-150	30	02/26/2024 1726
PFOA	ND	2.3	2.3		1	103	1.7	50-150	30	02/26/2024 1726
PFPeA	ND	2.3	2.3		1	100	0.62	50-150	30	02/26/2024 1726
PFTeDA	ND	2.3	2.4		1	106	4.4	50-150	30	02/26/2024 1726
PFTrDA	ND	2.3	2.1		1	93	15	50-150	30	02/26/2024 1726
PFUdA	ND	2.3	2.5		1	111	4.1	50-150	30	02/26/2024 1726
PFOS	ND	2.1	2.2		1	103	5.1	50-150	30	02/26/2024 1726

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		110	25-150
13C2_6:2FTS		108	25-150
13C2_8:2FTS		120	25-150
13C2_PFDoA		106	25-150
13C2_PFHxDA		119	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MSD

Sample ID: ZB21016-001MD
Batch: 97154
Analytical Method: PFAS by ID SOP

Matrix: Solid
Prep Method: SOP SPE
Prep Date: 02/25/2024 1946

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		113	25-150
13C3_PFBS		106	25-150
13C3_PFHxS		100	25-150
13C3-HFPO-DA		103	25-150
13C4_PFBA		101	25-150
13C4_PFHpA		98	25-150
13C5_PFHxA		95	25-150
13C5_PFPeA		104	25-150
13C6_PFDA		97	25-150
13C7_PFUdA		101	25-150
13C8_PFOA		106	25-150
13C8_PFOS		112	25-150
13C8_PFOSA		110	10-150
13C9_PFNA		99	25-150
d-EtFOSA		114	10-150
d5-EtFOSAA		102	25-150
d9-EtFOSE		119	10-150
d-MeFOSA		101	10-150
d3-MeFOSAA		98	25-150
d7-MeFOSE		117	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: ZQ97765-001
Batch: 97765
Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/05/2024 1607

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
9Cl-PF3ONS	ND		1	8.0	0.48	ng/L	03/07/2024 1835
11Cl-PF3OUdS	ND		1	8.0	0.66	ng/L	03/07/2024 1835
8:2 FTS	ND		1	8.0	1.6	ng/L	03/07/2024 1835
6:2 FTS	ND		1	8.0	2.0	ng/L	03/07/2024 1835
10:2 FTS	ND		1	8.0	1.2	ng/L	03/07/2024 1835
4:2 FTS	ND		1	8.0	0.87	ng/L	03/07/2024 1835
GenX	ND		1	8.0	2.1	ng/L	03/07/2024 1835
ADONA	ND		1	8.0	0.48	ng/L	03/07/2024 1835
EtFOSA	ND		1	8.0	1.4	ng/L	03/07/2024 1835
EtFOSAA	ND		1	8.0	0.75	ng/L	03/07/2024 1835
EtFOSE	ND		1	8.0	0.95	ng/L	03/07/2024 1835
MeFOSA	ND		1	16	1.3	ng/L	03/07/2024 1835
MeFOSAA	ND		1	8.0	0.93	ng/L	03/07/2024 1835
MeFOSE	ND		1	8.0	1.3	ng/L	03/07/2024 1835
PFBS	ND		1	4.0	0.41	ng/L	03/07/2024 1835
PFDS	ND		1	4.0	0.78	ng/L	03/07/2024 1835
PFHpS	ND		1	4.0	0.50	ng/L	03/07/2024 1835
PFNS	ND		1	4.0	0.71	ng/L	03/07/2024 1835
PFOSA	ND		1	4.0	0.61	ng/L	03/07/2024 1835
PFPeS	ND		1	4.0	0.59	ng/L	03/07/2024 1835
PFDOS	ND		1	8.0	1.0	ng/L	03/07/2024 1835
PFHxS	ND		1	4.0	0.55	ng/L	03/07/2024 1835
PFBA	ND		1	4.0	0.60	ng/L	03/07/2024 1835
PFDA	ND		1	4.0	0.52	ng/L	03/07/2024 1835
PFDoA	ND		1	4.0	0.47	ng/L	03/07/2024 1835
PFHpA	ND		1	4.0	0.45	ng/L	03/07/2024 1835
PFHxDA	ND		1	8.0	0.82	ng/L	03/07/2024 1835
PFHxA	ND		1	4.0	0.69	ng/L	03/07/2024 1835
PFNA	ND		1	4.0	0.46	ng/L	03/07/2024 1835
PFODA	ND		1	8.0	1.0	ng/L	03/07/2024 1835
PFOA	ND		1	4.0	0.83	ng/L	03/07/2024 1835
PFPeA	ND		1	4.0	0.54	ng/L	03/07/2024 1835
PFTeDA	ND		1	4.0	0.60	ng/L	03/07/2024 1835
PFTrDA	ND		1	4.0	0.53	ng/L	03/07/2024 1835
PFUdA	ND		1	4.0	0.63	ng/L	03/07/2024 1835
PFOS	ND		1	4.0	2.0	ng/L	03/07/2024 1835

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		104	25-150
13C2_6:2FTS		111	25-150
13C2_8:2FTS		116	25-150
13C2_PFDoA		104	25-150
13C2_PFHxDA		125	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: ZQ97765-001
Batch: 97765
Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/05/2024 1607

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		122	25-150
13C3_PFBS		114	25-150
13C3_PFHxS		116	25-150
13C3-HFPO-DA		115	25-150
13C4_PFBA		110	25-150
13C4_PFHpA		110	25-150
13C5_PFHxA		100	25-150
13C5_PFPeA		118	25-150
13C6_PFDA		106	25-150
13C7_PFUdA		102	25-150
13C8_PFOA		118	25-150
13C8_PFOS		105	25-150
13C8_PFOSA		104	10-150
13C9_PFNA		120	25-150
d-EtFOSA		73	10-150
d5-EtFOSAA		114	25-150
d9-EtFOSE		109	10-150
d-MeFOSA		71	10-150
d3-MeFOSAA		119	25-150
d7-MeFOSE		104	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: ZQ97765-002
Batch: 97765
Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/05/2024 1607

Parameter	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
9Cl-PF3ONS	15	16		1	105	50-150	03/07/2024 1846
11Cl-PF3OUdS	15	16		1	104	50-150	03/07/2024 1846
8:2 FTS	15	19		1	122	50-150	03/07/2024 1846
6:2 FTS	15	15		1	101	50-150	03/07/2024 1846
10:2 FTS	15	13		1	86	50-150	03/07/2024 1846
4:2 FTS	15	17		1	115	50-150	03/07/2024 1846
GenX	32	30		1	95	50-150	03/07/2024 1846
ADONA	15	16		1	105	50-150	03/07/2024 1846
EtFOSA	16	14		1	91	50-150	03/07/2024 1846
EtFOSAA	16	16		1	99	50-150	03/07/2024 1846
EtFOSE	16	14		1	86	50-150	03/07/2024 1846
MeFOSA	16	15		1	96	50-150	03/07/2024 1846
MeFOSAA	16	18		1	113	50-150	03/07/2024 1846
MeFOSE	16	14		1	87	50-150	03/07/2024 1846
PFBS	14	16		1	111	50-150	03/07/2024 1846
PFDS	15	17		1	110	50-150	03/07/2024 1846
PFHpS	15	15		1	102	50-150	03/07/2024 1846
PFNS	15	16		1	106	50-150	03/07/2024 1846
PFOSA	16	18		1	113	50-150	03/07/2024 1846
PFPeS	15	16		1	106	50-150	03/07/2024 1846
PFDOS	15	13		1	86	50-150	03/07/2024 1846
PFHxS	15	15		1	103	50-150	03/07/2024 1846
PFBA	16	17		1	108	50-150	03/07/2024 1846
PFDA	16	16		1	101	50-150	03/07/2024 1846
PFDoA	16	17		1	108	50-150	03/07/2024 1846
PFHpA	16	18		1	111	50-150	03/07/2024 1846
PFHxDA	16	16		1	97	50-150	03/07/2024 1846
PFHxA	16	16		1	100	50-150	03/07/2024 1846
PFNA	16	17		1	107	50-150	03/07/2024 1846
PFODA	16	16		1	98	50-150	03/07/2024 1846
PFOA	16	16		1	100	50-150	03/07/2024 1846
PFPeA	16	16		1	102	50-150	03/07/2024 1846
PFTeDA	16	19		1	117	50-150	03/07/2024 1846
PFTrDA	16	16		1	97	50-150	03/07/2024 1846
PFUdA	16	18		1	110	50-150	03/07/2024 1846
PFOS	15	18		1	118	50-150	03/07/2024 1846

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		95	25-150
13C2_6:2FTS		109	25-150
13C2_8:2FTS		97	25-150
13C2_PFDoA		87	25-150
13C2_PFHxDA		88	25-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: ZQ97765-002
Batch: 97765
Analytical Method: PFAS by ID SOP

Matrix: Aqueous
Prep Method: SOP SPE
Prep Date: 03/05/2024 1607

Surrogate	Q	% Rec	Acceptance Limit
13C2_PFTeDA		85	25-150
13C3_PFBS		96	25-150
13C3_PFHxS		100	25-150
13C3-HFPO-DA		93	25-150
13C4_PFBA		95	25-150
13C4_PFHpA		98	25-150
13C5_PFHxA		96	25-150
13C5_PFPeA		103	25-150
13C6_PFDA		89	25-150
13C7_PFUdA		83	25-150
13C8_PFOA		102	25-150
13C8_PFOS		83	25-150
13C8_PFOSA		89	10-150
13C9_PFNA		99	25-150
d-EtFOSA		67	10-150
d5-EtFOSAA		99	25-150
d9-EtFOSE		90	10-150
d-MeFOSA		60	10-150
d3-MeFOSAA		92	25-150
d7-MeFOSE		83	10-150

LOQ = Limit of Quantitation
DL = Detection Limit
ND = Not detected at or above the DL
J = Estimated result < LOQ and ≥ DL
* = RSD is out of criteria
N = Recovery is out of criteria
P = The RPD between two GC columns exceeds 40%
+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents

PACE ANALYTICAL SERVICES, LLC
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.pacelabs.com

Number 156382

Client: ATC	Report to Contact: LARRY GEORGE	Telephone No. / E-mail: LARRY.GEORGE@CNEATLAS.COM	Quote No.
Address: 2725 E MILLBROOK RD SUITE 121	Sampler's Signature:	Analysis (Attach list if more space is needed)	Page 1 of 1
City: RALEIGH State: NC Zip Code: 27604	Printed Name: LAURA DE SOUSA		
Project Name: GAITHER TRANSCO PROPERTY			

ZB21016

JSH

Project No.	P.O. No.		Container ID's	Matrix			No. of Containers by Preservative Type							PT-PAS 537.1								Remarks / Cooler I.D.
Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	G=Grab C=Composite	Aqueous	Solid	Non-aqueous	Unpres.	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Field Filtered									
TMW-1 SOIL	2/15/24	1140	C		X		X							X								
TMW-2 SOIL	2/15/24	1225	C		X		X							X								
EQUIP BLANK-1	2/15/24	1135	G	X			X							X								
DECON-WATER	2/15/24	1125	G	X			X							X								

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☐ Standard ☐ Rush (Specify)	**Sample Disposal** ☐ Return to Client ☐ Disposal by Lab	**Possible Hazard Identification** ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown		**QC Requirements (Specify)**	
1. Relinquished by	Date 2/15/24	Time 1800	1. Received by Mike Walker (PACE	Date 2/20/24	Time 1250
2. Relinquished by Mike Walker (PACE	Date 2/20/24	Time 1350	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Received by	Date	Time
4. Relinquished by fedex	Date 2.21.24	Time 945	4. Laboratory received by Karen Mann	Date 2-21-24	Time 945

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Circle) (Yes) No Ice Pack — Receipt Temp. 0.9 °C — Temp Blank ☑ Y ☐ N

DISTRIBUTION: WHITE & YELLOW Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME003N2-01

PACE ANALYTICAL SERVICES, LLC

DC#_Title: ENV-FRM-WCOL-0286 v02_Samples Receipt Checklist (SRC)
Effective Date: 8/2/2022

Sample Receipt Checklist (SRC)

Client: ATC Cooler Inspected by/date: KDRW / 02/21/2024 Lot #: 23B21016

Means of receipt: ☐ Pace ☐ Client ☐ UPS ☑ FedEx ☐ Other:

☐ Yes	☐ No		1. Were custody seals present on the cooler?
☐ Yes	☐ No	☐ NA	2. If custody seals were present, were they intact and unbroken?

pH Strip ID: NA Chlorine Strip ID: NA Tested by: KDR

Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: 23234/16

0.9 / 0.9 °C NA / NA °C NA/NA °C NA / NA °C

Method: ☐ Temperature Blank ☐ Against Bottles IR Gun ID: 8 IR Gun Correction Factor: 0 °C

Method of coolant: ☐ Wet Ice ☐ Ice Packs ☐ Dry Ice ☐ None

☑ Yes	☐ No	☐ NA	3. Were all coolers received at or below 6.0°C? If no, was Project Manager notified? PM was Notified by: phone / email / face-to-face (circle one).
☑ Yes	☐ No	☐ NA	4. Is the commercial courier's packing slip attached to this form?
✓ Yes	☐ No		5. Were proper custody procedures (relinquished/received) followed?
✓ Yes	☐ No		6. Were sample IDs listed on the COC and all sample containers?
✓ Yes	☐ No		7. Was collection date & time listed on the COC and all sample containers?
✓ Yes	☐ No		8. Did all container label information (ID, date, time) agree with the COC?
✓ Yes	☐ No		9. Were tests to be performed listed on the COC?
☑ Yes	☐ No		10. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
✓ Yes	☐ No		11. Was adequate sample volume available?
☐ Yes	☑ No		12. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
☑ Yes	☐ No		13. Were all samples containers accounted for? (No missing/excess)
☐ Yes	☐ No	☑ NA	14. Were VOA, 8015C and RSK-175 samples free of bubbles >"pea-size" (¼"or 6mm in diameter) in any of the VOA vials?
☐ Yes	☐ No	☑ NA	15. Were all DRO/metals/nutrient samples received at a pH of < 2?
☐ Yes	☐ No	☑ NA	16. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
☐ Yes	☐ No	☑ NA	17. Were all applicable NH_3/TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
☐ Yes	☑ No	☐ NA	18. Was the quote number listed on the container label? If yes, Quote #

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA. ☐
Time of preservation NA. If more than one preservative is needed, please note in the comments below.

