Groundwater Monitoring Report-Plant Area
New-Indy Catawba Pulp and Paper Mill
5300 Cureton Ferry Road
Catawba, York County, South Carolina
SCDHEC No. 18-6120-VOC
S&ME Project No. 4213-18-087

PREPARED FOR:

New Indy-Catawba, LLC
3500 Porsche Way, Suite 150
Ontario, California 91764

PREPARED BY:

S&ME, Inc.
301 Zima Park Drive
Spartanburg, SC 29301

June 15, 2022

June 15, 2022

New-Indy Catawba LLC
3500 Porsche Way, Suite 150
Ontario, California 91764

Attention: Mr. Richard Hartman

Reference: **Groundwater Monitoring Report**
New-Indy Catawba Pulp and Paper Mill – Plant Area
Catawba, South Carolina
SCDHEC No. 18-6120-VOC
S&ME Project No. 4213-18-087

Dear Mr. Hartman:

S&ME is pleased to submit this *Groundwater Monitoring Report* for the above referenced project. Our work was conducted in general accordance with the *Work Plan* (S&ME, February 1, 2019) and to our April 12, 2018 Agreement for Services.

We appreciate the opportunity to be of service to you. Should you have any questions or when we may be of further service, please do not hesitate to contact us at 864.574.2360.

Sincerely,

S&ME, Inc.

Scott E. Dacus, P.G.
Project Geologist
sdacus@smeinc.com

Stanford Lummus, P.E.
Principal Engineer
slummus@smeinc.com

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Appendices

1.0 Introduction

This Report details the groundwater sampling activities performed according to the *Plant Area Work Plan-Supplemental Assessment II*, dated August 27, 2021. The Work Plan includes an annual groundwater sampling event at specified monitoring wells. This Report discusses the monitoring wells sampled, sampling procedures, and laboratory analytical results for the April 2022 sampling event.

2.0 Groundwater Sampling

On April 4th and 5th, 2022, groundwater samples were collected from the following monitoring wells:

WYLF-MW-3	GW-16
GW-9	GW-18
R29-MW-1	R16-MW-1A
DF-MW-2	R18-MW-2
DF-MW-4	R19-MW-2A
GW-11	R6-MW-1
GW-15R	R1-MW-2

Groundwater samples were not collected from monitoring wells DF-MW-1, DF-MW-3, R4-MW-2 due to the wells either being dry or not containing enough water to collect a sample. The well locations are shown on **Figure 1**.

2.1 Groundwater Level Measurements

During sample collection activities, the depth to groundwater was measured in the above wells. These measurements are included on **Table 1**. The water level measurements were subtracted from the top of casing elevations, resulting in groundwater level elevations. The elevations are also included on **Table 1**. The groundwater elevations for wells R6-MW-1, R16-MW-1A, R18-MW-2, and R19-MW-2A (near the paper machine buildings) were contoured and plotted as a group on **Figure 1**. The groundwater elevations for wells WYLF-MW-3, GW-9, R29-MW-1, DF-MW-1, DF-MW-2, DF-MW-3, DF-MW-4, GW-11, GW-15R, GW-16, GW-18, and R1-MW-2 (near the south-southeast portion of the plant area) were contoured and plotted as a separate group on **Figure 1**.

2.2 Sample Collection

The wells were sampled using a peristaltic pump and low flow techniques. For wells with a low volume of water, samples were collected with a disposable bailer. Temperature, pH, specific conductivity, and turbidity were measured prior to sample collection. The field parameter measurements are included on the *Sample Collection Summary Sheets* in **Appendix III**.

Upon field parameter stabilization, groundwater samples were collected by filling laboratory-supplied sample containers directly from the pump tubing or bailer. Sample-specific analyses and containers filled are included on the *Sample Collection Summary Sheets* in **Appendix III**. The sample containers were placed on ice within coolers and transported via courier to Pace Analytical in Mt. Juliet, Tennessee. Sample containers were labeled and managed according to the Work Plan.

2.3 Field Quality Control

Two duplicate samples, Duplicate-1 and Duplicate-2 were collected during sampling activities. Duplicate-1 was collected at monitoring well GW-11 (dioxin/furan analyses) and Duplicate-2 was collected at monitoring well R6-MW-1 (volatile organic compound analyses). One field blank was collected during sampling of wells for dioxin/furan analyses and one field blank was collected during sampling of wells for volatile organic compounds (VOCs) analyses. One equipment blank was collected during sampling of wells for dioxin/furan analyses and one field blank was collected during sampling of wells for VOCs analyses. A trip blank was included in the cooler of samples for VOC analyses.

2.4 Sampling Equipment Decontamination

Sampling equipment was decontaminated with phosphate free laboratory detergent, tap water, deionized water, and organic-free water. Water generated during decontamination activities and well purging was disposed of in the aeration stabilization basin at the site. Disposable gloves, used tubing, etc. was placed in onsite waste disposal containers.

3.0 Groundwater Analysis

Groundwater samples collected from monitoring wells WYLF-MW-3, GW-9, R29-MW-1, DF-MW-2, DF-MW-4, GW-11, GW-15R, GW-16 and GW-18 were analyzed for dioxins/furans by Method 8290. Groundwater samples collected from monitoring wells R16-MW-1A, R18-MW-2, R19-MW-2A, and R6-MW-1 were analyzed for VOCs by Method 8260. Groundwater samples collected from monitoring wells GW-9 and R1-MW-2 were analyzed for chloroform by Method 8260.

4.0 Laboratory Analytical Results

4.1 Summary of Laboratory Analytical Data

Laboratory analysis of the samples for dioxins/furans reported a 2,3,7,8-TCDD concentration of 2.1 picograms per liter (pg/L) in sample R29-MW-1. Toxic equivalency (TEQ) was reported at concentrations ranging from 0.021 pg/L (sample GW-18) to 5.0 pg/L (R29-MW-1). The concentrations of these compounds are included on **Table 2**.

Several VOCs were reported above their respective laboratory detection limits in the samples analyzed. The VOCs detected are benzene, bromodichloromethane, carbon tetrachloride, chlorobenzene, chloroform, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethene, ethylbenzene, 1,2,4-trichlorobenzene, and trichloroethene. The concentrations of these compounds are included on **Table 3**.

A copy of the laboratory analytical reports for groundwater samples is included in **Appendix III**.

4.2 Data Quality Review

The Sample Condition Upon Receipt (SCUR) reports, the analytical data presented in the laboratory reports,

- the laboratory-assigned data qualifiers, the laboratory quality control data provided, and the field QC sample data were reviewed. No data or conditions that do not meet acceptable performance criteria were noted.

5.0 Conclusions

The concentrations of 2,3,7,8-TCDD and TEQ reported in the groundwater samples are below the South Carolina State Primary Drinking Water Regulations, R.61-58 (SCDHEC 2014a) Maximum Contaminant Level (MCL) of 30 pg/L for 2,3,7,8-TCDD and 30 pg/L for TEQ.

The following VOC concentrations exceed their respective MCL:

- 0.776 mg/L of chlorobenzene exceeds the MCL of 0.1 mg/L in sample R18-MW-2,
- 1.15 mg/L of 1,2-dichlorobenzene exceeds the MCL of 0.6 mg/L in sample R18-MW-2,
- 0.179 mg/L of 1,4-dichlorobenzene exceeds the MCL of 0.075 mg/L in sample R18-MW-2,
- 0.0211 mg/L of 1,1-dichloroethene exceeds the MCL of 0.007 mg/L in sample R16-MW-1A, and

0.0764 mg/L of 1,1-dichloroethene exceeds the MCL of 0.007 mg/L in sample R19-MW-2A.

Appendices

Appendix I– Figure

301 ZIMA PARK ROAD
SPARTANBURG, SC 29301
(864) 574-2360

NO.	DATE	DESCRIPTION	BY	CHK	APV
	MAY 2022				

GROUNDWATER MONITORING WELLS

NEW INDY CATAWBA LLC - VCC 18-6120-VOC
5300 CURETON FERRY ROAD
CATAWBA, SOUTH CAROLINA 29704

PROJECT NUMBER
4213-18-087

DRAWING NUMBER
1

Drawing Path: C:\projects\excel_columbia\proj\2022\potmap.mxd

Appendix II – Tables

Table 1
Groundwater Level Measurements
Bowater - Catawba Pulp and Paper Mill
Catawba, York County, South Carolina
SCDHEC No. 18-6120-VOC
S&ME Project No. 4213-18-087

Well ID	Total Well Depth	Screen Interval	Ground Surface Elevation	Top of Casing Elevation	Date	Depth to Water[1]	Groundwater Elevation
R1-MW-2	20	10-20	528.60	528.30	10/14/2019 3/16/2021 4/5/2022	17.40 14.55 15.31	510.90 513.75 512.99
R4-MW-2	18	8-18	532.53	531.94	3/16/2021 4/5/2022	17.64 Dry	514.30 --
R6-MW-1	18	8-18	535.00	534.60	10/16/2019 4/5/2022	15.12 14.11	519.48 520.49
R16-MW-1 R16-MW-1A	14 15	4-14 5-15	530.60 530.64	530.30 530.42	10/17/2019 3/15/2021 4/5/2022	6.98 5.49 5.52	523.32 524.93 524.90
R18-MW-2	13	3-13	531.00	530.40	10/16/2019 3/15/2021 4/5/2022	4.62 3.87 3.90	525.78 526.53 526.50
R19-MW-2 R19-MW-2A	15 15	5-15 5-15	531.10 531.19	530.10 530.98	10/16/2019 3/15/2021 4/5/2022	5.62 3.40 4.28	524.48 527.58 526.70
R29-MW-1	28	18-28	524.20	524.00	10/16/2019 3/16/2021 4/4/2022	21.74 19.50 19.73	502.26 504.50 504.27
WYLF-MW-3	28	18-28	508.80	508.60	10/16/2019 3/16/2021 4/4/2022	27.81 22.40 23.67	480.79 486.20 484.93
GW-9	44	24-44	514.77	516.77	7/10/2019 3/17/2021 4/4/2022	11.01 15.13 15.63	505.76 501.64 501.14
GW-11	27	17-27	464.98	467.08	7/9/2019 4/4/2022	15.60 15.85	451.48 451.23
GW-15R	27	17-27	509.92	512.08	7/12/2019 4/4/2022	14.16 14.53	497.92 497.55
GW-16	18	--	--	512.43	7/10/2019 4/4/2022	8.31 8.63	504.12 503.80
GW-18	22	--	--	468.22	7/11/2019 4/4/2022	13.60 12.46	454.62 455.76
DF-MW-1	37	22-37	524.74	527.82	3/17/2021 4/4/2022	33.54 37.15	494.28 490.67
DF-MW-2	39	24-39	514.62	517.95	3/17/2021 4/4/2022	31.24 32.79	486.71 485.16
DF-MW-3	23	13-23	22.65	523.62	3/15/2021 4/4/2022	17.46 22.58	506.16 501.04
DF-MW-4	25	15-25	524.20	527.34	3/16/2021 4/4/2022	17.82 19.57	509.52 507.77

Notes: 1 - measured from top of casing
- measurements are in feet

Table 2
Summary of Dioxins Analytical Data
Bowater - Catawba Pulp and Paper Mill
Catawba, York County, South Carolina
SCDHEC No. 18-6120-VOC
S&ME Project No. 4213-18-087

Well ID	Date Sampled	2,3,7,8-TCDD pg/L	TEQ pg/L
WYLF-MW-3	10/16/2019	<10	**0.37**
	3/16/2021	<10	0
	4/4/2022	<0.84	**0.23**
GW-9	7/10/2019	<10	0
	3/17/2021	<10	0
	4/4/2022	<0.75	**0.26**
R29-MW-1	3/16/2021	<10	**4.7**
	4/4/2022	**2.1**	**5.0**
DF-MW-1	3/17/2021	<10	**0.07**
	4/4/2022	dry	dry
DF-MW-2	3/17/2021	<10	0
	4/4/2022	<0.49	**0.30**
DF-MW-3	3/15/2021	<10	0
	4/4/2022	dry	dry
DF-MW-4	3/16/2021	<10	0
	4/4/2022	<0.71	**0.54**
GW-11	7/9/2019	<10	0
	4/4/2022	<0.56	**0.21**
GW-15R	7/12/2019	<10	0
	4/4/2022	<0.8	**0.18**
GW-16	7/10/2019	<10	0
	4/4/2022	<0.58	**1.1**
GW-18	7/11/2019	<10	0
	4/4/2022	<2.8	**0.021**
MCL		30	30

pg/L - picogram per liter
MCL - maximum contaminant level; South Carolina State Primary Drinking Water Regulations, R.61-58 (SCDHEC 2014a).

Table 3
Summary of Volatile Organic Compounds Analytical Data
Bowater - Catawba Pulp and Paper Mill
Catawba, York County, South Carolina
SCDHEC No. 18-6120-VOC
S&ME Project No. 4213-18-087

Well ID	Location	Date Sampled	Benzene mg/L	Bromo dichloro methane mg/L	Carbon Tetrachloride mg/L	Chloro benzene mg/L	Chloroform mg/L	1,2-Dichloro benzene mg/L	1,4-Dichloro benzene mg/L	1,1-Dichloro ethene mg/L	Ethyl benzene mg/L	1,2,4-Trichloro benzene mg/L	Trichloro ethene mg/L
R16-MW-1	Paper Machines 1,2,&3	10/17/2019	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	**0.0093**	**0.014**	<0.001	<0.001	<0.001
R16-MW-1A		3/15/2021	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	**0.0287**	<0.001	<0.001	<0.001
		4/5/2022	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	**0.0211**	<0.001	<0.001	<0.001
R18-MW-2		10/16/2019	**0.00594**	<0.001	<0.001	**0.34**	<0.005	**0.228**	**0.0354**	<0.001	<0.001	<0.001	<0.001
		3/15/2021	**0.0196**	<0.001	<0.001	**0.825**	<0.005	**1.19**	**0.178**	<0.001	<0.001	<0.001	<0.001
		4/5/2022	<0.050	<0.050	<0.050	**0.776**	<0.250	**1.15**	**0.179**	<0.050	<0.050	<0.050	<0.050
R19-MW-2		10/16/2019	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	**0.0824**	<0.001	<0.001	<0.001
R19-MW-2A		3/15/2021	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	**0.101**	<0.001	<0.001	<0.001
		4/5/2022	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	**0.0764**	<0.001	<0.001	<0.001
R6-MW-1		10/16/2019	**0.0119**	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	**0.0599**	<0.001	<0.001
		4/5/2022	**0.0046**	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	**0.0025**	<0.001	<0.001
DF-MW-3	Wastewater Clarifier and Water Treatment Area	3/15/2021	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
		4/4/2022	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
GW-9		7/10/2019	<0.001	<0.001	<0.001	**0.00169**	**0.078**	<0.001	**0.00161**	**0.00205**	<0.001	**0.00143**	**0.00136**
		3/17/2021	<0.001	<0.001	<0.001	**0.00511**	**0.178**	<0.001	**0.00329**	<0.001	<0.001	**0.00456**	<0.001
		4/4/2022	na	na	na	na	**0.056**	na	na	na	na	na	na
R1-MW-2		10/14/2019	<0.001	**0.00658**	**0.00445**	<0.001	**0.522**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
		3/16/2021	<0.001	<0.001	<0.001	<0.001	**0.0264**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
		4/5/2022	na	na	na	na	**0.0203**	na	na	na	na	na	na
R4-MW-2		3/16/2021	<0.001	<0.001	<0.001	<0.001	**0.0389**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
		4/5/2022	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
MCL			0.005	0.08	0.005	0.1	0.08	0.6	0.075	0.007	0.7	0.07	0.005

mg/L - milligrams per liter
na - not analyzed
MCL - maximum contaminant level; South Carolina State Primary Drinking Water Regulations, R.61-58 (SCDHEC 2014a).

Appendix III- Laboratory Reports

ANALYTICAL REPORT

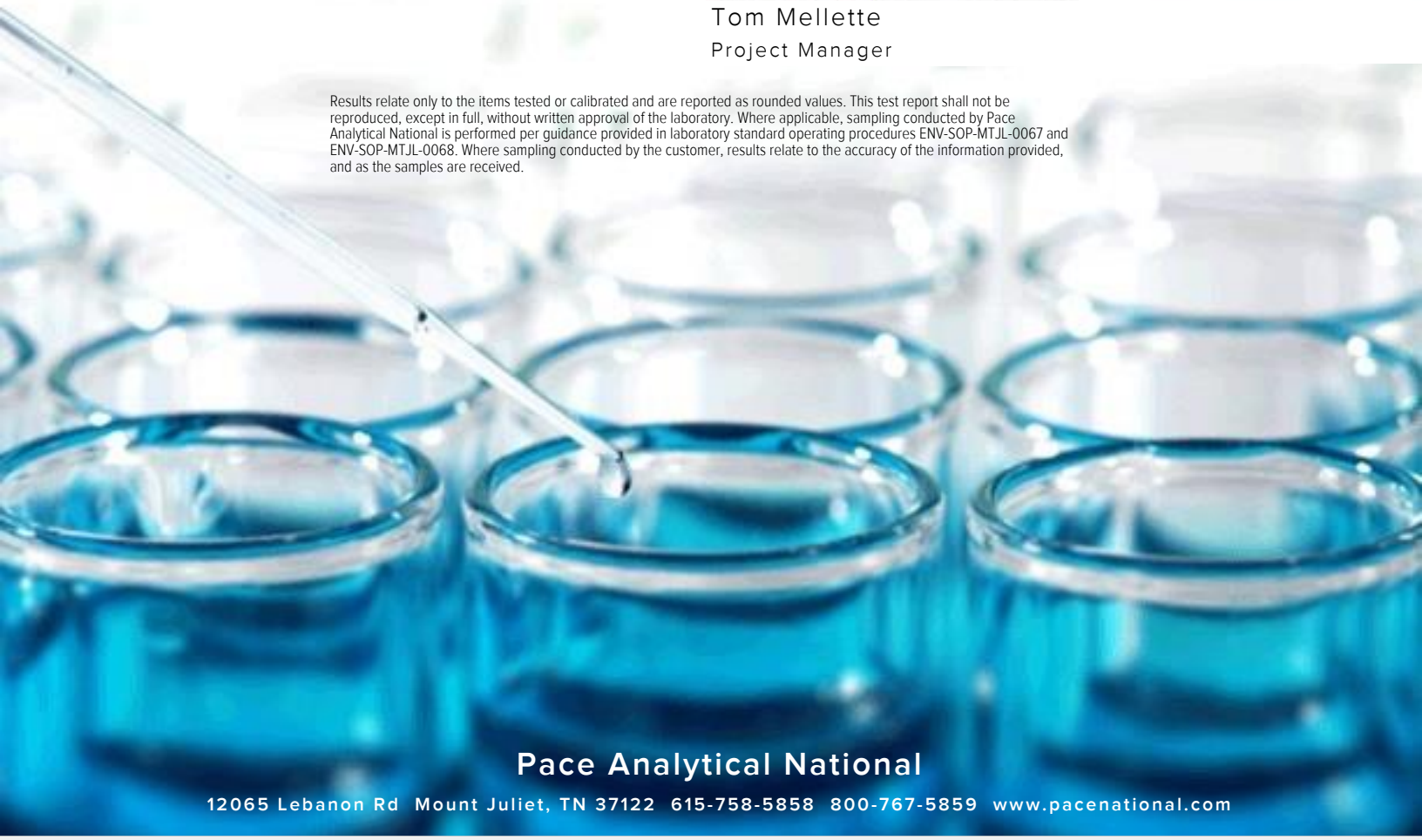
April 18, 2022

S&ME Inc. - Spartanburg SC

Sample Delivery Group:	L1479143
Samples Received:	04/06/2022
Project Number:	4213-18-087
Description:	New Indy - Catawba
Report To:	R. Bonds / S. Dacus / S. Lummus
	301 Zima Park Drive
	Spartanburg, SC 29301

Entire Report Reviewed By:

Tom Mellette
Project Manager



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

TABLE OF CONTENTS

WYLF-MW-3 L1479143-01 GW

Collected by: Scott Dacus | Collected date/time: 04/04/22 14:20 | Received date/time: 04/06/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1844569	1	04/18/22 00:00	04/18/22 00:00	-	Minneapolis, MN 55414

GW-9 L1479143-02 GW

Collected by: Scott Dacus | Collected date/time: 04/04/22 10:11 | Received date/time: 04/06/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1844569	1	04/18/22 00:00	04/18/22 00:00	-	Minneapolis, MN 55414

R29-MW-1 L1479143-03 GW

Collected by: Scott Dacus | Collected date/time: 04/04/22 13:57 | Received date/time: 04/06/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1844569	1	04/18/22 00:00	04/18/22 00:00	-	Minneapolis, MN 55414

DF-MW-2 L1479143-04 GW

Collected by: Scott Dacus | Collected date/time: 04/04/22 14:30 | Received date/time: 04/06/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1844569	1	04/18/22 00:00	04/18/22 00:00	-	Minneapolis, MN 55414

DF-MW-4 L1479143-05 GW

Collected by: Scott Dacus | Collected date/time: 04/04/22 10:35 | Received date/time: 04/06/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1844569	1	04/18/22 00:00	04/18/22 00:00	-	Minneapolis, MN 55414

GW-11 L1479143-06 GW

Collected by: Scott Dacus | Collected date/time: 04/04/22 11:35 | Received date/time: 04/06/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1844569	1	04/18/22 00:00	04/18/22 00:00	-	Minneapolis, MN 55414

GW-15R L1479143-07 GW

Collected by: Scott Dacus | Collected date/time: 04/04/22 15:20 | Received date/time: 04/06/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1844569	1	04/18/22 00:00	04/18/22 00:00	-	Minneapolis, MN 55414

GW-16 L1479143-08 GW

Collected by: Scott Dacus | Collected date/time: 04/04/22 15:17 | Received date/time: 04/06/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1844569	1	04/18/22 00:00	04/18/22 00:00	-	Minneapolis, MN 55414

GW-18 L1479143-09 GW

Collected by: Scott Dacus
Collected date/time: 04/04/22 13:45
Received date/time: 04/06/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1844569	1	04/18/22 00:00	04/18/22 00:00	-	Minneapolis, MN 55414

DUPLICATE-1 L1479143-10 GW

Collected by: Scott Dacus
Collected date/time: 04/04/22 00:00
Received date/time: 04/06/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1844569	1	04/18/22 00:00	04/18/22 00:00	-	Minneapolis, MN 55414

FIELD BLANK L1479143-11 GW

Collected by: Scott Dacus
Collected date/time: 04/05/22 12:00
Received date/time: 04/06/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1844569	1	04/18/22 00:00	04/18/22 00:00	-	Minneapolis, MN 55414

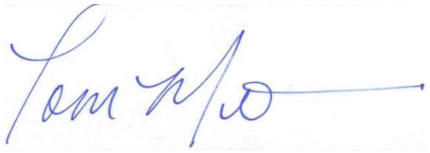
EQUIP BLANK L1479143-12 GW

Collected by: Scott Dacus
Collected date/time: 04/05/22 12:15
Received date/time: 04/06/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1844569	1	04/18/22 00:00	04/18/22 00:00	-	Minneapolis, MN 55414

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.



