

**LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT  
FOR  
HIGHWAY 25 WEST & HULSEY LANE  
ROCKY TOP, TENNESSEE**

Prepared for:

Dotlich Contractors, Inc.  
3025 S Indianapolis Road  
Lebanon, Indiana 46052

Prepared by:



GEOServices, LLC  
2561 Willow Point Way  
Knoxville, Tennessee 37931

October 20, 2023

GEOServices' Project No.: A24109.00537.000



October 20, 2023

Dotlich Contractors, Inc.  
3025 S Indianapolis Road  
Lebanon, Indiana 46052

Attention: Mr. John Dotlich  
[john@dotlichcontractors.com](mailto:john@dotlichcontractors.com)

**Subject: Limited Phase II Environmental Site Assessment**  
Highway 25 West & Hulsey Lane  
Rocky Top, Tennessee  
GEOServices Project No. A24109.00537.000

Dear Mr. Dotlich:

GEOServices has completed Limited Phase II Environmental Site Assessment (ESA) for a portion of the property located at the intersection of Tennessee Highway 25 and Hulsey Lane in Rocky Top, Tennessee. GEOServices completed a Phase I ESA dated September 15, 2023 (Project No. 24-231042) and identified Recognized Environmental Conditions (RECs) for the subject property.

GEOServices appreciates the opportunity to provide you with environmental services for this project. If you have any questions, please contact us at (865) 539-8242.

Respectfully,  
**GEOServices, LLC**

Byron L. Barton, P.G.  
Professional Geologist

Scott Goan, RLS  
Environmental Professional

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## 1.0 INTRODUCTION

GEOServices, LLC (GEOServices) has concluded the scope of work that was identified in the September 20, 2023, proposal (GEOServices Proposal No. 14-23777) for a Limited Phase II ESA for the subject property located at the intersection of Tennessee Highway 25 and Hulsey Lane in Rocky Top, Tennessee. GEOServices understands that the subject property is to be utilized for commercial purposes. A Site Location Map is located in **Appendix A, Figure 1** as well as a complete laboratory report is provided in **Appendix B** of this report.

## 2.0 FIELD ACTIVITIES

On October 3, 2023, GEOServices personnel arrived at the site to conduct the proposed sampling activities. The Limited Phase II ESA scope of work was developed based on findings presented in a Phase I ESA (GEOServices Project No. 24-231042), for potential impacts from historical use of the adjacent property as a former wholesale petroleum distributor/fuel station.

For every aspect of the field activities, measures were taken by personnel to ensure safety and quality of the project. The appropriate personnel protection equipment was donned for necessary activities. Prior to implementing intrusive activities, GEOServices contacted Tennessee One Call (a public utility locator) to locate and mark underground utilities.

## 3.0 SOIL SAMPLING

A track-mounted drilling rig was used to advance a total of four borings on the subject property in an attempt to identify potential impacts that may be present from the adjacent properties historical use. A total of four soil samples were collected for analysis. All soil borings were proposed to be advanced to a depth of 15 feet below existing ground surface (bgs) or refusal which ever occurred first. See **Table 1** for boring depths, sample depths, and additional information identified during drilling. Approximate soil boring sampling locations are presented in **Figure 2** in **Appendix A**.

All soil samples collected were analyzed for EPH, PAHs, Lead, and VOCs. Constituents detected above reportable detection limits are shown in **Table 2**.

The soil generally was comprised of residual clays and highly weathered shale in the majority of the borings. The soil samples were screened in the field with an organic vapor analyzer (OVA) calibrated to identify potential impacts. The collected soil samples were placed in labeled laboratory-supplied, 4-ounce glass

jars with Teflon®-coated lids and delivered to a state certified laboratory for analysis. All samples were stored in a cooler with ice for transport to the laboratory. Proper chain-of-custody procedures were maintained from sample collection until delivery to the laboratory to protect sample integrity. Approximate locations of the sample locations are presented in **Appendix A, Figure 2**. A complete laboratory report is provided in **Appendix B** of this report.

**TABLE 1: TERMINATION, SAMPLE, AND GROUNDWATER DEPTHS**

Project Sample ID	B-1	B-2	B-3	B-4
Refusal Depth	9.3	9.6	7.3	9.6
Sample Depth	9.3	9.6	7.3	9.6
Groundwater Depth	NE	NE	NE	NE

Notes:

- All depth in feet below existing ground surface.
- NE – Not Encountered

#### 4.0 GROUNDWATER SAMPLING

No indications of groundwater were encountered in any of the borings. All of the borings terminated at refusal and were dry at completion of field activities.

#### 5.0 SUMMARY OF SAMPLING RESULTS

The analytical results of the soil samples were compared to the Environmental Protection Agency (EPA) Regional Screening Levels (RSLs) for commercial use utilized by TDEC Division of Remediation to determine the level of impact of the in-place soil. The soil samples' analytical results for detected constituents are shown in **Table 2**. Only detections above laboratory detection limits are shown in all tables for clarity. The completed laboratory results are included in **Appendix B**.

**Table 2: Soil Sampling Results**  
 (Only detections above laboratory detection limits shown for clarity)

Project Sample ID		B-1	B-2	B-3	B-4	EPA RSLs Commercial Soil Screening Levels
Analyte	CAS	Result	Result	Result	Result	
LEAD	7439-92-1	2.82	5.91	4.96	2.72	800
DI-ISOPROPYL ETHER	108-20-3	ND	0.00363	ND	ND	940

Notes:

- All concentrations listed are in milligrams per kilogram (mg/kg).
- ND – Indicates below reportable detection limits.

## 6.0 SUMMARY OF SERVICES AND CONCLUSIONS

### Soil Sampling

GEOServices has completed requested sampling for the subject property. The analytical results for soil samples were compared to the EPA RSLs for commercial use. The soil borings were placed on the subject property in an attempt to identify potential impacts that may be present from the historical use of the adjacent property.

Only Lead (B-1 thru B-4) and Di-Isopropyl Ether (B-2) were found to be above laboratory detection limits. However, none of the lead results were found to be above EPA RSLs for commercial soil screening levels.

### Groundwater Sampling

Groundwater was not encountered in any of the borings.

### Summary

Soil sampling results indicate only lead and di-isopropyl ether were found to be above laboratory detection limits in the sample borings. However, none of the lead or di-isopropyl ether results were found to be above EPA RSLs for commercial structures.

GEOServices does not suggest additional sampling currently and based on the results from the soil sampling. However, if the intended use of the property changes additional sampling may be necessary to determine if the conclusions in this report are applicable to the newly anticipated use of the property.