Sample(s) NA were received with bubbles >6 mm in diameter.

Samples(s) NA were received with TRC > 0.5 mg/L (**If #19 is *no***) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Unique ID: NA.

Comments:

Qualtrax ID: 56360 Pace® Analytical Services, LLC Page 1 of 1

ANALYTICAL REPORT

March 05, 2024

ATC Group Services LLC

Sample Delivery Group:	L1709691
Samples Received:	02/27/2024
Project Number:	
Description:	Gaither Transou Property

Report To: Larry George
2725 E. Millbrook Road, Ste 121
Raleigh, NC 27604

Entire Report Reviewed By:

Heather J Wagner
Project Manager

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SAMPLE SUMMARY

SGP-SOIL L1709691-01 Solid

Collected by: Laura DeSousa | Collected date/time: 02/22/24 15:30 | Received date/time: 02/27/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2236435	1	02/29/24 07:45	02/29/24 07:54	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2238582	1.46	02/22/24 15:30	03/03/24 14:46	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2236012	1	02/29/24 06:46	03/01/24 03:35	AMS	Mt. Juliet, TN

TMW-1 SOIL L1709691-02 Solid

Collected by: Laura DeSousa | Collected date/time: 02/22/24 15:40 | Received date/time: 02/27/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2236435	1	02/29/24 07:45	02/29/24 07:54	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2238582	1.36	02/22/24 15:40	03/03/24 15:05	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2236012	1	02/29/24 06:46	03/01/24 00:24	AMS	Mt. Juliet, TN

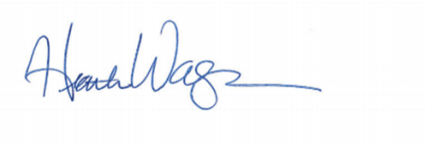
TMW-2 SOIL L1709691-03 Solid

Collected by: Laura DeSousa | Collected date/time: 02/22/24 15:50 | Received date/time: 02/27/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2236435	1	02/29/24 07:45	02/29/24 07:54	CMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2238582	1.2	02/22/24 15:50	03/03/24 15:24	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2236012	1	02/29/24 06:46	03/01/24 00:46	AMS	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.



Heather J Wagner
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.4		1	02/29/2024 07:54	WG2236435

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0826	0.113	1.46	03/03/2024 14:46	WG2238582
Acrylonitrile	U		0.00817	0.0284	1.46	03/03/2024 14:46	WG2238582
Benzene	U		0.00106	0.00226	1.46	03/03/2024 14:46	WG2238582
Bromobenzene	U		0.00203	0.0284	1.46	03/03/2024 14:46	WG2238582
Bromodichloromethane	U		0.00164	0.00566	1.46	03/03/2024 14:46	WG2238582
Bromoform	U		0.00265	0.0566	1.46	03/03/2024 14:46	WG2238582
Bromomethane	U		0.00447	0.0284	1.46	03/03/2024 14:46	WG2238582
n-Butylbenzene	U		0.0119	0.0284	1.46	03/03/2024 14:46	WG2238582
sec-Butylbenzene	U		0.00651	0.0284	1.46	03/03/2024 14:46	WG2238582
tert-Butylbenzene	U		0.00442	0.0113	1.46	03/03/2024 14:46	WG2238582
Carbon tetrachloride	U		0.00203	0.0113	1.46	03/03/2024 14:46	WG2238582
Chlorobenzene	U		0.000476	0.00566	1.46	03/03/2024 14:46	WG2238582
Chlorodibromomethane	U		0.00139	0.00566	1.46	03/03/2024 14:46	WG2238582
Chloroethane	U		0.00385	0.0113	1.46	03/03/2024 14:46	WG2238582
Chloroform	U		0.00233	0.00566	1.46	03/03/2024 14:46	WG2238582
Chloromethane	U		0.00985	0.0284	1.46	03/03/2024 14:46	WG2238582
2-Chlorotoluene	U		0.00195	0.00566	1.46	03/03/2024 14:46	WG2238582
4-Chlorotoluene	U		0.00102	0.0113	1.46	03/03/2024 14:46	WG2238582
1,2-Dibromo-3-Chloropropane	U		0.00882	0.0566	1.46	03/03/2024 14:46	WG2238582
1,2-Dibromoethane	U		0.00147	0.00566	1.46	03/03/2024 14:46	WG2238582
Dibromomethane	U		0.00171	0.0113	1.46	03/03/2024 14:46	WG2238582
1,2-Dichlorobenzene	U		0.000961	0.0113	1.46	03/03/2024 14:46	WG2238582
1,3-Dichlorobenzene	U		0.00136	0.0113	1.46	03/03/2024 14:46	WG2238582
1,4-Dichlorobenzene	U		0.00158	0.0113	1.46	03/03/2024 14:46	WG2238582
Dichlorodifluoromethane	U	C3	0.00364	0.0113	1.46	03/03/2024 14:46	WG2238582
1,1-Dichloroethane	U		0.00111	0.00566	1.46	03/03/2024 14:46	WG2238582
1,2-Dichloroethane	U		0.00147	0.00566	1.46	03/03/2024 14:46	WG2238582
1,1-Dichloroethene	U		0.00137	0.00566	1.46	03/03/2024 14:46	WG2238582
cis-1,2-Dichloroethene	U		0.00166	0.00566	1.46	03/03/2024 14:46	WG2238582
trans-1,2-Dichloroethene	U		0.00236	0.0113	1.46	03/03/2024 14:46	WG2238582
1,2-Dichloropropane	U		0.00321	0.0113	1.46	03/03/2024 14:46	WG2238582
1,1-Dichloropropene	U		0.00183	0.00566	1.46	03/03/2024 14:46	WG2238582
1,3-Dichloropropane	U		0.00113	0.0113	1.46	03/03/2024 14:46	WG2238582
cis-1,3-Dichloropropene	U		0.00172	0.00566	1.46	03/03/2024 14:46	WG2238582
trans-1,3-Dichloropropene	U		0.00257	0.0113	1.46	03/03/2024 14:46	WG2238582
2,2-Dichloropropane	U		0.00312	0.00566	1.46	03/03/2024 14:46	WG2238582
Di-isopropyl ether	U		0.000929	0.00226	1.46	03/03/2024 14:46	WG2238582
Ethylbenzene	0.00493	J	0.00167	0.00566	1.46	03/03/2024 14:46	WG2238582
Hexachloro-1,3-butadiene	U	C3	0.0136	0.0566	1.46	03/03/2024 14:46	WG2238582
Isopropylbenzene	0.00164	J	0.000961	0.00566	1.46	03/03/2024 14:46	WG2238582
p-Isopropyltoluene	U		0.00577	0.0113	1.46	03/03/2024 14:46	WG2238582
2-Butanone (MEK)	U		0.144	0.226	1.46	03/03/2024 14:46	WG2238582
Methylene Chloride	U		0.0150	0.0566	1.46	03/03/2024 14:46	WG2238582
4-Methyl-2-pentanone (MIBK)	U		0.00516	0.0566	1.46	03/03/2024 14:46	WG2238582
Methyl tert-butyl ether	U		0.000792	0.00226	1.46	03/03/2024 14:46	WG2238582
Naphthalene	U	C3	0.0110	0.0284	1.46	03/03/2024 14:46	WG2238582
n-Propylbenzene	0.00820	J	0.00216	0.0113	1.46	03/03/2024 14:46	WG2238582
Styrene	U		0.000518	0.0284	1.46	03/03/2024 14:46	WG2238582
1,1,1,2-Tetrachloroethane	U		0.00214	0.00566	1.46	03/03/2024 14:46	WG2238582
1,1,2,2-Tetrachloroethane	U		0.00157	0.00566	1.46	03/03/2024 14:46	WG2238582

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.00171	0.00566	1.46	03/03/2024 14:46	WG2238582
Tetrachloroethene	U		0.00203	0.00566	1.46	03/03/2024 14:46	WG2238582
Toluene	0.00702	J	0.00295	0.0113	1.46	03/03/2024 14:46	WG2238582
1,2,3-Trichlorobenzene	U	C3 J3	0.0166	0.0284	1.46	03/03/2024 14:46	WG2238582
1,2,4-Trichlorobenzene	U	C3	0.00995	0.0284	1.46	03/03/2024 14:46	WG2238582
1,1,1-Trichloroethane	U		0.00209	0.00566	1.46	03/03/2024 14:46	WG2238582
1,1,2-Trichloroethane	U		0.00135	0.00566	1.46	03/03/2024 14:46	WG2238582
Trichloroethene	U		0.00132	0.00226	1.46	03/03/2024 14:46	WG2238582
Trichlorofluoromethane	U		0.00188	0.00566	1.46	03/03/2024 14:46	WG2238582
1,2,3-Trichloropropane	U		0.00367	0.0284	1.46	03/03/2024 14:46	WG2238582
1,2,4-Trimethylbenzene	0.0420		0.00358	0.0113	1.46	03/03/2024 14:46	WG2238582
1,2,3-Trimethylbenzene	0.00854	J	0.00358	0.0113	1.46	03/03/2024 14:46	WG2238582
1,3,5-Trimethylbenzene	0.0163		0.00453	0.0113	1.46	03/03/2024 14:46	WG2238582
Vinyl chloride	U		0.00262	0.00566	1.46	03/03/2024 14:46	WG2238582
Xylenes, Total	0.0721		0.00198	0.0147	1.46	03/03/2024 14:46	WG2238582
(S) Toluene-d8	*105*			*75.0-131*		*03/03/2024 14:46*	WG2238582
(S) 4-Bromofluorobenzene	*104*			*67.0-138*		*03/03/2024 14:46*	WG2238582
(S) 1,2-Dichloroethane-d4	*94.9*			*70.0-130*		*03/03/2024 14:46*	WG2238582

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00715	0.0442	1	03/01/2024 03:35	WG2236012
Acenaphthylene	U		0.00622	0.0442	1	03/01/2024 03:35	WG2236012
Anthracene	0.0149	J	0.00787	0.0442	1	03/01/2024 03:35	WG2236012
Benzidine	U		0.0830	2.22	1	03/01/2024 03:35	WG2236012
Benzo(a)anthracene	U		0.00779	0.0442	1	03/01/2024 03:35	WG2236012
Benzo(b)fluoranthene	U		0.00824	0.0442	1	03/01/2024 03:35	WG2236012
Benzo(k)fluoranthene	U		0.00785	0.0442	1	03/01/2024 03:35	WG2236012
Benzo(g,h,i)perylene	U		0.00808	0.0442	1	03/01/2024 03:35	WG2236012
Benzo(a)pyrene	U		0.00821	0.0442	1	03/01/2024 03:35	WG2236012
Bis(2-chlorethoxy)methane	U		0.0133	0.442	1	03/01/2024 03:35	WG2236012
Bis(2-chloroethyl)ether	U		0.0146	0.442	1	03/01/2024 03:35	WG2236012
2,2-Oxybis(1-Chloropropane)	U		0.0191	0.442	1	03/01/2024 03:35	WG2236012
4-Bromophenyl-phenylether	U		0.0155	0.442	1	03/01/2024 03:35	WG2236012
2-Chloronaphthalene	U		0.00776	0.0442	1	03/01/2024 03:35	WG2236012
4-Chlorophenyl-phenylether	U		0.0154	0.442	1	03/01/2024 03:35	WG2236012
Chrysene	U		0.00878	0.0442	1	03/01/2024 03:35	WG2236012
Dibenz(a,h)anthracene	U		0.0122	0.0442	1	03/01/2024 03:35	WG2236012
3,3-Dichlorobenzidine	U		0.0163	0.442	1	03/01/2024 03:35	WG2236012
2,4-Dinitrotoluene	U		0.0127	0.442	1	03/01/2024 03:35	WG2236012
2,6-Dinitrotoluene	U		0.0145	0.442	1	03/01/2024 03:35	WG2236012
Fluoranthene	0.0235	J	0.00797	0.0442	1	03/01/2024 03:35	WG2236012
Fluorene	0.00982	J	0.00719	0.0442	1	03/01/2024 03:35	WG2236012
Hexachlorobenzene	U		0.0157	0.442	1	03/01/2024 03:35	WG2236012
Hexachloro-1,3-butadiene	U		0.0149	0.442	1	03/01/2024 03:35	WG2236012
Hexachlorocyclopentadiene	U		0.0232	0.442	1	03/01/2024 03:35	WG2236012
Hexachloroethane	U		0.0174	0.442	1	03/01/2024 03:35	WG2236012
Indeno(1,2,3-cd)pyrene	U		0.0125	0.0442	1	03/01/2024 03:35	WG2236012
Isophorone	U		0.0135	0.442	1	03/01/2024 03:35	WG2236012
Naphthalene	U		0.0111	0.0442	1	03/01/2024 03:35	WG2236012
Nitrobenzene	U		0.0154	0.442	1	03/01/2024 03:35	WG2236012
n-Nitrosodimethylamine	U		0.0655	0.442	1	03/01/2024 03:35	WG2236012
n-Nitrosodiphenylamine	U		0.0334	0.442	1	03/01/2024 03:35	WG2236012
n-Nitrosodi-n-propylamine	U		0.0147	0.442	1	03/01/2024 03:35	WG2236012
Phenanthrene	0.0516		0.00877	0.0442	1	03/01/2024 03:35	WG2236012