Tom Mellette
Project Manager

Project Narrative

L1479143 -01, -02, -03, -04, -05, -06, -07, -08, -09, -10, -11, -12 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.

Company Name/Address:
S&ME Inc. - Spartanburg SC

301 Zima Park Drive
Spartanburg, SC 29301

Billing Information:
Scott Dacus
301 Zima Park Drive
Spartanburg, SC 29301

Report to:
Richard Bonds

Email To:
rbonds@smeinc.com;SDacus@smeinc.com

Project Description:
New Indy - Catawba

City/State Collected: SC

Please Circle: PT MT CT ET

Phone: 864-574-2360

Client Project #
4213-18-087

Lab Project #
SMESPAR-4213-18-087

Collected by (print):
Scott Dacus

Site/Facility ID #

P.O. #
4213-18-087

Collected by (signature):
S. H. Dacus

Immediately Packed on Ice N ___ Y ✓

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

Date Results Needed

Quote #

Analysis / Container / Preservative

Pres Chk

SV8290 1L-Amb-NoPres

Chain of Custody Page 1 of 2

Pace
PEOPLE ADVANCING SCIENCE

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

SDG # 14791143

L-242

Acctnum: SMESPAR
Template: T206237
Prelogin: P914688
PM: 690- Tom Mellette
PB: 5/25/22 1000
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	SV8290 1L-Amb-NoPres	Remarks	Sample # (lab only)
WYLF-MW-3	GRAB	GW		4/4/22	1420	2	✓		-01
GW-9	GRAB	GW		4/4/22	1011	2	✓		-02
R29-MW-1	GRAB	GW		4/4/22	1357	2	✓		-03
DF-MW-2	GRAB	GW		4/4/22	1430	2	✓		-04
DF-MW-4	GRAB	GW		4/4/22	1035	2	✓		-05
GW-11	GRAB	GW		4/4/22	1135	2	✓		-06
GW-15R	GRAB	GW		4/4/22	1520	2	✓		-07
GW-16	GRAB	GW		4/4/22	1517	2	✓		-08
GW-18	GRAB	GW		4/4/22	1345	2	✓		-09
DUPLICATE-1	GRAB	GW				2	✓		-10

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 5719 6174 7386

Sample Receipt Checklist

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
S. H. Dacus	4/5/22	1700			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: MSA6 °C 4.2 +0 = 4.2	Bottles Received: 24
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/6/22	Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
S&ME Inc. - Spartanburg SC

301 Zima Park Drive
Spartanburg, SC 29301

Billing Information:
Scott Dacus
301 Zima Park Drive
Spartanburg, SC 29301

Report to:
Richard Bonds

Email To:
rbonds@smeinc.com;SDacus@smeinc.com

Project Description:
New Indy - Catawba

City/State Collected: **SC**

Please Circle: PT MT CT ET

Phone: **864-574-2360**

Client Project #
4213-18-087

Lab Project #
SMESPAR-4213-18-087

Collected by (print):
Scott Dacus

Site/Facility ID #

P.O. # **4213-18-087**

Collected by (signature):
Scott Dacus

Immediately Packed on Ice N ___ Y ✓

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

Date Results Needed

Quote #

Analysis / Container / Preservative

Pres Chk

SV8290 1L-Amb-NoPres

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs		Remarks	Sample # (lab only)
FIELD BLANK	GRAB	GW		4/5/22	1200	2	✓		-11
EQUIP BLANK	GRAB	GW		4/5/22	1215	2	✓		-12
		~~GW~~							
		~~GW~~							
		~~GW~~							

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

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

SDG # 1479143

Table #

Acctnum: **SMESPAR**
Template: **T206237**
Prelogin: **P914688**
PM: 690 - Tom Mellette
PB: 3/25/22 tdd
Shipped Via: **FedEX Ground**

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

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 5719 6174 7386

Sample Receipt Checklist

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / (No) HCL / MeoH TBR	
Scott Dacus	4/5/22	1700			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: MS 6°C Bottles Received: 4.2 +0 = 4.2 24	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/6/22 Time: 0900	Hold: Condition: NCF / (OK)

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

Client Services
Pace Analytical National
12065 Lebanon Road
Mount Juliet TN 37122

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 10603827
Sample Receipt Date: 04/08/2022
Client Project #: L1479143 WG1844569
Client Sub PO #: L1479143
State Cert #: 74003

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Kongmeng Vang, your Pace Project Manager.

This report has been reviewed by:

April 18, 2022
Kongmeng Vang, Project Manager
(612) 607-6382
(612) 607-6333 (fax)

Report Prepared Date:
April 18, 2022

Report of Laboratory Analysis

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analyses performed on twelve samples submitted by a representative of Pace Analytical National. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using USEPA Method 1613B. The estimated detection limits (EDLs) were based on signal-to-noise measurements. Estimated maximum possible concentration (EMPC) values were treated as positives in the toxic equivalence calculations.

Second column confirmation analyses of 2,3,7,8-TCDF values obtained from the primary (DB5-MS) column are performed only when specifically requested for a project and only when the values are above the concentration of the lowest calibration standard. Typical resolution for this isomer using the DB5-MS column ranges from 25-30%.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 17-104%. Except for seven low values, which were flagged "R" on the results tables, the labeled standard recoveries obtained for this project were within the target ranges specified in Method 1613B. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for recovery and accurate values were obtained.

Values were flagged "I" where incorrect isotope ratios were obtained. Concentrations below the calibration range were flagged "J" and should be regarded as estimates.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show that PCDDs and PCDFs were not detected.

Laboratory spike samples were also prepared with the sample batch using clean reference matrix that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 67-118% with relative percent differences of 0.0-10.4%. The recovery values obtained for the spiked native OCDD in the laboratory spike samples were below the target range, flagged "R" on the results tables, and may indicate a low bias for this congener in these determinations. Matrix spikes were not prepared with the sample batch.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
		Missouri	10100
A2LA	2926.01	Montana	CERT0092
Alabama	40770	Nebraska	NE-OS-18-06
Alaska-DW	MN00064	Nevada	MN00064
Alaska-UST	17-009	New Hampshire	2081
Arizona	AZ0014	New Jersey	MN002
Arkansas - WW	88-0680	New York	11647
Arkansas-DW	MN00064	North Carolina-	27700
California	2929	North Carolina-	530
Colorado	MN00064	North Dakota	R-036
Connecticut	PH-0256	Ohio-DW	41244
Florida	E87605	Ohio-VAP (170	CL101
Georgia	959	Ohio-VAP (180	CL110
Hawaii	MN00064	Oklahoma	9507
Idaho	MN00064	Oregon- rimary	MN300001
Illinois	200011	Oregon-Second	MN200001
Indiana	C-MN-01	Pennsylvania	68-00563
Iowa	368	Puerto Rico	MN00064
Kansas	E-10167	South Carolina	74003
Kentucky-DW	90062	Tennessee	TN02818
Kentucky-WW	90062	Texas	T104704192
Louisiana-DEQ	AI-84596	Utah	MN00064
Louisiana-DW	MN00064	Vermont	VT-027053137
Maine	MN00064	Virginia	460163
Maryland	322	Washington	C486
Michigan	9909	West Virginia-D	382
Minnesota	027-053-137	West Virginia-D	9952C
Minnesota-Ag	via MN 027-053	Wisconsin	999407970
Minnesota-Petr	1240	Wyoming-UST	via A2LA 2926.
Mississippi	MN00064		

REPORT OF LABORATORY ANALYSIS

Report No.....10603827

Appendix A

Sample Management

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Pace Analytical	Report To:	Pace Analytical Subout Team	Attention:	R. Bonds / S. Dacus / S. Lummus
Address:	12065 Lebanon Rd.	Copy To:		Company Name:	
Mt. Juliet, TN 37122				Address:	
Email:	MTJLSuboutTeam@pacelabs.com	Purchase Order #:	L1479143	Pace Quote:	
Phone:	(615) 773-9756 Fax: (615) 758-5859	Project Name:	New Indy - Catawba	Pace Project Manager:	Kongmeng Vang
Requested Due Date:	18-Apr	Project #:	4213-18-087	Pace Profile #:	38076

Regulatory Agency

State / Location: SC

WO# : 10603827

10603827

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Dioxins/Furans 1613	Res	
1	WYLF-MW-3	WT				04-Apr	14:20		2	2									X		CC1
2	GW-9	WT				04-Apr	10:11		2	2									X		CC2
3	R29-MW-1	WT				04-Apr	13:57		2	2									X		CC3
4	DF-MW-2	WT				04-Apr	14:30		2	2									X		CC4
5	DF-MW-4	WT				04-Apr	10:35		2	2									X		CC5
6	GW-11	WT				04-Apr	11:35		2	2									X		CC6
7	GW-15R	WT				04-Apr	15:20		2	2									X		CC7
8	GW-16	WT				04-Apr	15:17		2	2									X		CC8
9	GW-18	WT				04-Apr	13:45		2	2									X		CC9
10	DUPLICATE-1	WT				04-Apr	0:01		2	2									X		CC10
11	FIELD BLANK	WT				05-Apr	12:00		2	2									X		CC11
12	EQUIP BLANK	WT				05-Apr	12:15		2	2									X		CC12

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	James C Huckaba	7-Apr	9:23	Ruth / Pace	4-8-22	8:50	X Y Y Y
Pace Analytical Batch: WG1844569				0.7/2.7/23/27			
Pace Analytical SDGs: L1479143							
Location: Minneapolis, MN 55414							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

T=0.7, 2.2, 2.3, 2.7

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: **06Jan2022** **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0150 Rev.04**	Pace Analytical Services - **Minneapolis**

Sample Condition Upon Receipt **Client Name:** Pace **Project #:**

WO# : 10603827

PM: KV **Due Date: 04/19/22**

CLIENT: ESC_TN

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: 4 coolers See Exceptions ☐ ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No **Seals Intact?** ☒ Yes ☐ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other:_____ **Temp Blank?** ☒ Yes ☐ No

Thermometer: ☒ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☐ T5(0489) ☐ 01339252/1710 ☐ 122639816 ☐ 140792808 **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☒ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:**_____ °C **Average Corrected Temp (no temp blank only):**_____ °C ☒ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

Correction Factor: -0.1 **Cooler Temp Corrected w/temp blank:** 4 coolers °C

USDA Regulated Soil: (☒ N/A, water sample/Other:_____) **Date/Initials of Person Examining Contents:** 4-8-22 RT

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Location (check one): ☐ Duluth ☒ Minneapolis ☐ Virginia				**COMMENTS:**
Chain of Custody Present and Filled Out?	☒ Yes	☐ No		1.
Chain of Custody Relinquished?	☒ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☐ Yes	☒ No	☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes	☐ No		4. If Fecal: ☐ <8 hrs ☐ >8hr, <24 hrs, ☐ >24 hrs
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other_____
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Volume?	☒ Yes	☐ No		7.
Correct Containers Used? -Pace Containers Used?	☒ Yes ☒ Yes	☐ No ☐ No		8.
Containers Intact?	☒ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☒ Water ☐ Soil ☐ Oil ☐ Other-	☒ Yes	☐ No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ **ENV-FRM-MIN4-0142**
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐ Yes	☐ No	☒ N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☒ Yes	☐ No	☐ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐ **ENV-FRM-MIN4-0142**
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Headspace in Methyl Mercury Container?	☐ Yes	☐ No	☒ N/A	
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☒ N/A	13. **See Exception** ☐ **ENV-FRM-MIN4-0140**
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☒ N/A	
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	14.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	Pace Trip Blank Lot # (if purchased):_____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted:_____ Date/Time:_____

Comments/Resolution:_____

Project Manager Review: _____ **Date:** 4/8/22

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: RFC 3

Pace Analytical®	Document Name: **Sample Condition Upon Receipt (SCUR) Exception Form**	Document Revised: 04Jun2020 **Page 1 of 1**
	Document No.: **ENV-FRM-MIN4-0142 Rev.01**	Pace Analytical Services - **Minneapolis**

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers

PM Notified? ☐Yes ☐No

If yes, indicate who was contacted/date/time.
If no, indicate reason why.

Multiple Cooler Project? ☐Yes ☐No
If you answered yes, fill out information to the left.

No Temp Blank		
Read Temp	Corrected Temp	Average Temp

Tracking Number/Temperature	
5719 6177 9050	0-7
5719 6177 9039	2-2
" 9010	2-3
" 9028	2-7

Issue Type: Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	

Comments:

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Reporting Flags

A = Reporting Limit based on signal to noise (EDL)

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Interferencepresent

J = Estimated value

L = Suppressive interference, analyte may be biased low

Nn = Value obtained from additional analysis

P = PCDEInterference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = SeeDiscussion

REPORT OF LABORATORY ANALYSIS

Appendix B

Sample Analysis Summary

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	WYLF-MW-3		
Lab Sample ID	10603827001		
Filename	L220414A_12		
Injected By	MS4		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/04/2022 14:20
ICAL ID	L220407	Received	04/08/2022 08:50
CCal Filename(s)	L220414A_07	Extracted	04/08/2022 14:50
Method Blank ID	BLANK-97974	Analyzed	04/14/2022 09:27

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.37		2,3,7,8-TCDF-13C	2.00	85	
Total TCDF	ND	-----	0.37		2,3,7,8-TCDD-13C	2.00	79	
					1,2,3,7,8-PeCDF-13C	2.00	53	
2,3,7,8-TCDD	ND	-----	0.84		2,3,4,7,8-PeCDF-13C	2.00	58	
Total TCDD	ND	-----	0.84		1,2,3,7,8-PeCDD-13C	2.00	56	
					1,2,3,4,7,8-HxCDF-13C	2.00	46	
1,2,3,7,8-PeCDF	ND	-----	0.32		1,2,3,6,7,8-HxCDF-13C	2.00	78	
2,3,4,7,8-PeCDF	ND	-----	0.27		2,3,4,6,7,8-HxCDF-13C	2.00	80	
Total PeCDF	ND	-----	0.27		1,2,3,7,8,9-HxCDF-13C	2.00	24	R
					1,2,3,4,7,8-HxCDD-13C	2.00	77	
1,2,3,7,8-PeCDD	ND	-----	1.1		1,2,3,6,7,8-HxCDD-13C	2.00	66	
Total PeCDD	ND	-----	1.1		1,2,3,4,6,7,8-HpCDF-13C	2.00	29	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	54	
1,2,3,4,7,8-HxCDF	ND	-----	0.34		1,2,3,4,6,7,8-HpCDD-13C	2.00	59	
1,2,3,6,7,8-HxCDF	ND	-----	0.35		OCDD-13C	4.00	46	
2,3,4,6,7,8-HxCDF	ND	-----	0.36					
1,2,3,7,8,9-HxCDF	ND	-----	2.2		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	0.34		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	-----	1.7	0.89	IJ	2,3,7,8-TCDD-37Cl4	0.20	83	
1,2,3,6,7,8-HxCDD	ND	-----	0.87					
1,2,3,7,8,9-HxCDD	ND	-----	0.89					
Total HxCDD	ND	-----	0.87					
1,2,3,4,6,7,8-HpCDF	ND	-----	1.7		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	1.2		Equivalence: 0.23 pg/L			
Total HpCDF	ND	-----	1.2		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	3.1	-----	1.0	J				
Total HpCDD	6.1	-----	1.0	J				
OCDF	-----	1.6	1.6	IJ				
OCDD	110	-----	1.5					

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
R = Recovery outside target range
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 1613B Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	GW-9		
Lab Sample ID	10603827002		
Filename	L220414A_13		
Injected By	MS4		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/04/2022 10:11
ICAL ID	L220407	Received	04/08/2022 08:50
CCal Filename(s)	L220414A_07	Extracted	04/08/2022 14:50
Method Blank ID	BLANK-97974	Analyzed	04/14/2022 10:12

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.39		2,3,7,8-TCDF-13C	2.00	93
Total TCDF	ND	-----	0.39		2,3,7,8-TCDD-13C	2.00	85
					1,2,3,7,8-PeCDF-13C	2.00	47
2,3,7,8-TCDD	ND	-----	0.75		2,3,4,7,8-PeCDF-13C	2.00	65
Total TCDD	ND	-----	0.75		1,2,3,7,8-PeCDD-13C	2.00	57
					1,2,3,4,7,8-HxCDF-13C	2.00	62
1,2,3,7,8-PeCDF	ND	-----	0.25		1,2,3,6,7,8-HxCDF-13C	2.00	88
2,3,4,7,8-PeCDF	ND	-----	0.18		2,3,4,6,7,8-HxCDF-13C	2.00	91
Total PeCDF	0.50	-----	0.18	J	1,2,3,7,8,9-HxCDF-13C	2.00	32
					1,2,3,4,7,8-HxCDD-13C	2.00	86
1,2,3,7,8-PeCDD	ND	-----	0.58		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	-----	0.58		1,2,3,4,6,7,8-HpCDF-13C	2.00	34
					1,2,3,4,7,8,9-HpCDF-13C	2.00	65
1,2,3,4,7,8-HxCDF	ND	-----	0.42		1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	ND	-----	0.35		OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	ND	-----	0.40				
1,2,3,7,8,9-HxCDF	ND	-----	1.6		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.35		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.8	-----	0.59	J	2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	ND	-----	0.65				
1,2,3,7,8,9-HxCDD	ND	-----	0.55				
Total HxCDD	1.8	-----	0.55	J			
1,2,3,4,6,7,8-HpCDF	ND	-----	1.6		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.98		Equivalence: 0.26 pg/L		
Total HpCDF	ND	-----	0.98		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	8.0	-----	1.1	J			
Total HpCDD	10	-----	1.1	J			
OCDF	ND	-----	1.6				
OCDD	6.6	-----	1.8	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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ND = Not Detected
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NC = Not Calculated