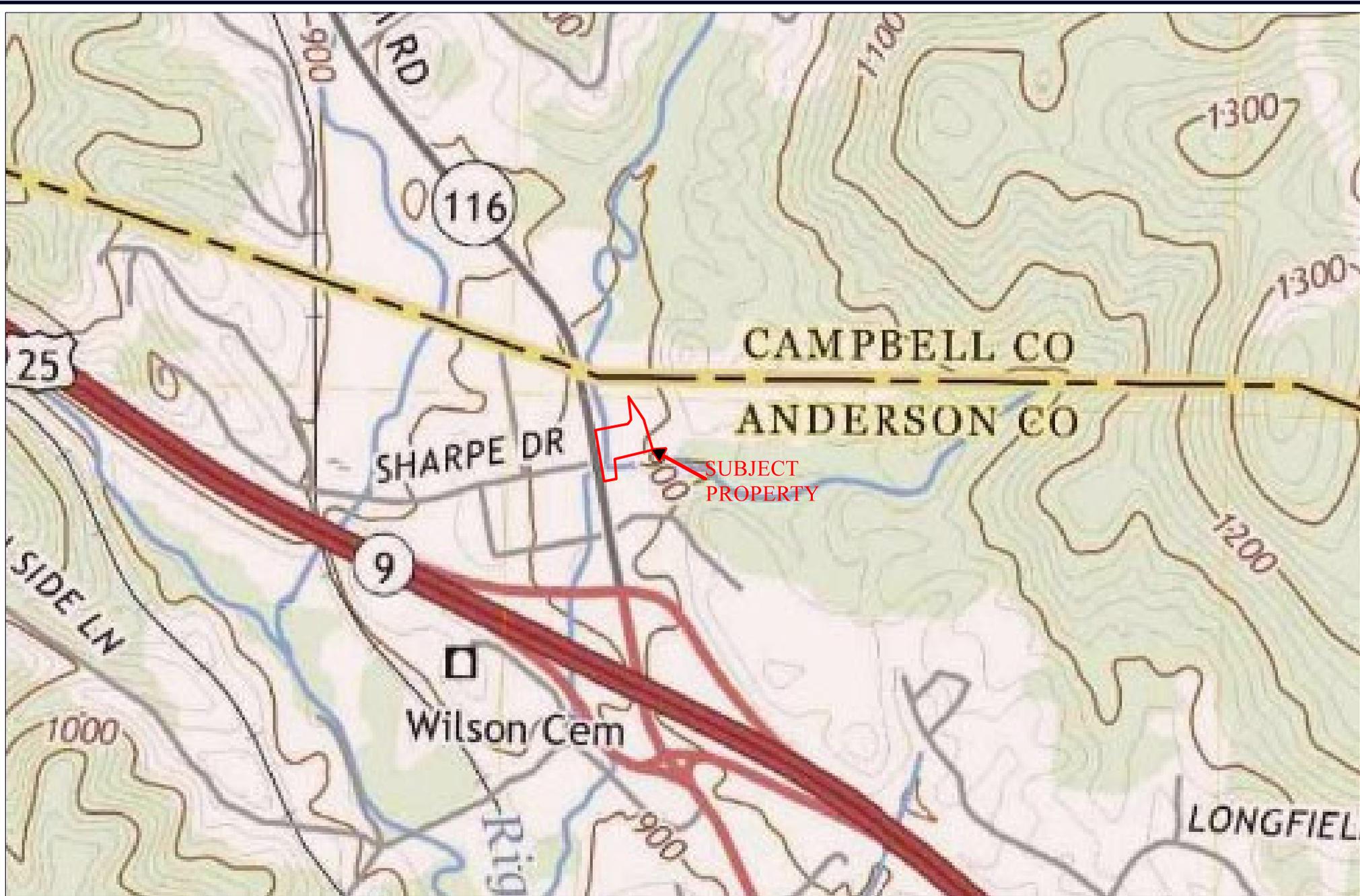
## 7.0 LIMITATIONS

The client must be aware the values utilized for the screening of the collected samples assumes the subject

property will be utilized as commercial. If the intended use is different than stated above, the recommendations presented above do not apply to this type of utilization. The conclusions of this report regarding the conditions of the site will not represent a warranty that all areas within the subject property are of the same quality. Soil and ambient air sampling is restricted by conditions that may include, but are not limited to, complex geological settings, the fate and transport characteristics of certain hazardous substances and petroleum products, the distribution of existing contamination, and physical limitations imposed by the location of utilities and other man-made objects. Sampling, observations, and analysis completed during investigation only represent the subject property conditions at the time of data collection and at the locations that were sampled. GEOServices cannot be responsible for changes in state or federal environmental standards, practices, or regulations after performance of this investigation is completed.

**APPENDIX A**

**FIGURE 1: SITE LOCATION MAP**



Note:  
 Site boundary and features shown are approximate only.  
 Drawing composed from field notes and observations only.

SCALE:	NTS
CHECKED BY:	PD
DRAWN BY:	AS
DATE:	10-17-2023

**GEOS**  
 A UES COMPANY  
 2651 Willow Point Way  
 Knoxville, Tennessee 37931  
 Phone: (865) 539-8242  
 Fax: (865) 539-8252

SITE LOCATION MAP HWY 25W & HULSEY LN PHASE II HWY 25W ROCKY TOP, TENNESSEE	
JOB NO:	24-231321

**FIGURE 2: SOIL SAMPLE LOCATION MAP**



Note:  
 Site boundary and features shown are approximate only.  
 Drawing composed from field notes and observations only.

● Approximate Soil Samplig Locations.  
 — Subject Property.

SCALE:	NTS
CHECKED BY:	BS
DRAWN BY:	AS
DATE:	10-17-2023

**GEOS**  
 A UES COMPANY

2651 Willow Point Way  
 Knoxville, Tennessee 37931

Phone: (865) 539-8242  
 Fax: (865) 539-8252

SAMPLING LOCATION PLAN HWY 25W & HULSEY LN PHASE II HWY 25W ROCKY TOP, TENNESSEE	
JOB NO:	24-231321

**APPENDIX B**

**LABORATORY ANALYTICAL RESULTS**

**Universal Engineering dba GEOServices, L**

Sample Delivery Group: L1662898  
Samples Received: 10/05/2023  
Project Number: 24-231321  
Description: Halsey Ln

Report To: Byron Barton  
2561 Willow Point Way  
Knoxville, TN 37931

Entire Report Reviewed By:



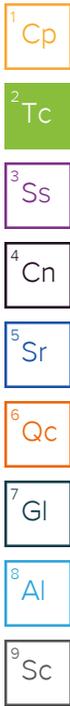
Mark W. Beasley  
Project Manager

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

**Pace Analytical National**12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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# SAMPLE SUMMARY

## B-1 L1662898-01 Solid

Collected by  
Scott Goan

Collected date/time  
10/03/23 10:15

Received date/time  
10/05/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG2146388	1	10/06/23 20:37	10/07/23 15:32	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146574	1	10/06/23 12:00	10/06/23 20:15	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method EPH	WG2149848	1	10/11/23 16:51	10/12/23 10:18	ICD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2148870	1	10/11/23 22:29	10/12/23 17:17	AMM	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## B-2 L1662898-02 Solid

Collected by  
Scott Goan

Collected date/time  
10/03/23 10:30

Received date/time  
10/05/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG2146388	1	10/06/23 20:37	10/07/23 15:35	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146574	1	10/06/23 12:00	10/06/23 20:34	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method EPH	WG2149848	1	10/11/23 16:51	10/12/23 10:34	ICD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2149255	1	10/11/23 16:24	10/12/23 01:37	DSH	Mt. Juliet, TN

## B-3 L1662898-03 Solid

Collected by  
Scott Goan

Collected date/time  
10/03/23 10:45

Received date/time  
10/05/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG2146388	1	10/06/23 20:37	10/07/23 14:20	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146574	1	10/06/23 12:00	10/06/23 20:53	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method EPH	WG2149848	1	10/11/23 16:51	10/12/23 10:51	ICD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2149255	1	10/11/23 16:24	10/12/23 01:55	DSH	Mt. Juliet, TN

## B-4 L1662898-04 Solid

Collected by  
Scott Goan

Collected date/time  
10/03/23 11:00

Received date/time  
10/05/23 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG2146388	1	10/06/23 20:37	10/07/23 14:23	ZSA	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2146574	1	10/06/23 12:00	10/06/23 21:12	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method EPH	WG2149848	1	10/11/23 16:51	10/12/23 11:08	ICD	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2149255	1	10/11/23 16:24	10/12/23 02:13	DSH	Mt. Juliet, TN

# CASE NARRATIVE

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



Mark W. Beasley  
Project Manager



## Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	2.82		0.500	1	10/07/2023 15:32	<a href="#">WG2146388</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0500	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Acrylonitrile	ND		0.0125	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Benzene	ND		0.00100	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Bromobenzene	ND		0.0125	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Bromodichloromethane	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Bromoform	ND		0.0250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Bromomethane	ND		0.0125	1	10/06/2023 20:15	<a href="#">WG2146574</a>
n-Butylbenzene	ND		0.0125	1	10/06/2023 20:15	<a href="#">WG2146574</a>
sec-Butylbenzene	ND		0.0125	1	10/06/2023 20:15	<a href="#">WG2146574</a>
tert-Butylbenzene	ND		0.00500	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Carbon tetrachloride	ND		0.00500	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Chlorobenzene	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Chlorodibromomethane	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Chloroethane	ND		0.00500	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Chloroform	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Chloromethane	ND		0.0125	1	10/06/2023 20:15	<a href="#">WG2146574</a>
2-Chlorotoluene	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
4-Chlorotoluene	ND		0.00500	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,2-Dibromoethane	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Dibromomethane	ND		0.00500	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,2-Dichlorobenzene	ND		0.00500	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,3-Dichlorobenzene	ND		0.00500	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,4-Dichlorobenzene	ND		0.00500	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Dichlorodifluoromethane	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,1-Dichloroethane	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,2-Dichloroethane	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,1-Dichloroethene	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
cis-1,2-Dichloroethene	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
trans-1,2-Dichloroethene	ND		0.00500	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,2-Dichloropropane	ND		0.00500	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,1-Dichloropropene	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,3-Dichloropropane	ND		0.00500	1	10/06/2023 20:15	<a href="#">WG2146574</a>
cis-1,3-Dichloropropene	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
trans-1,3-Dichloropropene	ND		0.00500	1	10/06/2023 20:15	<a href="#">WG2146574</a>
2,2-Dichloropropane	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Di-isopropyl ether	ND		0.00100	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Ethylbenzene	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Hexachloro-1,3-butadiene	ND		0.0250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Isopropylbenzene	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
p-Isopropyltoluene	ND		0.00500	1	10/06/2023 20:15	<a href="#">WG2146574</a>
2-Butanone (MEK)	ND		0.100	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Methylene Chloride	ND		0.0250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Methyl tert-butyl ether	ND		0.00100	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Naphthalene	ND	<a href="#">J4</a>	0.0125	1	10/06/2023 20:15	<a href="#">WG2146574</a>
n-Propylbenzene	ND		0.00500	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Styrene	ND		0.0125	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,1,1,2-Tetrachloroethane	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,1,2,2-Tetrachloroethane	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Tetrachloroethene	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Toluene	ND		0.00500	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,2,3-Trichlorobenzene	ND	<a href="#">J3 J4</a>	0.0125	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,2,4-Trichlorobenzene	ND		0.0125	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,1,1-Trichloroethane	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,1,2-Trichloroethane	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Trichloroethene	ND		0.00100	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Trichlorofluoromethane	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,2,3-Trichloropropane	ND		0.0125	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,2,3-Trimethylbenzene	ND		0.00500	1	10/06/2023 20:15	<a href="#">WG2146574</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Vinyl chloride	ND		0.00250	1	10/06/2023 20:15	<a href="#">WG2146574</a>
Xylenes, Total	ND		0.00650	1	10/06/2023 20:15	<a href="#">WG2146574</a>
(S) Toluene-d8	96.6		75.0-131		10/06/2023 20:15	<a href="#">WG2146574</a>
(S) 4-Bromofluorobenzene	99.5		67.0-138		10/06/2023 20:15	<a href="#">WG2146574</a>
(S) 1,2-Dichloroethane-d4	103		70.0-130		10/06/2023 20:15	<a href="#">WG2146574</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Semi-Volatile Organic Compounds (GC) by Method EPH