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzylbutyl phthalate	U		0.0138	0.442	1	03/01/2024 03:35	WG2236012
Bis(2-ethylhexyl)phthalate	U		0.0560	0.442	1	03/01/2024 03:35	WG2236012
Di-n-butyl phthalate	U		0.0151	0.442	1	03/01/2024 03:35	WG2236012
Diethyl phthalate	U		0.0146	0.442	1	03/01/2024 03:35	WG2236012
Dimethyl phthalate	U		0.0937	0.442	1	03/01/2024 03:35	WG2236012
Di-n-octyl phthalate	U		0.0298	0.442	1	03/01/2024 03:35	WG2236012
Pyrene	0.0179	J	0.00860	0.0442	1	03/01/2024 03:35	WG2236012
1,2,4-Trichlorobenzene	U		0.0138	0.442	1	03/01/2024 03:35	WG2236012
4-Chloro-3-methylphenol	U		0.0143	0.442	1	03/01/2024 03:35	WG2236012
2-Chlorophenol	U		0.0146	0.442	1	03/01/2024 03:35	WG2236012
2,4-Dichlorophenol	U		0.0129	0.442	1	03/01/2024 03:35	WG2236012
2,4-Dimethylphenol	U		0.0115	0.442	1	03/01/2024 03:35	WG2236012
4,6-Dinitro-2-methylphenol	U		0.100	0.442	1	03/01/2024 03:35	WG2236012
2,4-Dinitrophenol	U		0.103	0.442	1	03/01/2024 03:35	WG2236012
2-Nitrophenol	U		0.0158	0.442	1	03/01/2024 03:35	WG2236012
4-Nitrophenol	U		0.0138	0.442	1	03/01/2024 03:35	WG2236012
Pentachlorophenol	U		0.0119	0.442	1	03/01/2024 03:35	WG2236012
Phenol	U		0.0178	0.442	1	03/01/2024 03:35	WG2236012
2,4,6-Trichlorophenol	U		0.0142	0.442	1	03/01/2024 03:35	WG2236012
(S) 2-Fluorophenol	*57.6*			*12.0-120*		*03/01/2024 03:35*	WG2236012
(S) Phenol-d5	*55.7*			*10.0-120*		*03/01/2024 03:35*	WG2236012
(S) Nitrobenzene-d5	*49.8*			*10.0-122*		*03/01/2024 03:35*	WG2236012
(S) 2-Fluorobiphenyl	*60.6*			*15.0-120*		*03/01/2024 03:35*	WG2236012
(S) 2,4,6-Tribromophenol	*83.8*			*10.0-127*		*03/01/2024 03:35*	WG2236012
(S) p-Terphenyl-d14	*71.7*			*10.0-120*		*03/01/2024 03:35*	WG2236012

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	70.6		1	02/29/2024 07:54	WG2236435

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0854	0.117	1.36	03/03/2024 15:05	WG2238582
Acrylonitrile	U		0.00845	0.0293	1.36	03/03/2024 15:05	WG2238582
Benzene	U		0.00109	0.00234	1.36	03/03/2024 15:05	WG2238582
Bromobenzene	U		0.00210	0.0293	1.36	03/03/2024 15:05	WG2238582
Bromodichloromethane	U		0.00170	0.00585	1.36	03/03/2024 15:05	WG2238582
Bromoform	U		0.00274	0.0585	1.36	03/03/2024 15:05	WG2238582
Bromomethane	U		0.00461	0.0293	1.36	03/03/2024 15:05	WG2238582
n-Butylbenzene	U		0.0123	0.0293	1.36	03/03/2024 15:05	WG2238582
sec-Butylbenzene	U		0.00675	0.0293	1.36	03/03/2024 15:05	WG2238582
tert-Butylbenzene	U		0.00456	0.0117	1.36	03/03/2024 15:05	WG2238582
Carbon tetrachloride	U		0.00210	0.0117	1.36	03/03/2024 15:05	WG2238582
Chlorobenzene	U		0.000492	0.00585	1.36	03/03/2024 15:05	WG2238582
Chlorodibromomethane	U		0.00143	0.00585	1.36	03/03/2024 15:05	WG2238582
Chloroethane	U		0.00398	0.0117	1.36	03/03/2024 15:05	WG2238582
Chloroform	U		0.00241	0.00585	1.36	03/03/2024 15:05	WG2238582
Chloromethane	U		0.0102	0.0293	1.36	03/03/2024 15:05	WG2238582
2-Chlorotoluene	U		0.00203	0.00585	1.36	03/03/2024 15:05	WG2238582
4-Chlorotoluene	U		0.00105	0.0117	1.36	03/03/2024 15:05	WG2238582
1,2-Dibromo-3-Chloropropane	U		0.00912	0.0585	1.36	03/03/2024 15:05	WG2238582
1,2-Dibromoethane	U		0.00152	0.00585	1.36	03/03/2024 15:05	WG2238582
Dibromomethane	U		0.00176	0.0117	1.36	03/03/2024 15:05	WG2238582
1,2-Dichlorobenzene	U		0.000995	0.0117	1.36	03/03/2024 15:05	WG2238582
1,3-Dichlorobenzene	U		0.00140	0.0117	1.36	03/03/2024 15:05	WG2238582
1,4-Dichlorobenzene	U		0.00164	0.0117	1.36	03/03/2024 15:05	WG2238582
Dichlorodifluoromethane	U	C3	0.00377	0.0117	1.36	03/03/2024 15:05	WG2238582
1,1-Dichloroethane	U		0.00115	0.00585	1.36	03/03/2024 15:05	WG2238582
1,2-Dichloroethane	U		0.00152	0.00585	1.36	03/03/2024 15:05	WG2238582
1,1-Dichloroethene	U		0.00142	0.00585	1.36	03/03/2024 15:05	WG2238582
cis-1,2-Dichloroethene	U		0.00172	0.00585	1.36	03/03/2024 15:05	WG2238582
trans-1,2-Dichloroethene	U		0.00243	0.0117	1.36	03/03/2024 15:05	WG2238582
1,2-Dichloropropane	U		0.00332	0.0117	1.36	03/03/2024 15:05	WG2238582
1,1-Dichloropropene	U		0.00189	0.00585	1.36	03/03/2024 15:05	WG2238582
1,3-Dichloropropane	U		0.00117	0.0117	1.36	03/03/2024 15:05	WG2238582
cis-1,3-Dichloropropene	U		0.00177	0.00585	1.36	03/03/2024 15:05	WG2238582
trans-1,3-Dichloropropene	U		0.00267	0.0117	1.36	03/03/2024 15:05	WG2238582
2,2-Dichloropropane	U		0.00324	0.00585	1.36	03/03/2024 15:05	WG2238582
Di-isopropyl ether	U		0.000960	0.00234	1.36	03/03/2024 15:05	WG2238582
Ethylbenzene	U		0.00172	0.00585	1.36	03/03/2024 15:05	WG2238582
Hexachloro-1,3-butadiene	U	C3	0.0140	0.0585	1.36	03/03/2024 15:05	WG2238582
Isopropylbenzene	U		0.000995	0.00585	1.36	03/03/2024 15:05	WG2238582
p-Isopropyltoluene	U		0.00597	0.0117	1.36	03/03/2024 15:05	WG2238582
2-Butanone (MEK)	U		0.149	0.234	1.36	03/03/2024 15:05	WG2238582
Methylene Chloride	U		0.0155	0.0585	1.36	03/03/2024 15:05	WG2238582
4-Methyl-2-pentanone (MIBK)	U		0.00534	0.0585	1.36	03/03/2024 15:05	WG2238582
Methyl tert-butyl ether	U		0.000819	0.00234	1.36	03/03/2024 15:05	WG2238582
Naphthalene	U	C3	0.0114	0.0293	1.36	03/03/2024 15:05	WG2238582
n-Propylbenzene	U		0.00222	0.0117	1.36	03/03/2024 15:05	WG2238582
Styrene	U		0.000535	0.0293	1.36	03/03/2024 15:05	WG2238582
1,1,1,2-Tetrachloroethane	U		0.00222	0.00585	1.36	03/03/2024 15:05	WG2238582
1,1,2,2-Tetrachloroethane	U		0.00163	0.00585	1.36	03/03/2024 15:05	WG2238582

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

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.00177	0.00585	1.36	03/03/2024 15:05	WG2238582
Tetrachloroethene	U		0.00210	0.00585	1.36	03/03/2024 15:05	WG2238582
Toluene	U		0.00305	0.0117	1.36	03/03/2024 15:05	WG2238582
1,2,3-Trichlorobenzene	U	C3 J3	0.0172	0.0293	1.36	03/03/2024 15:05	WG2238582
1,2,4-Trichlorobenzene	U	C3	0.0103	0.0293	1.36	03/03/2024 15:05	WG2238582
1,1,1-Trichloroethane	U		0.00217	0.00585	1.36	03/03/2024 15:05	WG2238582
1,1,2-Trichloroethane	U		0.00140	0.00585	1.36	03/03/2024 15:05	WG2238582
Trichloroethene	U		0.00137	0.00234	1.36	03/03/2024 15:05	WG2238582
Trichlorofluoromethane	U		0.00193	0.00585	1.36	03/03/2024 15:05	WG2238582
1,2,3-Trichloropropane	U		0.00379	0.0293	1.36	03/03/2024 15:05	WG2238582
1,2,4-Trimethylbenzene	U		0.00370	0.0117	1.36	03/03/2024 15:05	WG2238582
1,2,3-Trimethylbenzene	U		0.00370	0.0117	1.36	03/03/2024 15:05	WG2238582
1,3,5-Trimethylbenzene	U		0.00468	0.0117	1.36	03/03/2024 15:05	WG2238582
Vinyl chloride	U		0.00272	0.00585	1.36	03/03/2024 15:05	WG2238582
Xylenes, Total	U		0.00207	0.0152	1.36	03/03/2024 15:05	WG2238582
(S) Toluene-d8	*104*			*75.0-131*		*03/03/2024 15:05*	WG2238582
(S) 4-Bromofluorobenzene	*96.6*			*67.0-138*		*03/03/2024 15:05*	WG2238582
(S) 1,2-Dichloroethane-d4	*95.1*			*70.0-130*		*03/03/2024 15:05*	WG2238582

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00763	0.0471	1	03/01/2024 00:24	WG2236012
Acenaphthylene	U		0.00664	0.0471	1	03/01/2024 00:24	WG2236012
Anthracene	U		0.00839	0.0471	1	03/01/2024 00:24	WG2236012
Benzidine	U		0.0886	2.36	1	03/01/2024 00:24	WG2236012
Benzo(a)anthracene	U		0.00831	0.0471	1	03/01/2024 00:24	WG2236012
Benzo(b)fluoranthene	U		0.00879	0.0471	1	03/01/2024 00:24	WG2236012
Benzo(k)fluoranthene	U		0.00838	0.0471	1	03/01/2024 00:24	WG2236012
Benzo(g,h,i)perylene	U		0.00862	0.0471	1	03/01/2024 00:24	WG2236012
Benzo(a)pyrene	U		0.00876	0.0471	1	03/01/2024 00:24	WG2236012
Bis(2-chlorethoxy)methane	U		0.0142	0.471	1	03/01/2024 00:24	WG2236012
Bis(2-chloroethyl)ether	U		0.0156	0.471	1	03/01/2024 00:24	WG2236012
2,2-Oxybis(1-Chloropropane)	U		0.0204	0.471	1	03/01/2024 00:24	WG2236012
4-Bromophenyl-phenylether	U		0.0166	0.471	1	03/01/2024 00:24	WG2236012
2-Chloronaphthalene	U		0.00828	0.0471	1	03/01/2024 00:24	WG2236012
4-Chlorophenyl-phenylether	U		0.0164	0.471	1	03/01/2024 00:24	WG2236012
Chrysene	U		0.00937	0.0471	1	03/01/2024 00:24	WG2236012
Dibenz(a,h)anthracene	U		0.0131	0.0471	1	03/01/2024 00:24	WG2236012
3,3-Dichlorobenzidine	U		0.0174	0.471	1	03/01/2024 00:24	WG2236012
2,4-Dinitrotoluene	U		0.0135	0.471	1	03/01/2024 00:24	WG2236012
2,6-Dinitrotoluene	U		0.0154	0.471	1	03/01/2024 00:24	WG2236012
Fluoranthene	U		0.00851	0.0471	1	03/01/2024 00:24	WG2236012
Fluorene	U		0.00767	0.0471	1	03/01/2024 00:24	WG2236012
Hexachlorobenzene	U		0.0167	0.471	1	03/01/2024 00:24	WG2236012
Hexachloro-1,3-butadiene	U		0.0159	0.471	1	03/01/2024 00:24	WG2236012
Hexachlorocyclopentadiene	U		0.0248	0.471	1	03/01/2024 00:24	WG2236012
Hexachloroethane	U		0.0185	0.471	1	03/01/2024 00:24	WG2236012
Indeno(1,2,3-cd)pyrene	U		0.0133	0.0471	1	03/01/2024 00:24	WG2236012
Isophorone	U		0.0144	0.471	1	03/01/2024 00:24	WG2236012
Naphthalene	U		0.0118	0.0471	1	03/01/2024 00:24	WG2236012
Nitrobenzene	U		0.0164	0.471	1	03/01/2024 00:24	WG2236012
n-Nitrosodimethylamine	U		0.0699	0.471	1	03/01/2024 00:24	WG2236012
n-Nitrosodiphenylamine	U		0.0357	0.471	1	03/01/2024 00:24	WG2236012
n-Nitrosodi-n-propylamine	U		0.0157	0.471	1	03/01/2024 00:24	WG2236012
Phenanthrene	U		0.00936	0.0471	1	03/01/2024 00:24	WG2236012

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzylbutyl phthalate	U		0.0147	0.471	1	03/01/2024 00:24	WG2236012
Bis(2-ethylhexyl)phthalate	U		0.0597	0.471	1	03/01/2024 00:24	WG2236012
Di-n-butyl phthalate	U		0.0161	0.471	1	03/01/2024 00:24	WG2236012
Diethyl phthalate	U		0.0156	0.471	1	03/01/2024 00:24	WG2236012
Dimethyl phthalate	U		0.0999	0.471	1	03/01/2024 00:24	WG2236012
Di-n-octyl phthalate	U		0.0319	0.471	1	03/01/2024 00:24	WG2236012
Pyrene	U		0.00917	0.0471	1	03/01/2024 00:24	WG2236012
1,2,4-Trichlorobenzene	U		0.0147	0.471	1	03/01/2024 00:24	WG2236012
4-Chloro-3-methylphenol	U		0.0153	0.471	1	03/01/2024 00:24	WG2236012
2-Chlorophenol	U		0.0156	0.471	1	03/01/2024 00:24	WG2236012
2,4-Dichlorophenol	U		0.0137	0.471	1	03/01/2024 00:24	WG2236012
2,4-Dimethylphenol	U		0.0123	0.471	1	03/01/2024 00:24	WG2236012
4,6-Dinitro-2-methylphenol	U		0.107	0.471	1	03/01/2024 00:24	WG2236012
2,4-Dinitrophenol	U		0.110	0.471	1	03/01/2024 00:24	WG2236012
2-Nitrophenol	U		0.0168	0.471	1	03/01/2024 00:24	WG2236012
4-Nitrophenol	U		0.0147	0.471	1	03/01/2024 00:24	WG2236012
Pentachlorophenol	U		0.0127	0.471	1	03/01/2024 00:24	WG2236012
Phenol	U		0.0190	0.471	1	03/01/2024 00:24	WG2236012
2,4,6-Trichlorophenol	U		0.0151	0.471	1	03/01/2024 00:24	WG2236012
(S) 2-Fluorophenol	*56.2*			*12.0-120*		*03/01/2024 00:24*	WG2236012
(S) Phenol-d5	*50.2*			*10.0-120*		*03/01/2024 00:24*	WG2236012
(S) Nitrobenzene-d5	*43.8*			*10.0-122*		*03/01/2024 00:24*	WG2236012
(S) 2-Fluorobiphenyl	*54.7*			*15.0-120*		*03/01/2024 00:24*	WG2236012
(S) 2,4,6-Tribromophenol	*69.5*			*10.0-127*		*03/01/2024 00:24*	WG2236012
(S) p-Terphenyl-d14	*65.7*			*10.0-120*		*03/01/2024 00:24*	WG2236012