J = Estimated value

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 1613B Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	R29-MW-1		
Lab Sample ID	10603827003		
Filename	L220414A_14		
Injected By	MS4		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/04/2022 13:57
ICAL ID	L220407	Received	04/08/2022 08:50
CCal Filename(s)	L220414A_07	Extracted	04/08/2022 14:50
Method Blank ID	BLANK-97974	Analyzed	04/14/2022 10:56

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	15	-----	0.71		2,3,7,8-TCDF-13C	2.00	65	
Total TCDF	17	-----	0.71		2,3,7,8-TCDD-13C	2.00	58	
					1,2,3,7,8-PeCDF-13C	2.00	38	
2,3,7,8-TCDD	2.1	-----	0.85	J	2,3,4,7,8-PeCDF-13C	2.00	43	
Total TCDD	2.1	-----	0.85	J	1,2,3,7,8-PeCDD-13C	2.00	40	
					1,2,3,4,7,8-HxCDF-13C	2.00	39	
1,2,3,7,8-PeCDF	ND	-----	0.51		1,2,3,6,7,8-HxCDF-13C	2.00	55	
2,3,4,7,8-PeCDF	-----	0.54	0.44	IJ	2,3,4,6,7,8-HxCDF-13C	2.00	57	
Total PeCDF	1.0	-----	0.44	J	1,2,3,7,8,9-HxCDF-13C	2.00	23	R
					1,2,3,4,7,8-HxCDD-13C	2.00	55	
1,2,3,7,8-PeCDD	ND	-----	1.1		1,2,3,6,7,8-HxCDD-13C	2.00	47	
Total PeCDD	ND	-----	1.1		1,2,3,4,6,7,8-HpCDF-13C	2.00	21	R
					1,2,3,4,7,8,9-HpCDF-13C	2.00	40	
1,2,3,4,7,8-HxCDF	ND	-----	0.92		1,2,3,4,6,7,8-HpCDD-13C	2.00	44	
1,2,3,6,7,8-HxCDF	ND	-----	0.63		OCDD-13C	4.00	32	
2,3,4,6,7,8-HxCDF	ND	-----	0.62					
1,2,3,7,8,9-HxCDF	ND	-----	2.7		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	0.62		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	-----	1.7	1.4	IJ	2,3,7,8-TCDD-37Cl4	0.20	71	
1,2,3,6,7,8-HxCDD	-----	1.4	1.3	IJ				
1,2,3,7,8,9-HxCDD	ND	-----	1.2					
Total HxCDD	4.7	-----	1.2	J				
1,2,3,4,6,7,8-HpCDF	4.5	-----	3.6	J	Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	2.2		Equivalence: 5.0 pg/L			
Total HpCDF	4.5	-----	2.2	J	(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	67	-----	1.7					
Total HpCDD	160	-----	1.7					
OCDF	41	-----	4.4	J				
OCDD	740	-----	1.7					

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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NC = Not Calculated

J = Estimated value
R = Recovery outside target range
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 1613B Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	DF-MW-2		
Lab Sample ID	10603827004		
Filename	L220414A_15		
Injected By	MS4		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/04/2022 14:30
ICAL ID	L220407	Received	04/08/2022 08:50
CCal Filename(s)	L220414A_07	Extracted	04/08/2022 14:50
Method Blank ID	BLANK-97974	Analyzed	04/14/2022 11:41

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	0.48	-----	0.28	J	2,3,7,8-TCDF-13C	2.00	84	
Total TCDF	1.2	-----	0.28	J	2,3,7,8-TCDD-13C	2.00	77	
					1,2,3,7,8-PeCDF-13C	2.00	54	
2,3,7,8-TCDD	ND	-----	0.49		2,3,4,7,8-PeCDF-13C	2.00	57	
Total TCDD	ND	-----	0.49		1,2,3,7,8-PeCDD-13C	2.00	55	
					1,2,3,4,7,8-HxCDF-13C	2.00	38	
1,2,3,7,8-PeCDF	ND	-----	0.20		1,2,3,6,7,8-HxCDF-13C	2.00	75	
2,3,4,7,8-PeCDF	0.23	-----	0.16	J	2,3,4,6,7,8-HxCDF-13C	2.00	81	
Total PeCDF	0.23	-----	0.16	J	1,2,3,7,8,9-HxCDF-13C	2.00	17	R
					1,2,3,4,7,8-HxCDD-13C	2.00	80	
1,2,3,7,8-PeCDD	ND	-----	0.63		1,2,3,6,7,8-HxCDD-13C	2.00	68	
Total PeCDD	ND	-----	0.63		1,2,3,4,6,7,8-HpCDF-13C	2.00	28	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	51	
1,2,3,4,7,8-HxCDF	ND	-----	0.23		1,2,3,4,6,7,8-HpCDD-13C	2.00	56	
1,2,3,6,7,8-HxCDF	ND	-----	0.24		OCDD-13C	4.00	45	
2,3,4,6,7,8-HxCDF	ND	-----	0.21					
1,2,3,7,8,9-HxCDF	ND	-----	1.3		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	0.21		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	1.8	-----	0.60	J	2,3,7,8-TCDD-37Cl4	0.20	82	
1,2,3,6,7,8-HxCDD	ND	-----	0.59					
1,2,3,7,8,9-HxCDD	ND	-----	0.54					
Total HxCDD	1.8	-----	0.54	J				
1,2,3,4,6,7,8-HpCDF	ND	-----	1.3		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	1.1		Equivalence: 0.30 pg/L			
Total HpCDF	ND	-----	1.1		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	ND	-----	1.4					
Total HpCDD	ND	-----	1.4					
OCDF	ND	-----	1.4					
OCDD	15	-----	1.5	J				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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ND = Not Detected
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NC = Not Calculated

J = Estimated value
R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	DF-MW-4		
Lab Sample ID	10603827005		
Filename	L220414A_16		
Injected By	MS4		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/04/2022 10:35
ICAL ID	L220407	Received	04/08/2022 08:50
CCal Filename(s)	L220414A_07	Extracted	04/08/2022 14:50
Method Blank ID	BLANK-97974	Analyzed	04/14/2022 12:25

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.26		2,3,7,8-TCDF-13C	2.00	87
Total TCDF	ND	-----	0.26		2,3,7,8-TCDD-13C	2.00	78
					1,2,3,7,8-PeCDF-13C	2.00	58
2,3,7,8-TCDD	ND	-----	0.71		2,3,4,7,8-PeCDF-13C	2.00	60
Total TCDD	ND	-----	0.71		1,2,3,7,8-PeCDD-13C	2.00	58
					1,2,3,4,7,8-HxCDF-13C	2.00	67
1,2,3,7,8-PeCDF	-----	0.51	0.31	IJ	1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	0.53	-----	0.25	J	2,3,4,6,7,8-HxCDF-13C	2.00	85
Total PeCDF	0.53	-----	0.25	J	1,2,3,7,8,9-HxCDF-13C	2.00	32
					1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	ND	-----	0.70		1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	ND	-----	0.70		1,2,3,4,6,7,8-HpCDF-13C	2.00	33
					1,2,3,4,7,8,9-HpCDF-13C	2.00	60
1,2,3,4,7,8-HxCDF	-----	0.41	0.38	IJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	65
1,2,3,6,7,8-HxCDF	-----	0.53	0.29	IJ	OCDD-13C	4.00	50
2,3,4,6,7,8-HxCDF	-----	0.37	0.32	IJ			
1,2,3,7,8,9-HxCDF	ND	-----	1.8		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.29		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.1	-----	0.89	J	2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	-----	0.87				
1,2,3,7,8,9-HxCDD	ND	-----	0.68				
Total HxCDD	2.1	-----	0.68	J			
1,2,3,4,6,7,8-HpCDF	ND	-----	1.3		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	-----	1.7	1.2	IJ	Equivalence: 0.54 pg/L		
Total HpCDF	ND	-----	1.2		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	1.3				
Total HpCDD	ND	-----	1.3				
OCDF	ND	-----	1.5				
OCDD	11	-----	2.3	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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J = Estimated value
I = Interference present

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	GW-11		
Lab Sample ID	10603827006		
Filename	L220414A_17		
Injected By	MS4		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/04/2022 11:35
ICAL ID	L220407	Received	04/08/2022 08:50
CCal Filename(s)	L220414A_07	Extracted	04/08/2022 14:50
Method Blank ID	BLANK-97974	Analyzed	04/14/2022 13:10

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.25		2,3,7,8-TCDF-13C	2.00	89
Total TCDF	ND	-----	0.25		2,3,7,8-TCDD-13C	2.00	83
					1,2,3,7,8-PeCDF-13C	2.00	58
2,3,7,8-TCDD	ND	-----	0.56		2,3,4,7,8-PeCDF-13C	2.00	63
Total TCDD	ND	-----	0.56		1,2,3,7,8-PeCDD-13C	2.00	60
					1,2,3,4,7,8-HxCDF-13C	2.00	73
1,2,3,7,8-PeCDF	ND	-----	0.21		1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	0.21	-----	0.18	J	2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	0.21	-----	0.18	J	1,2,3,7,8,9-HxCDF-13C	2.00	37
					1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	ND	-----	0.59		1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD	ND	-----	0.59		1,2,3,4,6,7,8-HpCDF-13C	2.00	31
					1,2,3,4,7,8,9-HpCDF-13C	2.00	58
1,2,3,4,7,8-HxCDF	ND	-----	0.39		1,2,3,4,6,7,8-HpCDD-13C	2.00	64
1,2,3,6,7,8-HxCDF	ND	-----	0.30		OCDD-13C	4.00	44
2,3,4,6,7,8-HxCDF	ND	-----	0.29				
1,2,3,7,8,9-HxCDF	ND	-----	0.99		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.29		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	1.4	0.57	IJ	2,3,7,8-TCDD-37Cl4	0.20	90
1,2,3,6,7,8-HxCDD	ND	-----	0.69				
1,2,3,7,8,9-HxCDD	ND	-----	0.68				
Total HxCDD	ND	-----	0.57				
1,2,3,4,6,7,8-HpCDF	ND	-----	1.3		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.89		Equivalence: 0.21 pg/L		
Total HpCDF	ND	-----	0.89		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	1.1				
Total HpCDD	ND	-----	1.1				
OCDF	ND	-----	1.5				
OCDD	-----	5.1	2.4	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	GW-15R		
Lab Sample ID	10603827007		
Filename	L220414A_18		
Injected By	MS4		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/04/2022 15:20
ICAL ID	L220407	Received	04/08/2022 08:50
CCal Filename(s)	L220414A_07	Extracted	04/08/2022 14:50
Method Blank ID	BLANK-97974	Analyzed	04/14/2022 13:54

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.31		2,3,7,8-TCDF-13C	2.00	87	
Total TCDF	ND	-----	0.31		2,3,7,8-TCDD-13C	2.00	79	
					1,2,3,7,8-PeCDF-13C	2.00	39	
2,3,7,8-TCDD	ND	-----	0.80		2,3,4,7,8-PeCDF-13C	2.00	58	
Total TCDD	ND	-----	0.80		1,2,3,7,8-PeCDD-13C	2.00	50	
					1,2,3,4,7,8-HxCDF-13C	2.00	57	
1,2,3,7,8-PeCDF	ND	-----	0.24		1,2,3,6,7,8-HxCDF-13C	2.00	80	
2,3,4,7,8-PeCDF	ND	-----	0.17		2,3,4,6,7,8-HxCDF-13C	2.00	83	
Total PeCDF	ND	-----	0.17		1,2,3,7,8,9-HxCDF-13C	2.00	22	R
					1,2,3,4,7,8-HxCDD-13C	2.00	77	
1,2,3,7,8-PeCDD	ND	-----	0.70		1,2,3,6,7,8-HxCDD-13C	2.00	69	
Total PeCDD	ND	-----	0.70		1,2,3,4,6,7,8-HpCDF-13C	2.00	29	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	54	
1,2,3,4,7,8-HxCDF	ND	-----	0.36		1,2,3,4,6,7,8-HpCDD-13C	2.00	58	
1,2,3,6,7,8-HxCDF	ND	-----	0.25		OCDD-13C	4.00	44	
2,3,4,6,7,8-HxCDF	ND	-----	0.25					
1,2,3,7,8,9-HxCDF	ND	-----	2.0		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	0.25		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	-----	1.8	0.57	IJ	2,3,7,8-TCDD-37Cl4	0.20	79	
1,2,3,6,7,8-HxCDD	ND	-----	0.49					
1,2,3,7,8,9-HxCDD	ND	-----	0.51					
Total HxCDD	ND	-----	0.49					
1,2,3,4,6,7,8-HpCDF	ND	-----	1.2		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	0.99		Equivalence: 0.18 pg/L			
Total HpCDF	ND	-----	0.99		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	ND	-----	1.5					
Total HpCDD	ND	-----	1.5					
OCDF	ND	-----	2.4					
OCDD	4.2	-----	2.1	J				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
R = Recovery outside target range
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 1613B Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	GW-16		
Lab Sample ID	10603827008		
Filename	L220414A_19		
Injected By	MS4		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/04/2022 15:17
ICAL ID	L220407	Received	04/08/2022 08:50
CCal Filename(s)	L220414A_07	Extracted	04/08/2022 14:50
Method Blank ID	BLANK-97974	Analyzed	04/14/2022 14:39

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	1.8	-----	0.34	J	2,3,7,8-TCDF-13C	2.00	86	
Total TCDF	1.8	-----	0.34	J	2,3,7,8-TCDD-13C	2.00	76	
					1,2,3,7,8-PeCDF-13C	2.00	51	
2,3,7,8-TCDD	ND	-----	0.58		2,3,4,7,8-PeCDF-13C	2.00	58	
Total TCDD	ND	-----	0.58		1,2,3,7,8-PeCDD-13C	2.00	53	
					1,2,3,4,7,8-HxCDF-13C	2.00	59	
1,2,3,7,8-PeCDF	0.74	-----	0.31	J	1,2,3,6,7,8-HxCDF-13C	2.00	72	
2,3,4,7,8-PeCDF	-----	0.66	0.24	IJ	2,3,4,6,7,8-HxCDF-13C	2.00	76	
Total PeCDF	0.74	-----	0.24	J	1,2,3,7,8,9-HxCDF-13C	2.00	21	R
					1,2,3,4,7,8-HxCDD-13C	2.00	71	
1,2,3,7,8-PeCDD	ND	-----	1.0		1,2,3,6,7,8-HxCDD-13C	2.00	64	
Total PeCDD	ND	-----	1.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	25	R
					1,2,3,4,7,8,9-HpCDF-13C	2.00	48	
1,2,3,4,7,8-HxCDF	-----	0.76	0.41	IJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	51	
1,2,3,6,7,8-HxCDF	0.89	-----	0.31	J	OCDD-13C	4.00	34	
2,3,4,6,7,8-HxCDF	-----	0.73	0.26	IJ				
1,2,3,7,8,9-HxCDF	ND	-----	1.7		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	0.89	-----	0.26	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	2.8	-----	0.81	J	2,3,7,8-TCDD-37Cl4	0.20	87	
1,2,3,6,7,8-HxCDD	ND	-----	0.89					
1,2,3,7,8,9-HxCDD	1.1	-----	0.65	J				
Total HxCDD	3.9	-----	0.65	J				
1,2,3,4,6,7,8-HpCDF	2.2	-----	1.7	J	Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	1.5		Equivalence: 1.1 pg/L			
Total HpCDF	2.2	-----	1.5	J	(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	ND	-----	1.6					
Total HpCDD	ND	-----	1.6					
OCDF	2.4	-----	2.3	J				
OCDD	8.6	-----	2.6	J				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
R = Recovery outside target range
I = Interference present

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 1613B Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	GW-18		
Lab Sample ID	10603827009		
Filename	U220414A_13		
Injected By	MS4		
Total Amount Extracted	1010 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/04/2022 13:45
ICAL ID	U220123	Received	04/08/2022 08:50
CCal Filename(s)	U220413B_16	Extracted	04/08/2022 14:50
Method Blank ID	BLANK-97974	Analyzed	04/14/2022 17:48

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.73		2,3,7,8-TCDF-13C	2.00	79
Total TCDF	ND	-----	0.73		2,3,7,8-TCDD-13C	2.00	83
					1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	-----	2.8		2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	ND	-----	2.8		1,2,3,7,8-PeCDD-13C	2.00	88
					1,2,3,4,7,8-HxCDF-13C	2.00	88
1,2,3,7,8-PeCDF	ND	-----	0.84		1,2,3,6,7,8-HxCDF-13C	2.00	43
2,3,4,7,8-PeCDF	ND	-----	0.56		2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	ND	-----	0.56		1,2,3,7,8,9-HxCDF-13C	2.00	73
					1,2,3,4,7,8-HxCDD-13C	2.00	84
1,2,3,7,8-PeCDD	ND	-----	2.2		1,2,3,6,7,8-HxCDD-13C	2.00	93
Total PeCDD	ND	-----	2.2		1,2,3,4,6,7,8-HpCDF-13C	2.00	62
					1,2,3,4,7,8,9-HpCDF-13C	2.00	40
1,2,3,4,7,8-HxCDF	ND	-----	2.0		1,2,3,4,6,7,8-HpCDD-13C	2.00	69
1,2,3,6,7,8-HxCDF	ND	-----	3.3		OCDD-13C	4.00	36
2,3,4,6,7,8-HxCDF	ND	-----	2.8				
1,2,3,7,8,9-HxCDF	ND	-----	2.7		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	2.0		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	2.4		2,3,7,8-TCDD-37Cl4	0.20	93
1,2,3,6,7,8-HxCDD	ND	-----	2.8				
1,2,3,7,8,9-HxCDD	ND	-----	2.6				
Total HxCDD	2.5	-----	2.4	J			
1,2,3,4,6,7,8-HpCDF	ND	-----	5.4		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	15		Equivalence: 0.021 pg/L		
Total HpCDF	ND	-----	5.4		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.3				
Total HpCDD	9.6	-----	4.3	J			
OCDF	ND	-----	9.2				
OCDD	71	-----	20	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 1613B Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	DUPLICATE-1		
Lab Sample ID	10603827010		
Filename	U220414A_14		
Injected By	MS4		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/04/2022 00:01
ICAL ID	U220123	Received	04/08/2022 08:50
CCal Filename(s)	U220413B_16	Extracted	04/08/2022 14:50
Method Blank ID	BLANK-97974	Analyzed	04/14/2022 18:35

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.83	2,3,7,8-TCDF-13C	2.00	86
Total TCDF	ND	-----	0.83	2,3,7,8-TCDD-13C	2.00	91
				1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	ND	-----	3.6	2,3,4,7,8-PeCDF-13C	2.00	83
Total TCDD	ND	-----	3.6	1,2,3,7,8-PeCDD-13C	2.00	93
				1,2,3,4,7,8-HxCDF-13C	2.00	96
1,2,3,7,8-PeCDF	ND	-----	1.2	1,2,3,6,7,8-HxCDF-13C	2.00	42
2,3,4,7,8-PeCDF	ND	-----	0.92	2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	ND	-----	0.92	1,2,3,7,8,9-HxCDF-13C	2.00	84
				1,2,3,4,7,8-HxCDD-13C	2.00	97
1,2,3,7,8-PeCDD	ND	-----	1.6	1,2,3,6,7,8-HxCDD-13C	2.00	104
Total PeCDD	ND	-----	1.6	1,2,3,4,6,7,8-HpCDF-13C	2.00	70
				1,2,3,4,7,8,9-HpCDF-13C	2.00	39
1,2,3,4,7,8-HxCDF	ND	-----	0.91	1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	ND	-----	1.3	OCDD-13C	4.00	41
2,3,4,6,7,8-HxCDF	ND	-----	1.9			
1,2,3,7,8,9-HxCDF	ND	-----	2.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.91	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	2.4	2,3,7,8-TCDD-37Cl4	0.20	104
1,2,3,6,7,8-HxCDD	ND	-----	2.5			
1,2,3,7,8,9-HxCDD	ND	-----	2.5			
Total HxCDD	ND	-----	2.4			
1,2,3,4,6,7,8-HpCDF	ND	-----	6.4	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	21	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	6.4	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	5.2			
Total HpCDD	ND	-----	5.2			
OCDF	ND	-----	13			
OCDD	ND	-----	17			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	FIELD BLANK		
Lab Sample ID	10603827011		
Filename	U220414B_12		
Injected By	MS4		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/05/2022 12:00
ICAL ID	U220123	Received	04/08/2022 08:50
CCal Filename(s)	U220414A_19	Extracted	04/08/2022 14:50
Method Blank ID	BLANK-97974	Analyzed	04/15/2022 07:45