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Extractable Petroleum Hydrocarbon	ND		4.00	1	10/12/2023 10:18	<a href="#">WG2149848</a>
(S) o-Terphenyl	64.6		18.0-148		10/12/2023 10:18	<a href="#">WG2149848</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	10/12/2023 17:17	<a href="#">WG2148870</a>
Acenaphthene	ND		0.00600	1	10/12/2023 17:17	<a href="#">WG2148870</a>
Acenaphthylene	ND		0.00600	1	10/12/2023 17:17	<a href="#">WG2148870</a>
Benzo(a)anthracene	ND		0.00600	1	10/12/2023 17:17	<a href="#">WG2148870</a>
Benzo(a)pyrene	ND		0.00600	1	10/12/2023 17:17	<a href="#">WG2148870</a>
Benzo(b)fluoranthene	ND		0.00600	1	10/12/2023 17:17	<a href="#">WG2148870</a>
Benzo(g,h,i)perylene	ND		0.00600	1	10/12/2023 17:17	<a href="#">WG2148870</a>
Benzo(k)fluoranthene	ND		0.00600	1	10/12/2023 17:17	<a href="#">WG2148870</a>
Chrysene	ND		0.00600	1	10/12/2023 17:17	<a href="#">WG2148870</a>
Dibenz(a,h)anthracene	ND		0.00600	1	10/12/2023 17:17	<a href="#">WG2148870</a>
Fluoranthene	ND		0.00600	1	10/12/2023 17:17	<a href="#">WG2148870</a>
Fluorene	ND		0.00600	1	10/12/2023 17:17	<a href="#">WG2148870</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	10/12/2023 17:17	<a href="#">WG2148870</a>
Naphthalene	ND		0.0200	1	10/12/2023 17:17	<a href="#">WG2148870</a>
Phenanthrene	ND		0.00600	1	10/12/2023 17:17	<a href="#">WG2148870</a>
Pyrene	ND		0.00600	1	10/12/2023 17:17	<a href="#">WG2148870</a>
1-Methylnaphthalene	ND		0.0200	1	10/12/2023 17:17	<a href="#">WG2148870</a>
2-Methylnaphthalene	ND		0.0200	1	10/12/2023 17:17	<a href="#">WG2148870</a>
2-Chloronaphthalene	ND		0.0200	1	10/12/2023 17:17	<a href="#">WG2148870</a>
(S) p-Terphenyl-d14	63.1		23.0-120		10/12/2023 17:17	<a href="#">WG2148870</a>
(S) Nitrobenzene-d5	71.9		14.0-149		10/12/2023 17:17	<a href="#">WG2148870</a>
(S) 2-Fluorobiphenyl	61.4		34.0-125		10/12/2023 17:17	<a href="#">WG2148870</a>

## Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	5.91		0.500	1	10/07/2023 15:35	<a href="#">WG2146388</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0500	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Acrylonitrile	ND		0.0125	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Benzene	ND		0.00100	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Bromobenzene	ND		0.0125	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Bromodichloromethane	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Bromoform	ND		0.0250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Bromomethane	ND		0.0125	1	10/06/2023 20:34	<a href="#">WG2146574</a>
n-Butylbenzene	ND		0.0125	1	10/06/2023 20:34	<a href="#">WG2146574</a>
sec-Butylbenzene	ND		0.0125	1	10/06/2023 20:34	<a href="#">WG2146574</a>
tert-Butylbenzene	ND		0.00500	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Carbon tetrachloride	ND		0.00500	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Chlorobenzene	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Chlorodibromomethane	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Chloroethane	ND		0.00500	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Chloroform	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Chloromethane	ND		0.0125	1	10/06/2023 20:34	<a href="#">WG2146574</a>
2-Chlorotoluene	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
4-Chlorotoluene	ND		0.00500	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,2-Dibromoethane	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Dibromomethane	ND		0.00500	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,2-Dichlorobenzene	ND		0.00500	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,3-Dichlorobenzene	ND		0.00500	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,4-Dichlorobenzene	ND		0.00500	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Dichlorodifluoromethane	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,1-Dichloroethane	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,2-Dichloroethane	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,1-Dichloroethene	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
cis-1,2-Dichloroethene	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
trans-1,2-Dichloroethene	ND		0.00500	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,2-Dichloropropane	ND		0.00500	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,1-Dichloropropene	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,3-Dichloropropane	ND		0.00500	1	10/06/2023 20:34	<a href="#">WG2146574</a>
cis-1,3-Dichloropropene	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
trans-1,3-Dichloropropene	ND		0.00500	1	10/06/2023 20:34	<a href="#">WG2146574</a>
2,2-Dichloropropane	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Di-isopropyl ether	0.00363		0.00100	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Ethylbenzene	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Hexachloro-1,3-butadiene	ND		0.0250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Isopropylbenzene	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
p-Isopropyltoluene	ND		0.00500	1	10/06/2023 20:34	<a href="#">WG2146574</a>
2-Butanone (MEK)	ND		0.100	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Methylene Chloride	ND		0.0250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Methyl tert-butyl ether	ND		0.00100	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Naphthalene	ND	<a href="#">J4</a>	0.0125	1	10/06/2023 20:34	<a href="#">WG2146574</a>
n-Propylbenzene	ND		0.00500	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Styrene	ND		0.0125	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,1,1,2-Tetrachloroethane	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,1,2,2-Tetrachloroethane	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Tetrachloroethene	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Toluene	ND		0.00500	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,2,3-Trichlorobenzene	ND	<a href="#">J3 J4</a>	0.0125	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,2,4-Trichlorobenzene	ND		0.0125	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,1,1-Trichloroethane	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,1,2-Trichloroethane	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Trichloroethene	ND		0.00100	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Trichlorofluoromethane	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,2,3-Trichloropropane	ND		0.0125	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,2,3-Trimethylbenzene	ND		0.00500	1	10/06/2023 20:34	<a href="#">WG2146574</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Vinyl chloride	ND		0.00250	1	10/06/2023 20:34	<a href="#">WG2146574</a>
Xylenes, Total	ND		0.00650	1	10/06/2023 20:34	<a href="#">WG2146574</a>
(S) Toluene-d8	95.6		75.0-131		10/06/2023 20:34	<a href="#">WG2146574</a>
(S) 4-Bromofluorobenzene	97.6		67.0-138		10/06/2023 20:34	<a href="#">WG2146574</a>
(S) 1,2-Dichloroethane-d4	103		70.0-130		10/06/2023 20:34	<a href="#">WG2146574</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Semi-Volatile Organic Compounds (GC) by Method EPH

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Extractable Petroleum Hydrocarbon	ND		4.00	1	10/12/2023 10:34	<a href="#">WG2149848</a>
(S) o-Terphenyl	54.4		18.0-148		10/12/2023 10:34	<a href="#">WG2149848</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	10/12/2023 01:37	<a href="#">WG2149255</a>
Acenaphthene	ND		0.00600	1	10/12/2023 01:37	<a href="#">WG2149255</a>
Acenaphthylene	ND		0.00600	1	10/12/2023 01:37	<a href="#">WG2149255</a>
Benzo(a)anthracene	ND		0.00600	1	10/12/2023 01:37	<a href="#">WG2149255</a>
Benzo(a)pyrene	ND		0.00600	1	10/12/2023 01:37	<a href="#">WG2149255</a>
Benzo(b)fluoranthene	ND		0.00600	1	10/12/2023 01:37	<a href="#">WG2149255</a>
Benzo(g,h,i)perylene	ND		0.00600	1	10/12/2023 01:37	<a href="#">WG2149255</a>
Benzo(k)fluoranthene	ND		0.00600	1	10/12/2023 01:37	<a href="#">WG2149255</a>
Chrysene	ND		0.00600	1	10/12/2023 01:37	<a href="#">WG2149255</a>
Dibenz(a,h)anthracene	ND		0.00600	1	10/12/2023 01:37	<a href="#">WG2149255</a>
Fluoranthene	ND		0.00600	1	10/12/2023 01:37	<a href="#">WG2149255</a>
Fluorene	ND		0.00600	1	10/12/2023 01:37	<a href="#">WG2149255</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	10/12/2023 01:37	<a href="#">WG2149255</a>
Naphthalene	ND		0.0200	1	10/12/2023 01:37	<a href="#">WG2149255</a>
Phenanthrene	ND		0.00600	1	10/12/2023 01:37	<a href="#">WG2149255</a>
Pyrene	ND		0.00600	1	10/12/2023 01:37	<a href="#">WG2149255</a>
1-Methylnaphthalene	ND		0.0200	1	10/12/2023 01:37	<a href="#">WG2149255</a>
2-Methylnaphthalene	ND		0.0200	1	10/12/2023 01:37	<a href="#">WG2149255</a>
2-Chloronaphthalene	ND		0.0200	1	10/12/2023 01:37	<a href="#">WG2149255</a>
(S) p-Terphenyl-d14	87.9		23.0-120		10/12/2023 01:37	<a href="#">WG2149255</a>
(S) Nitrobenzene-d5	79.5		14.0-149		10/12/2023 01:37	<a href="#">WG2149255</a>
(S) 2-Fluorobiphenyl	85.7		34.0-125		10/12/2023 01:37	<a href="#">WG2149255</a>

## Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	4.96		0.500	1	10/07/2023 14:20	<a href="#">WG2146388</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0500	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Acrylonitrile	ND		0.0125	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Benzene	ND		0.00100	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Bromobenzene	ND		0.0125	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Bromodichloromethane	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Bromoform	ND		0.0250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Bromomethane	ND		0.0125	1	10/06/2023 20:53	<a href="#">WG2146574</a>
n-Butylbenzene	ND		0.0125	1	10/06/2023 20:53	<a href="#">WG2146574</a>
sec-Butylbenzene	ND		0.0125	1	10/06/2023 20:53	<a href="#">WG2146574</a>
tert-Butylbenzene	ND		0.00500	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Carbon tetrachloride	ND		0.00500	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Chlorobenzene	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Chlorodibromomethane	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Chloroethane	ND		0.00500	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Chloroform	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Chloromethane	ND		0.0125	1	10/06/2023 20:53	<a href="#">WG2146574</a>
2-Chlorotoluene	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
4-Chlorotoluene	ND		0.00500	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,2-Dibromoethane	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Dibromomethane	ND		0.00500	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,2-Dichlorobenzene	ND		0.00500	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,3-Dichlorobenzene	ND		0.00500	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,4-Dichlorobenzene	ND		0.00500	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Dichlorodifluoromethane	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,1-Dichloroethane	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,2-Dichloroethane	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,1-Dichloroethene	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
cis-1,2-Dichloroethene	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
trans-1,2-Dichloroethene	ND		0.00500	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,2-Dichloropropane	ND		0.00500	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,1-Dichloropropene	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,3-Dichloropropane	ND		0.00500	1	10/06/2023 20:53	<a href="#">WG2146574</a>
cis-1,3-Dichloropropene	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
trans-1,3-Dichloropropene	ND		0.00500	1	10/06/2023 20:53	<a href="#">WG2146574</a>
2,2-Dichloropropane	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Di-isopropyl ether	ND		0.00100	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Ethylbenzene	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Hexachloro-1,3-butadiene	ND		0.0250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Isopropylbenzene	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
p-Isopropyltoluene	ND		0.00500	1	10/06/2023 20:53	<a href="#">WG2146574</a>
2-Butanone (MEK)	ND		0.100	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Methylene Chloride	ND		0.0250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Methyl tert-butyl ether	ND		0.00100	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Naphthalene	ND	<a href="#">J4</a>	0.0125	1	10/06/2023 20:53	<a href="#">WG2146574</a>
n-Propylbenzene	ND		0.00500	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Styrene	ND		0.0125	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,1,1,2-Tetrachloroethane	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,1,2,2-Tetrachloroethane	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Tetrachloroethene	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Toluene	ND		0.00500	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,2,3-Trichlorobenzene	ND	<a href="#">J3 J4</a>	0.0125	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,2,4-Trichlorobenzene	ND		0.0125	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,1,1-Trichloroethane	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,1,2-Trichloroethane	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Trichloroethene	ND		0.00100	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Trichlorofluoromethane	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,2,3-Trichloropropane	ND		0.0125	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,2,3-Trimethylbenzene	ND		0.00500	1	10/06/2023 20:53	<a href="#">WG2146574</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Vinyl chloride	ND		0.00250	1	10/06/2023 20:53	<a href="#">WG2146574</a>
Xylenes, Total	ND		0.00650	1	10/06/2023 20:53	<a href="#">WG2146574</a>
(S) Toluene-d8	98.9		75.0-131		10/06/2023 20:53	<a href="#">WG2146574</a>
(S) 4-Bromofluorobenzene	99.6		67.0-138		10/06/2023 20:53	<a href="#">WG2146574</a>
(S) 1,2-Dichloroethane-d4	98.5		70.0-130		10/06/2023 20:53	<a href="#">WG2146574</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Semi-Volatile Organic Compounds (GC) by Method EPH

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Extractable Petroleum Hydrocarbon	ND		4.00	1	10/12/2023 10:51	<a href="#">WG2149848</a>
(S) o-Terphenyl	43.3		18.0-148		10/12/2023 10:51	<a href="#">WG2149848</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	10/12/2023 01:55	<a href="#">WG2149255</a>
Acenaphthene	ND		0.00600	1	10/12/2023 01:55	<a href="#">WG2149255</a>
Acenaphthylene	ND		0.00600	1	10/12/2023 01:55	<a href="#">WG2149255</a>
Benzo(a)anthracene	ND		0.00600	1	10/12/2023 01:55	<a href="#">WG2149255</a>
Benzo(a)pyrene	ND		0.00600	1	10/12/2023 01:55	<a href="#">WG2149255</a>
Benzo(b)fluoranthene	ND		0.00600	1	10/12/2023 01:55	<a href="#">WG2149255</a>
Benzo(g,h,i)perylene	ND		0.00600	1	10/12/2023 01:55	<a href="#">WG2149255</a>
Benzo(k)fluoranthene	ND		0.00600	1	10/12/2023 01:55	<a href="#">WG2149255</a>
Chrysene	ND		0.00600	1	10/12/2023 01:55	<a href="#">WG2149255</a>
Dibenz(a,h)anthracene	ND		0.00600	1	10/12/2023 01:55	<a href="#">WG2149255</a>
Fluoranthene	ND		0.00600	1	10/12/2023 01:55	<a href="#">WG2149255</a>
Fluorene	ND		0.00600	1	10/12/2023 01:55	<a href="#">WG2149255</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	10/12/2023 01:55	<a href="#">WG2149255</a>
Naphthalene	ND		0.0200	1	10/12/2023 01:55	<a href="#">WG2149255</a>
Phenanthrene	ND		0.00600	1	10/12/2023 01:55	<a href="#">WG2149255</a>
Pyrene	ND		0.00600	1	10/12/2023 01:55	<a href="#">WG2149255</a>
1-Methylnaphthalene	ND		0.0200	1	10/12/2023 01:55	<a href="#">WG2149255</a>
2-Methylnaphthalene	ND		0.0200	1	10/12/2023 01:55	<a href="#">WG2149255</a>
2-Chloronaphthalene	ND		0.0200	1	10/12/2023 01:55	<a href="#">WG2149255</a>
(S) p-Terphenyl-d14	86.3		23.0-120		10/12/2023 01:55	<a href="#">WG2149255</a>
(S) Nitrobenzene-d5	81.1		14.0-149		10/12/2023 01:55	<a href="#">WG2149255</a>
(S) 2-Fluorobiphenyl	86.7		34.0-125		10/12/2023 01:55	<a href="#">WG2149255</a>

## Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Lead	2.72		0.500	1	10/07/2023 14:23	<a href="#">WG2146388</a>

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg		date / time	
Acetone	ND		0.0500	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Acrylonitrile	ND		0.0125	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Benzene	ND		0.00100	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Bromobenzene	ND		0.0125	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Bromodichloromethane	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Bromoform	ND		0.0250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Bromomethane	ND		0.0125	1	10/06/2023 21:12	<a href="#">WG2146574</a>
n-Butylbenzene	ND		0.0125	1	10/06/2023 21:12	<a href="#">WG2146574</a>
sec-Butylbenzene	ND		0.0125	1	10/06/2023 21:12	<a href="#">WG2146574</a>
tert-Butylbenzene	ND		0.00500	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Carbon tetrachloride	ND		0.00500	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Chlorobenzene	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Chlorodibromomethane	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Chloroethane	ND		0.00500	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Chloroform	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Chloromethane	ND		0.0125	1	10/06/2023 21:12	<a href="#">WG2146574</a>
2-Chlorotoluene	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
4-Chlorotoluene	ND		0.00500	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,2-Dibromoethane	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Dibromomethane	ND		0.00500	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,2-Dichlorobenzene	ND		0.00500	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,3-Dichlorobenzene	ND		0.00500	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,4-Dichlorobenzene	ND		0.00500	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Dichlorodifluoromethane	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,1-Dichloroethane	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,2-Dichloroethane	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,1-Dichloroethene	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
cis-1,2-Dichloroethene	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
trans-1,2-Dichloroethene	ND		0.00500	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,2-Dichloropropane	ND		0.00500	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,1-Dichloropropene	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,3-Dichloropropane	ND		0.00500	1	10/06/2023 21:12	<a href="#">WG2146574</a>
cis-1,3-Dichloropropene	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
trans-1,3-Dichloropropene	ND		0.00500	1	10/06/2023 21:12	<a href="#">WG2146574</a>
2,2-Dichloropropane	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Di-isopropyl ether	ND		0.00100	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Ethylbenzene	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Hexachloro-1,3-butadiene	ND		0.0250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Isopropylbenzene	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
p-Isopropyltoluene	ND		0.00500	1	10/06/2023 21:12	<a href="#">WG2146574</a>
2-Butanone (MEK)	ND		0.100	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Methylene Chloride	ND		0.0250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Methyl tert-butyl ether	ND		0.00100	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Naphthalene	ND	<a href="#">J4</a>	0.0125	1	10/06/2023 21:12	<a href="#">WG2146574</a>
n-Propylbenzene	ND		0.00500	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Styrene	ND		0.0125	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,1,1,2-Tetrachloroethane	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,1,2,2-Tetrachloroethane	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Tetrachloroethene	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Toluene	ND		0.00500	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,2,3-Trichlorobenzene	ND	<a href="#">J3 J4</a>	0.0125	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,2,4-Trichlorobenzene	ND		0.0125	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,1,1-Trichloroethane	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,1,2-Trichloroethane	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Trichloroethene	ND		0.00100	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Trichlorofluoromethane	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,2,3-Trichloropropane	ND		0.0125	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,2,3-Trimethylbenzene	ND		0.00500	1	10/06/2023 21:12	<a href="#">WG2146574</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Vinyl chloride	ND		0.00250	1	10/06/2023 21:12	<a href="#">WG2146574</a>
Xylenes, Total	ND		0.00650	1	10/06/2023 21:12	<a href="#">WG2146574</a>
(S) Toluene-d8	98.2		75.0-131		10/06/2023 21:12	<a href="#">WG2146574</a>
(S) 4-Bromofluorobenzene	100		67.0-138		10/06/2023 21:12	<a href="#">WG2146574</a>
(S) 1,2-Dichloroethane-d4	97.7		70.0-130		10/06/2023 21:12	<a href="#">WG2146574</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Semi-Volatile Organic Compounds (GC) by Method EPH

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Extractable Petroleum Hydrocarbon	ND		4.00	1	10/12/2023 11:08	<a href="#">WG2149848</a>
(S) o-Terphenyl	59.5		18.0-148		10/12/2023 11:08	<a href="#">WG2149848</a>

## Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.00600	1	10/12/2023 02:13	<a href="#">WG2149255</a>
Acenaphthene	ND		0.00600	1	10/12/2023 02:13	<a href="#">WG2149255</a>
Acenaphthylene	ND		0.00600	1	10/12/2023 02:13	<a href="#">WG2149255</a>
Benzo(a)anthracene	ND		0.00600	1	10/12/2023 02:13	<a href="#">WG2149255</a>
Benzo(a)pyrene	ND		0.00600	1	10/12/2023 02:13	<a href="#">WG2149255</a>
Benzo(b)fluoranthene	ND		0.00600	1	10/12/2023 02:13	<a href="#">WG2149255</a>
Benzo(g,h,i)perylene	ND		0.00600	1	10/12/2023 02:13	<a href="#">WG2149255</a>
Benzo(k)fluoranthene	ND		0.00600	1	10/12/2023 02:13	<a href="#">WG2149255</a>
Chrysene	ND		0.00600	1	10/12/2023 02:13	<a href="#">WG2149255</a>
Dibenz(a,h)anthracene	ND		0.00600	1	10/12/2023 02:13	<a href="#">WG2149255</a>
Fluoranthene	ND		0.00600	1	10/12/2023 02:13	<a href="#">WG2149255</a>
Fluorene	ND		0.00600	1	10/12/2023 02:13	<a href="#">WG2149255</a>
Indeno(1,2,3-cd)pyrene	ND		0.00600	1	10/12/2023 02:13	<a href="#">WG2149255</a>
Naphthalene	ND		0.0200	1	10/12/2023 02:13	<a href="#">WG2149255</a>
Phenanthrene	ND		0.00600	1	10/12/2023 02:13	<a href="#">WG2149255</a>
Pyrene	ND		0.00600	1	10/12/2023 02:13	<a href="#">WG2149255</a>
1-Methylnaphthalene	ND		0.0200	1	10/12/2023 02:13	<a href="#">WG2149255</a>
2-Methylnaphthalene	ND		0.0200	1	10/12/2023 02:13	<a href="#">WG2149255</a>
2-Chloronaphthalene	ND		0.0200	1	10/12/2023 02:13	<a href="#">WG2149255</a>
(S) p-Terphenyl-d14	88.9		23.0-120		10/12/2023 02:13	<a href="#">WG2149255</a>
(S) Nitrobenzene-d5	77.9		14.0-149		10/12/2023 02:13	<a href="#">WG2149255</a>
(S) 2-Fluorobiphenyl	85.1		34.0-125		10/12/2023 02:13	<a href="#">WG2149255</a>

Method Blank (MB)

(MB) R3983378-1 10/07/23 12:07

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Lead	U		0.208	0.500

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Laboratory Control Sample (LCS)

(LCS) R3983378-2 10/07/23 12:10

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Lead	100	95.2	95.2	80.0-120	

<sup>4</sup>Cn

<sup>5</sup>Sr

L1662280-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662280-02 10/07/23 12:13 • (MS) R3983378-5 10/07/23 12:21 • (MSD) R3983378-6 10/07/23 12:24

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Lead	99.8	36.9	118	121	80.9	84.0	1	75.0-125			2.58	20

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3983490-3 10/06/23 14:24

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

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3983490-3 10/06/23 14:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	0.0123	U	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00488	0.0125
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.00130	0.00500
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	98.3			75.0-131
(S) 4-Bromofluorobenzene	102			67.0-138
(S) 1,2-Dichloroethane-d4	111			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

(LCS) R3983490-1 10/06/23 12:46 • (LCSD) R3983490-2 10/06/23 13:05

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Acetone	0.625	0.374	0.469	59.8	75.0	10.0-160			22.5	31
Acrylonitrile	0.625	0.445	0.483	71.2	77.3	45.0-153			8.19	22
Benzene	0.125	0.139	0.125	111	100	70.0-123			10.6	20
Bromobenzene	0.125	0.132	0.125	106	100	73.0-121			5.45	20
Bromodichloromethane	0.125	0.148	0.146	118	117	73.0-121			1.36	20

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

(LCS) R3983490-1 10/06/23 12:46 • (LCSD) R3983490-2 10/06/23 13:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.125	0.118	0.115	94.4	92.0	64.0-132			2.58	20
Bromomethane	0.125	0.131	0.125	105	100	56.0-147			4.69	20
n-Butylbenzene	0.125	0.107	0.103	85.6	82.4	68.0-135			3.81	20
sec-Butylbenzene	0.125	0.129	0.120	103	96.0	74.0-130			7.23	20
tert-Butylbenzene	0.125	0.125	0.116	100	92.8	75.0-127			7.47	20
Carbon tetrachloride	0.125	0.144	0.134	115	107	66.0-128			7.19	20
Chlorobenzene	0.125	0.120	0.115	96.0	92.0	76.0-128			4.26	20
Chlorodibromomethane	0.125	0.121	0.113	96.8	90.4	74.0-127			6.84	20
Chloroethane	0.125	0.129	0.118	103	94.4	61.0-134			8.91	20
Chloroform	0.125	0.148	0.144	118	115	72.0-123			2.74	20
Chloromethane	0.125	0.116	0.105	92.8	84.0	51.0-138			9.95	20
2-Chlorotoluene	0.125	0.127	0.124	102	99.2	75.0-124			2.39	20
4-Chlorotoluene	0.125	0.144	0.136	115	109	75.0-124			5.71	20
1,2-Dibromo-3-Chloropropane	0.125	0.100	0.105	80.0	84.0	59.0-130			4.88	20
1,2-Dibromoethane	0.125	0.122	0.117	97.6	93.6	74.0-128			4.18	20
Dibromomethane	0.125	0.138	0.130	110	104	75.0-122			5.97	20
1,2-Dichlorobenzene	0.125	0.126	0.123	101	98.4	76.0-124			2.41	20
1,3-Dichlorobenzene	0.125	0.124	0.120	99.2	96.0	76.0-125			3.28	20
1,4-Dichlorobenzene	0.125	0.126	0.122	101	97.6	77.0-121			3.23	20
Dichlorodifluoromethane	0.125	0.146	0.135	117	108	43.0-156			7.83	20
1,1-Dichloroethane	0.125	0.134	0.123	107	98.4	70.0-127			8.56	20
1,2-Dichloroethane	0.125	0.122	0.121	97.6	96.8	65.0-131			0.823	20
1,1-Dichloroethene	0.125	0.121	0.114	96.8	91.2	65.0-131			5.96	20
cis-1,2-Dichloroethene	0.125	0.137	0.130	110	104	73.0-125			5.24	20
trans-1,2-Dichloroethene	0.125	0.148	0.138	118	110	71.0-125			6.99	20
1,2-Dichloropropane	0.125	0.127	0.119	102	95.2	74.0-125			6.50	20
1,1-Dichloropropene	0.125	0.136	0.129	109	103	73.0-125			5.28	20
1,3-Dichloropropane	0.125	0.125	0.124	100	99.2	80.0-125			0.803	20
cis-1,3-Dichloropropene	0.125	0.143	0.134	114	107	76.0-127			6.50	20
trans-1,3-Dichloropropene	0.125	0.129	0.127	103	102	73.0-127			1.56	20
2,2-Dichloropropane	0.125	0.111	0.130	88.8	104	59.0-135			15.8	20
Di-isopropyl ether	0.125	0.114	0.111	91.2	88.8	60.0-136			2.67	20
Ethylbenzene	0.125	0.136	0.123	109	98.4	74.0-126			10.0	20
Hexachloro-1,3-butadiene	0.125	0.124	0.131	99.2	105	57.0-150			5.49	20
Isopropylbenzene	0.125	0.137	0.129	110	103	72.0-127			6.02	20
p-Isopropyltoluene	0.125	0.119	0.112	95.2	89.6	72.0-133			6.06	20
2-Butanone (MEK)	0.625	0.458	0.467	73.3	74.7	30.0-160			1.95	24
Methylene Chloride	0.125	0.128	0.122	102	97.6	68.0-123			4.80	20
4-Methyl-2-pentanone (MIBK)	0.625	0.504	0.494	80.6	79.0	56.0-143			2.00	20
Methyl tert-butyl ether	0.125	0.149	0.138	119	110	66.0-132			7.67	20



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

(LCS) R3983490-1 10/06/23 12:46 • (LCSD) R3983490-2 10/06/23 13:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.125	0.0723	0.0827	57.8	66.2	59.0-130	J4		13.4	20
n-Propylbenzene	0.125	0.155	0.141	124	113	74.0-126			9.46	20
Styrene	0.125	0.121	0.112	96.8	89.6	72.0-127			7.73	20
1,1,1,2-Tetrachloroethane	0.125	0.127	0.118	102	94.4	74.0-129			7.35	20
1,1,2,2-Tetrachloroethane	0.125	0.123	0.126	98.4	101	68.0-128			2.41	20
1,1,2-Trichlorotrifluoroethane	0.125	0.128	0.127	102	102	61.0-139			0.784	20
Tetrachloroethene	0.125	0.133	0.122	106	97.6	70.0-136			8.63	20
Toluene	0.125	0.128	0.120	102	96.0	75.0-121			6.45	20
1,2,3-Trichlorobenzene	0.125	0.0712	0.0896	57.0	71.7	59.0-139	J4	J3	22.9	20
1,2,4-Trichlorobenzene	0.125	0.0928	0.105	74.2	84.0	62.0-137			12.3	20
1,1,1-Trichloroethane	0.125	0.149	0.140	119	112	69.0-126			6.23	20
1,1,2-Trichloroethane	0.125	0.130	0.122	104	97.6	78.0-123			6.35	20
Trichloroethene	0.125	0.143	0.129	114	103	76.0-126			10.3	20
Trichlorofluoromethane	0.125	0.161	0.148	129	118	61.0-142			8.41	20
1,2,3-Trichloropropane	0.125	0.146	0.135	117	108	67.0-129			7.83	20
1,2,4-Trimethylbenzene	0.125	0.142	0.139	114	111	70.0-126			2.14	20
1,2,3-Trimethylbenzene	0.125	0.139	0.132	111	106	74.0-124			5.17	20
1,3,5-Trimethylbenzene	0.125	0.128	0.115	102	92.0	73.0-127			10.7	20
Vinyl chloride	0.125	0.119	0.110	95.2	88.0	63.0-134			7.86	20
Xylenes, Total	0.375	0.393	0.363	105	96.8	72.0-127			7.94	20
(S) Toluene-d8				96.2	97.8	75.0-131				
(S) 4-Bromofluorobenzene				103	104	67.0-138				
(S) 1,2-Dichloroethane-d4				108	109	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1662759-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662759-01 10/06/23 18:39 • (MS) R3983490-4 10/06/23 22:29 • (MSD) R3983490-5 10/06/23 22:48

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.925	5.57	9.06	8.38	377	304	1.48	10.0-160	V	V	7.80	40
Acrylonitrile	0.925	ND	0.328	0.366	35.5	39.6	1.48	10.0-160			11.0	40
Benzene	0.185	0.0357	0.133	0.222	52.6	101	1.48	10.0-149		J3	50.1	37
Bromobenzene	0.185	ND	0.133	0.184	71.9	99.5	1.48	10.0-156			32.2	38
Bromodichloromethane	0.185	ND	0.164	0.213	88.6	115	1.48	10.0-143			26.0	37
Bromoform	0.185	ND	0.147	0.153	79.5	82.7	1.48	10.0-146			4.00	36
Bromomethane	0.185	ND	0.0989	0.187	53.5	101	1.48	10.0-149		J3	61.6	38
n-Butylbenzene	0.185	2.43	2.75	2.95	173	281	1.48	10.0-160	V	V	7.02	40
sec-Butylbenzene	0.185	0.582	0.749	0.868	90.3	155	1.48	10.0-159			14.7	39
tert-Butylbenzene	0.185	0.0600	0.162	0.257	55.1	106	1.48	10.0-156		J3	45.3	39

L1662759-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662759-01 10/06/23 18:39 • (MS) R3983490-4 10/06/23 22:29 • (MSD) R3983490-5 10/06/23 22:48

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Carbon tetrachloride	0.185	ND	0.0712	0.205	38.5	111	1.48	10.0-145		J3	96.9	37
Chlorobenzene	0.185	ND	0.220	0.271	119	146	1.48	10.0-152			20.8	39
Chlorodibromomethane	0.185	ND	0.138	0.155	74.6	83.8	1.48	10.0-146			11.6	37
Chloroethane	0.185	ND	0.0831	0.183	44.9	98.9	1.48	10.0-146		J3	75.1	40
Chloroform	0.185	ND	0.133	0.208	71.9	112	1.48	10.0-146		J3 J3	44.0	37
Chloromethane	0.185	ND	0.0734	0.161	39.7	87.0	1.48	10.0-159		J3 J3	74.7	37
2-Chlorotoluene	0.185	ND	0.116	0.187	62.7	101	1.48	10.0-159		J3 J3	46.9	38
4-Chlorotoluene	0.185	ND	0.125	0.212	67.6	115	1.48	10.0-155		J3	51.6	39
1,2-Dibromo-3-Chloropropane	0.185	ND	0.128	0.132	69.2	71.4	1.48	10.0-151			3.08	39
1,2-Dibromoethane	0.185	ND	0.153	0.170	82.7	91.9	1.48	10.0-148			10.5	34
Dibromomethane	0.185	ND	0.213	0.206	115	111	1.48	10.0-147			3.34	35
1,2-Dichlorobenzene	0.185	ND	0.142	0.185	76.8	100	1.48	10.0-155			26.3	37
1,3-Dichlorobenzene	0.185	ND	0.126	0.191	68.1	103	1.48	10.0-153		J3	41.0	38
1,4-Dichlorobenzene	0.185	ND	0.127	0.179	68.6	96.8	1.48	10.0-151			34.0	38
Dichlorodifluoromethane	0.185	ND	0.0800	0.283	43.2	153	1.48	10.0-160		J3	112	35
1,1-Dichloroethane	0.185	ND	0.108	0.194	58.4	105	1.48	10.0-147		J3 J3	57.0	37
1,2-Dichloroethane	0.185	ND	0.137	0.203	74.1	110	1.48	10.0-148		J3 J3	38.8	35
1,1-Dichloroethene	0.185	ND	0.0673	0.177	36.4	95.7	1.48	10.0-155		J3 J3	89.8	37
cis-1,2-Dichloroethene	0.185	ND	0.115	0.199	62.2	108	1.48	10.0-149		J3 J3	53.5	37
trans-1,2-Dichloroethene	0.185	ND	0.0947	0.200	51.2	108	1.48	10.0-150		J3 J3	71.5	37
1,2-Dichloropropane	0.185	ND	0.116	0.210	62.7	114	1.48	10.0-148		J3 J3	57.7	37
1,1-Dichloropropene	0.185	ND	0.0796	0.182	43.0	98.4	1.48	10.0-153		J3	78.3	35
1,3-Dichloropropane	0.185	ND	0.146	0.164	78.9	88.6	1.48	10.0-154			11.6	35
cis-1,3-Dichloropropene	0.185	ND	0.156	0.206	84.3	111	1.48	10.0-151			27.6	37
trans-1,3-Dichloropropene	0.185	ND	0.163	0.182	88.1	98.4	1.48	10.0-148			11.0	37
2,2-Dichloropropane	0.185	ND	0.0783	0.178	42.3	96.2	1.48	10.0-138		J3	77.8	36
Di-isopropyl ether	0.185	ND	0.119	0.158	64.3	85.4	1.48	10.0-147			28.2	36
Ethylbenzene	0.185	0.136	0.234	0.325	53.0	102	1.48	10.0-160			32.6	38
Hexachloro-1,3-butadiene	0.185	ND	0.166	0.313	89.7	169	1.48	10.0-160		J3 J5	61.4	40
Isopropylbenzene	0.185	0.765	0.961	1.03	106	143	1.48	10.0-155			6.93	38
p-Isopropyltoluene	0.185	0.0959	0.210	0.311	61.7	116	1.48	10.0-160			38.8	40
2-Butanone (MEK)	0.925	3.74	5.96	5.76	240	218	1.48	10.0-160	V	V	3.41	40
Methylene Chloride	0.185	ND	0.116	0.172	62.7	93.0	1.48	10.0-141		J3	38.9	37
4-Methyl-2-pentanone (MIBK)	0.925	ND	1.39	1.34	150	145	1.48	10.0-160			3.66	35
Methyl tert-butyl ether	0.185	ND	0.175	0.196	94.6	106	1.48	11.0-147			11.3	35
Naphthalene	0.185	0.0201	0.121	0.137	54.5	63.2	1.48	10.0-160			12.4	36
n-Propylbenzene	0.185	3.26	3.64	3.72	205	249	1.48	10.0-158	V	E V	2.17	38
Styrene	0.185	ND	0.118	0.180	63.8	97.3	1.48	10.0-160		J3	41.6	40
1,1,1,2-Tetrachloroethane	0.185	ND	0.115	0.170	62.2	91.9	1.48	10.0-149			38.6	39
1,1,2,2-Tetrachloroethane	0.185	ND	0.532	0.0839	288	45.4	1.48	10.0-160	J5	J3	146	35

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1662759-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662759-01 10/06/23 18:39 • (MS) R3983490-4 10/06/23 22:29 • (MSD) R3983490-5 10/06/23 22:48

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
1,1,2-Trichlorotrifluoroethane	0.185	ND	0.0613	0.202	33.1	109	1.48	10.0-160		UB	107	36
Tetrachloroethene	0.185	ND	0.0756	0.182	40.9	98.4	1.48	10.0-156		UB	82.6	39
Toluene	0.185	ND	0.0941	0.174	50.9	94.1	1.48	10.0-156		UB	59.6	38
1,2,3-Trichlorobenzene	0.185	ND	0.0955	0.125	51.6	67.6	1.48	10.0-160			26.8	40
1,2,4-Trichlorobenzene	0.185	ND	0.135	0.166	73.0	89.7	1.48	10.0-160			20.6	40
1,1,1-Trichloroethane	0.185	ND	0.0912	0.203	49.3	110	1.48	10.0-144		UB	76.0	35
1,1,2-Trichloroethane	0.185	ND	0.290	0.317	157	171	1.48	10.0-160		UB	8.90	35
Trichloroethene	0.185	ND	0.0802	0.178	43.4	96.2	1.48	10.0-156		UB	75.8	38
Trichlorofluoromethane	0.185	ND	0.0796	0.267	43.0	144	1.48	10.0-160		UB	108	40
1,2,3-Trichloropropane	0.185	ND	0.182	0.163	98.4	88.1	1.48	10.0-156			11.0	35
1,2,4-Trimethylbenzene	0.185	ND	0.139	0.219	75.1	118	1.48	10.0-160		UB	44.7	36
1,2,3-Trimethylbenzene	0.185	0.0581	0.198	0.257	75.6	108	1.48	10.0-160			25.9	36
1,3,5-Trimethylbenzene	0.185	ND	0.106	0.194	57.3	105	1.48	10.0-160		UB	58.7	38
Vinyl chloride	0.185	ND	0.0618	0.175	33.4	94.6	1.48	10.0-160		UB	95.6	37
Xylenes, Total	0.555	0.0353	0.347	0.577	56.2	97.6	1.48	10.0-160		UB	49.8	38
(S) Toluene-d8					95.8	93.0		75.0-131				
(S) 4-Bromofluorobenzene					117	101		67.0-138				
(S) 1,2-Dichloroethane-d4					91.7	95.0		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3985680-1 10/12/23 08:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Extractable Petroleum Hydrocarbon	U		1.05	4.00
<i>(S) o-Terphenyl</i>	74.0			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3985680-2 10/12/23 08:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Extractable Petroleum Hydrocarbon	50.0	29.9	59.8	50.0-150	
<i>(S) o-Terphenyl</i>			68.2	18.0-148	

L1662898-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662898-04 10/12/23 11:08 • (MS) R3985680-3 10/12/23 11:24 • (MSD) R3985680-4 10/12/23 11:41

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Extractable Petroleum Hydrocarbon	50.0	ND	29.3	29.8	58.6	59.6	1	50.0-150			1.69	20
<i>(S) o-Terphenyl</i>					63.4	61.1		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3987279-2 10/12/23 09:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	81.9			23.0-120
(S) Nitrobenzene-d5	83.3			14.0-149
(S) 2-Fluorobiphenyl	73.9			34.0-125

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS)

(LCS) R3987279-1 10/12/23 09:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0547	68.4	50.0-126	
Acenaphthene	0.0800	0.0540	67.5	50.0-120	
Acenaphthylene	0.0800	0.0577	72.1	50.0-120	
Benzo(a)anthracene	0.0800	0.0591	73.9	45.0-120	
Benzo(a)pyrene	0.0800	0.0632	79.0	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0572	71.5	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0538	67.3	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0560	70.0	49.0-125	
Chrysene	0.0800	0.0592	74.0	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0582	72.8	47.0-125	
Fluoranthene	0.0800	0.0592	74.0	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3987279-1 10/12/23 09:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0579	72.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0646	80.7	46.0-125	
Naphthalene	0.0800	0.0511	63.9	50.0-120	
Phenanthrene	0.0800	0.0529	66.1	47.0-120	
Pyrene	0.0800	0.0592	74.0	43.0-123	
1-Methylnaphthalene	0.0800	0.0546	68.3	51.0-121	
2-Methylnaphthalene	0.0800	0.0557	69.6	50.0-120	
2-Chloronaphthalene	0.0800	0.0534	66.8	50.0-120	
(S) p-Terphenyl-d14			80.2	23.0-120	
(S) Nitrobenzene-d5			81.5	14.0-149	
(S) 2-Fluorobiphenyl			72.5	34.0-125	

L1662803-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662803-18 10/12/23 16:07 • (MS) R3987279-3 10/12/23 16:25 • (MSD) R3987279-4 10/12/23 16:42

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0803	0.0293	0.0741	0.0796	56.0	62.9	1	10.0-145			7.16	30
Acenaphthene	0.0803	0.310	0.464	0.412	192	128	1	14.0-127	J5	J5	11.9	27
Acenaphthylene	0.0803	ND	0.155	0.159	194	199	1	21.0-124	J5	J5	2.55	25
Benzo(a)anthracene	0.0803	ND	0.0531	0.0571	62.9	67.9	1	10.0-139			7.26	30
Benzo(a)pyrene	0.0803	ND	0.0517	0.0564	64.6	70.5	1	10.0-141			8.70	31
Benzo(b)fluoranthene	0.0803	ND	0.0442	0.0483	55.3	60.4	1	10.0-140			8.86	36
Benzo(g,h,i)perylene	0.0803	ND	0.0459	0.0525	57.4	65.6	1	10.0-140			13.4	33
Benzo(k)fluoranthene	0.0803	ND	0.0432	0.0474	54.0	59.3	1	10.0-137			9.27	31
Chrysene	0.0803	ND	0.0530	0.0572	62.1	67.3	1	10.0-145			7.62	30
Dibenz(a,h)anthracene	0.0803	ND	0.0489	0.0536	61.1	67.0	1	10.0-132			9.17	31
Fluoranthene	0.0803	0.0255	0.0761	0.0793	63.3	67.3	1	10.0-153			4.12	33
Fluorene	0.0803	0.473	0.618	0.631	181	197	1	11.0-130	V	V	2.08	29
Indeno(1,2,3-cd)pyrene	0.0803	ND	0.0511	0.0559	63.9	69.9	1	10.0-137			8.97	32
Naphthalene	0.0803	0.192	0.349	0.263	196	88.8	1	10.0-135	J5	J3	28.1	27
Phenanthrene	0.0803	1.12	1.32	1.34	250	275	1	10.0-144	V	V	1.50	31
Pyrene	0.0803	0.0745	0.128	0.133	66.9	73.1	1	10.0-148			3.83	35
1-Methylnaphthalene	0.0803	1.70	2.11	2.14	512	550	1	10.0-142	V	V	1.41	28
2-Methylnaphthalene	0.0803	0.548	0.845	0.710	371	203	1	10.0-137	V	V	17.4	28
2-Chloronaphthalene	0.0803	ND	0.0937	0.0620	117	77.5	1	29.0-120		J3	40.7	24
(S) p-Terphenyl-d14					65.8	71.3		23.0-120				
(S) Nitrobenzene-d5					0.000	0.000		14.0-149	J2	J2		
(S) 2-Fluorobiphenyl					80.3	86.2		34.0-125				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1662803-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1662803-18 10/12/23 16:07 • (MS) R3987279-3 10/12/23 16:25 • (MSD) R3987279-4 10/12/23 16:42

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
---------	-----------------------	--------------------------	--------------------	---------------------	--------------	---------------	----------	------------------	---------------------	----------------------	----------	-----------------

Sample Narrative:

OS: Surrogate failure due to matrix interference.

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R3985341-2 10/11/23 22:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	0.0295		0.00230	0.00600
Acenaphthene	0.00666		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	0.0155		0.00173	0.00600
Benzo(a)pyrene	0.00390	U	0.00179	0.00600
Benzo(b)fluoranthene	0.00736		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	0.00300	U	0.00215	0.00600
Chrysene	0.0143		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	0.0599		0.00227	0.00600
Fluorene	0.00999		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	0.00198	U	0.00181	0.00600
Naphthalene	0.00487	U	0.00408	0.0200
Phenanthrene	0.0943		0.00231	0.00600
Pyrene	0.0396		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	0.00527	U	0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) p-Terphenyl-d14	77.8			23.0-120
(S) Nitrobenzene-d5	66.7			14.0-149
(S) 2-Fluorobiphenyl	74.8			34.0-125

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS)

(LCS) R3985341-1 10/11/23 22:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0493	61.6	50.0-126	
Acenaphthene	0.0800	0.0483	60.4	50.0-120	
Acenaphthylene	0.0800	0.0503	62.9	50.0-120	
Benzo(a)anthracene	0.0800	0.0541	67.6	45.0-120	
Benzo(a)pyrene	0.0800	0.0468	58.5	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0500	62.5	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0462	57.8	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0474	59.3	49.0-125	
Chrysene	0.0800	0.0528	66.0	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0495	61.9	47.0-125	
Fluoranthene	0.0800	0.0533	66.6	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3985341-1 10/11/23 22:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0536	67.0	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0543	67.9	46.0-125	
Naphthalene	0.0800	0.0504	63.0	50.0-120	
Phenanthrene	0.0800	0.0497	62.1	47.0-120	
Pyrene	0.0800	0.0513	64.1	43.0-123	
1-Methylnaphthalene	0.0800	0.0524	65.5	51.0-121	
2-Methylnaphthalene	0.0800	0.0534	66.8	50.0-120	
2-Chloronaphthalene	0.0800	0.0498	62.3	50.0-120	
(S) p-Terphenyl-d14			71.2	23.0-120	
(S) Nitrobenzene-d5			63.8	14.0-149	
(S) 2-Fluorobiphenyl			69.5	34.0-125	

L1664891-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1664891-05 10/11/23 23:15 • (MS) R3985341-3 10/11/23 23:33 • (MSD) R3985341-4 10/11/23 23:51

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0800	ND	0.0581	0.0593	72.6	74.1	1	10.0-145			2.04	30
Acenaphthene	0.0800	ND	0.0553	0.0579	69.1	72.4	1	14.0-127			4.59	27
Acenaphthylene	0.0800	ND	0.0577	0.0604	72.1	75.5	1	21.0-124			4.57	25
Benzo(a)anthracene	0.0800	ND	0.0630	0.0636	78.8	79.5	1	10.0-139			0.948	30
Benzo(a)pyrene	0.0800	ND	0.0621	0.0640	77.6	80.0	1	10.0-141			3.01	31
Benzo(b)fluoranthene	0.0800	ND	0.0587	0.0605	73.4	75.6	1	10.0-140			3.02	36
Benzo(g,h,i)perylene	0.0800	ND	0.0557	0.0584	69.6	73.0	1	10.0-140			4.73	33
Benzo(k)fluoranthene	0.0800	ND	0.0559	0.0581	69.9	72.6	1	10.0-137			3.86	31
Chrysene	0.0800	ND	0.0629	0.0650	78.6	81.3	1	10.0-145			3.28	30
Dibenz(a,h)anthracene	0.0800	ND	0.0593	0.0619	74.1	77.4	1	10.0-132			4.29	31
Fluoranthene	0.0800	ND	0.0619	0.0640	77.4	80.0	1	10.0-153			3.34	33
Fluorene	0.0800	ND	0.0618	0.0641	77.3	80.1	1	11.0-130			3.65	29
Indeno(1,2,3-cd)pyrene	0.0800	ND	0.0648	0.0667	81.0	83.4	1	10.0-137			2.89	32
Naphthalene	0.0800	ND	0.0573	0.0608	71.6	76.0	1	10.0-135			5.93	27
Phenanthrene	0.0800	ND	0.0585	0.0600	73.1	75.0	1	10.0-144			2.53	31
Pyrene	0.0800	ND	0.0602	0.0615	75.3	76.9	1	10.0-148			2.14	35
1-Methylnaphthalene	0.0800	ND	0.0599	0.0633	74.9	79.1	1	10.0-142			5.52	28
2-Methylnaphthalene	0.0800	ND	0.0606	0.0641	75.8	80.1	1	10.0-137			5.61	28
2-Chloronaphthalene	0.0800	ND	0.0574	0.0598	71.8	74.8	1	29.0-120			4.10	24
(S) p-Terphenyl-d14					83.5	90.9		23.0-120				
(S) Nitrobenzene-d5					76.7	81.8		14.0-149				
(S) 2-Fluorobiphenyl					82.6	89.9		34.0-125				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

# 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.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
V	The sample concentration is too high to evaluate accurate spike recoveries.



# ACCREDITATIONS & LOCATIONS

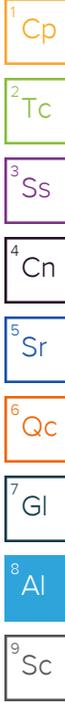
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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 <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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:

Universal Engineering dba  
GEOServices, L

2561 Willow Point Way

Billing Information:

Accounts Payable  
2561 Willow Point Way  
Knoxville, TN 37931

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page \_\_\_ of \_\_\_



MT JULIET, TN

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Report to:

Bryan Barton

Email To:

barton@geoservices.com

Project Description:

Hulsey Ln

City/State

Collected:

Rocky Top

Please Circle:

PT MT CT **ET**

Phone: 865-231-9853

Client Project #

24-231321

Lab Project #

Collected by (print):

Scott Goun

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

\_\_\_ Same Day \_\_\_ Five Day  
\_\_\_ Next Day \_\_\_ 5 Day (Rad Only)  
\_\_\_ Two Day \_\_\_ 10 Day (Rad Only)  
\_\_\_ Three Day

Quote #

Date Results Needed

Immediately

Packed on Ice N \_\_\_ Y

No.  
of  
Cntrs

Sample ID

Comp/Grab

Matrix \*

Depth

Date

Time

EPH  
VOC  
PAH/Lead

B-1  
B-2  
B-3  
B-4

Grab

SS

9.3

10-3-23

10:15

3

X

X

X

↓

↓

9.6

↓

10:30

3

↓

↓

↓

↓

↓

7.3

↓

10:45

3

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↓

↓

↓

↓

9.6

↓

11:00

3

↓

↓

↓

SDG # 11102398

Tal E164

Acctnum: GEOSERV

Template:

Prelogin:

PM: 134 - Mark W. Beasley

PB:

Shipped Via:

Remarks Sample # (lab only)

-01  
-02  
-03  
-04

\* 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 #

Sample Receipt Checklist

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

Relinquished by: (Signature)

Date:

10-4-23

Time:

1200

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH  
TBR

Relinquished by: (Signature)

Date:

10-4-23

Time:

1700

Received by: (Signature)

Temp: °C Bottles Received:

2:40 = 2.4 12

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Received for lab by: (Signature)

Date:

10-5

Time:

0800

Hold:

Condition:

NCF  OK

pkw