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

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	62.7		1	02/29/2024 07:54	WG2236435

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

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0915	0.125	1.2	03/03/2024 15:24	WG2238582
Acrylonitrile	U		0.00904	0.0313	1.2	03/03/2024 15:24	WG2238582
Benzene	U		0.00117	0.00251	1.2	03/03/2024 15:24	WG2238582
Bromobenzene	U		0.00226	0.0313	1.2	03/03/2024 15:24	WG2238582
Bromodichloromethane	U		0.00182	0.00627	1.2	03/03/2024 15:24	WG2238582
Bromoform	U		0.00292	0.0627	1.2	03/03/2024 15:24	WG2238582
Bromomethane	U		0.00493	0.0313	1.2	03/03/2024 15:24	WG2238582
n-Butylbenzene	U		0.0132	0.0313	1.2	03/03/2024 15:24	WG2238582
sec-Butylbenzene	U		0.00723	0.0313	1.2	03/03/2024 15:24	WG2238582
tert-Butylbenzene	U		0.00489	0.0125	1.2	03/03/2024 15:24	WG2238582
Carbon tetrachloride	U		0.00226	0.0125	1.2	03/03/2024 15:24	WG2238582
Chlorobenzene	U		0.000526	0.00627	1.2	03/03/2024 15:24	WG2238582
Chlorodibromomethane	U		0.00153	0.00627	1.2	03/03/2024 15:24	WG2238582
Chloroethane	U		0.00426	0.0125	1.2	03/03/2024 15:24	WG2238582
Chloroform	U		0.00259	0.00627	1.2	03/03/2024 15:24	WG2238582
Chloromethane	U		0.0109	0.0313	1.2	03/03/2024 15:24	WG2238582
2-Chlorotoluene	U		0.00217	0.00627	1.2	03/03/2024 15:24	WG2238582
4-Chlorotoluene	U		0.00113	0.0125	1.2	03/03/2024 15:24	WG2238582
1,2-Dibromo-3-Chloropropane	U		0.00978	0.0627	1.2	03/03/2024 15:24	WG2238582
1,2-Dibromoethane	U		0.00163	0.00627	1.2	03/03/2024 15:24	WG2238582
Dibromomethane	U		0.00188	0.0125	1.2	03/03/2024 15:24	WG2238582
1,2-Dichlorobenzene	U		0.00107	0.0125	1.2	03/03/2024 15:24	WG2238582
1,3-Dichlorobenzene	U		0.00150	0.0125	1.2	03/03/2024 15:24	WG2238582
1,4-Dichlorobenzene	U		0.00175	0.0125	1.2	03/03/2024 15:24	WG2238582
Dichlorodifluoromethane	U	C3	0.00403	0.0125	1.2	03/03/2024 15:24	WG2238582
1,1-Dichloroethane	U		0.00123	0.00627	1.2	03/03/2024 15:24	WG2238582
1,2-Dichloroethane	U		0.00163	0.00627	1.2	03/03/2024 15:24	WG2238582
1,1-Dichloroethene	U		0.00152	0.00627	1.2	03/03/2024 15:24	WG2238582
cis-1,2-Dichloroethene	U		0.00184	0.00627	1.2	03/03/2024 15:24	WG2238582
trans-1,2-Dichloroethene	U		0.00261	0.0125	1.2	03/03/2024 15:24	WG2238582
1,2-Dichloropropane	U		0.00355	0.0125	1.2	03/03/2024 15:24	WG2238582
1,1-Dichloropropene	U		0.00203	0.00627	1.2	03/03/2024 15:24	WG2238582
1,3-Dichloropropane	U		0.00126	0.0125	1.2	03/03/2024 15:24	WG2238582
cis-1,3-Dichloropropene	U		0.00190	0.00627	1.2	03/03/2024 15:24	WG2238582
trans-1,3-Dichloropropene	U		0.00286	0.0125	1.2	03/03/2024 15:24	WG2238582
2,2-Dichloropropane	U		0.00347	0.00627	1.2	03/03/2024 15:24	WG2238582
Di-isopropyl ether	U		0.00103	0.00251	1.2	03/03/2024 15:24	WG2238582
Ethylbenzene	U		0.00185	0.00627	1.2	03/03/2024 15:24	WG2238582
Hexachloro-1,3-butadiene	U	C3	0.0150	0.0627	1.2	03/03/2024 15:24	WG2238582
Isopropylbenzene	U		0.00107	0.00627	1.2	03/03/2024 15:24	WG2238582
p-Isopropyltoluene	U		0.00639	0.0125	1.2	03/03/2024 15:24	WG2238582
2-Butanone (MEK)	U		0.159	0.251	1.2	03/03/2024 15:24	WG2238582
Methylene Chloride	U		0.0166	0.0627	1.2	03/03/2024 15:24	WG2238582
4-Methyl-2-pentanone (MIBK)	U		0.00572	0.0627	1.2	03/03/2024 15:24	WG2238582
Methyl tert-butyl ether	U		0.000877	0.00251	1.2	03/03/2024 15:24	WG2238582
Naphthalene	U	C3	0.0122	0.0313	1.2	03/03/2024 15:24	WG2238582
n-Propylbenzene	U		0.00238	0.0125	1.2	03/03/2024 15:24	WG2238582
Styrene	U		0.000574	0.0313	1.2	03/03/2024 15:24	WG2238582
1,1,1,2-Tetrachloroethane	U		0.00238	0.00627	1.2	03/03/2024 15:24	WG2238582
1,1,2,2-Tetrachloroethane	U		0.00174	0.00627	1.2	03/03/2024 15:24	WG2238582

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	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.00189	0.00627	1.2	03/03/2024 15:24	WG2238582
Tetrachloroethene	U		0.00226	0.00627	1.2	03/03/2024 15:24	WG2238582
Toluene	U		0.00326	0.0125	1.2	03/03/2024 15:24	WG2238582
1,2,3-Trichlorobenzene	U	C3 J3	0.0184	0.0313	1.2	03/03/2024 15:24	WG2238582
1,2,4-Trichlorobenzene	U	C3	0.0110	0.0313	1.2	03/03/2024 15:24	WG2238582
1,1,1-Trichloroethane	U		0.00232	0.00627	1.2	03/03/2024 15:24	WG2238582
1,1,2-Trichloroethane	U		0.00150	0.00627	1.2	03/03/2024 15:24	WG2238582
Trichloroethene	U		0.00146	0.00251	1.2	03/03/2024 15:24	WG2238582
Trichlorofluoromethane	U		0.00207	0.00627	1.2	03/03/2024 15:24	WG2238582
1,2,3-Trichloropropane	U		0.00405	0.0313	1.2	03/03/2024 15:24	WG2238582
1,2,4-Trimethylbenzene	U		0.00397	0.0125	1.2	03/03/2024 15:24	WG2238582
1,2,3-Trimethylbenzene	U		0.00397	0.0125	1.2	03/03/2024 15:24	WG2238582
1,3,5-Trimethylbenzene	U		0.00501	0.0125	1.2	03/03/2024 15:24	WG2238582
Vinyl chloride	U		0.00290	0.00627	1.2	03/03/2024 15:24	WG2238582
Xylenes, Total	U		0.00221	0.0163	1.2	03/03/2024 15:24	WG2238582
(S) Toluene-d8	*103*			*75.0-131*		*03/03/2024 15:24*	WG2238582
(S) 4-Bromofluorobenzene	*97.5*			*67.0-138*		*03/03/2024 15:24*	WG2238582
(S) 1,2-Dichloroethane-d4	*92.4*			*70.0-130*		*03/03/2024 15:24*	WG2238582

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00859	0.0531	1	03/01/2024 00:46	WG2236012
Acenaphthylene	U		0.00748	0.0531	1	03/01/2024 00:46	WG2236012
Anthracene	U		0.00945	0.0531	1	03/01/2024 00:46	WG2236012
Benzidine	U		0.0998	2.66	1	03/01/2024 00:46	WG2236012
Benzo(a)anthracene	U		0.00936	0.0531	1	03/01/2024 00:46	WG2236012
Benzo(b)fluoranthene	U		0.00990	0.0531	1	03/01/2024 00:46	WG2236012
Benzo(k)fluoranthene	U		0.00944	0.0531	1	03/01/2024 00:46	WG2236012
Benzo(g,h,i)perylene	U		0.00971	0.0531	1	03/01/2024 00:46	WG2236012
Benzo(a)pyrene	U		0.00987	0.0531	1	03/01/2024 00:46	WG2236012
Bis(2-chlorethoxy)methane	U		0.0159	0.531	1	03/01/2024 00:46	WG2236012
Bis(2-chloroethyl)ether	U		0.0175	0.531	1	03/01/2024 00:46	WG2236012
2,2-Oxybis(1-Chloropropane)	U		0.0230	0.531	1	03/01/2024 00:46	WG2236012
4-Bromophenyl-phenylether	U		0.0186	0.531	1	03/01/2024 00:46	WG2236012
2-Chloronaphthalene	U		0.00932	0.0531	1	03/01/2024 00:46	WG2236012
4-Chlorophenyl-phenylether	U		0.0185	0.531	1	03/01/2024 00:46	WG2236012
Chrysene	U		0.0106	0.0531	1	03/01/2024 00:46	WG2236012
Dibenz(a,h)anthracene	U		0.0147	0.0531	1	03/01/2024 00:46	WG2236012
3,3-Dichlorobenzidine	U		0.0196	0.531	1	03/01/2024 00:46	WG2236012
2,4-Dinitrotoluene	U		0.0152	0.531	1	03/01/2024 00:46	WG2236012
2,6-Dinitrotoluene	U		0.0174	0.531	1	03/01/2024 00:46	WG2236012
Fluoranthene	U		0.00958	0.0531	1	03/01/2024 00:46	WG2236012
Fluorene	U		0.00864	0.0531	1	03/01/2024 00:46	WG2236012
Hexachlorobenzene	U		0.0188	0.531	1	03/01/2024 00:46	WG2236012
Hexachloro-1,3-butadiene	U		0.0179	0.531	1	03/01/2024 00:46	WG2236012
Hexachlorocyclopentadiene	U		0.0279	0.531	1	03/01/2024 00:46	WG2236012
Hexachloroethane	U		0.0209	0.531	1	03/01/2024 00:46	WG2236012
Indeno(1,2,3-cd)pyrene	U		0.0150	0.0531	1	03/01/2024 00:46	WG2236012
Isophorone	U		0.0163	0.531	1	03/01/2024 00:46	WG2236012
Naphthalene	U		0.0133	0.0531	1	03/01/2024 00:46	WG2236012
Nitrobenzene	U		0.0185	0.531	1	03/01/2024 00:46	WG2236012
n-Nitrosodimethylamine	U		0.0787	0.531	1	03/01/2024 00:46	WG2236012
n-Nitrosodiphenylamine	U		0.0402	0.531	1	03/01/2024 00:46	WG2236012
n-Nitrosodi-n-propylamine	U		0.0177	0.531	1	03/01/2024 00:46	WG2236012
Phenanthrene	U		0.0105	0.0531	1	03/01/2024 00:46	WG2236012

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Benzylbutyl phthalate	U		0.0166	0.531	1	03/01/2024 00:46	WG2236012
Bis(2-ethylhexyl)phthalate	U		0.0673	0.531	1	03/01/2024 00:46	WG2236012
Di-n-butyl phthalate	U		0.0182	0.531	1	03/01/2024 00:46	WG2236012
Diethyl phthalate	U		0.0175	0.531	1	03/01/2024 00:46	WG2236012
Dimethyl phthalate	U		0.113	0.531	1	03/01/2024 00:46	WG2236012
Di-n-octyl phthalate	U		0.0359	0.531	1	03/01/2024 00:46	WG2236012
Pyrene	U		0.0103	0.0531	1	03/01/2024 00:46	WG2236012
1,2,4-Trichlorobenzene	U		0.0166	0.531	1	03/01/2024 00:46	WG2236012
4-Chloro-3-methylphenol	U		0.0172	0.531	1	03/01/2024 00:46	WG2236012
2-Chlorophenol	U		0.0175	0.531	1	03/01/2024 00:46	WG2236012
2,4-Dichlorophenol	U		0.0155	0.531	1	03/01/2024 00:46	WG2236012
2,4-Dimethylphenol	U		0.0139	0.531	1	03/01/2024 00:46	WG2236012
4,6-Dinitro-2-methylphenol	U		0.120	0.531	1	03/01/2024 00:46	WG2236012
2,4-Dinitrophenol	U		0.124	0.531	1	03/01/2024 00:46	WG2236012
2-Nitrophenol	U		0.0190	0.531	1	03/01/2024 00:46	WG2236012
4-Nitrophenol	U		0.0166	0.531	1	03/01/2024 00:46	WG2236012
Pentachlorophenol	U		0.0143	0.531	1	03/01/2024 00:46	WG2236012
Phenol	U		0.0214	0.531	1	03/01/2024 00:46	WG2236012
2,4,6-Trichlorophenol	U		0.0171	0.531	1	03/01/2024 00:46	WG2236012
(S) 2-Fluorophenol	*61.6*			*12.0-120*		*03/01/2024 00:46*	WG2236012
(S) Phenol-d5	*55.5*			*10.0-120*		*03/01/2024 00:46*	WG2236012
(S) Nitrobenzene-d5	*51.4*			*10.0-122*		*03/01/2024 00:46*	WG2236012
(S) 2-Fluorobiphenyl	*59.0*			*15.0-120*		*03/01/2024 00:46*	WG2236012
(S) 2,4,6-Tribromophenol	*68.2*			*10.0-127*		*03/01/2024 00:46*	WG2236012
(S) p-Terphenyl-d14	*66.4*			*10.0-120*		*03/01/2024 00:46*	WG2236012