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.67	2,3,7,8-TCDF-13C	2.00	77
Total TCDF	ND	-----	0.67	2,3,7,8-TCDD-13C	2.00	79
				1,2,3,7,8-PeCDF-13C	2.00	75
2,3,7,8-TCDD	ND	-----	3.9	2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD	ND	-----	3.9	1,2,3,7,8-PeCDD-13C	2.00	82
				1,2,3,4,7,8-HxCDF-13C	2.00	84
1,2,3,7,8-PeCDF	ND	-----	1.2	1,2,3,6,7,8-HxCDF-13C	2.00	41
2,3,4,7,8-PeCDF	ND	-----	1.0	2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	ND	-----	1.0	1,2,3,7,8,9-HxCDF-13C	2.00	70
				1,2,3,4,7,8-HxCDD-13C	2.00	86
1,2,3,7,8-PeCDD	ND	-----	2.7	1,2,3,6,7,8-HxCDD-13C	2.00	86
Total PeCDD	ND	-----	2.7	1,2,3,4,6,7,8-HpCDF-13C	2.00	63
				1,2,3,4,7,8,9-HpCDF-13C	2.00	44
1,2,3,4,7,8-HxCDF	ND	-----	1.5	1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	ND	-----	1.4	OCDD-13C	4.00	38
2,3,4,6,7,8-HxCDF	ND	-----	2.2			
1,2,3,7,8,9-HxCDF	ND	-----	2.3	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.4	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	2.0	2,3,7,8-TCDD-37Cl4	0.20	90
1,2,3,6,7,8-HxCDD	ND	-----	2.2			
1,2,3,7,8,9-HxCDD	ND	-----	2.0			
Total HxCDD	ND	-----	2.0			
1,2,3,4,6,7,8-HpCDF	ND	-----	5.1	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	9.4	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	5.1	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.3			
Total HpCDD	ND	-----	4.3			
OCDF	ND	-----	18			
OCDD	ND	-----	16			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - Pace Analytical National

Client's Sample ID	EQUIP BLANK		
Lab Sample ID	10603827012		
Filename	U220414B_06		
Injected By	MS4		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	04/05/2022 12:15
ICAL ID	U220123	Received	04/08/2022 08:50
CCal Filename(s)	U220414A_19	Extracted	04/08/2022 14:50
Method Blank ID	BLANK-97974	Analyzed	04/15/2022 03:06

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.1	2,3,7,8-TCDF-13C	2.00	76
Total TCDF	ND	-----	1.1	2,3,7,8-TCDD-13C	2.00	79
				1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	-----	3.7	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	ND	-----	3.7	1,2,3,7,8-PeCDD-13C	2.00	82
				1,2,3,4,7,8-HxCDF-13C	2.00	88
1,2,3,7,8-PeCDF	ND	-----	1.0	1,2,3,6,7,8-HxCDF-13C	2.00	56
2,3,4,7,8-PeCDF	ND	-----	1.0	2,3,4,6,7,8-HxCDF-13C	2.00	78
Total PeCDF	ND	-----	1.0	1,2,3,7,8,9-HxCDF-13C	2.00	73
				1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	-----	1.9	1,2,3,6,7,8-HxCDD-13C	2.00	88
Total PeCDD	ND	-----	1.9	1,2,3,4,6,7,8-HpCDF-13C	2.00	64
				1,2,3,4,7,8,9-HpCDF-13C	2.00	51
1,2,3,4,7,8-HxCDF	ND	-----	1.4	1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	ND	-----	2.4	OCDD-13C	4.00	40
2,3,4,6,7,8-HxCDF	ND	-----	2.0			
1,2,3,7,8,9-HxCDF	ND	-----	2.4	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.4	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	2.7	2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	ND	-----	2.5			
1,2,3,7,8,9-HxCDD	ND	-----	2.3			
Total HxCDD	ND	-----	2.3			
1,2,3,4,6,7,8-HpCDF	ND	-----	3.1	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	6.4	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	3.1	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	3.0			
Total HpCDD	ND	-----	3.0			
OCDF	ND	-----	7.2			
OCDD	ND	-----	9.3			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKJB		
Lab Sample ID	BLANK-97974	Matrix	Water
Filename	U220413B_11	Dilution	NA
Total Amount Extracted	976 mL	Extracted	04/08/2022 14:50
ICAL ID	U220123	Analyzed	04/14/2022 03:45
CCal Filename(s)	U220413B_01	Injected By	SMT

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.37	2,3,7,8-TCDF-13C	2.00	85
Total TCDF	ND	-----	0.37	2,3,7,8-TCDD-13C	2.00	90
				1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	-----	2.1	2,3,4,7,8-PeCDF-13C	2.00	87
Total TCDD	ND	-----	2.1	1,2,3,7,8-PeCDD-13C	2.00	104
				1,2,3,4,7,8-HxCDF-13C	2.00	94
1,2,3,7,8-PeCDF	ND	-----	0.99	1,2,3,6,7,8-HxCDF-13C	2.00	34
2,3,4,7,8-PeCDF	ND	-----	1.1	2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	ND	-----	0.99	1,2,3,7,8,9-HxCDF-13C	2.00	88
				1,2,3,4,7,8-HxCDD-13C	2.00	94
1,2,3,7,8-PeCDD	ND	-----	2.4	1,2,3,6,7,8-HxCDD-13C	2.00	99
Total PeCDD	ND	-----	2.4	1,2,3,4,6,7,8-HpCDF-13C	2.00	76
				1,2,3,4,7,8,9-HpCDF-13C	2.00	37
1,2,3,4,7,8-HxCDF	ND	-----	1.2	1,2,3,4,6,7,8-HpCDD-13C	2.00	85
1,2,3,6,7,8-HxCDF	ND	-----	3.4	OCDD-13C	4.00	55
2,3,4,6,7,8-HxCDF	ND	-----	0.94			
1,2,3,7,8,9-HxCDF	ND	-----	1.7	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.94	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.7	2,3,7,8-TCDD-37Cl4	0.20	100
1,2,3,6,7,8-HxCDD	ND	-----	1.1			
1,2,3,7,8,9-HxCDD	ND	-----	1.7			
Total HxCDD	ND	-----	1.1			
1,2,3,4,6,7,8-HpCDF	ND	-----	4.3	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	23	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	4.3	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	3.3			
Total HpCDD	ND	-----	3.3			
OCDF	ND	-----	5.8			
OCDD	ND	-----	2.8			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-97975		
Filename	U220413B_14	Matrix	Water
Total Amount Extracted	952 mL	Dilution	NA
ICAL ID	U220123	Extracted	04/08/2022 14:50
CCal Filename	U220413B_01	Analyzed	04/14/2022 06:04
Method Blank ID	BLANK-97974	Injected By	SMT

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.	
2,3,7,8-TCDF	10	11	7.5	15.8	107	
2,3,7,8-TCDD	10	12	6.7	15.8	118	
1,2,3,7,8-PeCDF	50	47	40.0	67.0	94	
2,3,4,7,8-PeCDF	50	48	34.0	80.0	97	
1,2,3,7,8-PeCDD	50	49	35.0	71.0	97	
1,2,3,4,7,8-HxCDF	50	47	36.0	67.0	94	
1,2,3,6,7,8-HxCDF	50	51	42.0	65.0	101	
2,3,4,6,7,8-HxCDF	50	50	35.0	78.0	100	
1,2,3,7,8,9-HxCDF	50	48	39.0	65.0	96	
1,2,3,4,7,8-HxCDD	50	51	35.0	82.0	101	
1,2,3,6,7,8-HxCDD	50	46	38.0	67.0	92	
1,2,3,7,8,9-HxCDD	50	48	32.0	81.0	95	
1,2,3,4,6,7,8-HpCDF	50	42	41.0	61.0	83	
1,2,3,4,7,8,9-HpCDF	50	46	39.0	69.0	92	
1,2,3,4,6,7,8-HpCDD	50	39	35.0	70.0	77	
OCDF	100	69	63.0	170.0	69	
OCDD	100	76	78.0	144.0	76	R
2,3,7,8-TCDD-37Cl4	10	10	3.1	19.1	102	
2,3,7,8-TCDF-13C	100	77	22.0	152.0	77	
2,3,7,8-TCDD-13C	100	78	20.0	175.0	78	
1,2,3,7,8-PeCDF-13C	100	82	21.0	192.0	82	
2,3,4,7,8-PeCDF-13C	100	80	13.0	328.0	80	
1,2,3,7,8-PeCDD-13C	100	92	21.0	227.0	92	
1,2,3,4,7,8-HxCDF-13C	100	83	19.0	202.0	83	
1,2,3,6,7,8-HxCDF-13C	100	35	21.0	159.0	35	
2,3,4,6,7,8-HxCDF-13C	100	75	22.0	176.0	75	
1,2,3,7,8,9-HxCDF-13C	100	76	17.0	205.0	76	
1,2,3,4,7,8-HxCDD-13C	100	83	21.0	193.0	83	
1,2,3,6,7,8-HxCDD-13C	100	91	25.0	163.0	91	
1,2,3,4,6,7,8-HpCDF-13C	100	71	21.0	158.0	71	
1,2,3,4,7,8,9-HpCDF-13C	100	47	20.0	186.0	47	
1,2,3,4,6,7,8-HpCDD-13C	100	79	26.0	166.0	79	
OCDD-13C	200	100	26.0	397.0	50	

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCSD-97976		
Filename	U220413B_15	Matrix	Water
Total Amount Extracted	1000 mL	Dilution	NA
ICAL ID	U220123	Extracted	04/08/2022 14:50
CCal Filename	U220413B_01	Analyzed	04/14/2022 06:51
Method Blank ID	BLANK-97974	Injected By	SMT

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.	
2,3,7,8-TCDF	10	9.9	7.5	15.8	99	
2,3,7,8-TCDD	10	11	6.7	15.8	109	
1,2,3,7,8-PeCDF	50	47	40.0	67.0	94	
2,3,4,7,8-PeCDF	50	46	34.0	80.0	92	
1,2,3,7,8-PeCDD	50	46	35.0	71.0	92	
1,2,3,4,7,8-HxCDF	50	46	36.0	67.0	91	
1,2,3,6,7,8-HxCDF	50	49	42.0	65.0	97	
2,3,4,6,7,8-HxCDF	50	47	35.0	78.0	94	
1,2,3,7,8,9-HxCDF	50	46	39.0	65.0	92	
1,2,3,4,7,8-HxCDD	50	45	35.0	82.0	91	
1,2,3,6,7,8-HxCDD	50	50	38.0	67.0	99	
1,2,3,7,8,9-HxCDD	50	47	32.0	81.0	94	
1,2,3,4,6,7,8-HpCDF	50	43	41.0	61.0	86	
1,2,3,4,7,8,9-HpCDF	50	44	39.0	69.0	88	
1,2,3,4,6,7,8-HpCDD	50	39	35.0	70.0	79	
OCDF	100	67	63.0	170.0	67	
OCDD	100	76	78.0	144.0	76	R
2,3,7,8-TCDD-37Cl4	10	11	3.1	19.1	107	
2,3,7,8-TCDF-13C	100	81	22.0	152.0	81	
2,3,7,8-TCDD-13C	100	83	20.0	175.0	83	
1,2,3,7,8-PeCDF-13C	100	81	21.0	192.0	81	
2,3,4,7,8-PeCDF-13C	100	84	13.0	328.0	84	
1,2,3,7,8-PeCDD-13C	100	97	21.0	227.0	97	
1,2,3,4,7,8-HxCDF-13C	100	91	19.0	202.0	91	
1,2,3,6,7,8-HxCDF-13C	100	36	21.0	159.0	36	
2,3,4,6,7,8-HxCDF-13C	100	84	22.0	176.0	84	
1,2,3,7,8,9-HxCDF-13C	100	85	17.0	205.0	85	
1,2,3,4,7,8-HxCDD-13C	100	98	21.0	193.0	98	
1,2,3,6,7,8-HxCDD-13C	100	90	25.0	163.0	90	
1,2,3,4,6,7,8-HpCDF-13C	100	74	21.0	158.0	74	
1,2,3,4,7,8,9-HpCDF-13C	100	53	20.0	186.0	53	
1,2,3,4,6,7,8-HpCDD-13C	100	87	26.0	166.0	87	
OCDD-13C	200	110	26.0	397.0	54	

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B

Spike Recovery Relative Percent Difference (RPD) Results

Client	Pace Analytical National		
Spike 1 ID	LCS-97975	Spike 2 ID	LCSD-97976
Spike 1 Filename	U220413B_14	Spike 2 Filename	U220413B_15

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	107	99	7.8
2,3,7,8-TCDD	118	109	7.9
1,2,3,7,8-PeCDF	94	94	0.0
2,3,4,7,8-PeCDF	97	92	5.3
1,2,3,7,8-PeCDD	97	92	5.3
1,2,3,4,7,8-HxCDF	94	91	3.2
1,2,3,6,7,8-HxCDF	101	97	4.0
2,3,4,6,7,8-HxCDF	100	94	6.2
1,2,3,7,8,9-HxCDF	96	92	4.3
1,2,3,4,7,8-HxCDD	101	91	10.4
1,2,3,6,7,8-HxCDD	92	99	7.3
1,2,3,7,8,9-HxCDD	95	94	1.1
1,2,3,4,6,7,8-HpCDF	83	86	3.6
1,2,3,4,7,8,9-HpCDF	92	88	4.4
1,2,3,4,6,7,8-HpCDD	77	79	2.6
OCDF	69	67	2.9
OCDD	76	76	0.0

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

ANALYTICAL REPORT

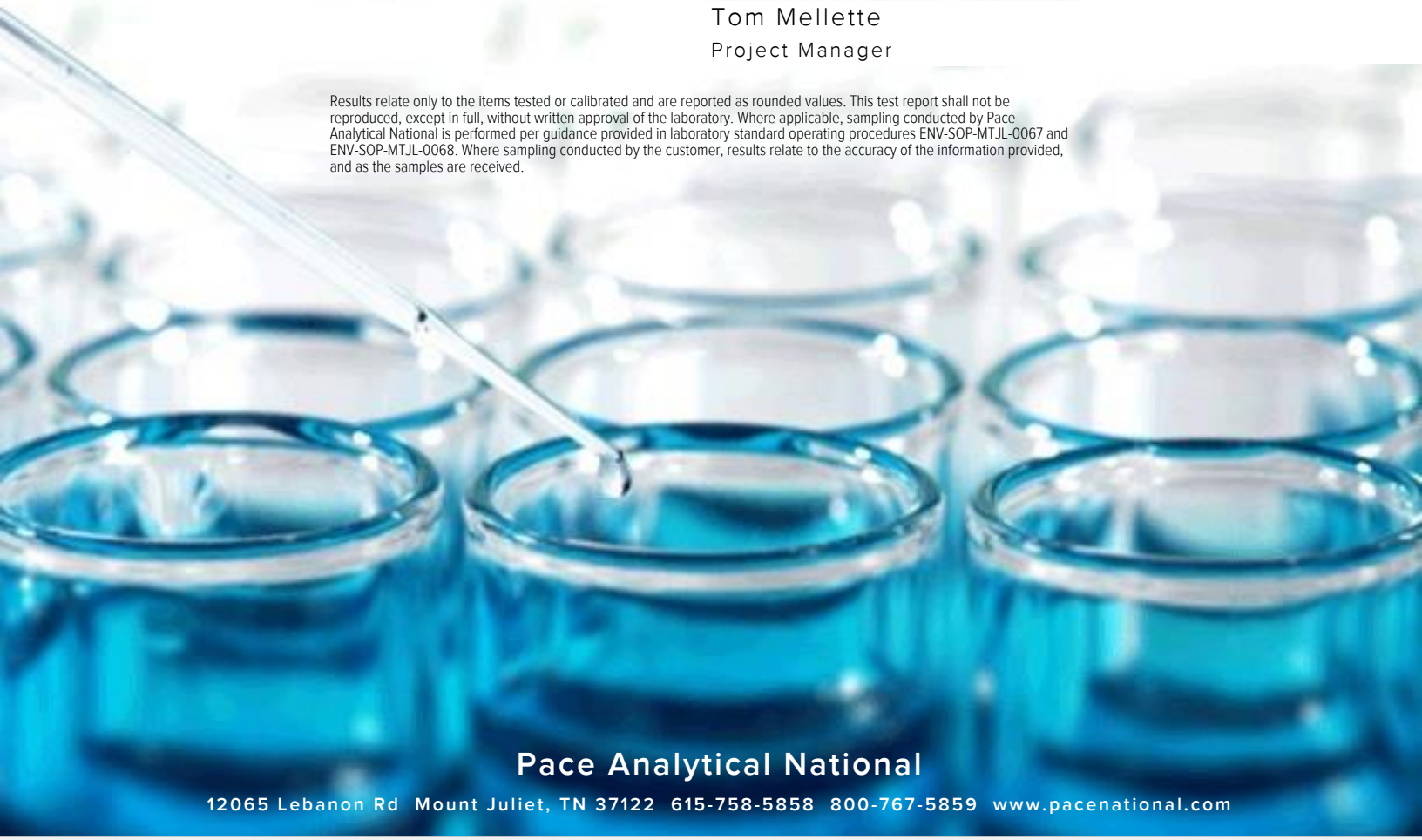
April 08, 2022

S&ME Inc. - Spartanburg SC

Sample Delivery Group:	L1479361
Samples Received:	04/07/2022
Project Number:	4213-18-087
Description:	New Indy - Catawba
Report To:	R. Bonds / S. Dacus / S. Lummus
	301 Zima Park Drive
	Spartanburg, SC 29301

Entire Report Reviewed By:

Tom Mellette
Project Manager



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

TABLE OF CONTENTS

R16-MW-1A L1479361-01 GW

Collected by: Scott Davis | Collected date/time: 04/05/22 10:46 | Received date/time: 04/07/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1845079	1	04/08/22 05:39	04/08/22 05:39	ADM	Mt. Juliet, TN

R18-MW-2 L1479361-02 GW

Collected by: Scott Davis | Collected date/time: 04/05/22 11:36 | Received date/time: 04/07/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1845079	50	04/08/22 08:22	04/08/22 08:22	ADM	Mt. Juliet, TN

R19-MW-2A L1479361-03 GW

Collected by: Scott Davis | Collected date/time: 04/05/22 11:45 | Received date/time: 04/07/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1845079	1	04/08/22 05:59	04/08/22 05:59	ADM	Mt. Juliet, TN

R6-MW-1 L1479361-04 GW

Collected by: Scott Davis | Collected date/time: 04/05/22 09:57 | Received date/time: 04/07/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1845079	1	04/08/22 06:19	04/08/22 06:19	ADM	Mt. Juliet, TN

GW-9 L1479361-05 GW

Collected by: Scott Davis | Collected date/time: 04/05/22 10:11 | Received date/time: 04/07/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1845079	1	04/08/22 06:40	04/08/22 06:40	ADM	Mt. Juliet, TN

R1-MW-2 L1479361-06 GW

Collected by: Scott Davis | Collected date/time: 04/05/22 10:49 | Received date/time: 04/07/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1845079	1	04/08/22 07:00	04/08/22 07:00	ADM	Mt. Juliet, TN

DUPLICATE-2 L1479361-07 GW

Collected by: Scott Davis | Collected date/time: 04/05/22 00:00 | Received date/time: 04/07/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1845079	1	04/08/22 07:21	04/08/22 07:21	ADM	Mt. Juliet, TN

FIELD BLANK L1479361-08 GW

Collected by: Scott Davis | Collected date/time: 04/05/22 12:00 | Received date/time: 04/07/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1845079	1	04/08/22 03:15	04/08/22 03:15	ADM	Mt. Juliet, TN

EQUIP BLANK L1479361-09 GW

Collected by: Scott Davis
Collected date/time: 04/05/22 12:15
Received date/time: 04/07/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1845079	1	04/08/22 02:55	04/08/22 02:55	ADM	Mt. Juliet, TN

TRIP BLANK L1479361-10 GW

Collected by: Scott Davis
Collected date/time: 04/05/22 00:00
Received date/time: 04/07/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1845079	1	04/08/22 02:35	04/08/22 02:35	ADM	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.