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

Method Blank (MB)

(MB) R4040253-1 02/29/24 07:54

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

L1709823-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1709823-03 02/29/24 07:54 • (DUP) R4040253-3 02/29/24 07:54

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	81.9	84.7	1	3.45		10

Laboratory Control Sample (LCS)

(LCS) R4040253-2 02/29/24 07:54

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) R4041737-3 03/03/24 06:51

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) R4041737-3 03/03/24 06:51

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
1,1,2-Trichlorotrifluoroethane	U		0.000754	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
1,2,3-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	*105*			*75.0-131*
(S) 4-Bromofluorobenzene	*92.9*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*97.3*			*70.0-130*

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

(LCS) R4041737-1 03/03/24 05:34 • (LCSD) R4041737-2 03/03/24 05:53

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	0.778	0.826	124	132	10.0-160			5.99	31
Acrylonitrile	0.625	0.733	0.774	117	124	45.0-153			5.44	22
Benzene	0.125	0.118	0.124	94.4	99.2	70.0-123			4.96	20
Bromobenzene	0.125	0.129	0.141	103	113	73.0-121			8.89	20
Bromodichloromethane	0.125	0.113	0.121	90.4	96.8	73.0-121			6.84	20

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

(LCS) R4041737-1 03/03/24 05:34 • (LCSD) R4041737-2 03/03/24 05:53

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 %
Bromoform	0.125	0.110	0.115	88.0	92.0	64.0-132			4.44	20
Bromomethane	0.125	0.114	0.122	91.2	97.6	56.0-147			6.78	20
n-Butylbenzene	0.125	0.120	0.124	96.0	99.2	68.0-135			3.28	20
sec-Butylbenzene	0.125	0.134	0.144	107	115	74.0-130			7.19	20
tert-Butylbenzene	0.125	0.123	0.136	98.4	109	75.0-127			10.0	20
Carbon tetrachloride	0.125	0.130	0.137	104	110	66.0-128			5.24	20
Chlorobenzene	0.125	0.121	0.127	96.8	102	76.0-128			4.84	20
Chlorodibromomethane	0.125	0.115	0.122	92.0	97.6	74.0-127			5.91	20
Chloroethane	0.125	0.125	0.128	100	102	61.0-134			2.37	20
Chloroform	0.125	0.117	0.122	93.6	97.6	72.0-123			4.18	20
Chloromethane	0.125	0.129	0.134	103	107	51.0-138			3.80	20
2-Chlorotoluene	0.125	0.122	0.136	97.6	109	75.0-124			10.9	20
4-Chlorotoluene	0.125	0.130	0.139	104	111	75.0-124			6.69	20
1,2-Dibromo-3-Chloropropane	0.125	0.107	0.119	85.6	95.2	59.0-130			10.6	20
1,2-Dibromoethane	0.125	0.114	0.119	91.2	95.2	74.0-128			4.29	20
Dibromomethane	0.125	0.118	0.127	94.4	102	75.0-122			7.35	20
1,2-Dichlorobenzene	0.125	0.122	0.132	97.6	106	76.0-124			7.87	20
1,3-Dichlorobenzene	0.125	0.121	0.129	96.8	103	76.0-125			6.40	20
1,4-Dichlorobenzene	0.125	0.120	0.128	96.0	102	77.0-121			6.45	20
Dichlorodifluoromethane	0.125	0.0897	0.0805	71.8	64.4	43.0-156			10.8	20
1,1-Dichloroethane	0.125	0.132	0.137	106	110	70.0-127			3.72	20
1,2-Dichloroethane	0.125	0.122	0.126	97.6	101	65.0-131			3.23	20
1,1-Dichloroethene	0.125	0.130	0.139	104	111	65.0-131			6.69	20
cis-1,2-Dichloroethene	0.125	0.112	0.117	89.6	93.6	73.0-125			4.37	20
trans-1,2-Dichloroethene	0.125	0.122	0.129	97.6	103	71.0-125			5.58	20
1,2-Dichloropropane	0.125	0.127	0.133	102	106	74.0-125			4.62	20
1,1-Dichloropropene	0.125	0.134	0.138	107	110	73.0-125			2.94	20
1,3-Dichloropropane	0.125	0.121	0.128	96.8	102	80.0-125			5.62	20
cis-1,3-Dichloropropene	0.125	0.115	0.119	92.0	95.2	76.0-127			3.42	20
trans-1,3-Dichloropropene	0.125	0.117	0.122	93.6	97.6	73.0-127			4.18	20
2,2-Dichloropropane	0.125	0.112	0.120	89.6	96.0	59.0-135			6.90	20
Di-isopropyl ether	0.125	0.132	0.144	106	115	60.0-136			8.70	20
Ethylbenzene	0.125	0.119	0.129	95.2	103	74.0-126			8.06	20
Hexachloro-1,3-butadiene	0.125	0.0945	0.112	75.6	89.6	57.0-150			16.9	20
Isopropylbenzene	0.125	0.128	0.136	102	109	72.0-127			6.06	20
p-Isopropyltoluene	0.125	0.129	0.141	103	113	72.0-133			8.89	20
2-Butanone (MEK)	0.625	0.687	0.736	110	118	30.0-160			6.89	24
Methylene Chloride	0.125	0.111	0.118	88.8	94.4	68.0-123			6.11	20
4-Methyl-2-pentanone (MIBK)	0.625	0.748	0.807	120	129	56.0-143			7.59	20
Methyl tert-butyl ether	0.125	0.126	0.134	101	107	66.0-132			6.15	20

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

(LCS) R4041737-1 03/03/24 05:34 • (LCSD) R4041737-2 03/03/24 05:53

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 %
Naphthalene	0.125	0.0753	0.0913	60.2	73.0	59.0-130			19.2	20
n-Propylbenzene	0.125	0.134	0.145	107	116	74.0-126			7.89	20
Styrene	0.125	0.118	0.124	94.4	99.2	72.0-127			4.96	20
1,1,1,2-Tetrachloroethane	0.125	0.120	0.124	96.0	99.2	74.0-129			3.28	20
1,1,2,2-Tetrachloroethane	0.125	0.122	0.125	97.6	100	68.0-128			2.43	20
1,1,2-Trichlorotrifluoroethane	0.125	0.118	0.112	94.4	89.6	61.0-139			5.22	20
Tetrachloroethene	0.125	0.121	0.129	96.8	103	70.0-136			6.40	20
Toluene	0.125	0.125	0.131	100	105	75.0-121			4.69	20
1,2,3-Trichlorobenzene	0.125	0.0841	0.103	67.3	82.4	59.0-139		J3	20.2	20
1,2,4-Trichlorobenzene	0.125	0.0954	0.108	76.3	86.4	62.0-137			12.4	20
1,1,1-Trichloroethane	0.125	0.135	0.138	108	110	69.0-126			2.20	20
1,1,2-Trichloroethane	0.125	0.119	0.124	95.2	99.2	78.0-123			4.12	20
Trichloroethene	0.125	0.127	0.130	102	104	76.0-126			2.33	20
Trichlorofluoromethane	0.125	0.115	0.115	92.0	92.0	61.0-142			0.000	20
1,2,3-Trichloropropane	0.125	0.136	0.146	109	117	67.0-129			7.09	20
1,2,4-Trimethylbenzene	0.125	0.126	0.136	101	109	70.0-126			7.63	20
1,2,3-Trimethylbenzene	0.125	0.123	0.133	98.4	106	74.0-124			7.81	20
1,3,5-Trimethylbenzene	0.125	0.126	0.138	101	110	73.0-127			9.09	20
Vinyl chloride	0.125	0.125	0.129	100	103	63.0-134			3.15	20
Xylenes, Total	0.375	0.364	0.383	97.1	102	72.0-127			5.09	20
(S) Toluene-d8				*100*	*100*	*75.0-131*				
(S) 4-Bromofluorobenzene				*98.6*	*96.1*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*105*	*103*	*70.0-130*				

Method Blank (MB)

(MB) R4040453-2 02/29/24 23:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00539	0.0333
Acenaphthylene	U		0.00469	0.0333
Anthracene	U		0.00593	0.0333
Benzidine	U		0.0626	1.67
Benzo(a)anthracene	U		0.00587	0.0333
Benzo(b)fluoranthene	U		0.00621	0.0333
Benzo(k)fluoranthene	U		0.00592	0.0333
Benzo(g,h,i)perylene	U		0.00609	0.0333
Benzo(a)pyrene	U		0.00619	0.0333
Bis(2-chlorethoxy)methane	U		0.0100	0.333
Bis(2-chloroethyl)ether	U		0.0110	0.333
2,2-Oxybis(1-Chloropropane)	U		0.0144	0.333
4-Bromophenyl-phenylether	U		0.0117	0.333
2-Chloronaphthalene	U		0.00585	0.0333
4-Chlorophenyl-phenylether	U		0.0116	0.333
Chrysene	U		0.00662	0.0333
Dibenz(a,h)anthracene	U		0.00923	0.0333
3,3-Dichlorobenzidine	U		0.0123	0.333
2,4-Dinitrotoluene	U		0.00955	0.333
2,6-Dinitrotoluene	U		0.0109	0.333
Fluoranthene	U		0.00601	0.0333
Fluorene	U		0.00542	0.0333
Hexachlorobenzene	U		0.0118	0.333
Hexachloro-1,3-butadiene	U		0.0112	0.333
Hexachlorocyclopentadiene	U		0.0175	0.333
Hexachloroethane	U		0.0131	0.333
Indeno(1,2,3-cd)pyrene	U		0.00941	0.0333
Isophorone	U		0.0102	0.333
Naphthalene	U		0.00836	0.0333
Nitrobenzene	U		0.0116	0.333
n-Nitrosodimethylamine	U		0.0494	0.333
n-Nitrosodiphenylamine	U		0.0252	0.333
n-Nitrosodi-n-propylamine	U		0.0111	0.333
Phenanthrene	U		0.00661	0.0333
Benzylbutyl phthalate	U		0.0104	0.333
Bis(2-ethylhexyl)phthalate	U		0.0422	0.333
Di-n-butyl phthalate	U		0.0114	0.333
Diethyl phthalate	U		0.0110	0.333
Dimethyl phthalate	U		0.0706	0.333
Di-n-octyl phthalate	U		0.0225	0.333

Method Blank (MB)

(MB) R4040453-2 02/29/24 23:42

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pyrene	U		0.00648	0.0333
1,2,4-Trichlorobenzene	U		0.0104	0.333
4-Chloro-3-methylphenol	U		0.0108	0.333
2-Chlorophenol	U		0.0110	0.333
2,4-Dichlorophenol	U		0.00970	0.333
2,4-Dimethylphenol	U		0.00870	0.333
4,6-Dinitro-2-methylphenol	U		0.0755	0.333
2,4-Dinitrophenol	U		0.0779	0.333
2-Nitrophenol	U		0.0119	0.333
4-Nitrophenol	U		0.0104	0.333
Pentachlorophenol	U		0.00896	0.333
Phenol	U		0.0134	0.333
2,4,6-Trichlorophenol	U		0.0107	0.333
(S) 2-Fluorophenol	*69.4*			*12.0-120*
(S) Phenol-d5	*62.0*			*10.0-120*
(S) Nitrobenzene-d5	*57.4*			*10.0-122*
(S) 2-Fluorobiphenyl	*67.0*			*15.0-120*
(S) 2,4,6-Tribromophenol	*71.6*			*10.0-127*
(S) p-Terphenyl-d14	*77.5*			*10.0-120*

Laboratory Control Sample (LCS)

(LCS) R4040453-1 02/29/24 23:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.666	0.430	64.6	38.0-120	
Acenaphthylene	0.666	0.460	69.1	40.0-120	
Anthracene	0.666	0.502	75.4	42.0-120	
Benzidine	1.33	0.662	49.8	10.0-120	
Benzo(a)anthracene	0.666	0.496	74.5	44.0-120	
Benzo(b)fluoranthene	0.666	0.482	72.4	43.0-120	
Benzo(k)fluoranthene	0.666	0.469	70.4	44.0-120	
Benzo(g,h,i)perylene	0.666	0.471	70.7	43.0-120	
Benzo(a)pyrene	0.666	0.486	73.0	45.0-120	
Bis(2-chlorethoxy)methane	0.666	0.331	49.7	20.0-120	
Bis(2-chloroethyl)ether	0.666	0.363	54.5	16.0-120	
2,2-Oxybis(1-Chloropropane)	0.666	0.377	56.6	23.0-120	
4-Bromophenyl-phenylether	0.666	0.477	71.6	40.0-120	
2-Chloronaphthalene	0.666	0.414	62.2	35.0-120	

Laboratory Control Sample (LCS)

(LCS) R4040453-1 02/29/24 23:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Chlorophenyl-phenylether	0.666	0.457	68.6	40.0-120	
Chrysene	0.666	0.489	73.4	43.0-120	
Dibenz(a,h)anthracene	0.666	0.495	74.3	44.0-120	
3,3-Dichlorobenzidine	1.33	0.965	72.6	28.0-120	
2,4-Dinitrotoluene	0.666	0.504	75.7	45.0-120	
2,6-Dinitrotoluene	0.666	0.480	72.1	42.0-120	
Fluoranthene	0.666	0.483	72.5	44.0-120	
Fluorene	0.666	0.446	67.0	41.0-120	
Hexachlorobenzene	0.666	0.469	70.4	39.0-120	
Hexachloro-1,3-butadiene	0.666	0.322	48.3	15.0-120	
Hexachlorocyclopentadiene	0.666	0.268	40.2	15.0-120	
Hexachloroethane	0.666	0.350	52.6	17.0-120	
Indeno(1,2,3-cd)pyrene	0.666	0.502	75.4	45.0-120	
Isophorone	0.666	0.330	49.5	23.0-120	
Naphthalene	0.666	0.326	48.9	18.0-120	
Nitrobenzene	0.666	0.323	48.5	17.0-120	
n-Nitrosodimethylamine	0.666	0.391	58.7	10.0-125	
n-Nitrosodiphenylamine	0.666	0.451	67.7	40.0-120	
n-Nitrosodi-n-propylamine	0.666	0.379	56.9	26.0-120	
Phenanthrene	0.666	0.468	70.3	42.0-120	
Benzylbutyl phthalate	0.666	0.525	78.8	40.0-120	
Bis(2-ethylhexyl)phthalate	0.666	0.528	79.3	41.0-120	
Di-n-butyl phthalate	0.666	0.481	72.2	43.0-120	
Diethyl phthalate	0.666	0.483	72.5	43.0-120	
Dimethyl phthalate	0.666	0.469	70.4	43.0-120	
Di-n-octyl phthalate	0.666	0.523	78.5	40.0-120	
Pyrene	0.666	0.509	76.4	41.0-120	
1,2,4-Trichlorobenzene	0.666	0.336	50.5	17.0-120	
4-Chloro-3-methylphenol	0.666	0.373	56.0	28.0-120	
2-Chlorophenol	0.666	0.390	58.6	28.0-120	
2,4-Dichlorophenol	0.666	0.382	57.4	25.0-120	
2,4-Dimethylphenol	0.666	0.405	60.8	15.0-120	
4,6-Dinitro-2-methylphenol	0.666	0.529	79.4	16.0-120	
2,4-Dinitrophenol	0.666	0.396	59.5	10.0-120	
2-Nitrophenol	0.666	0.386	58.0	20.0-120	
4-Nitrophenol	0.666	0.528	79.3	27.0-120	
Pentachlorophenol	0.666	0.434	65.2	29.0-120	
Phenol	0.666	0.379	56.9	28.0-120	
2,4,6-Trichlorophenol	0.666	0.468	70.3	37.0-120	
(S) 2-Fluorophenol			*62.6*	*12.0-120*	

Laboratory Control Sample (LCS)

(LCS) R4040453-1 02/29/24 23:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) Phenol-d5			*56.6*	*10.0-120*	
(S) Nitrobenzene-d5			*52.9*	*10.0-122*	
(S) 2-Fluorobiphenyl			*62.2*	*15.0-120*	
(S) 2,4,6-Tribromophenol			*81.1*	*10.0-127*	
(S) p-Terphenyl-d14			*75.4*	*10.0-120*	

L1709657-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1709657-01 03/01/24 01:28 • (MS) R4040453-3 03/01/24 01:49 • (MSD) R4040453-4 03/01/24 02:10

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.644	U	0.334	0.338	51.9	52.2	1	18.0-120			1.19	32
Acenaphthylene	0.644	U	0.363	0.369	56.4	56.9	1	25.0-120			1.64	32
Anthracene	0.644	U	0.418	0.404	64.9	62.3	1	22.0-120			3.41	29
Benzidine	1.29	U	ND	ND	0.000	0.000	1	10.0-120	J6	J6	0.000	40
Benzo(a)anthracene	0.644	U	0.435	0.394	67.5	60.8	1	25.0-120			9.89	29
Benzo(b)fluoranthene	0.644	U	0.409	0.382	63.5	59.0	1	19.0-122			6.83	31
Benzo(k)fluoranthene	0.644	U	0.407	0.377	63.2	58.2	1	23.0-120			7.65	30
Benzo(g,h,i)perylene	0.644	U	0.398	0.362	61.8	55.9	1	10.0-120			9.47	33
Benzo(a)pyrene	0.644	U	0.412	0.381	64.0	58.8	1	24.0-120			7.82	30
Bis(2-chlorethoxy)methane	0.644	U	0.273	0.282	42.4	43.5	1	10.0-120			3.24	34
Bis(2-chloroethyl)ether	0.644	U	0.386	0.410	59.9	63.3	1	10.0-120			6.03	40
2,2-Oxybis(1-Chloropropane)	0.644	U	0.303	0.305	47.0	47.1	1	10.0-120			0.658	40
4-Bromophenyl-phenylether	0.644	U	0.397	0.371	61.6	57.3	1	27.0-120			6.77	30
2-Chloronaphthalene	0.644	U	0.329	0.327	51.1	50.5	1	20.0-120			0.610	32
4-Chlorophenyl-phenylether	0.644	U	0.370	0.365	57.5	56.3	1	24.0-120			1.36	29
Chrysene	0.644	U	0.425	0.386	66.0	59.6	1	21.0-120			9.62	29
Dibenz(a,h)anthracene	0.644	U	0.406	0.376	63.0	58.0	1	10.0-120			7.67	32
3,3-Dichlorobenzidine	1.29	U	0.465	0.414	36.0	31.8	1	10.0-120			11.6	34
2,4-Dinitrotoluene	0.644	U	0.409	0.401	63.5	61.9	1	30.0-120			1.98	31
2,6-Dinitrotoluene	0.644	U	0.392	0.383	60.9	59.1	1	25.0-120			2.32	31
Fluoranthene	0.644	U	0.421	0.396	65.4	61.1	1	18.0-126			6.12	32
Fluorene	0.644	U	0.359	0.347	55.7	53.5	1	25.0-120			3.40	30
Hexachlorobenzene	0.644	U	0.382	0.369	59.3	56.9	1	27.0-120			3.46	28
Hexachloro-1,3-butadiene	0.644	U	0.263	0.263	40.8	40.6	1	10.0-120			0.000	38
Hexachlorocyclopentadiene	0.644	U	0.232	0.229	36.0	35.3	1	10.0-120			1.30	40
Hexachloroethane	0.644	U	0.283	0.284	43.9	43.8	1	10.0-120			0.353	40
Indeno(1,2,3-cd)pyrene	0.644	U	0.422	0.388	65.5	59.9	1	10.0-120			8.40	32
Isophorone	0.644	U	0.275	0.281	42.7	43.4	1	13.0-120			2.16	34

L1709657-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1709657-01 03/01/24 01:28 • (MS) R4040453-3 03/01/24 01:49 • (MSD) R4040453-4 03/01/24 02:10

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.644	U	0.269	0.275	41.8	42.4	1	10.0-120			2.21	35
Nitrobenzene	0.644	U	0.266	0.275	41.3	42.4	1	10.0-120			3.33	36
n-Nitrosodimethylamine	0.644	U	0.271	0.301	42.1	46.5	1	10.0-127			10.5	40
n-Nitrosodiphenylamine	0.644	U	0.326	0.322	50.6	49.7	1	17.0-120			1.23	29
n-Nitrosodi-n-propylamine	0.644	U	0.309	0.325	48.0	50.2	1	10.0-120			5.05	37
Phenanthrene	0.644	U	0.386	0.376	59.9	58.0	1	17.0-120			2.62	31
Benzylbutyl phthalate	0.644	U	0.498	0.434	77.3	67.0	1	23.0-120			13.7	30
Bis(2-ethylhexyl)phthalate	0.644	U	0.463	0.418	71.9	64.5	1	17.0-126			10.2	30
Di-n-butyl phthalate	0.644	U	0.431	0.393	66.9	60.6	1	30.0-120			9.22	29
Diethyl phthalate	0.644	U	0.407	0.389	63.2	60.0	1	26.0-120			4.52	28
Dimethyl phthalate	0.644	U	0.393	0.379	61.0	58.5	1	25.0-120			3.63	29
Di-n-octyl phthalate	0.644	U	0.478	0.436	74.2	67.3	1	21.0-123			9.19	29
Pyrene	0.644	U	0.447	0.415	69.4	64.0	1	16.0-121			7.42	32
1,2,4-Trichlorobenzene	0.644	U	0.277	0.273	43.0	42.1	1	12.0-120			1.45	37
4-Chloro-3-methylphenol	0.644	U	0.308	0.308	47.8	47.5	1	15.0-120			0.000	30
2-Chlorophenol	0.644	U	0.318	0.334	49.4	51.5	1	15.0-120			4.91	37
2,4-Dichlorophenol	0.644	U	0.301	0.308	46.7	47.5	1	20.0-120			2.30	31
2,4-Dimethylphenol	0.644	U	0.247	0.265	38.4	40.9	1	10.0-120			7.03	33
4,6-Dinitro-2-methylphenol	0.644	U	0.456	0.451	70.8	69.6	1	10.0-120			1.10	39
2,4-Dinitrophenol	0.644	U	0.393	0.409	61.0	63.1	1	10.0-121			3.99	40
2-Nitrophenol	0.644	U	0.324	0.340	50.3	52.5	1	12.0-120			4.82	39
4-Nitrophenol	0.644	U	0.488	0.460	75.8	71.0	1	10.0-137			5.91	32
Pentachlorophenol	0.644	U	0.442	0.411	68.6	63.4	1	10.0-160			7.27	31
Phenol	0.644	U	0.144	0.160	22.4	24.7	1	12.0-120			10.5	38
2,4,6-Trichlorophenol	0.644	U	0.389	0.386	60.4	59.6	1	19.0-120			0.774	32
(S) 2-Fluorophenol					*51.7*	*54.9*		*12.0-120*				
(S) Phenol-d5					*20.5*	*23.8*		*10.0-120*				
(S) Nitrobenzene-d5					*35.1*	*36.1*		*10.0-122*				
(S) 2-Fluorobiphenyl					*52.8*	*52.8*		*15.0-120*				
(S) 2,4,6-Tribromophenol					*71.9*	*70.8*		*10.0-127*				
(S) p-Terphenyl-d14					*70.5*	*65.1*		*10.0-120*				

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.
MDL (dry)	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.
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:
ATC Group Services LLC
2725 E. Millbrook Rd STE 121
Raleigh, NC 27604

Billing Information:

Report to: Larry George

Email To: **larry.george@oneatlas.com**

Project Description: GAITHER TRANSOU PROPERTY

City/State Collected:

Phone: **919-872-2660**
Fax: **919-876-3958**

Client Project #

Lab Project #

Collected by (print): LAURA DESOUSA

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	SVOC8270 - 4oz clr	8260 - 40ml methanol,syr	Trip Blank 8260	Rem./Contaminant	Sample # (lab only)
SGP-SOIL	C	SS	—	2/22/24	1530	2	X	X			-01
TMW-1 SOIL	C	SS	—	2/22/24	1540	2	X	X			-02
TMW-2 SOIL	C	SS	—	2/22/24	1550	2	X	X			-03

Chain of Custody Page 1 of 1

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1709691
D185

Acctnum: ATCRNC
Template:
Prelogin:
TSR: Wagner
Cooler:
Shipped Via: Raleigh Serv

Sample Receipt Checklist

COC Seal Present/Intact:	Y N	If Applicable	
COC Signed/Accurate:	Y N	VOA Zero Headspace:	Y N
Bottles arrive intact:	Y N	Pres. Correct/Check:	Y N
Correct bottles used:	Y N		
Sufficient volume sent:	Y N		
RA Screen <0.5 mR/hr:	Y N		

TRIP BLANK

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Remarks: 7155030933 72

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____	Condition: (lab use only)
	2/22/24	2030	2/26/24 1150 PACE		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: DIA9 °C Bottles Received:	COC Seal Intact: ___Y ___N ___NA
PACE	2/26/24	1245		0.8+0=0.8 6	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:	pH Checked: / NCF:
				2-27-24 9:00	

APPENDIX F

NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY RISK CALULCATORS

North Carolina Department of Environmental Quality
Risk Calculator

Version Date:	February 2024
Basis:	November 2023 EPA RSL Table
Site Name:	Gaither Transou Property
Site Address:	1202 Guilford College Road, Jamestown, Guilford County
DEQ Section:	Superfund Section, Inactive Hazardous Sites Branch
Site ID:	NONCD0000024
Exposure Unit ID:	Individual Sample Locations, See Data Output
Submittal Date:	5/30/2024
Prepared By:	ATC Associates of NC P.C.
	2725 E Millbrook Road, Suite 121, Raleigh, NC 27604
Reviewed By:	Lawrence M. George

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Version Date: February 2024
Basis: November 2023 EPA RSL Table

Site ID: NONCD0000024

Exposure Unit ID: Individual Sample Locations, See Data Output

Complete Exposure Pathways		Input Form 1A
Version Date: February 2024 **Basis: November 2023 EPA RSL Table**		
Site ID: NONCD0000024		
Exposure Unit ID: Individual Sample Locations, See Data Output		
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 Factors and Target Risks **Input Form 1B**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: NONCD0000024