Tom Mellette
Project Manager

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	04/08/2022 05:39	WG1845079
Benzene	ND		1.00	1	04/08/2022 05:39	WG1845079
Bromochloromethane	ND		1.00	1	04/08/2022 05:39	WG1845079
Bromodichloromethane	ND		1.00	1	04/08/2022 05:39	WG1845079
Bromoform	ND		1.00	1	04/08/2022 05:39	WG1845079
Bromomethane	ND	C3	5.00	1	04/08/2022 05:39	WG1845079
Carbon disulfide	ND		1.00	1	04/08/2022 05:39	WG1845079
Carbon tetrachloride	ND		1.00	1	04/08/2022 05:39	WG1845079
Chlorobenzene	ND		1.00	1	04/08/2022 05:39	WG1845079
Chlorodibromomethane	ND		1.00	1	04/08/2022 05:39	WG1845079
Chloroethane	ND		5.00	1	04/08/2022 05:39	WG1845079
Chloroform	ND		5.00	1	04/08/2022 05:39	WG1845079
Chloromethane	ND		2.50	1	04/08/2022 05:39	WG1845079
Cyclohexane	ND		1.00	1	04/08/2022 05:39	WG1845079
1,2-Dibromo-3-Chloropropane	ND		5.00	1	04/08/2022 05:39	WG1845079
1,2-Dibromoethane	ND		1.00	1	04/08/2022 05:39	WG1845079
1,2-Dichlorobenzene	ND		1.00	1	04/08/2022 05:39	WG1845079
1,3-Dichlorobenzene	ND		1.00	1	04/08/2022 05:39	WG1845079
1,4-Dichlorobenzene	ND		1.00	1	04/08/2022 05:39	WG1845079
Dichlorodifluoromethane	ND	C3	5.00	1	04/08/2022 05:39	WG1845079
1,1-Dichloroethane	12.4		1.00	1	04/08/2022 05:39	WG1845079
1,2-Dichloroethane	ND		1.00	1	04/08/2022 05:39	WG1845079
1,1-Dichloroethene	21.1		1.00	1	04/08/2022 05:39	WG1845079
cis-1,2-Dichloroethene	ND		1.00	1	04/08/2022 05:39	WG1845079
trans-1,2-Dichloroethene	ND		1.00	1	04/08/2022 05:39	WG1845079
1,2-Dichloropropane	ND		1.00	1	04/08/2022 05:39	WG1845079
cis-1,3-Dichloropropene	ND		1.00	1	04/08/2022 05:39	WG1845079
trans-1,3-Dichloropropene	ND		1.00	1	04/08/2022 05:39	WG1845079
Ethylbenzene	ND		1.00	1	04/08/2022 05:39	WG1845079
2-Hexanone	ND		10.0	1	04/08/2022 05:39	WG1845079
Isopropylbenzene	ND		1.00	1	04/08/2022 05:39	WG1845079
2-Butanone (MEK)	ND		10.0	1	04/08/2022 05:39	WG1845079
Methyl Acetate	ND		20.0	1	04/08/2022 05:39	WG1845079
Methyl Cyclohexane	ND		1.00	1	04/08/2022 05:39	WG1845079
Methylene Chloride	ND		5.00	1	04/08/2022 05:39	WG1845079
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	04/08/2022 05:39	WG1845079
Methyl tert-butyl ether	ND		1.00	1	04/08/2022 05:39	WG1845079
Styrene	ND		1.00	1	04/08/2022 05:39	WG1845079
1,1,2,2-Tetrachloroethane	ND		1.00	1	04/08/2022 05:39	WG1845079
Tetrachloroethene	ND		1.00	1	04/08/2022 05:39	WG1845079
Toluene	ND		1.00	1	04/08/2022 05:39	WG1845079
1,2,3-Trichlorobenzene	ND		1.00	1	04/08/2022 05:39	WG1845079
1,2,4-Trichlorobenzene	ND		1.00	1	04/08/2022 05:39	WG1845079
1,1,1-Trichloroethane	ND		1.00	1	04/08/2022 05:39	WG1845079
1,1,2-Trichloroethane	ND		1.00	1	04/08/2022 05:39	WG1845079
Trichloroethene	ND		1.00	1	04/08/2022 05:39	WG1845079
Trichlorofluoromethane	ND		5.00	1	04/08/2022 05:39	WG1845079
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	04/08/2022 05:39	WG1845079
Vinyl chloride	ND	C3	1.00	1	04/08/2022 05:39	WG1845079
Xylenes, Total	ND		3.00	1	04/08/2022 05:39	WG1845079
(S) Toluene-d8	*107*		*80.0-120*		*04/08/2022 05:39*	WG1845079
(S) 4-Bromofluorobenzene	*94.8*		*77.0-126*		*04/08/2022 05:39*	WG1845079
(S) 1,2-Dichloroethane-d4	*95.7*		*70.0-130*		*04/08/2022 05:39*	WG1845079

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		2500	50	04/08/2022 08:22	WG1845079
Benzene	ND		50.0	50	04/08/2022 08:22	WG1845079
Bromochloromethane	ND		50.0	50	04/08/2022 08:22	WG1845079
Bromodichloromethane	ND		50.0	50	04/08/2022 08:22	WG1845079
Bromoform	ND		50.0	50	04/08/2022 08:22	WG1845079
Bromomethane	ND	C3	250	50	04/08/2022 08:22	WG1845079
Carbon disulfide	ND		50.0	50	04/08/2022 08:22	WG1845079
Carbon tetrachloride	ND		50.0	50	04/08/2022 08:22	WG1845079
Chlorobenzene	776		50.0	50	04/08/2022 08:22	WG1845079
Chlorodibromomethane	ND		50.0	50	04/08/2022 08:22	WG1845079
Chloroethane	ND		250	50	04/08/2022 08:22	WG1845079
Chloroform	ND		250	50	04/08/2022 08:22	WG1845079
Chloromethane	ND		125	50	04/08/2022 08:22	WG1845079
Cyclohexane	ND		50.0	50	04/08/2022 08:22	WG1845079
1,2-Dibromo-3-Chloropropane	ND		250	50	04/08/2022 08:22	WG1845079
1,2-Dibromoethane	ND		50.0	50	04/08/2022 08:22	WG1845079
1,2-Dichlorobenzene	1150		50.0	50	04/08/2022 08:22	WG1845079
1,3-Dichlorobenzene	63.6		50.0	50	04/08/2022 08:22	WG1845079
1,4-Dichlorobenzene	179		50.0	50	04/08/2022 08:22	WG1845079
Dichlorodifluoromethane	ND	C3	250	50	04/08/2022 08:22	WG1845079
1,1-Dichloroethane	ND		50.0	50	04/08/2022 08:22	WG1845079
1,2-Dichloroethane	ND		50.0	50	04/08/2022 08:22	WG1845079
1,1-Dichloroethene	ND		50.0	50	04/08/2022 08:22	WG1845079
cis-1,2-Dichloroethene	ND		50.0	50	04/08/2022 08:22	WG1845079
trans-1,2-Dichloroethene	ND		50.0	50	04/08/2022 08:22	WG1845079
1,2-Dichloropropane	ND		50.0	50	04/08/2022 08:22	WG1845079
cis-1,3-Dichloropropene	ND		50.0	50	04/08/2022 08:22	WG1845079
trans-1,3-Dichloropropene	ND		50.0	50	04/08/2022 08:22	WG1845079
Ethylbenzene	ND		50.0	50	04/08/2022 08:22	WG1845079
2-Hexanone	ND		500	50	04/08/2022 08:22	WG1845079
Isopropylbenzene	ND		50.0	50	04/08/2022 08:22	WG1845079
2-Butanone (MEK)	ND		500	50	04/08/2022 08:22	WG1845079
Methyl Acetate	ND		1000	50	04/08/2022 08:22	WG1845079
Methyl Cyclohexane	ND		50.0	50	04/08/2022 08:22	WG1845079
Methylene Chloride	ND		250	50	04/08/2022 08:22	WG1845079
4-Methyl-2-pentanone (MIBK)	ND		500	50	04/08/2022 08:22	WG1845079
Methyl tert-butyl ether	ND		50.0	50	04/08/2022 08:22	WG1845079
Styrene	ND		50.0	50	04/08/2022 08:22	WG1845079
1,1,2,2-Tetrachloroethane	ND		50.0	50	04/08/2022 08:22	WG1845079
Tetrachloroethene	ND		50.0	50	04/08/2022 08:22	WG1845079
Toluene	ND		50.0	50	04/08/2022 08:22	WG1845079
1,2,3-Trichlorobenzene	ND		50.0	50	04/08/2022 08:22	WG1845079
1,2,4-Trichlorobenzene	ND		50.0	50	04/08/2022 08:22	WG1845079
1,1,1-Trichloroethane	ND		50.0	50	04/08/2022 08:22	WG1845079
1,1,2-Trichloroethane	ND		50.0	50	04/08/2022 08:22	WG1845079
Trichloroethene	ND		50.0	50	04/08/2022 08:22	WG1845079
Trichlorofluoromethane	ND		250	50	04/08/2022 08:22	WG1845079
1,1,2-Trichlorotrifluoroethane	ND		50.0	50	04/08/2022 08:22	WG1845079
Vinyl chloride	ND	C3	50.0	50	04/08/2022 08:22	WG1845079
Xylenes, Total	ND		150	50	04/08/2022 08:22	WG1845079
(S) Toluene-d8	*109*		*80.0-120*		*04/08/2022 08:22*	WG1845079
(S) 4-Bromofluorobenzene	*103*		*77.0-126*		*04/08/2022 08:22*	WG1845079
(S) 1,2-Dichloroethane-d4	*98.8*		*70.0-130*		*04/08/2022 08:22*	WG1845079

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	04/08/2022 05:59	WG1845079
Benzene	ND		1.00	1	04/08/2022 05:59	WG1845079
Bromochloromethane	ND		1.00	1	04/08/2022 05:59	WG1845079
Bromodichloromethane	ND		1.00	1	04/08/2022 05:59	WG1845079
Bromoform	ND		1.00	1	04/08/2022 05:59	WG1845079
Bromomethane	ND	C3	5.00	1	04/08/2022 05:59	WG1845079
Carbon disulfide	ND		1.00	1	04/08/2022 05:59	WG1845079
Carbon tetrachloride	ND		1.00	1	04/08/2022 05:59	WG1845079
Chlorobenzene	ND		1.00	1	04/08/2022 05:59	WG1845079
Chlorodibromomethane	ND		1.00	1	04/08/2022 05:59	WG1845079
Chloroethane	ND		5.00	1	04/08/2022 05:59	WG1845079
Chloroform	ND		5.00	1	04/08/2022 05:59	WG1845079
Chloromethane	ND		2.50	1	04/08/2022 05:59	WG1845079
Cyclohexane	ND		1.00	1	04/08/2022 05:59	WG1845079
1,2-Dibromo-3-Chloropropane	ND		5.00	1	04/08/2022 05:59	WG1845079
1,2-Dibromoethane	ND		1.00	1	04/08/2022 05:59	WG1845079
1,2-Dichlorobenzene	ND		1.00	1	04/08/2022 05:59	WG1845079
1,3-Dichlorobenzene	ND		1.00	1	04/08/2022 05:59	WG1845079
1,4-Dichlorobenzene	ND		1.00	1	04/08/2022 05:59	WG1845079
Dichlorodifluoromethane	ND	C3	5.00	1	04/08/2022 05:59	WG1845079
1,1-Dichloroethane	67.5		1.00	1	04/08/2022 05:59	WG1845079
1,2-Dichloroethane	ND		1.00	1	04/08/2022 05:59	WG1845079
1,1-Dichloroethene	76.4		1.00	1	04/08/2022 05:59	WG1845079
cis-1,2-Dichloroethene	ND		1.00	1	04/08/2022 05:59	WG1845079
trans-1,2-Dichloroethene	ND		1.00	1	04/08/2022 05:59	WG1845079
1,2-Dichloropropane	ND		1.00	1	04/08/2022 05:59	WG1845079
cis-1,3-Dichloropropene	ND		1.00	1	04/08/2022 05:59	WG1845079
trans-1,3-Dichloropropene	ND		1.00	1	04/08/2022 05:59	WG1845079
Ethylbenzene	ND		1.00	1	04/08/2022 05:59	WG1845079
2-Hexanone	ND		10.0	1	04/08/2022 05:59	WG1845079
Isopropylbenzene	ND		1.00	1	04/08/2022 05:59	WG1845079
2-Butanone (MEK)	ND		10.0	1	04/08/2022 05:59	WG1845079
Methyl Acetate	ND		20.0	1	04/08/2022 05:59	WG1845079
Methyl Cyclohexane	ND		1.00	1	04/08/2022 05:59	WG1845079
Methylene Chloride	ND		5.00	1	04/08/2022 05:59	WG1845079
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	04/08/2022 05:59	WG1845079
Methyl tert-butyl ether	ND		1.00	1	04/08/2022 05:59	WG1845079
Styrene	ND		1.00	1	04/08/2022 05:59	WG1845079
1,1,2,2-Tetrachloroethane	ND		1.00	1	04/08/2022 05:59	WG1845079
Tetrachloroethene	ND		1.00	1	04/08/2022 05:59	WG1845079
Toluene	ND		1.00	1	04/08/2022 05:59	WG1845079
1,2,3-Trichlorobenzene	ND		1.00	1	04/08/2022 05:59	WG1845079
1,2,4-Trichlorobenzene	ND		1.00	1	04/08/2022 05:59	WG1845079
1,1,1-Trichloroethane	ND		1.00	1	04/08/2022 05:59	WG1845079
1,1,2-Trichloroethane	ND		1.00	1	04/08/2022 05:59	WG1845079
Trichloroethene	ND		1.00	1	04/08/2022 05:59	WG1845079
Trichlorofluoromethane	ND		5.00	1	04/08/2022 05:59	WG1845079
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	04/08/2022 05:59	WG1845079
Vinyl chloride	ND	C3	1.00	1	04/08/2022 05:59	WG1845079
Xylenes, Total	ND		3.00	1	04/08/2022 05:59	WG1845079
(S) Toluene-d8	*110*		*80.0-120*		*04/08/2022 05:59*	WG1845079
(S) 4-Bromofluorobenzene	*95.5*		*77.0-126*		*04/08/2022 05:59*	WG1845079
(S) 1,2-Dichloroethane-d4	*94.4*		*70.0-130*		*04/08/2022 05:59*	WG1845079

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	04/08/2022 06:19	WG1845079
Benzene	4.60		1.00	1	04/08/2022 06:19	WG1845079
Bromochloromethane	ND		1.00	1	04/08/2022 06:19	WG1845079
Bromodichloromethane	ND		1.00	1	04/08/2022 06:19	WG1845079
Bromoform	ND		1.00	1	04/08/2022 06:19	WG1845079
Bromomethane	ND	C3	5.00	1	04/08/2022 06:19	WG1845079
Carbon disulfide	ND		1.00	1	04/08/2022 06:19	WG1845079
Carbon tetrachloride	ND		1.00	1	04/08/2022 06:19	WG1845079
Chlorobenzene	ND		1.00	1	04/08/2022 06:19	WG1845079
Chlorodibromomethane	ND		1.00	1	04/08/2022 06:19	WG1845079
Chloroethane	ND		5.00	1	04/08/2022 06:19	WG1845079
Chloroform	ND		5.00	1	04/08/2022 06:19	WG1845079
Chloromethane	ND		2.50	1	04/08/2022 06:19	WG1845079
Cyclohexane	3.73		1.00	1	04/08/2022 06:19	WG1845079
1,2-Dibromo-3-Chloropropane	ND		5.00	1	04/08/2022 06:19	WG1845079
1,2-Dibromoethane	ND		1.00	1	04/08/2022 06:19	WG1845079
1,2-Dichlorobenzene	ND		1.00	1	04/08/2022 06:19	WG1845079
1,3-Dichlorobenzene	ND		1.00	1	04/08/2022 06:19	WG1845079
1,4-Dichlorobenzene	ND		1.00	1	04/08/2022 06:19	WG1845079
Dichlorodifluoromethane	ND	C3	5.00	1	04/08/2022 06:19	WG1845079
1,1-Dichloroethane	ND		1.00	1	04/08/2022 06:19	WG1845079
1,2-Dichloroethane	ND		1.00	1	04/08/2022 06:19	WG1845079
1,1-Dichloroethene	ND		1.00	1	04/08/2022 06:19	WG1845079
cis-1,2-Dichloroethene	ND		1.00	1	04/08/2022 06:19	WG1845079
trans-1,2-Dichloroethene	ND		1.00	1	04/08/2022 06:19	WG1845079
1,2-Dichloropropane	ND		1.00	1	04/08/2022 06:19	WG1845079
cis-1,3-Dichloropropene	ND		1.00	1	04/08/2022 06:19	WG1845079
trans-1,3-Dichloropropene	ND		1.00	1	04/08/2022 06:19	WG1845079
Ethylbenzene	2.50		1.00	1	04/08/2022 06:19	WG1845079
2-Hexanone	ND		10.0	1	04/08/2022 06:19	WG1845079
Isopropylbenzene	7.81		1.00	1	04/08/2022 06:19	WG1845079
2-Butanone (MEK)	ND		10.0	1	04/08/2022 06:19	WG1845079
Methyl Acetate	ND		20.0	1	04/08/2022 06:19	WG1845079
Methyl Cyclohexane	5.87		1.00	1	04/08/2022 06:19	WG1845079
Methylene Chloride	ND		5.00	1	04/08/2022 06:19	WG1845079
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	04/08/2022 06:19	WG1845079
Methyl tert-butyl ether	11.0		1.00	1	04/08/2022 06:19	WG1845079
Styrene	ND		1.00	1	04/08/2022 06:19	WG1845079
1,1,2,2-Tetrachloroethane	ND		1.00	1	04/08/2022 06:19	WG1845079
Tetrachloroethene	ND		1.00	1	04/08/2022 06:19	WG1845079
Toluene	ND		1.00	1	04/08/2022 06:19	WG1845079
1,2,3-Trichlorobenzene	ND		1.00	1	04/08/2022 06:19	WG1845079
1,2,4-Trichlorobenzene	ND		1.00	1	04/08/2022 06:19	WG1845079
1,1,1-Trichloroethane	ND		1.00	1	04/08/2022 06:19	WG1845079
1,1,2-Trichloroethane	ND		1.00	1	04/08/2022 06:19	WG1845079
Trichloroethene	ND		1.00	1	04/08/2022 06:19	WG1845079
Trichlorofluoromethane	ND		5.00	1	04/08/2022 06:19	WG1845079
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	04/08/2022 06:19	WG1845079
Vinyl chloride	ND	C3	1.00	1	04/08/2022 06:19	WG1845079
Xylenes, Total	ND		3.00	1	04/08/2022 06:19	WG1845079
(S) Toluene-d8	*104*		*80.0-120*		*04/08/2022 06:19*	WG1845079
(S) 4-Bromofluorobenzene	*100*		*77.0-126*		*04/08/2022 06:19*	WG1845079
(S) 1,2-Dichloroethane-d4	*92.9*		*70.0-130*		*04/08/2022 06:19*	WG1845079

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloroform	56.0		5.00	1	04/08/2022 06:40	WG1845079
(S) Toluene-d8	*114*		*80.0-120*		*04/08/2022 06:40*	WG1845079
(S) 4-Bromofluorobenzene	*99.9*		*77.0-126*		*04/08/2022 06:40*	WG1845079
(S) 1,2-Dichloroethane-d4	*94.8*		*70.0-130*		*04/08/2022 06:40*	WG1845079

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Chloroform	20.3		5.00	1	04/08/2022 07:00	WG1845079
(S) Toluene-d8	*111*		*80.0-120*		*04/08/2022 07:00*	WG1845079
(S) 4-Bromofluorobenzene	*101*		*77.0-126*		*04/08/2022 07:00*	WG1845079
(S) 1,2-Dichloroethane-d4	*93.3*		*70.0-130*		*04/08/2022 07:00*	WG1845079