Exposure Unit ID: Individual Sample Locations, See Data Output

Exposure Parameter	Default Value	Site Specific Value	Justification
General			
Target Cancer Risk (individual)	1.0E-06	1.0E-06	
Target Cancer Risk (cumulative)	1.0E-04	1.0E-04	
Target Hazard Index (individual)	2.0E-01	2.0E-01	
Target Hazard Index (cumulative)	1.0E+00	1.0E+00	
Residential Child			
Lifetime (LT) (years)	70	70	
Body Weight (BW) (kg)	15	15	
Exposure Duration (ED) (yr)	6	6	
Exposure Frequency (EF) (d/yr)	350	350	
Exposure Time (ET) (hr/d)	24	24	
Skin Surface Area - Soil Exposure (SA_s) (cm2)	2373	2373	
Soil Adherence Factor (AF) (mg/cm^2)	0.2	0.2	
Soil Ingestion Rate (IRS) (mg/day)	200	200	
Skin Surface Area - Water Exposure (SA_w) (cm2)	6365	6365	
Water Ingestion Rate (IRW) (L/d)	0.78	0.78	
Water Exposure Time (ET_{event}) (hr/event)	0.54	0.54	
Water Event Frequency (EV) (events/day)	1	1	
Residential Adult			
Lifetime (LT) (years)	70	70	
Body Weight (BW) (kg)	80	80	
Exposure Duration (ED) (yr)	20	20	
Exposure Frequency (EF) (d/yr)	350	350	
Exposure Time (ET) (hr/d)	24	24	
Skin Surface Area - Soil Exposure (SA_s) (cm^2)	6032	6032	
Soil Adherence Factor (AF) (mg/cm^2)	0.07	0.07	
Soil Ingestion Rate (IRS) (mg/day)	100	100	
Skin Surface Area - Water Exposure (SA_w) (cm^2)	19652	19652	
Water Ingestion Rate (IRW) (L/d)	2.5	2.5	
Water Exposure Time (ET_{event}) (hr/event)	0.71	0.71	
Water Event Frequency (EV) (events/day)	1	1	
Non-Residential Worker			
Lifetime (LT) (years)	70	70	
Body Weight (BW) (kg)	80	80	
Exposure Duration (ED) (yr)	25	25	
Exposure Frequency (EF) (d/yr)	250	250	
Exposure Time (ET) (hr/d)	8	8	
Skin Surface Area - Soil Exposure (SA_s) (cm^2)	3527	3527	
Soil Adherence Factor (AF) (mg/cm^2)	0.12	0.12	
Soil Ingestion Rate (IR) (mg/day)	100	100	
Skin Surface Area - Water Exposure (SA_w) (cm^2)	19652	19652	
Water Ingestion Rate (IRW) (L/d)	0.83	0.83	
Water Exposure Time (ET_{event}) (hr/event)	0.67	0.67	
Water Event Frequency (EV) (events/day)	1	1	
Construction Worker			
Lifetime (LT) (years)	70	70	
Body Weight (BW) (kg)	80	80	
Working Weeks (EW) (wk/yr)	50	50	
Exposure Duration (ED) (yr)	1	1	
Exposure Frequency (EF) (d/yr)	250	250	
Exposure Time (ET) (hr/d)	8	8	
Skin Surface Area - Soil Exposure (SA_s) (cm^2)	3527	3527	
Soil Adherence Factor (AF) (mg/cm^2)	0.3	0.3	
Soil Ingestion Rate (IR) (mg/day)	330	330	

Exposure Factors and Target Risks **Input Form 1B**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: NONCD0000024

Exposure Unit ID: Individual Sample Locations, See Data Output

Exposure Parameter	Default Value		Site Specific Value	Justification
User Defined Child				
	Recreator	Trespasser		
Lifetime (LT) (years)	70	NA	70	
Averaging Time (AT) (days/yr)	365	NA	365	
Body Weight (BW) (kg)	15	NA	15	
Exposure Duration 0-2 (ED) (yr)	2	NA	2	
Exposure Duration 2-6 (ED) (yr)	4	NA	4	
Exposure Frequency (EF) (d/yr)	195	NA	195	
Exposure Time (ET) (hr/d)	2	NA	2	
Skin Surface Area - Soil Exposure (SA_s) (cm^2)	2373	NA	2373	
Soil Adherence Factor (AF) (mg/cm^2)	0.2	NA	0.2	
Soil Ingestion Rate (IRS) (mg/day)	200	NA	200	
Skin Surface Area - Water Exposure (SA_w) (cm^2)	6365	NA	6365	
Water Ingestion Rate (IRW) (L/hr)	0.12	NA	0.12	
Water Exposure Time (ET_{event}) (hr/event)	2	NA	2	
Water Event Frequency (EV) (events/day)	1	NA	1	
User Defined Adult				
	Recreator	Trespasser		
Lifetime (LT) (years)	70	70	70	
Body Weight (BW) (kg)	80	45	80	
Exposure Duration 6-16 (ED) (yr)	10	10	10	
Exposure Duration 16-26 (ED) (yr)	10	0	10	
Exposure Frequency (EF) (d/yr)	195	90	195	
Exposure Time (ET) (hr/d)	2	2	2	
Skin Surface Area - Soil Exposure (SA_s) (cm^2)	6032	6032	6032	
Soil Adherence Factor (AF) (mg/cm^2)	0.07	0.2	0.07	
Soil Ingestion Rate (IRS) (mg/day)	100	200	100	
Skin Surface Area - Water Exposure (SA_w) (cm^2)	19652	19652	19652	
Water Ingestion Rate (IRW) (L/hr)	0.11	0.11	0.11	
Water Exposure Time (ET_{event}) (hr/event)	2	2	2	
Water Event Frequency (EV) (events/day)	1	1	1	

Exposure Point Concentrations **Input Form 2D**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: NONCD0000024

Exposure Unit ID: SGP-2

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Concentrations from sample SGP-2.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
10		100-41-4	Ethylbenzene			ug/m^3										
27		108-88-3	Toluene			ug/m^3										
52		1330-20-7	Xylenes			ug/m^3										

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: NONCD0000024

Exposure Unit ID: SGP-2

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
100-41-4	Ethylbenzene	10	0.3	1.1E+00	2.1E+02	2.7E-07	2.9E-04
108-88-3	Toluene	27	0.81	-	1.0E+03		1.6E-04
1330-20-7	Xylenes	52	1.56	-	2.1E+01		1.5E-02
					Cumulative:	2.7E-07	1.5E-02

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: NONCD0000024

Exposure Unit ID: SGP-2

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
100-41-4	Ethylbenzene	10	0.1	4.9E+00	8.8E+02	2.0E-08	2.3E-05
108-88-3	Toluene	27	0.27	-	4.4E+03		1.2E-05
1330-20-7	Xylenes	52	0.52	-	8.8E+01		1.2E-03
					Cumulative:	2.0E-08	1.2E-03

Exposure Point Concentrations **Input Form 2D**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: NONCD0000024

Exposure Unit ID: PSG-1

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Concentrations from sample PSG-1.

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
1.29		100-41-4	Ethylbenzene			ug/m^3										
7.75		1330-20-7	Xylenes			ug/m^3										

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: NONCD0000024

Exposure Unit ID: PSG-1

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
100-41-4	Ethylbenzene	1.29	0.0387	1.1E+00	2.1E+02	3.4E-08	3.7E-05
1330-20-7	Xylenes	7.75	0.2325	-	2.1E+01		2.2E-03
					Cumulative:	3.4E-08	2.3E-03

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: NONCD0000024

Exposure Unit ID: PSG-1

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
100-41-4	Ethylbenzene	1.29	0.0129	4.9E+00	8.8E+02	2.6E-09	2.9E-06
1330-20-7	Xylenes	7.75	0.0775	-	8.8E+01		1.8E-04
					Cumulative:	2.6E-09	1.8E-04

Exposure Point Concentrations **Input Form 2D**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: NONCD0000024

Exposure Unit ID: DUP-B (PSG-1)

Soil Gas Exposure Point Concentration Table

Description of Exposure Point Concentration Selection:

Concentrations from sample DUP-B (PSG-1).

Note: Chemicals highlighted in orange are non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

If the chemical list is changed from a prior calculator run, remember to select "See All Chemicals" on the data output sheet or newly added chemicals will not be included in risk calculations

Exposure Point Concentration (ug/m^3)	Notes:	CAS Number	Chemical	Minimum Concentration (Qualifier)	Maximum Concentration (Qualifier)	Units	Location of Maximum Concentration	Detection Frequency	Range of Detection Limits	Concentration Used for Screening	Background Value	Screening Toxicity Value (Screening Level) (n/c)	Potential ARAR/TBC Value	Potential ARAR/TBC Source	COPC Flag (Y/N)	Rationale for Selection or Deletion
1.37		100-41-4	Ethylbenzene			ug/m^3										
8.3		1330-20-7	Xylenes			ug/m^3										

DEQ Risk Calculator - Vapor Intrusion - Resident Soil Gas to Indoor Air **Output Form 3B**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: NONCD0000024

Exposure Unit ID: DUP-B (PSG-1)

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
100-41-4	Ethylbenzene	1.37	0.0411	1.1E+00	2.1E+02	3.7E-08	3.9E-05
1330-20-7	Xylenes	8.3	0.249	-	2.1E+01		2.4E-03
					Cumulative:	3.7E-08	2.4E-03

DEQ Risk Calculator - Vapor Intrusion - Non-Residential Worker Soil Gas to Indoor Air **Output Form 3E**

Version Date: February 2024

Basis: November 2023 EPA RSL Table

Site ID: NONCD0000024

Exposure Unit ID: DUP-B (PSG-1)

Carcinogenic risk and hazard quotient cells highlighted in orange are associated with non-volatile chemicals. Since these chemicals do not pose a vapor intrusion risk, no risk values are calculated for these chemicals.

All concentrations are in ug/m^3

CAS #	Chemical Name:	Soil Gas Concentration (ug/m^3)	Calculated Indoor Air Concentration (ug/m^3)	Target Indoor Air Conc. for Carcinogens @ TCR = 1E-06	Target Indoor Air Conc. for Non-Carcinogens @ THQ = 0.2	Calculated Carcinogenic Risk	Calculated Non-Carcinogenic Hazard Quotient
100-41-4	Ethylbenzene	1.37	0.0137	4.9E+00	8.8E+02	2.8E-09	3.1E-06
1330-20-7	Xylenes	8.3	0.083	-	8.8E+01		1.9E-04
					Cumulative:	2.8E-09	1.9E-04

APPENDIX G

WASTE MANIFESTS

A&D Environmental Services — Bill of Lading / Material Manifest

A&D Job No:	Generator ID Number	Page 1 of	Emergency Response Phone	Tracking Number
2405-0023		1	800-255-3924-MIS0007951	43528

Generator's Name and Mailing Address

NCDEQ-DWM as Remediation Agency
217 West Jones Street
Raleigh, NC 27603

919-871-0999
Generator's Phone

Generator's site address (if different from mailing address)

Gaither-Transou Property
1202 Guilford College Road
Jamestown, NC 27282

Transporter 1 [X] 2 [ ] Company Name: **A&D Environmental Services, Inc.** — US EPA ID No: **NCD986232221**

Transporter 1 [ ] 2 [ ] Company Name: — US EPA ID No:

[X] Designated Facility
A&D Environmental Services, Inc.
2718 Uwharrie Road
Archdale, NC 27263
336-434-7750
NCD986232221

[ ] Designated Facility
A&D Environmental Services, Inc.
3149 Lear Drive
Burlington, NC 27215
336-229-0058
NCR000138628

[ ] Designated Facility (Please insert facility information below)

HM	Hazardous Materials Shipping Name and Description (if applicable)	No.	Type	QTY	Wt/Vol	Profile Number
	Non-Regulated Material (IDW-Solids)	004	DM	2000	P	NC2024-0126

	Petroleum Products for Recycle		No.	Type	QTY	Wt/Vol	Profile Number
X	NA1993, Diesel fuel, 3, III	ERG# 128					
X	NA 1993, Fuel oil (No. 1,2,4,5 or 6), 3, III	ERG# 128					
X	UN1203, Gasoline, 3, II	ERG# 128					
	USED OIL (Not a USDOT Hazardous Material)						
	Petroleum Contact Water (Not a USDOT Hazardous Material)						

Universal Waste Lamps, Batteries, Ballasts, and Electronics for Recycle

HM	No.	Type	Est. Wt.	Count	Shipping Name and Description (if applicable)		Common Name	Discrepancy
X					RQ, UN3506, Mercury contained in manufactured articles, 8 (6.1)	ERG# 172	Mercury Devices	
X					RQ, UN3432, Polychlorinated biphenyls, solid, 9, II	ERG# 171	TSCA Exempt PCB Lamp Ballasts	
X					UN2800, Batteries, wet non-spillable, 8	ERG# 154	Sealed Lead Acid Batteries	
X					UN2794, Batteries, wet, filled with acid, 8	ERG# 154	Lead Acid Batteries	
X					UN2795, Batteries, wet, filled with alkali, 8	ERG# 154	Wet NiCad Batteries	
X					UN3090, Lithium metal batteries, 9	ERG# 138	Lithium Metal Batteries	
X					UN3480, Lithium ion batteries, 9	ERG# 147	Lithium Ion Batteries	
					Batteries, dry, sealed n.o.s.		Alkaline Batteries	
					Batteries, dry, sealed n.o.s.		Dry NiCad Batteries	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		Florescent lamps (4-Ft. and Under)	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		Florescent lamps (Over 4-Ft.)	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		Circular/U-tube lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		Compact Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		Shielded Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		HID/MV/UV Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164 (e)		Incandescent Lamps	
					Non-PCB Light Ballasts for Recycle (Not DOT-Regulated)		Non-PCB Light Ballasts/Capacitors	
					Electronic Equipment for Recycle (Not DOT-Regulated)		e-Waste	

Shipper's Certification: This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transport according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are hazardous waste as defined by EPA 40CFR Part 261 or any applicable state law, and unless specifically identified above the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Shipper's/ Offeror's Printed/Typed Name: Lawrence George (on behalf of NCDEQ as Remediation Agency) — Signature: LM George — Month 05 Day 07 Year 24

Transporter 1 Printed/Typed Name: Matt Wesley — Signature: Matt Wesley — Month 05 Day 07 Year 24

Transporter 2 Printed/Typed Name: — Signature: — Month / Day / Year

Discrepancy Indication / Additional Information:

Designated Facility Certification: I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy indicated above.

Printed/Typed Name: — Signature: — Month / Day / Year

DESIGNATED FACILITY TO GENERATOR

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
NCVSQG	1	800-255-3924-MIS0007951	017110045 FLE

GENERATOR

5. Generator's Name and Mailing Address
NCDEQ-DWM as Remediation Agency
217 West Jones Street
Raleigh, NC 27603
Generator's Phone: 919-871-0999

Generator's Site Address (if different than mailing address)
Gaither-Transou Property
1202 Guilford College Road
Jamestown, NC 27282

6. Transporter 1 Company Name: A&D Environmental Services, Inc.
U.S. EPA ID Number: NCD986232221

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Clean Harbors Deerpark, L.P.
2027 Independence Parkway South
La Porte, TX 77571 USA
Facility's Phone: 281-930-2300
U.S. EPA ID Number: TXD055141378

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA3082, Hazardous Waste Liquid, n.o.s. (Vinyl Chloride), 9, PGIII, ERG # 171	001	DM	100	P	D043		
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
9a.1) CH2743864 1 x 55gal 2)
Job Number: 2405-0023 PO# 1004051
Emergency Response Number
800-255-3924
Contract Number MIS0007951

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Lawrence George on behalf of NCDEQ DWM as Remediation Agency
Signature: [signature]
Month: 05 Day: 07 Year: 24

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Matt Weaks
Signature: [signature]
Month: 05 Day: 07 Year: 24

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Signature
Month Day Year

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC.
LAND DISPOSAL RESTRICTION FORM LDR-1

MANIFEST NO 017110045 FLE

THE HAZARDOUS WASTES IDENTIFIED ON THE HAZARDOUS WASTE MANIFEST IDENTIFIED ABOVE AND BEARING THE EPA HAZARDOUS WASTE CODES LISTED BELOW ARE RESTRICTED WASTES WHICH ARE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT UNDER THE LAND DISPOSAL RESTRICTIONS, 40 CFR PART 268 .7 (a)(2), AND RCRA SECTION 3004(D). IN ACCORDANCE WITH 40 CFR 268.7(a), THE EPA WASTE CODE, WASTE SUBCATEGORY, AND TREATABILITY GROUPS, AS APPLICABLE, ARE INCLUDED BELOW.

INSTRUCTIONS – COMPLETE ALL SECTIONS. REFER TO PAGE 3 OF THIS FORM FOR KEY TERMS/DEFINITIONS.

Column 1 - Line Item: Enter the manifest line item number (e.g., 11a) that corresponds to the waste code(s).
Column 2 - Waste Codes/Subcategory: Check off all applicable waste codes. For D001 through D043, also check applicable subcategory; for F001 through F005, check applicable constituents.
Column 3 - Wastewater/Non-wastewater: Check off "WW" for wastewater and "Non-WW" for non-wastewaters.
Column 4 - LDR Handling Code: Circle the appropriate handling code, as follows:

1 = The waste is a characteristic hazardous waste D001, D002, D003, D004-D011, or D018-43 which is intended for treatment/disposal in a CWA system, CWA-equivalent system, or Class I SDWA system. Underlying Hazardous Constituents (UHC's) are NOT required to be identified.

1A = The waste is a characteristic hazardous waste D001 High TOC Ignitable Liquids Subcategory (i.e., greater than or equal to 10% TOC). Pursuant to 40 CFR 268.40, the waste must be treated using organic recovery (RORGS) or combustion (CMBST) technology. UHC's are NOT required to be identified.

2 = The waste is a characteristic hazardous waste D001 (other than High TOC Ignitable Liquids), D002, D003 Explosive, Water Reactive or Other Reactive subcategory, D004-D011, D012-17 non-wastewater, or D018-43 which is intended for treatment/disposal in a non-CWA system, non-CWA-equivalent system, or non-Class I SDWA system located in the United States. All UHC's which are reasonably expected to be present must be identified, except for D001 waste that is intended to be treated using organic recovery (RORGS) or combustion (CMBST) technologies. Identify UHC's by completing Sections I and IV of CHI Form LDR-1 Addendum and attach completed Addendum to this form.

3 = The waste is a characteristic (i.e., D-code) or listed (i.e., F-, K-, U-, or P-code) hazardous waste which is intended for export and treatment/disposal at a facility located outside the United States. LDR treatment standards do not apply to hazardous waste treated/disposed in a foreign country, and per USEPA guidance, the identification of UHC's (if applicable) is not required for hazardous waste that is intended to be exported. Note however that if the exported waste is subsequently returned for treatment/disposal in the United States, all applicable LDR regulations would apply and a revised LDR notification would be required.

4 = The waste meets the definition of hazardous debris pursuant to 40 CFR 268.2(h) and is intended for treatment/ disposal in compliance with the alternate debris treatment technologies of 40 CFR 268.45. In accordance with the requirements of 40 CFR 268.7(a)(2) : the contaminants subject to treatment (CSTT's) must be identified as part of this notification. Identify CSTT's by completing Section III and IV of the CHI Form LDR-1 Addendum and attach completed Addendum to this form. These constituents are being treated to comply with 40 CFR 268.45.

5 = The waste is a characteristic waste D003 Reactive Sulfide, Reactive Cyanide, or Unexploded Ordnance subcategory, a characteristic waste D012- 17 wastewater, or a listed (i.e., F-, K-, U-, or P-code) hazardous waste. UHC's are NOT required to be identified.

6 = The waste is a lab pack that is intended for incineration using the alternative lab pack treatment standard under 40 CFR 268.42(c). UHC's are NOT required to be identified; however, the generator must complete and attach the lab pack certification statement on CHI Form LDR-LP. Note that in accordance with 40 CFR Part 268 Appendix IV, lab packs which contain waste codes D009, F019, K003, K004, K005, K006, K062, K071, K100, K106, P010, P011, P012, P076, P078, U134, and U151 are not eligible for alternative lab pack treatment standard.

*** **NOTE: IF THE WASTE IS A SOIL CONTAMINATED WITH A LISTED OR CHARACTERISTIC WASTE AND THE GENERATOR WANTS TO USE THE ALTERNATE TREATMENT STANDARD FOR SOILS, CONTACT CORPORATE COMPLIANCE FOR THE APPROPRIATE LDR NOTIFICATION FORM.**

SECTION I. CHARACTERISTIC WASTES D001 THROUGH D043

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
_____	[ ] D001 Ignitables, except High TOC subcategory	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D001 High TOC Ignitable Liquids Subcategory (Greater than or equal to 10% TOC)	[ ] Non-WW only	1A 3 6
_____	[ ] D002 Corrosives	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D003		
	[ ] Reactive Sulfide, per 261.23 (a)(5)	[ ] WW [ ] Non-WW	1 3 4 5 6
	[ ] Reactive Cyanide, per 261.23(a)(5)	[ ] WW [ ] Non-WW	1 3 4 5 6
	[ ] Explosive, per 261.23(a)(6), (7) & (8)	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] Water Reactive, per 261.23(a)(2), (3) & (4)	[ ] Non-WW only	1 2 3 4 6
	[ ] Other Reactive, per 261.23(a)(1)	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] Unexploded Ordnance, Emergency Response	[ ] WW [ ] Non-WW	1 3 4 5 6
_____	[ ] D004 Arsenic	[ ] WW [ ] Non-WW	1 3 4 5 6
_____	[ ] D005 Barium	[ ] WW [ ] Non-WW	1 3 4 5 6
_____	[ ] D006		
	[ ] Cadmium	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] Cadmium Containing Batteries	[ ] Non-WW only	2 3 6
_____	[ ] D007 Chromium	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D008		
	[ ] Lead	[ ] WW [ ] Non-WW	1 2 3 4 6
	[ ] Lead Acid Batteries	[ ] Non-WW only	2 3 6

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC.
LAND DISPOSAL RESTRICTION FORM LDR-1

MANIFEST NO 017110045 FLE

SECTION I. CHARACTERISTIC WASTES D001-43 (CONTINUED)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
_____	[ ] D009		
	[ ] Low Mercury, less than 260 mg/kg Mercury	[ ] WW [ ] Non-WW	1 2 3 4
	[ ] High Mercury Organic Subcategory	[ ] Non-WW only	2 3 4
	[ ] High Mercury Inorganic Subcategory	[ ] Non-WW only	2 3 4
_____	[ ] D010 Selenium	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D011 Silver	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D012 Endrin	[ ] WW [ ] Non-WW	2 3 4 5 6
_____	[ ] D013 Lindane	[ ] WW [ ] Non-WW	2 3 4 5 6
_____	[ ] D014 Methoxychlor	[ ] WW [ ] Non-WW	2 3 4 5 6
_____	[ ] D015 Toxaphene	[ ] WW [ ] Non-WW	2 3 4 5 6
_____	[ ] D016 2,4-D	[ ] WW [ ] Non-WW	2 3 4 5 6
_____	[ ] D017 2,4,5-TP (Silvex)	[ ] WW [ ] Non-WW	2 3 4 5 6
_____	[ ] D018 Benzene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D019 Carbon tetrachloride	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D020 Chlordane	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D021 Chlorobenzene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D022 Chloroform	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D023 o-Cresol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D024 m-Cresol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D025 p-Cresol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D026 Cresol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D027 1,4-Dichlorobenzene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D028 1,2-Dichloroethane	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D029 1,1-Dichloroethylene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D030 2,4-Dinitrotoluene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D031 Heptachlor (and its epoxide)	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D032 Hexachlorobenzene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D033 Hexachlorobutadiene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D034 Hexachloroethane	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D035 Methyl ethyl ketone	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D036 Nitrobenzene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D037 Pentachlorophenol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D038 Pyridine	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D039 Tetrachloroethylene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D040 Trichloroethylene	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D041 2,4,5-Trichlorophenol	[ ] WW [ ] Non-WW	1 2 3 4 6
_____	[ ] D042 2,4,6-Trichlorophenol	[ ] WW [ ] Non-WW	1 2 3 4 6
1	[ ] D043 Vinyl Chloride	[ ] WW [X] Non-WW	1 (2) 3 4 6

SECTION II. SPENT SOLVENT WASTES F001 THROUGH F005

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
_____	[ ] F001 [ ] F002 [ ] F003 [ ] F004 [ ] F005	[ ] WW [ ] Non-WW	3 4 5 6

_____ [ ] 1. ALL F001-F005
_____ [ ] 2. Acetone
_____ [ ] 3. Benzene
_____ [ ] 4. n-Butyl alcohol
_____ [ ] 5. Carbon disulfide
_____ [ ] 6. Carbon tetrachloride
_____ [ ] 7. Chlorobenzene
_____ [ ] 8. o-Cresol
_____ [ ] 9. m-Cresol (difficult to distinguish from p-cresol)
_____ [ ] 10. p-Cresol (difficult to distinguish from m-cresol)
_____ [ ] 11. Cresol - mixed isomers (sum of o-, m- and p-cresol)

_____ [ ] 12. Cyclohexanone
_____ [ ] 13. o-Dichlorobenzene
_____ [ ] 14. 2-Ethoxyethanol (F005 only)
_____ [ ] 15. Ethyl acetate
_____ [ ] 16. Ethyl benzene
_____ [ ] 17. Ethyl ether
_____ [ ] 18. Isobutyl alcohol
_____ [ ] 19. Methanol
_____ [ ] 20. Methylene chloride
_____ [ ] 21. Methyl ethyl ketone
_____ [ ] 22. Methyl isobutyl ketone
_____ [ ] 23. Nitrobenzene
_____ [ ] 24. 2-Nitropropane (F005 only)

_____ [ ] 25. Pyridine
_____ [ ] 26. Tetrachloroethylene
_____ [ ] 27. Toluene
_____ [ ] 28. 1,1,1-Trichloroethane
_____ [ ] 29. 1,1,2-Trichloroethane
_____ [ ] 30. Trichloroethylene
_____ [ ] 31. 1,1,2-Trichloro-1,2,2-trifluoroethane
_____ [ ] 32. Trichloromonofluoromethane
_____ [ ] 33. Xylene - mixed isomers (sum of o-, m-, and p-xylene)

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC.
LAND DISPOSAL RESTRICTION FORM LDR-1

MANIFEST NO 017110045 FLE

SECTION III. CALIFORNIA LIST WASTES

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
_____	Hazardous waste containing one or more of the following California List constituents:	[ ] WW [ ] Non-WW	1 2 3 4 6

[ ] ALL CALIFORNIA LIST CONSTITUENTS
[ ] Liquids with nickel greater than or equal to 134 mg/l
[ ] Liquids with thallium greater than or equal to 130 mg/l
[ ] Liquids with PCB's > or = 50 ppm
[ ] Waste containing HOC's > or = 1,000 mg/kg

SECTION IV. OTHER LISTED WASTES (F006-12, F019-F028, F037-38, F039, K-, U-, AND P-CODES)

COLUMN 1: LINE ITEM SEE MANIFEST	COLUMN 2: WASTE CODE / SUBCATEGORY	COLUMN 3: WASTEWATER/ NON-WASTEWATER	COLUMN 4: HANDLING CODE
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6
_____	_____	[ ] WW [ ] Non-WW	3 4 5 6

[ ] CHECK HERE IF ADDITIONAL LISTED WASTE CODES ARE PRESENT. COMPLETE AND ATTACH LDR-1 CONTINUATION SHEET.
[ ] CHECK HERE IF WASTE CODE F039 (MULTISOURCE LEACHATE) IS PRESENT. IDENTIFY F039 CONSTITUENTS BY COMPLETING SECTIONS II AND IV OF CHI FORM LDR-1 ADDENDUM AND ATTACH COMPLETED ADDENDUM TO THIS FORM.

SECTION V. CONTACT NAME AND DATE

Print Name: Lawrence George on behalf of NCDEQ as Remediation Agency Date: 05/07/2024

KEY TERMS/DEFINITIONS

CLASS I SDWA SYSTEM means a Class I deep well facility regulated under the Safe Drinking Water Act (SDWA).

CWA SYSTEM means a centralized wastewater treatment facility discharging under a Clean Water Act (CWA) permit. For example, a CWA facility would treat organic or inorganic aqueous wastes and discharge the treated effluent to the local sewer system. Examples of CWA treatment systems owned and operated by Clean Harbors include the wastewater treatment operations at Baltimore (including the CES system), Bristol, Chicago, Cincinnati and Cleveland.

CWA-EQUIVALENT SYSTEM means a "zero discharge system" that engages in "CWA-equivalent" treatment before land disposal. Zero-discharge facilities treat hazardous wastes using "CWA-equivalent" treatment methods, but do not discharge the treatment effluent to a sewer or water body (e.g., spray irrigation land farm). "CWA-equivalent" treatment methods means biological treatment for organics, alkaline chlorination, or ferrous sulfate precipitation for cyanide, precipitation/ sedimentation for metals, reduction of hexavalent chromium, or other treatment technology that can be demonstrated to perform equally or greater than these technologies.

HIGH TOC IGNITABLE LIQUIDS SUBCATEGORY means an ignitable liquid hazardous waste (waste code D001) which contains greater than or equal to 10% total organic carbon (TOC). Pursuant to 40 CFR 268.40, such wastes must be treated using organic recovery (RORGS) or combustion (CMBST) technology. Examples of RORGS technologies include the CES unit at Clean Harbors of Baltimore. Examples of CMBST technologies include hazardous waste fuel blending and subsequent reuse at a cement kiln, or destruction at a RCRA incinerator.

WASTEWATERS are wastes that contain less than 1% by weight total organic carbon (TOC) and less than 1% by weight total suspended solids (TSS). [See 40 CFR 268.2(f)]