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	04/08/2022 07:21	WG1845079
Benzene	4.73		1.00	1	04/08/2022 07:21	WG1845079
Bromochloromethane	ND		1.00	1	04/08/2022 07:21	WG1845079
Bromodichloromethane	ND		1.00	1	04/08/2022 07:21	WG1845079
Bromoform	ND		1.00	1	04/08/2022 07:21	WG1845079
Bromomethane	ND	C3	5.00	1	04/08/2022 07:21	WG1845079
Carbon disulfide	ND		1.00	1	04/08/2022 07:21	WG1845079
Carbon tetrachloride	ND		1.00	1	04/08/2022 07:21	WG1845079
Chlorobenzene	ND		1.00	1	04/08/2022 07:21	WG1845079
Chlorodibromomethane	ND		1.00	1	04/08/2022 07:21	WG1845079
Chloroethane	ND		5.00	1	04/08/2022 07:21	WG1845079
Chloroform	ND		5.00	1	04/08/2022 07:21	WG1845079
Chloromethane	ND		2.50	1	04/08/2022 07:21	WG1845079
Cyclohexane	3.55		1.00	1	04/08/2022 07:21	WG1845079
1,2-Dibromo-3-Chloropropane	ND		5.00	1	04/08/2022 07:21	WG1845079
1,2-Dibromoethane	ND		1.00	1	04/08/2022 07:21	WG1845079
1,2-Dichlorobenzene	ND		1.00	1	04/08/2022 07:21	WG1845079
1,3-Dichlorobenzene	ND		1.00	1	04/08/2022 07:21	WG1845079
1,4-Dichlorobenzene	ND		1.00	1	04/08/2022 07:21	WG1845079
Dichlorodifluoromethane	ND	C3	5.00	1	04/08/2022 07:21	WG1845079
1,1-Dichloroethane	ND		1.00	1	04/08/2022 07:21	WG1845079
1,2-Dichloroethane	ND		1.00	1	04/08/2022 07:21	WG1845079
1,1-Dichloroethene	ND		1.00	1	04/08/2022 07:21	WG1845079
cis-1,2-Dichloroethene	ND		1.00	1	04/08/2022 07:21	WG1845079
trans-1,2-Dichloroethene	ND		1.00	1	04/08/2022 07:21	WG1845079
1,2-Dichloropropane	ND		1.00	1	04/08/2022 07:21	WG1845079
cis-1,3-Dichloropropene	ND		1.00	1	04/08/2022 07:21	WG1845079
trans-1,3-Dichloropropene	ND		1.00	1	04/08/2022 07:21	WG1845079
Ethylbenzene	3.41		1.00	1	04/08/2022 07:21	WG1845079
2-Hexanone	ND		10.0	1	04/08/2022 07:21	WG1845079
Isopropylbenzene	8.34		1.00	1	04/08/2022 07:21	WG1845079
2-Butanone (MEK)	ND		10.0	1	04/08/2022 07:21	WG1845079
Methyl Acetate	ND		20.0	1	04/08/2022 07:21	WG1845079
Methyl Cyclohexane	5.69		1.00	1	04/08/2022 07:21	WG1845079
Methylene Chloride	ND		5.00	1	04/08/2022 07:21	WG1845079
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	04/08/2022 07:21	WG1845079
Methyl tert-butyl ether	11.0		1.00	1	04/08/2022 07:21	WG1845079
Styrene	ND		1.00	1	04/08/2022 07:21	WG1845079
1,1,2,2-Tetrachloroethane	ND		1.00	1	04/08/2022 07:21	WG1845079
Tetrachloroethene	ND		1.00	1	04/08/2022 07:21	WG1845079
Toluene	ND		1.00	1	04/08/2022 07:21	WG1845079
1,2,3-Trichlorobenzene	ND		1.00	1	04/08/2022 07:21	WG1845079
1,2,4-Trichlorobenzene	ND		1.00	1	04/08/2022 07:21	WG1845079
1,1,1-Trichloroethane	ND		1.00	1	04/08/2022 07:21	WG1845079
1,1,2-Trichloroethane	ND		1.00	1	04/08/2022 07:21	WG1845079
Trichloroethene	ND		1.00	1	04/08/2022 07:21	WG1845079
Trichlorofluoromethane	ND		5.00	1	04/08/2022 07:21	WG1845079
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	04/08/2022 07:21	WG1845079
Vinyl chloride	ND	C3	1.00	1	04/08/2022 07:21	WG1845079
Xylenes, Total	ND		3.00	1	04/08/2022 07:21	WG1845079
(S) Toluene-d8	*111*		*80.0-120*		*04/08/2022 07:21*	WG1845079
(S) 4-Bromofluorobenzene	*104*		*77.0-126*		*04/08/2022 07:21*	WG1845079
(S) 1,2-Dichloroethane-d4	*90.7*		*70.0-130*		*04/08/2022 07:21*	WG1845079

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	04/08/2022 03:15	WG1845079
Benzene	ND		1.00	1	04/08/2022 03:15	WG1845079
Bromochloromethane	ND		1.00	1	04/08/2022 03:15	WG1845079
Bromodichloromethane	ND		1.00	1	04/08/2022 03:15	WG1845079
Bromoform	ND		1.00	1	04/08/2022 03:15	WG1845079
Bromomethane	ND	C3	5.00	1	04/08/2022 03:15	WG1845079
Carbon disulfide	ND		1.00	1	04/08/2022 03:15	WG1845079
Carbon tetrachloride	ND		1.00	1	04/08/2022 03:15	WG1845079
Chlorobenzene	ND		1.00	1	04/08/2022 03:15	WG1845079
Chlorodibromomethane	ND		1.00	1	04/08/2022 03:15	WG1845079
Chloroethane	ND		5.00	1	04/08/2022 03:15	WG1845079
Chloroform	ND		5.00	1	04/08/2022 03:15	WG1845079
Chloromethane	ND		2.50	1	04/08/2022 03:15	WG1845079
Cyclohexane	ND		1.00	1	04/08/2022 03:15	WG1845079
1,2-Dibromo-3-Chloropropane	ND		5.00	1	04/08/2022 03:15	WG1845079
1,2-Dibromoethane	ND		1.00	1	04/08/2022 03:15	WG1845079
1,2-Dichlorobenzene	ND		1.00	1	04/08/2022 03:15	WG1845079
1,3-Dichlorobenzene	ND		1.00	1	04/08/2022 03:15	WG1845079
1,4-Dichlorobenzene	ND		1.00	1	04/08/2022 03:15	WG1845079
Dichlorodifluoromethane	ND	C3	5.00	1	04/08/2022 03:15	WG1845079
1,1-Dichloroethane	ND		1.00	1	04/08/2022 03:15	WG1845079
1,2-Dichloroethane	ND		1.00	1	04/08/2022 03:15	WG1845079
1,1-Dichloroethene	ND		1.00	1	04/08/2022 03:15	WG1845079
cis-1,2-Dichloroethene	ND		1.00	1	04/08/2022 03:15	WG1845079
trans-1,2-Dichloroethene	ND		1.00	1	04/08/2022 03:15	WG1845079
1,2-Dichloropropane	ND		1.00	1	04/08/2022 03:15	WG1845079
cis-1,3-Dichloropropene	ND		1.00	1	04/08/2022 03:15	WG1845079
trans-1,3-Dichloropropene	ND		1.00	1	04/08/2022 03:15	WG1845079
Ethylbenzene	ND		1.00	1	04/08/2022 03:15	WG1845079
2-Hexanone	ND		10.0	1	04/08/2022 03:15	WG1845079
Isopropylbenzene	ND		1.00	1	04/08/2022 03:15	WG1845079
2-Butanone (MEK)	ND		10.0	1	04/08/2022 03:15	WG1845079
Methyl Acetate	ND		20.0	1	04/08/2022 03:15	WG1845079
Methyl Cyclohexane	ND		1.00	1	04/08/2022 03:15	WG1845079
Methylene Chloride	ND		5.00	1	04/08/2022 03:15	WG1845079
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	04/08/2022 03:15	WG1845079
Methyl tert-butyl ether	ND		1.00	1	04/08/2022 03:15	WG1845079
Styrene	ND		1.00	1	04/08/2022 03:15	WG1845079
1,1,2,2-Tetrachloroethane	ND		1.00	1	04/08/2022 03:15	WG1845079
Tetrachloroethene	ND		1.00	1	04/08/2022 03:15	WG1845079
Toluene	ND		1.00	1	04/08/2022 03:15	WG1845079
1,2,3-Trichlorobenzene	ND		1.00	1	04/08/2022 03:15	WG1845079
1,2,4-Trichlorobenzene	ND		1.00	1	04/08/2022 03:15	WG1845079
1,1,1-Trichloroethane	ND		1.00	1	04/08/2022 03:15	WG1845079
1,1,2-Trichloroethane	ND		1.00	1	04/08/2022 03:15	WG1845079
Trichloroethene	ND		1.00	1	04/08/2022 03:15	WG1845079
Trichlorofluoromethane	ND		5.00	1	04/08/2022 03:15	WG1845079
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	04/08/2022 03:15	WG1845079
Vinyl chloride	ND	C3	1.00	1	04/08/2022 03:15	WG1845079
Xylenes, Total	ND		3.00	1	04/08/2022 03:15	WG1845079
(S) Toluene-d8	*112*		*80.0-120*		*04/08/2022 03:15*	WG1845079
(S) 4-Bromofluorobenzene	*101*		*77.0-126*		*04/08/2022 03:15*	WG1845079
(S) 1,2-Dichloroethane-d4	*92.0*		*70.0-130*		*04/08/2022 03:15*	WG1845079

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	04/08/2022 02:55	WG1845079
Benzene	ND		1.00	1	04/08/2022 02:55	WG1845079
Bromochloromethane	ND		1.00	1	04/08/2022 02:55	WG1845079
Bromodichloromethane	ND		1.00	1	04/08/2022 02:55	WG1845079
Bromoform	ND		1.00	1	04/08/2022 02:55	WG1845079
Bromomethane	ND	C3	5.00	1	04/08/2022 02:55	WG1845079
Carbon disulfide	ND		1.00	1	04/08/2022 02:55	WG1845079
Carbon tetrachloride	ND		1.00	1	04/08/2022 02:55	WG1845079
Chlorobenzene	ND		1.00	1	04/08/2022 02:55	WG1845079
Chlorodibromomethane	ND		1.00	1	04/08/2022 02:55	WG1845079
Chloroethane	ND		5.00	1	04/08/2022 02:55	WG1845079
Chloroform	ND		5.00	1	04/08/2022 02:55	WG1845079
Chloromethane	ND		2.50	1	04/08/2022 02:55	WG1845079
Cyclohexane	ND		1.00	1	04/08/2022 02:55	WG1845079
1,2-Dibromo-3-Chloropropane	ND		5.00	1	04/08/2022 02:55	WG1845079
1,2-Dibromoethane	ND		1.00	1	04/08/2022 02:55	WG1845079
1,2-Dichlorobenzene	ND		1.00	1	04/08/2022 02:55	WG1845079
1,3-Dichlorobenzene	ND		1.00	1	04/08/2022 02:55	WG1845079
1,4-Dichlorobenzene	ND		1.00	1	04/08/2022 02:55	WG1845079
Dichlorodifluoromethane	ND	C3	5.00	1	04/08/2022 02:55	WG1845079
1,1-Dichloroethane	ND		1.00	1	04/08/2022 02:55	WG1845079
1,2-Dichloroethane	ND		1.00	1	04/08/2022 02:55	WG1845079
1,1-Dichloroethene	ND		1.00	1	04/08/2022 02:55	WG1845079
cis-1,2-Dichloroethene	ND		1.00	1	04/08/2022 02:55	WG1845079
trans-1,2-Dichloroethene	ND		1.00	1	04/08/2022 02:55	WG1845079
1,2-Dichloropropane	ND		1.00	1	04/08/2022 02:55	WG1845079
cis-1,3-Dichloropropene	ND		1.00	1	04/08/2022 02:55	WG1845079
trans-1,3-Dichloropropene	ND		1.00	1	04/08/2022 02:55	WG1845079
Ethylbenzene	ND		1.00	1	04/08/2022 02:55	WG1845079
2-Hexanone	ND		10.0	1	04/08/2022 02:55	WG1845079
Isopropylbenzene	ND		1.00	1	04/08/2022 02:55	WG1845079
2-Butanone (MEK)	ND		10.0	1	04/08/2022 02:55	WG1845079
Methyl Acetate	ND		20.0	1	04/08/2022 02:55	WG1845079
Methyl Cyclohexane	ND		1.00	1	04/08/2022 02:55	WG1845079
Methylene Chloride	ND		5.00	1	04/08/2022 02:55	WG1845079
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	04/08/2022 02:55	WG1845079
Methyl tert-butyl ether	ND		1.00	1	04/08/2022 02:55	WG1845079
Styrene	ND		1.00	1	04/08/2022 02:55	WG1845079
1,1,2,2-Tetrachloroethane	ND		1.00	1	04/08/2022 02:55	WG1845079
Tetrachloroethene	ND		1.00	1	04/08/2022 02:55	WG1845079
Toluene	ND		1.00	1	04/08/2022 02:55	WG1845079
1,2,3-Trichlorobenzene	ND		1.00	1	04/08/2022 02:55	WG1845079
1,2,4-Trichlorobenzene	ND		1.00	1	04/08/2022 02:55	WG1845079
1,1,1-Trichloroethane	ND		1.00	1	04/08/2022 02:55	WG1845079
1,1,2-Trichloroethane	ND		1.00	1	04/08/2022 02:55	WG1845079
Trichloroethene	ND		1.00	1	04/08/2022 02:55	WG1845079
Trichlorofluoromethane	ND		5.00	1	04/08/2022 02:55	WG1845079
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	04/08/2022 02:55	WG1845079
Vinyl chloride	ND	C3	1.00	1	04/08/2022 02:55	WG1845079
Xylenes, Total	ND		3.00	1	04/08/2022 02:55	WG1845079
(S) Toluene-d8	*108*		*80.0-120*		*04/08/2022 02:55*	WG1845079
(S) 4-Bromofluorobenzene	*102*		*77.0-126*		*04/08/2022 02:55*	WG1845079
(S) 1,2-Dichloroethane-d4	*93.5*		*70.0-130*		*04/08/2022 02:55*	WG1845079

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	04/08/2022 02:35	WG1845079
Benzene	ND		1.00	1	04/08/2022 02:35	WG1845079
Bromochloromethane	ND		1.00	1	04/08/2022 02:35	WG1845079
Bromodichloromethane	ND		1.00	1	04/08/2022 02:35	WG1845079
Bromoform	ND		1.00	1	04/08/2022 02:35	WG1845079
Bromomethane	ND	C3	5.00	1	04/08/2022 02:35	WG1845079
Carbon disulfide	ND		1.00	1	04/08/2022 02:35	WG1845079
Carbon tetrachloride	ND		1.00	1	04/08/2022 02:35	WG1845079
Chlorobenzene	ND		1.00	1	04/08/2022 02:35	WG1845079
Chlorodibromomethane	ND		1.00	1	04/08/2022 02:35	WG1845079
Chloroethane	ND		5.00	1	04/08/2022 02:35	WG1845079
Chloroform	ND		5.00	1	04/08/2022 02:35	WG1845079
Chloromethane	ND		2.50	1	04/08/2022 02:35	WG1845079
Cyclohexane	ND		1.00	1	04/08/2022 02:35	WG1845079
1,2-Dibromo-3-Chloropropane	ND		5.00	1	04/08/2022 02:35	WG1845079
1,2-Dibromoethane	ND		1.00	1	04/08/2022 02:35	WG1845079
1,2-Dichlorobenzene	ND		1.00	1	04/08/2022 02:35	WG1845079
1,3-Dichlorobenzene	ND		1.00	1	04/08/2022 02:35	WG1845079
1,4-Dichlorobenzene	ND		1.00	1	04/08/2022 02:35	WG1845079
Dichlorodifluoromethane	ND	C3	5.00	1	04/08/2022 02:35	WG1845079
1,1-Dichloroethane	ND		1.00	1	04/08/2022 02:35	WG1845079
1,2-Dichloroethane	ND		1.00	1	04/08/2022 02:35	WG1845079
1,1-Dichloroethene	ND		1.00	1	04/08/2022 02:35	WG1845079
cis-1,2-Dichloroethene	ND		1.00	1	04/08/2022 02:35	WG1845079
trans-1,2-Dichloroethene	ND		1.00	1	04/08/2022 02:35	WG1845079
1,2-Dichloropropane	ND		1.00	1	04/08/2022 02:35	WG1845079
cis-1,3-Dichloropropene	ND		1.00	1	04/08/2022 02:35	WG1845079
trans-1,3-Dichloropropene	ND		1.00	1	04/08/2022 02:35	WG1845079
Ethylbenzene	ND		1.00	1	04/08/2022 02:35	WG1845079
2-Hexanone	ND		10.0	1	04/08/2022 02:35	WG1845079
Isopropylbenzene	ND		1.00	1	04/08/2022 02:35	WG1845079
2-Butanone (MEK)	ND		10.0	1	04/08/2022 02:35	WG1845079
Methyl Acetate	ND		20.0	1	04/08/2022 02:35	WG1845079
Methyl Cyclohexane	ND		1.00	1	04/08/2022 02:35	WG1845079
Methylene Chloride	ND		5.00	1	04/08/2022 02:35	WG1845079
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	04/08/2022 02:35	WG1845079
Methyl tert-butyl ether	ND		1.00	1	04/08/2022 02:35	WG1845079
Styrene	ND		1.00	1	04/08/2022 02:35	WG1845079
1,1,2,2-Tetrachloroethane	ND		1.00	1	04/08/2022 02:35	WG1845079
Tetrachloroethene	ND		1.00	1	04/08/2022 02:35	WG1845079
Toluene	ND		1.00	1	04/08/2022 02:35	WG1845079
1,2,3-Trichlorobenzene	ND		1.00	1	04/08/2022 02:35	WG1845079
1,2,4-Trichlorobenzene	ND		1.00	1	04/08/2022 02:35	WG1845079
1,1,1-Trichloroethane	ND		1.00	1	04/08/2022 02:35	WG1845079
1,1,2-Trichloroethane	ND		1.00	1	04/08/2022 02:35	WG1845079
Trichloroethene	ND		1.00	1	04/08/2022 02:35	WG1845079
Trichlorofluoromethane	ND		5.00	1	04/08/2022 02:35	WG1845079
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	04/08/2022 02:35	WG1845079
Vinyl chloride	ND	C3	1.00	1	04/08/2022 02:35	WG1845079
Xylenes, Total	ND		3.00	1	04/08/2022 02:35	WG1845079
(S) Toluene-d8	*107*		*80.0-120*		*04/08/2022 02:35*	WG1845079
(S) 4-Bromofluorobenzene	*97.7*		*77.0-126*		*04/08/2022 02:35*	WG1845079
(S) 1,2-Dichloroethane-d4	*94.4*		*70.0-130*		*04/08/2022 02:35*	WG1845079

Method Blank (MB)

(MB) R3778953-2 04/08/22 01:53

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Benzene	U		0.0941	1.00
Bromochloromethane	U		0.128	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
Carbon disulfide	U		0.0962	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
Cyclohexane	U		0.188	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	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
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
Ethylbenzene	U		0.137	1.00
2-Hexanone	U		0.787	10.0
Isopropylbenzene	U		0.105	1.00
2-Butanone (MEK)	U		1.19	10.0
Methyl Acetate	U		1.29	20.0
Methyl Cyclohexane	U		0.660	1.00
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
Styrene	U		0.118	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
Tetrachloroethene	U		0.300	1.00

Method Blank (MB)

(MB) R3778953-2 04/08/22 01:53

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Toluene	U		0.278	1.00
1,2,3-Trichlorobenzene	0.512	J	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
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	*112*			*80.0-120*
(S) 4-Bromofluorobenzene	*102*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*91.8*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3778953-1 04/08/22 01:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	26.0	104	70.0-130	
Benzene	5.00	4.74	94.8	70.0-130	
Bromochloromethane	5.00	4.91	98.2	70.0-130	
Bromodichloromethane	5.00	4.56	91.2	70.0-130	
Bromoform	5.00	4.93	98.6	70.0-130	
Bromomethane	5.00	3.99	79.8	70.0-130	
Carbon disulfide	5.00	4.39	87.8	70.0-130	
Carbon tetrachloride	5.00	4.56	91.2	70.0-130	
Chlorobenzene	5.00	5.35	107	70.0-130	
Chlorodibromomethane	5.00	4.73	94.6	70.0-130	
Chloroethane	5.00	3.83	76.6	70.0-130	
Chloroform	5.00	4.64	92.8	70.0-130	
Chloromethane	5.00	4.68	93.6	70.0-130	
Cyclohexane	5.00	4.61	92.2	71.0-124	
1,2-Dibromo-3-Chloropropane	5.00	5.65	113	70.0-130	
1,2-Dibromoethane	5.00	5.25	105	70.0-130	
1,2-Dichlorobenzene	5.00	5.25	105	70.0-130	
1,3-Dichlorobenzene	5.00	4.63	92.6	70.0-130	
1,4-Dichlorobenzene	5.00	5.08	102	70.0-130	
Dichlorodifluoromethane	5.00	3.53	70.6	70.0-130	

Laboratory Control Sample (LCS)

(LCS) R3778953-1 04/08/22 01:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,1-Dichloroethane	5.00	4.54	90.8	70.0-130	
1,2-Dichloroethane	5.00	4.62	92.4	70.0-130	
1,1-Dichloroethene	5.00	4.38	87.6	70.0-130	
cis-1,2-Dichloroethene	5.00	4.94	98.8	70.0-130	
trans-1,2-Dichloroethene	5.00	5.23	105	70.0-130	
1,2-Dichloropropane	5.00	4.85	97.0	70.0-130	
cis-1,3-Dichloropropene	5.00	4.19	83.8	70.0-130	
trans-1,3-Dichloropropene	5.00	5.02	100	70.0-130	
Ethylbenzene	5.00	5.19	104	70.0-130	
2-Hexanone	25.0	26.6	106	70.0-130	
Isopropylbenzene	5.00	4.57	91.4	70.0-130	
2-Butanone (MEK)	25.0	26.4	106	70.0-130	
Methyl Acetate	25.0	27.7	111	57.0-148	
Methyl Cyclohexane	5.00	4.53	90.6	68.0-126	
Methylene Chloride	5.00	5.03	101	70.0-130	
4-Methyl-2-pentanone (MIBK)	25.0	27.7	111	70.0-130	
Methyl tert-butyl ether	5.00	4.77	95.4	70.0-130	
Styrene	5.00	4.61	92.2	70.0-130	
1,1,2,2-Tetrachloroethane	5.00	5.20	104	70.0-130	
Tetrachloroethene	5.00	5.76	115	70.0-130	
Toluene	5.00	5.05	101	70.0-130	
1,2,3-Trichlorobenzene	5.00	4.75	95.0	70.0-130	
1,2,4-Trichlorobenzene	5.00	4.67	93.4	70.0-130	
1,1,1-Trichloroethane	5.00	4.28	85.6	70.0-130	
1,1,2-Trichloroethane	5.00	5.02	100	70.0-130	
Trichloroethene	5.00	4.60	92.0	70.0-130	
Trichlorofluoromethane	5.00	4.04	80.8	70.0-130	
1,1,2-Trichlorotrifluoroethane	5.00	4.63	92.6	70.0-130	
Vinyl chloride	5.00	3.51	70.2	70.0-130	
Xylenes, Total	15.0	15.5	103	70.0-130	
(S) Toluene-d8			*108*	*80.0-120*	
(S) 4-Bromofluorobenzene			*102*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*93.7*	*70.0-130*	

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

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

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
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.
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.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

Company Name/Address:
S&ME Inc. - Spartanburg SC

301 Zima Park Drive
Spartanburg, SC 29301

Billing Information:
Scott Dacus
301 Zima Park Drive
Spartanburg, SC 29301

Pres Chk

Report to:
Richard Bonds

Email To:
rbonds@smeinc.com;SDacus@smeinc.com

Project Description:
New Indy - Catawba

City/State Collected: SC

Please Circle: PT MT CT ET

Phone: **864-574-2360**

Client Project #
4213-18-087

Lab Project #
SMESPAR-4213-18-087

Collected by (print):
SCOTT DACUS

Site/Facility ID #

P.O. #
4213-18-087

Collected by (signature):
S.H Dacus

Immediately Packed on Ice N ___ Y ✓

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

Date Results Needed

Quote #

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

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

SDG # L479361

Tab G217

Acctnum: **SMESPAR**
Template: **T206235**
Prelogin: **P914687**
PM: 690 - Tom Mellette
PB: 3/5/22 JTD
Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260SC - Chloroform 40mlAmb-NoPres	V8260TCLSC 40mlAmb-NoPres								Remarks	Sample # (lab only)
R16-MW-1A	GRAB	GW		4/5/22	1046	3		✓									01
R18-MW-2	GRAB	GW		4/5/22	1136	3		✓									02
R19-MW-2A	GRAB	GW		4/5/22	1145	3		✓									03
R6-MW-1	GRAB	GW		4/5/22	0957	3		✓									04
GW-9	GRAB	GW		4/4/22	1011	3	✓										05
R1-MW-2	GRAB	GW		4/5/22	1049	3	✓										06
DUPLICATE-2	GRAB	GW				3		✓									07
FIELD BLANK	GRAB	GW		4/5/22	1200	3		✓									08
EQUIP BLANK	GRAB	GW		4/5/22	1215	3		✓									09
TRIP BLANK		GW				1		✓									10

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 5719 6174 7309

Sample Receipt Checklist

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
S.H Dacus	4/5/22	1700		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.3+0.3=2.6 Bottles Received: 27	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4/6/22 Time: 0900	Hold: / Condition: NCF / OK

LOW FLOW
SAMPLE COLLECTION
SUMMARY SHEET

General
1. Job Name: Project Columbia - Catawba Plant Area
2. Project No.: 4213-18-087
3. Sampled By: L. Lowery
4. Weather: Sunny / Mild
5. Location: Catawba, S.C.
6. Well #: R16-MW-1A

Water Level Information:
1. Date: 4/5/2022 2. Time: 1020 3. Static WL: 5.52 Ft. Below MP
4. Description of Measuring Point (MP): Top of Casing
5. Height of MP above/below Land Surface: 3" below
6. Method of Water Level Measurement: Electric Water Level Tape

Evacuation Procedure:
1. Date: 4/5/2022 2. Time Evac Started: 1030 3. Time Evac. Finished: 1045
4. Method of Evacuation: Low Flow Pump 5. Tot. Depth: 15.00 Ft. Below M. P.
6. Casing Diameter (in.): 2 7. Height of water Column (Ft.): 9.48
8. Decon Procedure: Alconox/DI

Meter Callibration:
Meter S/N: 12K 100753
Buffer pH 7.00: 6.91 Actual Buffer pH 4.01: 4.02 Actual Buffer Check: 10.03 Actual 10.01 Cond. 1000: 1006 Actual
Buffer Lot #: CC728020 Buffer Lot #: CC724299 Buffer Lot #: CC717131

Record of Well Development:

Time	1035	1040	1045			
Water Temp (C)	19	19	19			
pH (Standard Units)	5.47	5.47	5.41			
Spec. Cond. (umhos)	149	151	151			
Turbidity (NTU)	8	6	5			
Odor (subjective)	None	None	None			
Other:						

Time						
Water Temp (C)						
pH (Standard Units)						
Spec. Cond. (umhos)						
Turbidity (NTU)						
Odor (subjective)						
Other:						

Total Volume Purged (gal.): 1/2

Sampling Information
1. Date: 4/5/2022 2. Time: 1046
3. Sample Containers(No./Size/Type): 3/40ml/G
4. Analysis Required: TCL VOCs
5. Samples Preserved: Yes 6. Preservative: Ice
9. Lab Performing Analysis: Pace Analytical

Comments:

LOW FLOW
SAMPLE COLLECTION
SUMMARY SHEET

General
1. Job Name: Project Columbia - Catawba Plant Area
2. Project No.: 4213-18-087
3. Sampled By: L. Lowery
4. Weather: Sunny / Mild
5. Location: Catawba, S.C.
6. Well #: R18-MW-2

Water Level Information:
1. Date: 4/5/2022 2. Time: 1115 3. Static WL: 3.90 Ft. Below MP
4. Description of Measuring Point (MP): Top of Casing
5. Height of MP above/below Land Surface: 3" below
6. Method of Water Level Measurement: Electric Water Level Tape

Evacuation Procedure:
1. Date: 4/5/2022 2. Time Evac Started: 1120 3. Time Evac. Finished: 1135
4. Method of Evacuation: Low Flow Pump 5. Tot. Depth: 13.00 Ft. Below M. P.
6. Casing Diameter (in.): 2 7. Height of water Column (Ft.): 9.10
8. Decon Procedure: Alconox/DI

Meter Callibration:
Meter S/N: 12K 100753
Buffer pH 7.00: 6.91 Actual Buffer pH 4.01: 4.02 Actual Buffer Check: 10.03 Actual 10.01 Cond. 1000: 1006 Actual
Buffer Lot #: CC728020 Buffer Lot #: CC724299 Buffer Lot #: CC717131

Record of Well Development:

Time	1125	1130	1135			
Water Temp (C)	18	18	17			
pH (Standard Units)	6.70	6.77	6.80			
Spec. Cond. (umhos)	390	393	397			
Turbidity (NTU)	8	7	5			
Odor (subjective)	None	None	None			
Other:						

Time						
Water Temp (C)						
pH (Standard Units)						
Spec. Cond. (umhos)						
Turbidity (NTU)						
Odor (subjective)						
Other:						

Total Volume Purged (gal.): 1

Sampling Information
1. Date: 4/5/2022 2. Time: 1136
3. Sample Containers(No./Size/Type): 3/40ml/G
4. Analysis Required: TCL VOCs
5. Samples Preserved: Yes 6. Preservative: Ice
9. Lab Performing Analysis: Pace Analytical

Comments:

LOW FLOW
SAMPLE COLLECTION
SUMMARY SHEET

General
1. Job Name: Project Columbia - Catawba Plant Area
2. Project No.: 4213-18-087
3. Sampled By: S. Dacus
4. Weather: Sunny / Mild
5. Location: Catawba, S.C.
6. Well #: R19-MW-2A

Water Level Information:
1. Date: 4/5/2022 2. Time: 1120 3. Static WL: 4.28 Ft. Below MP
4. Description of Measuring Point (MP): Top of Casing
5. Height of MP above/below Land Surface:
6. Method of Water Level Measurement: Electric Water Level Tape

Evacuation Procedure:
1. Date: 4/5/2022 2. Time Evac Started: 1126 3. Time Evac. Finished: 1141
4. Method of Evacuation: Low Flow Pump 5. Tot. Depth: 15.00 Ft. Below M. P.
6. Casing Diameter (in.): 2 7. Height of water Column (Ft.): 10.72
8. Decon Procedure: Alconox/DI

Meter Callibration:
Meter S/N: 19E 101408
Buffer pH 7.00: 7.04 Actual Buffer pH 4.01: 4.03 Actual Buffer Check: 10.02 Actual 10.01 Cond. 1000: 998 Actual
Buffer Lot #: CC728020 Buffer Lot #: CC724299 Buffer Lot #: CC717131

Record of Well Development:

Time	1131	1136	1141			
Water Temp (C)	28	29	29			
pH (Standard Units)	4.01	4.00	4.03			
Spec. Cond. (umhos)	420	417	414			
Turbidity (NTU)	2	1	2			
Odor (subjective)	None	None	None			
Other:						

Time						
Water Temp (C)						
pH (Standard Units)						
Spec. Cond. (umhos)						
Turbidity (NTU)						
Odor (subjective)						
Other:						

Total Volume Purged (gal.): 1

Sampling Information
1. Date: 4/5/2022 2. Time: 1145
3. Sample Containers(No./Size/Type): 3/40ml/G
4. Analysis Required: TCL VOCs
5. Samples Preserved: Yes 6. Preservative: Ice
9. Lab Performing Analysis: Pace Analytical

Comments:

LOW FLOW
SAMPLE COLLECTION
SUMMARY SHEET

General

1. Job Name: Project Columbia - Catawba Plant Area
2. Project No.: 4213-18-087
3. Sampled By: L. Lowery
4. Weather: Sunny / Mild
5. Location: Catawba, S.C.
6. Well #: R6-MW-1

Water Level Information:

1. Date: 4/5/2022 2. Time: 0907 3. Static WL: 14.11 Ft. Below MP
4. Description of Measuring Point (MP): Top of Casing
5. Height of MP above/below Land Surface:
6. Method of Water Level Measurement: Electric Water Level Tape

Evacuation Procedure:

1. Date: 4/5/2022 2. Time Evac Started: 0940 3. Time Evac. Finished: 0955
4. Method of Evacuation: Low Flow Pump 5. Tot. Depth: 18 Ft. Below M. P.
6. Casing Diameter (in.): 2 7. Height of water Column (Ft.): 3.89
8. Decon Procedure: Alconox/DI

Meter Callibration:

Meter S/N: 12K 100753

Buffer pH 7.00:	6.91	Buffer pH 4.01:	4.02	Buffer Check:	10.03	Cond. 1000:	1006
	Actual		Actual	10.01	Actual		Actual
Buffer Lot #:	CC728020	Buffer Lot #:	CC724299	Buffer Lot #:	CC717131		

Record of Well Development:

Time	0945	0950	0955			
Water Temp (C)	22	22	21			
pH (Standard Units)	7.15	7.15	7.17			
Spec. Cond. (umhos)	716	704	693			
Turbidity (NTU)	20	14	10			
Odor (subjective)	None	None	None			
Other:						

Time						
Water Temp (C)						
pH (Standard Units)						
Spec. Cond. (umhos)						
Turbidity (NTU)						
Odor (subjective)						
Other:						

Total Volume Purged (gal.): 3/4

Sampling Information

1. Date: 4/5/2022 2. Time: 0957
3. Sample Containers(No./Size/Type): 3/40ml/G
4. Analysis Required: TCL VOCs
5. Samples Preserved: Yes 6. Preservative: Ice
9. Lab Performing Analysis: Pace Analytical

Comments: Duplicate 2 collected. Well damaged and needs new vault and pad.

LOW FLOW
SAMPLE COLLECTION
SUMMARY SHEET

General

1. Job Name: Project Columbia - Catawba Plant Area
2. Project No.: 4213-18-087
3. Sampled By: S. Dacus
4. Weather: Sunny / Mild
5. Location: Catawba, S.C.
6. Well #: DF-MW-3

Water Level Information:

1. Date: 4/4/2022 2. Time: 0925 3. Static WL: 22.58 Ft. Below MP
4. Description of Measuring Point (MP): Top of Casing
5. Height of MP above/below Land Surface: 3' above
6. Method of Water Level Measurement: Electric Water Level Tape

Evacuation Procedure:

1. Date: ~~~ 2. Time Evac Started: ~~~ 3. Time Evac. Finished: ~~~
4. Method of Evacuation: Low Flow Pump 5. Tot. Depth: 22.65 Ft. Below M. P.
6. Casing Diameter (in.): 2 7. Height of water Column (Ft.): 0.07
8. Decon Procedure: Alconox/DI

Meter Callibration:

Meter S/N: 19E 101408

Buffer pH 7.00:	7.04	Buffer pH 4.01:	4.03	Buffer Check:	10.02	Cond. 1000: 998
	Actual		Actual	10.01	Actual	Actual
Buffer Lot #:	CC728020	Buffer Lot #:	CC724299	Buffer Lot #:	CC717131	

Record of Well Development:

Time						
Water Temp (C)						
pH (Standard Units)						
Spec. Cond. (umhos)						
Turbidity (NTU)						
Odor (subjective)						
Other:						

Time						
Water Temp (C)						
pH (Standard Units)						
Spec. Cond. (umhos)						
Turbidity (NTU)						
Odor (subjective)						
Other:						

Total Volume Purged (gal.): _____

Sampling Information

1. Date: ~~~ 2. Time: ~~~
3. Sample Containers(No./Size/Type): 2/ 1L amber / glass
4. Analysis Required: Chloroform, Dioxins/Furans
5. Samples Preserved: Yes 6. Preservative: _____
9. Lab Performing Analysis: Pace Analytical

Comments: Not enough water in well to sample.

LOW FLOW
SAMPLE COLLECTION
SUMMARY SHEET

General
1. Job Name: Project Columbia - Catawba Plant Area
2. Project No.: 4213-18-087
3. Sampled By: L. Lowery
4. Weather: Sunny / Mild
5. Location: Catawba, S.C.
6. Well #: GW-9

Water Level Information:
1. Date: 4/4/2022 2. Time: 0940 3. Static WL: 15.63 Ft. Below MP
4. Description of Measuring Point (MP): Top of Casing
5. Height of MP above/below Land Surface:
6. Method of Water Level Measurement: Electric Water Level Tape

Evacuation Procedure:
1. Date: 4/4/2022 2. Time Evac Started: 0955 3. Time Evac. Finished: 1010
4. Method of Evacuation: Low Flow Pump 5. Tot. Depth: 43.60 Ft. Below M. P.
6. Casing Diameter (in.): 2 7. Height of water Column (Ft.): 27.97
8. Decon Procedure: Alconox/DI

Meter Callibration:
Meter S/N: 12K 100753
Buffer pH 7.00: 6.91 Actual Buffer pH 4.01: 4.02 Actual Buffer Check: 10.03 Actual 10.01 Cond. 1000: 1006 Actual
Buffer Lot #: CC728020 Buffer Lot #: CC724299 Buffer Lot #: CC717131

Record of Well Development:

Time	1000	1005	1010			
Water Temp (C)	24	24	24			
pH (Standard Units)	4.82	4.72	4.69			
Spec. Cond. (umhos)	822	822	822			
Turbidity (NTU)	7	6	5			
Odor (subjective)	Slight	Slight	Slight			
Other:						

Time						
Water Temp (C)						
pH (Standard Units)						
Spec. Cond. (umhos)						
Turbidity (NTU)						
Odor (subjective)						
Other:						

Total Volume Purged (gal.): 1

Sampling Information
1. Date: 4/4/2022 2. Time: 1011
3. Sample Containers(No./Size/Type): 3/40ml/G, 2/1L amber /G
4. Analysis Required: Chloroform, Dioxins/Furans
5. Samples Preserved: Yes 6. Preservative: Ice
9. Lab Performing Analysis: Pace Analytical

Comments:

LOW FLOW
SAMPLE COLLECTION
SUMMARY SHEET

General
1. Job Name: Project Columbia - Catawba Plant Area
2. Project No.: 4213-18-087
3. Sampled By: S. Dacus
4. Weather: Sunny / Mild
5. Location: Catawba, S.C.
6. Well #: R1-MW-2

Water Level Information:
1. Date: 4/5/2022 2. Time: 1010 3. Static WL: 15.31 Ft. Below MP
4. Description of Measuring Point (MP): Top of Casing
5. Height of MP above/below Land Surface:
6. Method of Water Level Measurement: Electric Water Level Tape

Evacuation Procedure:
1. Date: 4/8/2022 2. Time Evac Started: 1019 3. Time Evac. Finished: 1034
4. Method of Evacuation: Low Flow Pump 5. Tot. Depth: 20 Ft. Below M. P.
6. Casing Diameter (in.): 2 7. Height of water Column (Ft.): 4.69
8. Decon Procedure: Alconox/DI

Meter Callibration:
Meter S/N: 19E 101408
Buffer pH 7.00: 7.04 Actual Buffer pH 4.01: 4.03 Actual Buffer Check: 10.02 Actual 10.01 Cond. 1000: 998 Actual
Buffer Lot #: CC728020 Buffer Lot #: CC724299 Buffer Lot #: CC717131

Record of Well Development:

Time	1024	1029	1034			
Water Temp (C)	19	19	19			
pH (Standard Units)	3.61	3.81	3.89			
Spec. Cond. (umhos)	3764	3732	3734			
Turbidity (NTU)	711	186	130			
Odor (subjective)	None	None	None			
Other:						

Time						
Water Temp (C)						
pH (Standard Units)						
Spec. Cond. (umhos)						
Turbidity (NTU)						
Odor (subjective)						
Other:						

Total Volume Purged (gal.): 1

Sampling Information
1. Date: 4/5/2022 2. Time: 1049
3. Sample Containers(No./Size/Type): 3/40ml/G
4. Analysis Required: Chloroform
5. Samples Preserved: Yes 6. Preservative: Ice
9. Lab Performing Analysis: Pace Analytical

Comments:

LOW FLOW
SAMPLE COLLECTION
SUMMARY SHEET

General
1. Job Name: Project Columbia - Catawba Plant Area
2. Project No.: 4213-18-087
3. Sampled By: S. Dacus
4. Weather: Sunny / Mild
5. Location: Catawba, S.C.
6. Well #: R4-MW-2

Water Level Information:
1. Date: 4/5/2022 2. Time: 0920 3. Static WL: Dry Ft. Below MP
4. Description of Measuring Point (MP): Top of Casing
5. Height of MP above/below Land Surface: 3" below
6. Method of Water Level Measurement: Electric Water Level Tape

Evacuation Procedure:
1. Date: 2. Time Evac Started: 3. Time Evac. Finished:
4. Method of Evacuation: Low Flow Pump 5. Tot. Depth: 18.00 Ft. Below M. P.
6. Casing Diameter (in.): 2 7. Height of water Column (Ft.):
8. Decon Procedure: Alconox/DI

Meter Callibration:
Meter S/N: 19E 101408
Buffer pH 7.00: 7.04 Actual Buffer pH 4.01: 4.03 Actual Buffer Check: 10.01 10.02 Actual Cond. 1000: 998 Actual
Buffer Lot #: CC728020 Buffer Lot #: CC724299 Buffer Lot #: CC717131

Record of Well Development:

Time						
Water Temp (C)						
pH (Standard Units)						
Spec. Cond. (umhos)						
Turbidity (NTU)						
Odor (subjective)						
Other:						

Time						
Water Temp (C)						
pH (Standard Units)						
Spec. Cond. (umhos)						
Turbidity (NTU)						
Odor (subjective)						
Other:						

Total Volume Purged (gal.):

Sampling Information
1. Date: 2. Time:
3. Sample Containers(No./Size/Type): 3/40ml/G
4. Analysis Required: Chloroform
5. Samples Preserved: Yes 6. Preservative:
9. Lab Performing Analysis: Pace Analytical

Comments: Dry - no sample

LOW FLOW
SAMPLE COLLECTION
SUMMARY SHEET

General
1. Job Name: Project Columbia - Catawba Plant Area
2. Project No.: 4213-18-087
3. Sampled By:
4. Weather: Sunny / Mild
5. Location: Catawba, S.C.
6. Well #: WYLF-MW-3

Water Level Information:
1. Date: 4/4/2022 2. Time: 1200 3. Static WL: 23.67 Ft. Below MP
4. Description of Measuring Point (MP): Top of Casing
5. Height of MP above/below Land Surface: 3' above
6. Method of Water Level Measurement: Electric Water Level Tape

Evacuation Procedure:
1. Date: 4/4/2022 2. Time Evac Started: 1202 3. Time Evac. Finished: 1207
4. Method of Evacuation: New disposable bailer 5. Tot. Depth: 27.81 Ft. Below M. P.
6. Casing Diameter (in.): 2 7. Height of water Column (Ft.): 4.14
8. Decon Procedure: New bailer

Meter Callibration:
Meter S/N: 12K 100753
Buffer pH 7.00: 6.91 Actual Buffer pH 4.01: 4.02 Actual Buffer Check: 10.03 Actual 10.01 Cond. 1000: 1006 Actual
Buffer Lot #: CC728020 Buffer Lot #: CC724299 Buffer Lot #: CC717131

Record of Well Development:

Time	1	2	3			
Water Temp (C)	17	~~~	~~~			
pH (Standard Units)	8.20	~~~	~~~			
Spec. Cond. (umhos)	1715	Dry	Dry			
Turbidity (NTU)	55	~~~	~~~			
Odor (subjective)	None	~~~	~~~			
Other:						

Time						
Water Temp (C)						
pH (Standard Units)						
Spec. Cond. (umhos)						
Turbidity (NTU)						
Odor (subjective)						
Other:						

Total Volume Purged (gal.): 1

Sampling Information
1. Date: 4/4/2022 2. Time: 1420
3. Sample Containers(No./Size/Type): 2/1L amber /G
4. Analysis Required: Dioxins/Furans
5. Samples Preserved: Yes 6. Preservative: Ice
9. Lab Performing Analysis: Pace Analytical

Comments: Used a bailer because well goes dry.

LOW FLOW
SAMPLE COLLECTION
SUMMARY SHEET

General
1. Job Name: Project Columbia - Catawba Plant Area
2. Project No.: 4213-18-087
3. Sampled By:
4. Weather: Sunny / Mild
5. Location: Catawba, S.C.
6. Well #: R29-MW-1

Water Level Information:
1. Date: 4/4/2022 2. Time: 1240 3. Static WL: 19.73 Ft. Below MP
4. Description of Measuring Point (MP): Top of Casing
5. Height of MP above/below Land Surface:
6. Method of Water Level Measurement: Electric Water Level Tape

Evacuation Procedure:
1. Date: 4/4/2022 2. Time Evac Started: 1250 3. Time Evac. Finished: 1355
4. Method of Evacuation: Low Flow Pump 5. Tot. Depth: 28.00 Ft. Below M. P.
6. Casing Diameter (in.): 2 7. Height of water Column (Ft.): 8.27
8. Decon Procedure: Alconox/DI

Meter Callibration:
Meter S/N: 12K 100753
Buffer pH 7.00: 6.91 Actual Buffer pH 4.01: 4.02 Actual Buffer Check: 10.03 Actual 10.01 Cond. 1000: 1006 Actual
Buffer Lot #: CC728020 Buffer Lot #: CC724299 Buffer Lot #: CC717131

Record of Well Development:

Time	1255	1300	1305	1315	1325	1335
Water Temp (C)	19	19	19	19	19	19
pH (Standard Units)	7.48	7.35	7.40	7.37	7.40	7.44
Spec. Cond. (umhos)	3334	3259	3125	3133	3109	3077
Turbidity (NTU)	220	200	385	305	308	310
Odor (subjective)	None	None	None	None	None	None
Other:						

Time	1345	1355				
Water Temp (C)	19	19				
pH (Standard Units)	7.44	7.46				
Spec. Cond. (umhos)	2019	2988				
Turbidity (NTU)	315	315				
Odor (subjective)	None	None				
Other:						

Total Volume Purged (gal.): 2

Sampling Information
1. Date: 4/4/2022 2. Time: 1357
3. Sample Containers(No./Size/Type): 2/1L amber /G
4. Analysis Required: Dioxins/Furans
5. Samples Preserved: Yes 6. Preservative: Ice
9. Lab Performing Analysis: Pace Analytical

Comments: Well would not clear up.

LOW FLOW
SAMPLE COLLECTION
SUMMARY SHEET

General
1. Job Name: Project Columbia - Catawba Plant Area
2. Project No.: 4213-18-087
3. Sampled By:
4. Weather: Sunny / Mild
5. Location: Catawba, S.C.
6. Well #: DF-MW-1

Water Level Information:
1. Date: 4/4/2022 2. Time: 1225 3. Static WL: 37.15 Ft. Below MP
4. Description of Measuring Point (MP): Top of Casing
5. Height of MP above/below Land Surface:
6. Method of Water Level Measurement: Electric Water Level Tape

Evacuation Procedure:
1. Date: 2. Time Evac Started: 3. Time Evac. Finished:
4. Method of Evacuation: Low Flow Pump 5. Tot. Depth: 37.38 Ft. Below M. P.
6. Casing Diameter (in.): 2 7. Height of water Column (Ft.): 0.23
8. Decon Procedure: Alconox/DI

Meter Callibration:
Meter S/N: 12K 100753
Buffer pH 7.00: 6.91 Actual Buffer pH 4.01: 4.02 Actual Buffer Check: 10.03 Actual 10.01 Cond. 1000: 1006 Actual
Buffer Lot #: CC728020 Buffer Lot #: CC724299 Buffer Lot #: CC717131

Record of Well Development:

Time						
Water Temp (C)						
pH (Standard Units)						
Spec. Cond. (umhos)						
Turbidity (NTU)						
Odor (subjective)						
Other:						

Time						
Water Temp (C)						
pH (Standard Units)						
Spec. Cond. (umhos)						
Turbidity (NTU)						
Odor (subjective)						
Other:						

Total Volume Purged (gal.):

Sampling Information
1. Date: 2. Time:
3. Sample Containers(No./Size/Type): 2/ 1L amber / glass
4. Analysis Required: Dioxins/Furans
5. Samples Preserved: Yes 6. Preservative:
9. Lab Performing Analysis: Pace Analytical

Comments: Not enough water to sample.

LOW FLOW
SAMPLE COLLECTION
SUMMARY SHEET

General
1. Job Name: Project Columbia - Catawba Plant Area
2. Project No.: 4213-18-087
3. Sampled By:
4. Weather: Sunny / Mild
5. Location: Catawba, S.C.
6. Well #: DF-MW-2

Water Level Information:
1. Date: 4/4/2022 2. Time: 1032 3. Static WL: 32.79 Ft. Below MP
4. Description of Measuring Point (MP): Top of Casing
5. Height of MP above/below Land Surface:
6. Method of Water Level Measurement: Electric Water Level Tape

Evacuation Procedure:
1. Date: 4/4/2022 2. Time Evac Started: 1145 3. Time Evac. Finished: 1150
4. Method of Evacuation: New disposable bailer 5. Tot. Depth: 39 Ft. Below M. P.
6. Casing Diameter (in.): 2 7. Height of water Column (Ft.): 6.21
8. Decon Procedure: New bailer

Meter Callibration:
Meter S/N: 12K 100753
Buffer pH 7.00: 6.91 Actual Buffer pH 4.01: 4.02 Actual Buffer Check: 10.03 Actual 10.01 Cond. 1000: 1006 Actual
Buffer Lot #: CC728020 Buffer Lot #: CC724299 Buffer Lot #: CC717131

Record of Well Development:

Time	1	2	3			
Water Temp (C)	19	~~~	~~~			
pH (Standard Units)	7.01	~~~	~~~			
Spec. Cond. (umhos)	643	Dry	Dry			
Turbidity (NTU)	>1000	~~~	~~~			
Odor (subjective)	None	~~~	~~~			
Other:						

Time						
Water Temp (C)						
pH (Standard Units)						
Spec. Cond. (umhos)						
Turbidity (NTU)						
Odor (subjective)						
Other:						

Total Volume Purged (gal.): 1

Sampling Information
1. Date: 4/4/2022 2. Time: 1430
3. Sample Containers(No./Size/Type): 2/1L amber /G
4. Analysis Required: Dioxins/Furans
5. Samples Preserved: Yes 6. Preservative: Ice
9. Lab Performing Analysis: Pace Analytical

Comments:

LOW FLOW
SAMPLE COLLECTION
SUMMARY SHEET

General
1. Job Name: Project Columbia - Catawba Plant Area
2. Project No.: 4213-18-087
3. Sampled By:
4. Weather: Sunny / Mild
5. Location: Catawba, S.C.
6. Well #: DF-MW-4

Water Level Information:
1. Date: 4/4/2022 2. Time: 0955 3. Static WL: 19.57 Ft. Below MP
4. Description of Measuring Point (MP): Top of Casing
5. Height of MP above/below Land Surface: 3' above
6. Method of Water Level Measurement: Electric Water Level Tape

Evacuation Procedure:
1. Date: 4/4/2022 2. Time Evac Started: 1000 3. Time Evac. Finished: 1030
4. Method of Evacuation: Low Flow Pump 5. Tot. Depth: 25 Ft. Below M. P.
6. Casing Diameter (in.): 2 7. Height of water Column (Ft.): 5.43
8. Decon Procedure: Alconox/DI

Meter Callibration:
Meter S/N: 19E 101408
Buffer pH 7.00: 7.04 Actual Buffer pH 4.01: 4.03 Actual Buffer Check: 10.02 Actual Cond. 1000: 998 Actual
Buffer Lot #: CC728020 Buffer Lot #: CC724299 10.01 Buffer Lot #: CC717131

Record of Well Development:

Time	1015	1020	1025	1030		
Water Temp (C)	20	20	19	19		
pH (Standard Units)	6.48	6.58	6.61	6.62		
Spec. Cond. (umhos)	1033	1038	1037	1036		
Turbidity (NTU)	221	34	31	9		
Odor (subjective)	None	None	None	None		
Other:						

Time						
Water Temp (C)						
pH (Standard Units)						
Spec. Cond. (umhos)						
Turbidity (NTU)						
Odor (subjective)						
Other:						

Total Volume Purged (gal.): 2

Sampling Information
1. Date: 4/4/2022 2. Time: 1035
3. Sample Containers(No./Size/Type): 2/1L amber /G
4. Analysis Required: Dioxins/Furans
5. Samples Preserved: Yes 6. Preservative: Ice
9. Lab Performing Analysis: Pace Analytical

Comments:

LOW FLOW
SAMPLE COLLECTION
SUMMARY SHEET

General
1. Job Name: Project Columbia - Catawba Plant Area
2. Project No.: 4213-18-087
3. Sampled By:
4. Weather: Sunny / Mild
5. Location: Catawba, S.C.
6. Well #: GW-11

Water Level Information:
1. Date: 4/4/2022 2. Time: 1105 3. Static WL: 15.85 Ft. Below MP
4. Description of Measuring Point (MP): Top of Casing
5. Height of MP above/below Land Surface: 3' above
6. Method of Water Level Measurement: Electric Water Level Tape

Evacuation Procedure:
1. Date: 4/4/2022 2. Time Evac Started: 1110 3. Time Evac. Finished: 1130
4. Method of Evacuation: Low Flow Pump 5. Tot. Depth: 27.25 Ft. Below M. P.
6. Casing Diameter (in.): 2 7. Height of water Column (Ft.): 11.40
8. Decon Procedure: Alconox/DI

Meter Callibration:
Meter S/N: 19E 101408

Buffer pH 7.00:	7.04 Actual	Buffer pH 4.01:	4.03 Actual	Buffer Check:	10.02 Actual	Cond. 1000: 998 Actual
Buffer Lot #:	CC728020	Buffer Lot #:	CC724299	Buffer Lot #:	10.01 CC717131	

Record of Well Development:

Time	1115	1120	1130			
Water Temp (C)	18	18	18			
pH (Standard Units)	5.58	5.54	5.56			
Spec. Cond. (umhos)	119	118	119			
Turbidity (NTU)	8	10	9			
Odor (subjective)	None	None	None			
Other:						

Time						
Water Temp (C)						
pH (Standard Units)						
Spec. Cond. (umhos)						
Turbidity (NTU)						
Odor (subjective)						
Other:						

Total Volume Purged (gal.): 1

Sampling Information
1. Date: 4/4/2022 2. Time: 1135
3. Sample Containers(No./Size/Type): 2/1L amber /G
4. Analysis Required: Dioxins/Furans
5. Samples Preserved: Yes 6. Preservative: Ice
9. Lab Performing Analysis: Pace Analytical

Comments: Collected duplicate: 23/1L amber glass unpreserved. Well went dry, waited to recharge to collect duplicate.

LOW FLOW
SAMPLE COLLECTION
SUMMARY SHEET

General
1. Job Name: Project Columbia - Catawba Plant Area
2. Project No.: 4213-18-087
3. Sampled By:
4. Weather: Sunny / Mild
5. Location: Catawba, S.C.
6. Well #: GW-15R

Water Level Information:
1. Date: 4/4/2022 2. Time: 1440 3. Static WL: 14.53 Ft. Below MP
4. Description of Measuring Point (MP): Top of Casing
5. Height of MP above/below Land Surface:
6. Method of Water Level Measurement: Electric Water Level Tape

Evacuation Procedure:
1. Date: 4/4/2022 2. Time Evac Started: 1450 3. Time Evac. Finished: 1515
4. Method of Evacuation: Low Flow Pump 5. Tot. Depth: 26.75 Ft. Below M. P.
6. Casing Diameter (in.): 2 7. Height of water Column (Ft.): 12.22
8. Decon Procedure: Alconox/DI

Meter Callibration:
Meter S/N: 19E 101408
Buffer pH 7.00: 7.04 Actual Buffer pH 4.01: 4.03 Actual Buffer Check: 10.02 Actual 10.01 Cond. 1000: 998 Actual
Buffer Lot #: CC728020 Buffer Lot #: CC724299 Buffer Lot #: CC717131

Record of Well Development:

Time	1455	1500	1505	1510	1515	
Water Temp (C)	20	20	20	20	20	
pH (Standard Units)	5.18	5.13	5.18	5.16	5.19	
Spec. Cond. (umhos)	1047	1044	1037	1041	1043	
Turbidity (NTU)	45	34	17	12	10	
Odor (subjective)	None	None	None	None	None	
Other:						

Time						
Water Temp (C)						
pH (Standard Units)						
Spec. Cond. (umhos)						
Turbidity (NTU)						
Odor (subjective)						
Other:						

Total Volume Purged (gal.): 1.5

Sampling Information
1. Date: 4/4/2022 2. Time: 1520
3. Sample Containers(No./Size/Type): 2/1L amber /G
4. Analysis Required: Dioxins/Furans
5. Samples Preserved: Yes 6. Preservative: Ice
9. Lab Performing Analysis: Pace Analytical

Comments:

LOW FLOW
SAMPLE COLLECTION
SUMMARY SHEET

General
1. Job Name: Project Columbia - Catawba Plant Area
2. Project No.: 4213-18-087
3. Sampled By:
4. Weather: Sunny / Mild
5. Location: Catawba, S.C.
6. Well #: GW-16

Water Level Information:
1. Date: 4/4/2022 2. Time: 1454 3. Static WL: 8.63 Ft. Below MP
4. Description of Measuring Point (MP): Top of Casing
5. Height of MP above/below Land Surface: 3' above
6. Method of Water Level Measurement: Electric Water Level Tape

Evacuation Procedure:
1. Date: 4/4/2022 2. Time Evac Started: 1500 3. Time Evac. Finished: 1515
4. Method of Evacuation: Low Flow Pump 5. Tot. Depth: 18.22 Ft. Below M. P.
6. Casing Diameter (in.): 2 7. Height of water Column (Ft.): 9.59
8. Decon Procedure: Alconox/DI

Meter Callibration:
Meter S/N: 12K 100753
Buffer pH 7.00: 6.91 Actual Buffer pH 4.01: 4.02 Actual Buffer Check: 10.03 Actual 10.01 Cond. 1000: 1006 Actual
Buffer Lot #: CC728020 Buffer Lot #: CC724299 Buffer Lot #: CC717131

Record of Well Development:

Time	1505	1510	1515			
Water Temp (C)	19	19	19			
pH (Standard Units)	7.18	7.09	7.04			
Spec. Cond. (umhos)	1232	1233	1245			
Turbidity (NTU)	12	8	8			
Odor (subjective)	Slight	Slight	Slight			
Other:						

Time						
Water Temp (C)						
pH (Standard Units)						
Spec. Cond. (umhos)						
Turbidity (NTU)						
Odor (subjective)						
Other:						

Total Volume Purged (gal.): 1

Sampling Information
1. Date: 4/4/2022 2. Time: 1517
3. Sample Containers(No./Size/Type): 2/1L amber /G
4. Analysis Required: Dioxins/Furans
5. Samples Preserved: Yes 6. Preservative: Ice
9. Lab Performing Analysis: Pace Analytical

Comments:

LOW FLOW
SAMPLE COLLECTION
SUMMARY SHEET

General
1. Job Name: Project Columbia - Catawba Plant Area
2. Project No.: 4213-18-087
3. Sampled By:
4. Weather: Sunny / Mild
5. Location: Catawba, S.C.
6. Well #: GW-18

Water Level Information:
1. Date: 4/4/2022 2. Time: 1320 3. Static WL: 12.46 Ft. Below MP
4. Description of Measuring Point (MP): Top of Casing
5. Height of MP above/below Land Surface: 3' above
6. Method of Water Level Measurement: Electric Water Level Tape

Evacuation Procedure:
1. Date: 4/4/2022 2. Time Evac Started: 1325 3. Time Evac. Finished: 1340
4. Method of Evacuation: Low Flow Pump 5. Tot. Depth: 21.85 Ft. Below M. P.
6. Casing Diameter (in.): 2 7. Height of water Column (Ft.): 9.39
8. Decon Procedure: Alconox/DI

Meter Callibration:
Meter S/N: 19E 101408
Buffer pH 7.00: 7.04 Actual Buffer pH 4.01: 4.03 Actual Buffer Check: 10.02 Actual 10.01 Cond. 1000: 998 Actual
Buffer Lot #: CC728020 Buffer Lot #: CC724299 Buffer Lot #: CC717131

Record of Well Development:

Time	1325	1330	1335	1340		
Water Temp (C)	16	16	16	16		
pH (Standard Units)	6.35	6.45	6.45	6.44		
Spec. Cond. (umhos)	605	605	608	609		
Turbidity (NTU)	27	23	11	9		
Odor (subjective)	None	None	None	None		
Other:						

Time						
Water Temp (C)						
pH (Standard Units)						
Spec. Cond. (umhos)						
Turbidity (NTU)						
Odor (subjective)						
Other:						

Total Volume Purged (gal.): 2

Sampling Information
1. Date: 4/4/2022 2. Time: 1345
3. Sample Containers(No./Size/Type): 2/1L amber/G
4. Analysis Required: Dioxins/Furans
5. Samples Preserved: Yes 6. Preservative: Ice
9. Lab Performing Analysis: Pace Analytical

Comments: