

4114 Laurel Ridge Drive Raleigh, North Carolina 27612 Protocol Sampling Service, Inc. "Experts in Environmental Compliance"

(919) 210-6547

Protocolsampling@yahoo.com Environmentalservicesnc.com

June 30, 2023

Mr. Mark R. Powers Regional Supervisor UST Section, Raleigh Regional Office NCDEQ, Division of Waste Management 1628 Mail Service Center Raleigh, North Carolina 27699

Re: Initial Abatement Report 514 Glenbrook Drive Raleigh, Wake County, North Carolina 27610

Dear Mr. Powers:

Enclosed, please find the Initial Abatement Report for the 600 Glenbrook Drive property located in Raleigh, Wake County, North Carolina and owned by the City of Raleigh. The 275-gallon No. 2 fuel oil tank was removed on June 1, 2023 with evidence of a release confirmed visually. Soil sample results were all below detection limits. Ground water analyses revealed a minor concentration for C11-C22 Aromatics of 375 ug/l (Standard 200 ug/l).

No further action is recommended for this property.

Please call me at (919) 210-6547 if you have any questions.

E.

David E. Meyer, P.G. Geologist/President

Cc: Mr. R. Todd Rall, Project Manager, City of Raleigh, Stormwater Division

275-gallon Heating Oil UST Initial Abatement Report 514 Glenbrook Drive Raleigh, Wake County, North Carolina 27610

Prepared for:

Mr. R. Todd Rall, Project Manager City of Raleigh Engineering Services Department Stormwater Division 127 W. Hargett St. Raleigh, NC 27601

Prepared by:

Prepared By: Protocol Sampling Service, Inc. 4114 Laurel Ridge Drive Raleigh, NC 27612 919-210-6547 Email: protocolsampling@yahoo.com

June 30, 2023

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1 Site Identification

Site Name/Site Location: 514 Glenbrook Drive Nearest City/Town: Raleigh County: Wake Date of Report: June 30, 2023 Facility ID: UST Incident Number: (non-commercial)

1.2 UST Owner:

City of Raleigh 127 West Hargett Street Raleigh, North Carolina 27601 Phone: (984) 344-3102

1.3 UST Operator:

City of Raleigh 127 West Hargett Street Raleigh, North Carolina 27601 Phone: (984) 344-3102

1.4 Property Owner:

City of Raleigh 127 West Hargett Street Raleigh, North Carolina 27601 Phone: (984) 344-3102

1.5 Property Occupant:

House demolished/Empty

1.6 Consultant:

Protocol Sampling Service, Inc. 4114 Laurel Ridge Drive Raleigh, NC 27612 (919) 210-6547

1.7 Release Information:

Date Discovered: June 1, 2023 Latitude/Longitude: 35.76907" N; 78.60248" W Estimated Quantity of Release: unknown Cause of Release: weepage from UST Source of Release: 275 gallon No. 2 fuel oil UST

1.8 Site History

UST System Number	Product	Capacity	Date Installed	Date Removed
Na	Heating oil	275 gallons	1957	6-1-2023

1.9 Free Product Investigation/Recovery

Free product was not encountered on the subject site during closure and soil sampling activities.

2. Risk Characterization

Limited Site Assessment Risk Classification and Land Use for Source Area

Part I Groundwater/Surface Water/Vapor Impacts

High Risk

- 1. Has the release contaminated any water supply well including any well used for non-drinking purposes? Yes/No
- 2. Is a water supply well not used for drinking water located within 1,000 feet of the source area? Yes/No
- 3. Is a water supply well not used for drinking water (e.g. irrigation, washing cars, industrial cooling water, filling swimming pools) located within 250 feet of the source area? Yes/No
- 4. Does Groundwater within 500 feet of the source area of the release have the potential for future use (there is no other source of water supply other than groundwater)? Yes/ **No**
- 5. Do vapors from the release pose a threat to explosion because of accumulation of vapors in a confined space or pose any serious threat top public health, public safety or the environment? Yes/ No
- 6. Are there any other factors that would cause the release to pose an imminent danger to public health, public safety or the environment? Yes/No

Intermediate Risk

- 7. Is a surface body of water located within 500 feet of the source area? Yes/No
- 8. Is the source area of the release located within an approved or planned wellhead protection area as defined in 42 USC 300h-7(e)? Yes/No
- 9. Is the release located in the Coastal Plain Physiographic Province as designated on a map entitled "Geologic Map of North Carolina" published in 1985? Yes/No
- 10. Do the levels of the groundwater contamination for any of the contaminant exceed the gross contamination levels (GCL)? Yes/No

Part II Land Use

- 1. Does the property contain one or more primary or secondary residence Yes/ No
- 2. Does the property contain a school, daycare center, hospital, playground, parking, recreation area, church, nursing home, or other place of public assembly? Yes/No

The property is currently unoccupied.

- 3. Does the property contain a commercial (e.g. retail, warehouse, office/business space, etc.) or industrial (e.g., manufacturing, utilities, industrial research and development, chemical/petroleum bulk storage, etc.) enterprise, an inactive commercial or industrial, enterprise, or is the land undeveloped. Yes/No. currently empty.
- 4. Do children visit the property? Yes/No
- 5. Do pavement, buildings, or other structures cap the contaminated soil? Yes/No.
- 6. What is the zoning status of the property? Residential (R-<10HS).

Is the use of the property likely to change in the next 20 years? Yes/No

Property Surrounding Source Area of Release

1. What is the distance from the ust excavation to the nearest primary or secondary residence (permanent or temporary).

100' to single-family home.

2. What is the distance to the nearest school, daycare center, hospital, playground park, recreation area, church, nursing home, or other place of assembly?

700' to South Central Church of Christ

3. What is the zoning status of properties in the surrounding area?

Residential.

4. Briefly characterize the use and activities of the land and surrounding area. The surrounding area is located in a residential subdivision in southeast Raleigh, North Carolina in an urban environment.

3. Receptor Information

- 1. No wells are known to be located within a 1000 foot radius of the subject property.
- 2. The City of Raleigh utilizes three (3) surface water supply sources; Falls Lake, Lake Wheeler and Lake Benson. All three reservoirs are located outside of the City limits.
- 3. The closest body of water to the subject property is an unnamed tributary to Walnut Creek located 50 feet to the northwest of the subject property.
- 4. The subject property is not located in a wellhead protection area.
- 5. The subject property is not located in the Costal Plain Physiographic Region
- 6. Subsurface structures include: natural gas lines, sewer, and City of Raleigh water line are located on site. These utilities are indicated on the site location map attached.

4. Site Geology and Hydrogeology

According to the 1985 Geologic Map of North Carolina, the subject property is illustrated within the Inner Piedmont, Milton Belt, and Raleigh Belt in the Piedmont Physiographic Province of North Carolina. The formation consists of metamorphosed gneiss, schist and amphibolite. Locally ground water flow is inferred to the northwest towards the unnamed tributary to Walnut Creek.

5. Sampling Results

Protocol Sampling Service, Inc. personnel visited the subject property and located subsurface structures and utilities. After utility clearance, the UST was removed and soil samples were collected from the excavation at the UST midline at 3-feet at each cardinal direction and ground water samples were taken from a temporary Type II monitor well installed in the center of the tank pit by following EPA protocol, placed in laboratory

supplied bottles, packed on ice, and transported under chain of custody to Pace Laboratories, 12065 Lebanon Road, Mt. Juliet, Tennessee (NC Certification # 375).

The soil samples were submitted for analysis by method 8015-GRO and DRO. Results of the laboratory analysis revealed below action or detectable limits for all four sidewall samples. A groundwater sample was collected from a temporary Type II monitor well installed in the center of the UST pit and analyzed by EPA Methods 602, 625 w/ten peaks, MADEP VPH ad MADEP EPH.

Sample Identification	Test Result	Depth	Action Limit
SS #1	ND	3'	50 mg/kg 100 mg/kg
SS # 2	ND	3'	50 mg/kg 100 mg/kg
SS # 3	ND	3'	50 mg/kg 100 mg/kg
SS # 4	ND	3'	50 mg/kg 100 mg/kg
MW-1 602, 625 w/10 peaks, EPH and VPH	C11-C22 Aromatics 375 ug/l	4'	15A NCAC 2L and Gross Contamination Levels 200 ug/l standard

6. Conclusions and Recommendations

A 275-gallon heating oil UST was removed by Corbett Clearing & Demolition under contract with The City of Raleigh supervised by David E. Meyer, P.G. with Protocol Sampling Service, Inc. on June 1, 2023 at 514 Glenbrook Drive, Raleigh, Wake County, North Carolina.

Soil sample results obtained after removal of the No. 2 fuel oil UST indicate no levels above the Maximum Soil Contaminant Concentrations (MSCC). Only one exceedance of 15A NCAC 2L Groundwater Standards or Gross Contaminant Levels of 375 ug/l of C11-C22 Aromatics, slightly above the standard of 200 ug/l. 46.09 tons of petroleum impacted soil was removed from the excavation and taken to Pridgen Farms in Whitackers, North Carolina for disposal.

395 gallons of mostly water and some product was removed from the UST by SR&R Environmental, Inc. and taken to their Wilmington, NC facility for disposal prior to the commencement of excavation activities. The UST was submitted as scrap metal for recycling. Since soil sample analyses were below Maximum Soil Contaminant Concentrations (MSCC), and only 375 ug/l of C11-C22 Aromatics were detected in the groundwater sample slightly above the 15A NCAC 2L Groundwater Standards and Gross Contaminant Levels of 200 ug/l, no further action is requested for this property.

Signature of Professional Engineer or Licensed Geologist**

I, <u>David E. Meyer</u>, a Licensed Geologist for <u>Protocol Sampling Service</u>, <u>Inc.</u> do certify that the information contained in this report is correct and accurate to the best of my knowledge.

Protocol Sampling Service, Inc. is licensed to practice geology in North Carolina.

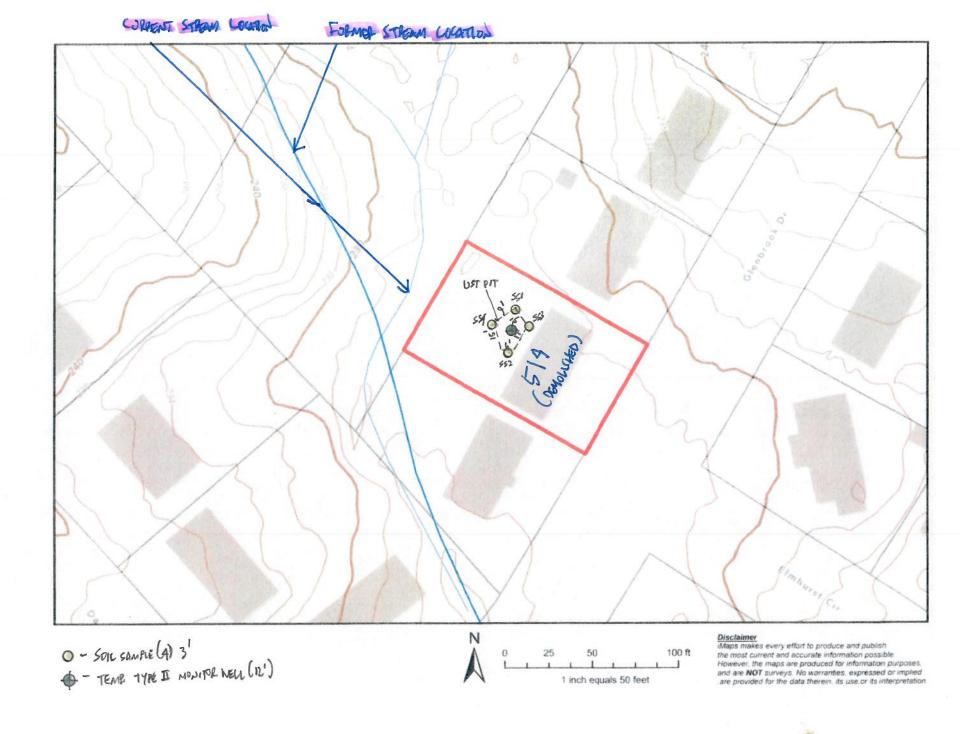
If you have any questions concerning this information or require further assistance, do not hesitate to contact our office (919) 210-6547 or via e-mail at protocolsampling@yahoo.com.

Sincerely, Protocol Sampling Service, Inc.



David E. Meyer, P.G. President

Professional Geologist License # 2628 NC Corporate Geologist License # C-569



Appendix A

Complete Chain-of-Custody

Billing Info	Billing Information:					Analysis / Container / Preservative								Chain of Custody Page of			
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Dave Meyer			protocolsampling@yahoo.com														Mount Juliet, TM Phone: 615-758	-5858	S2.2 [4]
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Appendix B

Soil and Groundwater Analytical Results



Pace Analytical® ANALYTICAL REPORT June 12, 2023

Protocol Sampling Services, Inc.

Sample Delivery Group: Samples Received: Project Number:

L1622658 06/03/2023

Report To:

Description:

Mr. David Meyer 4114 Laurel Ridge Dr Raleigh, NC 27612-5423

Entire Report Reviewed By:

Afanhillage

Heather J Wagner 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

ACCOUNT: Protocol Sampling Services, Inc.

SDG: L1622658

DATE/TIME. 06/12/23 16:21 PAGE: 1 of 16

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514 GLENBROOK SOUTH L1622658-02	6
514 GLENBROOK EAST L1622658-03	7
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SAMPLE SUMMARY

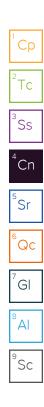
514 GLENBROOK NORTH L1622658-01 Solid			Collected by	Collected date/time 06/01/23 14:08	e Received dat 06/03/23 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2071830	1	06/06/23 10:20	06/06/23 10:41	СМК	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2074314	64	06/01/23 14:08	06/09/23 20:52	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG2072113	1	06/06/23 21:48	06/07/23 11:16	KAP	Mt. Juliet, TN
514 GLENBROOK SOUTH L1622658-02 Solid			Collected by	Collected date/time 06/01/23 14:12	e Received dat 06/03/23 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2071830	1	06/06/23 10:20	06/06/23 10:41	СМК	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2074314	47.3	06/01/23 14:12	06/09/23 21:17	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG2072113	1	06/06/23 21:48	06/07/23 11:29	KAP	Mt. Juliet, TN
514 GLENBROOK EAST L1622658-03 Solid			Collected by	Collected date/time 06/01/23 14:15	e Received dat 06/03/23 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2071830	1	06/06/23 10:20	06/06/23 10:41	СМК	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2074314	57.8	06/01/23 14:15	06/09/23 21:41	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG2072113	1	06/06/23 21:48	06/07/23 09:51	KAP	Mt. Juliet, TN
514 GLENBROOK WEST L1622658-04 Solid			Collected by	Collected date/time 06/01/23 14:20	e Received dat 06/03/23 09	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2071830	1	06/06/23 10:20	06/06/23 10:41	СМК	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2074314	54.5	06/01/23 14:20	06/09/23 22:06	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015C	WG2072113	1	06/06/23 21:48	06/07/23 10:05	KAP	Mt. Juliet, TN

SDG: L1622658

CASE NARRATIVE

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

Heather J Wagner Project Manager



514 GLENBROOK NORTH Collected date/time: 06/01/23 14:08

SAMPLE RESULTS - 01 L1622658

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср	
Analyte	%			date / time		2	1
Total Solids	88.0		1	06/06/2023 10:41	WG2071830	Tc	l

Volatile Organic Compounds (GC) by Method 8015D/GRO

Volatile Organic Compounds (GC) by Method 8015D/GRO										
	Result	Qualifier	RDL	Dilution	Analysis	Batch				
Analyte	mg/kg		mg/kg		date / time			4 Cn		
TPH (GC/FID) Low Fraction	ND		6.40	64	06/09/2023 20:52	WG2074314		CII		
(S) a,a,a-Trifluorotoluene(FID)	99.6		77.0-120		06/09/2023 20:52	WG2074314		5		

Semi-Volatile Organic Compounds (GC) by Method 8015C

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
TPH (GC/FID) High Fraction	ND		4.00	1	06/07/2023 11:16	<u>WG2072113</u>
(S) o-Terphenyl	72.5		18.0-148		06/07/2023 11:16	WG2072113

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514 GLENBROOK SOUTH Collected date/time: 06/01/23 14:12

SAMPLE RESULTS - 02

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	 Ср	
Analyte	%			date / time		2	ì
Total Solids	83.5		1	06/06/2023 10:41	WG2071830	Tc	

Volatile Organic Compounds (GC) by Method 8015D/GRO

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg		date / time		⁴ Cn
TPH (GC/FID) Low Fraction	ND		4.73	47.3	06/09/2023 21:17	WG2074314	CII
(S) a,a,a-Trifluorotoluene(FID)	99.6		77.0-120		06/09/2023 21:17	WG2074314	5

Semi-Volatile Organic Compounds (GC) by Method 8015C

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
TPH (GC/FID) High Fraction	ND		4.00	1	06/07/2023 11:29	<u>WG2072113</u>
(S) o-Terphenyl	45.6		18.0-148		06/07/2023 11:29	WG2072113

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514 GLENBROOK EAST Collected date/time: 06/01/23 14:15

SAMPLE RESULTS - 03 L1622658

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	Ср
Analyte	%			date / time		2
Total Solids	77.2		1	06/06/2023 10:41	WG2071830	ЪС

Volatile Organic Compounds (GC) by Method 8015D/GRO

Volatile Organic Comp	oounds (GC	C) by Meth	od 8015D	/GRO			³Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg		date / time		4 Cn
TPH (GC/FID) Low Fraction	ND		5.78	57.8	06/09/2023 21:41	WG2074314	CII
(S) a,a,a-Trifluorotoluene(FID)	98.4		77.0-120		06/09/2023 21:41	WG2074314	5

Semi-Volatile Organic Compounds (GC) by Method 8015C

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
TPH (GC/FID) High Fraction	ND		4.00	1	06/07/2023 09:51	WG2072113
(S) o-Terphenyl	54.8		18.0-148		06/07/2023 09:51	<u>WG2072113</u>

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514 GLENBROOK WEST Collected date/time: 06/01/23 14:20

SAMPLE RESULTS - 04 L1622658

Total Solids by Method 2540 G-2011

	Result	Qualifier	Dilution	Analysis	Batch	-	Ср
Analyte	%			date / time		2	
Total Solids	78.6		1	06/06/2023 10:41	WG2071830		Тс

Volatile Organic Compounds (GC) by Method 8015D/GRO

Volatile Organic Comp	oounds (GC	C) by Meth	od 8015D,	/GRO			³ Ss
	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/kg		mg/kg		date / time		4 Cn
TPH (GC/FID) Low Fraction	ND		5.45	54.5	06/09/2023 22:06	WG2074314	CII
(S) a,a,a-Trifluorotoluene(FID)	99.6		77.0-120		06/09/2023 22:06	WG2074314	5

Semi-Volatile Organic Compounds (GC) by Method 8015C

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
TPH (GC/FID) High Fraction	ND		4.00	1	06/07/2023 10:05	WG2072113
(S) o-Terphenyl	58.0		18.0-148		06/07/2023 10:05	<u>WG2072113</u>

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WG2071830

Total Solids by Method 2540 G-2011

QUALITY CONTROL SUMMARY L1622658-01,02,03,04

Method Blank (MB)

Method Blan	(IVIB)				1 CD
(MB) R3933604-1	06/06/23 10:41				Ср
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	%		%	%	Tc
Total Solids	0.00200				
					³ Ss

L1622658-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1622658-02 0	6/06/23 10:41 • (D	UP) R3933604-	.3 06/06/2	.3 10:41		
	Original Resu	ult DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	83.5	82.5	1	1.19		10

Laboratory Control Sample (LCS)

(LCS) R3933604-2 06	(LCS) R3933604-2 06/06/23 10:41							
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier			
Analyte	%	%	%	%				
Total Solids	50.0	50.0	100	85.0-115				

DATE/TIME: 06/12/23 16:21 ⁺Cn

Sr

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WG2074314

Volatile Organic Compounds (GC) by Method 8015D/GRO

QUALITY CONTROL SUMMARY L1622658-01,02,03,04

Method Blank (MB)

Method Blank (MB))				1 Cp
(MB) R3935634-2 06/09/	/23 17:25				Ср
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	mg/kg		mg/kg	mg/kg	Тс
TPH (GC/FID) Low Fraction	1.42	J	0.543	2.50	
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120	³ Ss

Laboratory Control Sample (LCS)

(LCS) R3935634-1 06/09	/23 16:12				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.09	92.5	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			108	77.0-120	

L1622658-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1622658-01 06/09/	23 20:52 • (MS) R3935634-3	06/10/23 02:11	• (MSD) R3935	5634-4 06/10/2	23 02:35						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
TPH (GC/FID) Low Fraction	352	ND	397	417	113	118	64	10.0-151			4.91	28
(S) a,a,a-Trifluorotoluene(FID)					102	103		77.0-120				

DATE/TIME: 06/12/23 16:21 ⁺Cn

Sr

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WG2072113

Semi-Volatile Organic Compounds (GC) by Method 8015C

QUALITY CONTROL SUMMARY L1622658-01,02,03,04

Method Blank (MB)

Method Blank (MB)				1			
(MB) R3933920-1 06/07/23 08:33								
	MB Result	MB Qualifier	MB MDL	MB RDL	- 			
Analyte	mg/kg		mg/kg	mg/kg				
TPH (GC/FID) High Fraction	U		0.769	4.00				
(S) o-Terphenyl	77.5			18.0-148				

Laboratory Control Sample (LCS)

(LCS) R3933920-2 06/07	S) R3933920-2 06/07/23 08:46							
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier			
Analyte	mg/kg	mg/kg	%	%				
TPH (GC/FID) High Fraction	50.0	38.1	76.2	50.0-150				
(S) o-Terphenyl			90.1	18.0-148				

DATE/TIME: 06/12/23 16:21 ⁺Cn

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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

J

The identification of the analyte is acceptable; the reported value is an estimate.

SDG: L1622658 Τс

Ss

Cn

Sr

Qc

GI

AI

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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ¹⁴	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.

¹Cp ²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc

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		47	Client Project	#	Lab Project #						lou	and						
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1							Caleb	19	rep			10	312	3 09:05	1 250 45			

Heather Wagner

From:	David Meyer <protocolsampling@yahoo.com></protocolsampling@yahoo.com>
Sent:	Monday, June 5, 2023 6:55 AM
То:	Heather Wagner
Subject:	Re: Pace Analytical National Login for L1622658

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe. Heather;

Please run VPH if the TPH is over 50 ppm. The address is 514 Glenbrook Drive not S14!

David E. Meyer, P.G., LSS, President Protocol Sampling Service, Inc. 4114 Laurel Ridge Drive Raleigh, North Carolina 27612 Email: <u>Protocolsampling@yahoo.com</u> Website: Environmentalservicesnc.com (919) 210-6547 cell

On Sunday, June 4, 2023 at 02:57:43 AM EDT, Heather J Wagner https://www.enable.com wrote:

"Privileged and Confidential"

Thank you for choosing Pace National! Please find enclosed PDF files containing your laboratory login confirmation and chain of custody.

Pace National is leading the laboratory industry with our On-line Data Management tools. Please contact your Project Manager to learn how to create historical Excel tables or access data in real time using powerful and intuitive software that is only available at <u>https://www.pacenational.com</u>.

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Heather J Wagner Technical Service Representative 615-773-9686

Pace Analytical National

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Pace Analytical® ANALYTICAL REPORT June 21, 2023

L1624219

Protocol Sampling Services, Inc.

Sample Delivery Group: Samples Received: Project Number:

06/08/2023

Description:

514 Glenbrook Drive

Report To:

Mr. David Meyer 4114 Laurel Ridge Dr Raleigh, NC 27612-5423

Entire Report Reviewed By:

Afanhillage

Heather J Wagner 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

ACCOUNT: Protocol Sampling Services, Inc.

SDG: L1624219

DATE/TIME: 06/21/23 13:32 PAGE: 1 of 17

Тс Ss Cn Śr ʹQc Gl A Sc

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Cn: Case Narrative	4
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SAMPLE SUMMARY

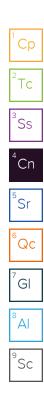
			Collected by	Collected date/time	Received da	te/time
MW1 L1624219-01 GW	David Meyer	06/07/23 06:45	06/08/23 09	:00		
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Volatile Petroleum Hydrocarbons by Method MADEPV	WG2079486	1	06/20/23 21:52	06/20/23 21:52	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 602MS	WG2076917	1	06/13/23 21:49	06/13/23 21:49	ACG	Mt. Juliet, TN
TPH by Method MADEPE	WG2078200	1	06/15/23 03:12	06/16/23 15:53	DMG	Mt. Juliet, TN
TPH by Method MADEPE	WG2078200	1	06/15/23 03:12	06/18/23 04:43	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG2075340	1	06/14/23 07:35	06/15/23 00:01	AED	Mt. Juliet, TN



CASE NARRATIVE

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

Heather J Wagner Project Manager



Collected date/time: 06/07/23 06:45

SAMPLE RESULTS - 01 L1624219

Volatile Petroleum Hydrocarbons by Method MADEPV

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l		date / time	—	L. F
Unadjusted C5-C8 Aliphatics	ND		100	1	06/20/2023 21:52	WG2079486	
Unadjusted C9-C12 Aliphatics	124		100	1	06/20/2023 21:52	<u>WG2079486</u>	
Unadjusted C9-C10 Aromatics	237		100	1	06/20/2023 21:52	WG2079486	1
Total VPH	361		100	1	06/20/2023 21:52	WG2079486	
(S) 2,5-Dibromotoluene(FID)	110		70.0-130		06/20/2023 21:52	WG2079486	Г
(S) 2,5-Dibromotoluene(PID)	107		70.0-130		06/20/2023 21:52	WG2079486	

Volatile Organic Compounds (GC/MS) by Method 602MS

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l		date / time		
Benzene	ND		1.00	1	06/13/2023 21:49	WG2076917	
Toluene	ND		1.00	1	06/13/2023 21:49	WG2076917	
Ethylbenzene	ND		1.00	1	06/13/2023 21:49	WG2076917	
Total Xylenes	ND		3.00	1	06/13/2023 21:49	WG2076917	
Methyl tert-butyl ether	ND		1.00	1	06/13/2023 21:49	WG2076917	
Di-isopropyl ether	ND		1.00	1	06/13/2023 21:49	WG2076917	
(S) Toluene-d8	108		80.0-120		06/13/2023 21:49	WG2076917	
(S) 4-Bromofluorobenzene	94.0		77.0-126		06/13/2023 21:49	WG2076917	
(S) 1,2-Dichloroethane-d4	124		70.0-130		06/13/2023 21:49	WG2076917	

TPH by Method MADEPE

Result	Qualifier	RDL	Dilution	Analysis	Batch
ug/l		ug/l		date / time	
ND		100	1	06/18/2023 04:43	<u>WG2078200</u>
ND		100	1	06/18/2023 04:43	<u>WG2078200</u>
375		100	1	06/16/2023 15:53	WG2078200
476		100	1	06/16/2023 15:53	<u>WG2078200</u>
50.8		40.0-140		06/16/2023 15:53	<u>WG2078200</u>
34.9	<u>J2</u>	40.0-140		06/18/2023 04:43	<u>WG2078200</u>
83.2		40.0-140		06/16/2023 15:53	<u>WG2078200</u>
82.0		40.0-140		06/16/2023 15:53	WG2078200
	ug/l ND ND 375 476 50.8 34.9 83.2	ug/l ND ND 375 476 50.8 34.9 J2 83.2	ug/l ug/l ND 100 ND 100 375 100 476 100 50.8 40.0-140 34.9 J2 40.0-140 83.2 40.0-140 100	ug/l ug/l ND 100 1 ND 100 1 375 100 1 476 100 1 50.8 40.0-140 1 34.9 J2 40.0-140 83.2 40.0-140 1	ug/l ug/l date / time ND 100 1 06/18/2023 04:43 ND 100 1 06/18/2023 04:43 375 100 1 06/18/2023 04:43 375 100 1 06/16/2023 15:53 476 100 1 06/16/2023 15:53 50.8 40.0-140 06/16/2023 15:53 34.9 J2 40.0-140 06/18/2023 04:43 83.2 40.0-140 06/16/2023 15:53

Sample Narrative:

L1624219-01 WG2078200: Surrogate failure due to matrix interference during extraction procedure.

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	ug/l		ug/l		date / time		
Acenaphthene	2.16	<u>J4</u>	1.00	1	06/15/2023 00:01	WG2075340	
Acenaphthylene	ND		1.00	1	06/15/2023 00:01	<u>WG2075340</u>	
Anthracene	ND		1.00	1	06/15/2023 00:01	<u>WG2075340</u>	
Benzidine	ND		10.0	1	06/15/2023 00:01	<u>WG2075340</u>	
Benzo(a)anthracene	ND		1.00	1	06/15/2023 00:01	WG2075340	
Benzo(b)fluoranthene	ND		1.00	1	06/15/2023 00:01	WG2075340	
Benzo(k)fluoranthene	ND		1.00	1	06/15/2023 00:01	WG2075340	
Benzo(g,h,i)perylene	ND		1.00	1	06/15/2023 00:01	WG2075340	
Benzo(a)pyrene	ND		1.00	1	06/15/2023 00:01	WG2075340	
Bis(2-chlorethoxy)methane	ND		10.0	1	06/15/2023 00:01	WG2075340	
Bis(2-chloroethyl)ether	ND	<u>J4</u>	10.0	1	06/15/2023 00:01	WG2075340	
2,2-Oxybis(1-Chloropropane)	ND	<u>J4</u>	10.0	1	06/15/2023 00:01	WG2075340	
4-Bromophenyl-phenylether	ND	J4	10.0	1	06/15/2023 00:01	WG2075340	
2-Chloronaphthalene	ND	<u>J3 J4</u>	1.00	1	06/15/2023 00:01	WG2075340	
4-Chlorophenyl-phenylether	ND		10.0	1	06/15/2023 00:01	WG2075340	
Chrysene	ND		1.00	1	06/15/2023 00:01	WG2075340	
ACCOUNT:			F	PROJECT:	SDG:	DATE/TIME:	PAGE

Protocol Sampling Services, Inc.

L1624219

06/21/23 13:32

GE: 5 of 17 Sr

MW1

Collected date/time: 06/07/23 06:45

SAMPLE RESULTS - 01

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

	Result	Qualifier	RDL	Dilution	Analysis	Batch	Ср
Analyte	ug/l		ug/l		date / time		
Dibenz(a,h)anthracene	ND		1.00	1	06/15/2023 00:01	WG2075340	² Tc
3,3-Dichlorobenzidine	ND		10.0	1	06/15/2023 00:01	WG2075340	
2,4-Dinitrotoluene	ND		10.0	1	06/15/2023 00:01	WG2075340	3
2,6-Dinitrotoluene	ND		10.0	1	06/15/2023 00:01	WG2075340	ິSs
Fluoranthene	ND		1.00	1	06/15/2023 00:01	WG2075340	
Fluorene	3.07	<u>J4</u>	1.00	1	06/15/2023 00:01	WG2075340	⁴ Cn
Hexachlorobenzene	ND	_	1.00	1	06/15/2023 00:01	WG2075340	
Hexachloro-1,3-butadiene	ND		10.0	1	06/15/2023 00:01	WG2075340	5
Hexachlorocyclopentadiene	ND	<u>J3</u>	10.0	1	06/15/2023 00:01	WG2075340	°Sr
Hexachloroethane	ND	<u>J3</u> <u>J4</u>	10.0	1	06/15/2023 00:01	WG2075340	
Indeno(1,2,3-cd)pyrene	ND	_	1.00	1	06/15/2023 00:01	WG2075340	⁶ Qc
Isophorone	ND		10.0	1	06/15/2023 00:01	WG2075340	
Naphthalene	1.02		1.00	1	06/15/2023 00:01	WG2075340	7
Nitrobenzene	ND	<u>J4</u>	10.0	1	06/15/2023 00:01	WG2075340	GI
n-Nitrosodimethylamine	ND	_	10.0	1	06/15/2023 00:01	WG2075340	
n-Nitrosodiphenylamine	ND	<u>J3</u>	10.0	1	06/15/2023 00:01	WG2075340	⁸ Al
n-Nitrosodi-n-propylamine	ND		10.0	1	06/15/2023 00:01	WG2075340	
Phenanthrene	3.92	<u>J4</u>	1.00	1	06/15/2023 00:01	WG2075340	9
Benzylbutyl phthalate	ND	_	3.00	1	06/15/2023 00:01	WG2075340	⁹ Sc
Bis(2-ethylhexyl)phthalate	ND		3.00	1	06/15/2023 00:01	WG2075340	
Di-n-butyl phthalate	ND		3.00	1	06/15/2023 00:01	WG2075340	
Diethyl phthalate	ND		3.00	1	06/15/2023 00:01	WG2075340	
Dimethyl phthalate	ND		3.00	1	06/15/2023 00:01	WG2075340	
Di-n-octyl phthalate	ND		3.00	1	06/15/2023 00:01	WG2075340	
Pyrene	ND	<u>J4</u>	1.00	1	06/15/2023 00:01	WG2075340	
1,2,4-Trichlorobenzene	ND	<u>J4</u>	10.0	1	06/15/2023 00:01	WG2075340	
4-Chloro-3-methylphenol	ND		10.0	1	06/15/2023 00:01	WG2075340	
2-Chlorophenol	ND	<u>J4</u>	10.0	1	06/15/2023 00:01	WG2075340	
2,4-Dichlorophenol	ND	<u>J4</u>	10.0	1	06/15/2023 00:01	WG2075340	
2,4-Dimethylphenol	ND	<u>J4</u>	10.0	1	06/15/2023 00:01	WG2075340	
4,6-Dinitro-2-methylphenol	ND		10.0	1	06/15/2023 00:01	WG2075340	
2,4-Dinitrophenol	ND		10.0	1	06/15/2023 00:01	WG2075340	
2-Nitrophenol	ND		10.0	1	06/15/2023 00:01	WG2075340	
4-Nitrophenol	ND	<u>J4</u>	10.0	1	06/15/2023 00:01	WG2075340	
Pentachlorophenol	ND		10.0	1	06/15/2023 00:01	WG2075340	
Phenol	ND		10.0	1	06/15/2023 00:01	WG2075340	
2,4,6-Trichlorophenol	ND		10.0	1	06/15/2023 00:01	WG2075340	
1,2-Diphenylhydrazine	ND	<u>J3 N2</u>	10.0	1	06/15/2023 00:01	WG2075340	
(S) 2-Fluorophenol	14.7		10.0-120		06/15/2023 00:01	WG2075340	
(S) Phenol-d5	15.1		8.00-424		06/15/2023 00:01	WG2075340	
(S) Nitrobenzene-d5	45.7		15.0-314		06/15/2023 00:01	WG2075340	
(S) 2-Fluorobiphenyl	44.6		22.0-127		06/15/2023 00:01	WG2075340	
(S) 2,4,6-Tribromophenol	58.0		10.0-153		06/15/2023 00:01	WG2075340	
(S) p-Terphenyl-d14	60.2		29.0-141		06/15/2023 00:01	WG2075340	

Sample Narrative:

L1624219-01 WG2075340: Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

Semi Volatile Organic Compounds (GC/MS) by Method 625.1 - TENTATIVELY IDENTIFIED COMPOUNDS

Result	Qualifier	RDL	Dilution	Analysis	Batch	CAS #	RT
ug/l		ug/l		date / time			
26.7	JN	0.000	1	06/15/2023 00:01	WG2075340	000575-37-1	4.66
26.4	JN	0.000	1	06/15/2023 00:01	WG2075340	000108-67-8	2.93
21.5	JN	0.000	1	06/15/2023 00:01	WG2075340	001576-87-0	2.56
21.0	JN	0.000	1	06/15/2023 00:01	WG2075340	000117-81-7	9.80
19.8	<u>J N</u>	0.000	1	06/15/2023 00:01	WG2075340	000581-42-0	4.61
	ug/l 26.7 26.4 21.5 21.0	ug/l 26.7 J N 26.4 J N 21.5 J N 21.0 J N	ug/l ug/l 26.7 J N 0.000 26.4 J N 0.000 21.5 J N 0.000 21.0 J N 0.000	ug/l ug/l 26.7 J N 0.000 1 26.4 J N 0.000 1 21.5 J N 0.000 1 21.0 J N 0.000 1	ug/l ug/l date / time 26.7 J N 0.000 1 06/15/2023 00:01 26.4 J N 0.000 1 06/15/2023 00:01 21.5 J N 0.000 1 06/15/2023 00:01 21.0 J N 0.000 1 06/15/2023 00:01	ug/l ug/l date / time 26.7 J N 0.000 1 06/15/2023 00:01 WG2075340 26.4 J N 0.000 1 06/15/2023 00:01 WG2075340 21.5 J N 0.000 1 06/15/2023 00:01 WG2075340 21.0 J N 0.000 1 06/15/2023 00:01 WG2075340	ug/l ug/l date / time 26.7 J N 0.000 1 06/15/2023 00:01 WG2075340 000575-37-1 26.4 J N 0.000 1 06/15/2023 00:01 WG2075340 000108-67-8 21.5 J N 0.000 1 06/15/2023 00:01 WG2075340 001576-87-0 21.0 J N 0.000 1 06/15/2023 00:01 WG2075340 000117-81-7

ACCOUNT: Protocol Sampling Services, Inc. PROJECT:

SDG: L1624219

DATE/TIME: 06/21/23 13:32 PAGE: 6 of 17

MW1

Collected date/time: 06/07/23 06:45

SAMPLE RESULTS - 01 L1624219

Semi Volatile Organic Compounds (GC/MS) by Method 625.1 - TENTATIVELY IDENTIFIED COMPOUNDS

	Result	Qualifier	RDL	Dilution	Analysis	Batch	CAS #	RT	
Analyte	ug/l		ug/l		date / time				
Unknown-05	13.6	<u>J N</u>	0.000	1	06/15/2023 00:01	WG2075340	000824-22-6	3.60	
Naphthalene, 2,3-Dimethyl-	13.3	JN	0.000	1	06/15/2023 00:01	WG2075340	000581-40-8	4.74	
Cyclohexane, 1-Methyl-2-Propyl-	12.3	JN	0.000	1	06/15/2023 00:01	WG2075340	004291-79-6	2.71	
Unknown-03	9.18	JN	0.000	1	06/15/2023 00:01	WG2075340	016747-31-2	2.69	
Unknown-06	8.69	JN	0.000	1	06/15/2023 00:01	WG2075340	001453-06-1	5.11	

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.



Volatile Petroleum Hydrocarbons by Method MADEPV

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3939348-3 06/20/2	23 13:36				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	ug/l		ug/l	ug/l	
Unadjusted C5-C8 Aliphatics	U		33.3	100	
Unadjusted C9-C12 Aliphatics	U		33.3	100	
Unadjusted C9-C10 Aromatics	U		33.3	100	
Fotal VPH	U		33.3	100	
(S) 2,5-Dibromotoluene(FID)	102			70.0-130	
(S) 2,5-Dibromotoluene(PID)	103			70.0-130	

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

	Sample (L	CS) • Labe		tior Samp							⁶
(LCS) R3939348-1 06/20/	23 11:23 • (LCS	D) R3939348.	-2 06/20/23 11:	56							- QC
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	7
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%	΄GΙ
Unadjusted C5-C8 Aliphatics	1200	1170	1150	97.5	95.8	70.0-130			1.72	25	
Unadjusted C9-C12 Aliphatics	1400	1340	1320	95.7	94.3	70.0-130			1.50	25	8 11
Unadjusted C9-C10 Aromatics	200	206	203	103	102	70.0-130			1.47	25	A
Total VPH	2800	2720	2670	97.1	95.4	70.0-130			1.86	25	9
(S) 2,5-Dibromotoluene(FID)				101	99.8	70.0-130					Sc
(S) 2,5-Dibromotoluene(PID)				105	101	70.0-130					

DATE/TIME: 06/21/23 13:32 Тс

Ss

Cn

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Volatile Organic Compounds (GC/MS) by Method 602MS

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3937253-2 06/13/2	23 17:23			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Benzene	U		0.0941	1.00
Toluene	U		0.278	1.00
Ethylbenzene	U		0.137	1.00
Total Xylenes	U		0.174	3.00
Methyl tert-butyl ether	U		0.101	1.00
Di-isopropyl ether	U		0.105	1.00
(S) Toluene-d8	112			80.0-120
(S) 4-Bromofluorobenzene	92.3			77.0-126
(S) 1,2-Dichloroethane-d4	120			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3937253-1 06/13	3/23 17:04				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	ug/l	ug/l	%	%	
Benzene	5.00	4.84	96.8	70.0-123	
Toluene	5.00	4.60	92.0	79.0-120	
Ethylbenzene	5.00	4.51	90.2	79.0-123	
Total Xylenes	15.0	13.2	88.0	79.0-123	
Methyl tert-butyl ether	5.00	4.11	82.2	68.0-125	
Di-isopropyl ether	5.00	6.27	125	58.0-138	
(S) Toluene-d8			108	80.0-120	
(S) 4-Bromofluorobenzene	1		95.3	77.0-126	
(S) 1,2-Dichloroethane-d4			122	70.0-130	

L1624581-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%	
Benzene	5.00	ND	6.42	6.47	128	129	1	17.0-158			0.776	27	
Toluene	5.00	ND	6.18	6.14	124	123	1	26.0-154			0.649	28	
Ethylbenzene	5.00	ND	5.87	5.92	117	118	1	30.0-155			0.848	27	
Total Xylenes	15.0	ND	17.4	17.5	116	117	1	29.0-154			0.573	28	
Methyl tert-butyl ether	5.00	ND	5.26	5.34	105	107	1	28.0-150			1.51	29	
Di-isopropyl ether	5.00	ND	7.99	8.18	160	164	1	21.0-160		<u>J5</u>	2.35	28	
(S) Toluene-d8					107	110		80.0-120					
(S) 4-Bromofluorobenzen	е				95.1	96.5		77.0-126					
(S) 1,2-Dichloroethane-d4	!				122	123		70.0-130					
	ACCOUNT:			PRC	DJECT:			SDG:		DATE/	TIME:		PAGE:
Protocol	ACCOUNT: Sampling Services, I	nc.		PRC	DJECT:			SDG: 624219		DATE/ 06/21/2			

[°]Sr [°]Qc ⁷Gl ⁸Al ⁹Sc

Тс

Ss

Cn

TPH by Method MADEPE

QUALITY CONTROL SUMMARY L1624219-01

Method Blank (MB)

					1
(MB) R3938290-1 06/18/2	3 03:15				
	MB Result	MB Qualifier	MB MDL	MB RDL	2
Analyte	ug/l		ug/l	ug/l	
Unadjusted C9-C18 Aliphatics	44.1	J	33.3	100	
Unadjusted C19-C36 Aliphatics	48.4	Ţ	33.3	100	3
(S) 1-Chloro-octadecane	63.2			40.0-140	

Method Blank (MB)

(MB) R3938349-1 06/16/23	3 12:54			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Unadjusted C11-C22 Aromatics	35.4	J	33.3	100
(S) o-Terphenyl	62.9			40.0-140
(S) 2-Fluorobiphenyl	87.8			40.0-140
(S) 2-Bromonaphthalene	87.8			40.0-140

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

(LCS) R3938290-2 06/18/2	23 03:37 • (LCS	SD) R3938290	0-3 06/18/23 0	3:59							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%	
Unadjusted C9-C18 Aliphatics	600	437	402	72.8	67.0	40.0-140			8.34	25	
Unadjusted C19-C36 Aliphatics	800	655	669	81.9	83.6	40.0-140			2.11	25	
(S) 1-Chloro-octadecane				63.6	62.4	40.0-140					

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

(LCS) R3938349-2 06/16/2	23 13:17 • (LCSE) R3938349-3	8 06/16/23 13:3	9						
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
Unadjusted C11-C22 Aromatics	1700	1140	1110	67.1	65.3	40.0-140			2.67	25
(S) o-Terphenyl				63.1	60.4	40.0-140				
(S) 2-Fluorobiphenyl				80.4	85.8	40.0-140				
(S) 2-Bromonaphthalene				78.3	83.4	40.0-140				

ACCOUNT:
Protocol Sampling Services, Inc.

SDG: L1624219

DATE/TIME: 06/21/23 13:32 ¹Cn

Sr

Qc

GI

Â

Sc

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

QUALITY CONTROL SUMMARY

L1624219-01

Method Blank (MB)

Method Blank (MB)					
(MB) R3937328-3 06/14/2	3 22:56				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	ug/l		ug/l	ug/l	
Acenaphthene	U		0.0886	1.00	
Acenaphthylene	U		0.0921	1.00	
Anthracene	U		0.0804	1.00	
Benzidine	U		3.74	10.0	
Benzo(a)anthracene	U		0.199	1.00	
Benzo(b)fluoranthene	U		0.130	1.00	
Benzo(k)fluoranthene	U		0.120	1.00	
Benzo(g,h,i)perylene	U		0.121	1.00	
enzo(a)pyrene	U		0.0381	1.00	
Bis(2-chlorethoxy)methane	U		0.116	10.0	
Bis(2-chloroethyl)ether	U		0.137	10.0	
2,2-Oxybis(1-Chloropropane)	U		0.210	10.0	
-Bromophenyl-phenylether	U		0.0877	10.0	
-Chloronaphthalene	U		0.0648	1.00	
-Chlorophenyl-phenylether	U		0.0926	10.0	
hrysene	U		0.130	1.00	
ibenz(a,h)anthracene	U		0.0644	1.00	
,3-Dichlorobenzidine	U		0.212	10.0	
2,4-Dinitrotoluene	U		0.0983	10.0	
,6-Dinitrotoluene	U		0.250	10.0	
luoranthene	U		0.102	1.00	
luorene	U		0.0844	1.00	
lexachlorobenzene	U		0.0755	1.00	
lexachloro-1,3-butadiene	U		0.0968	10.0	
lexachlorocyclopentadiene	U		0.0598	10.0	
lexachloroethane	U		0.127	10.0	
ndeno(1,2,3-cd)pyrene	U		0.279	1.00	
sophorone	U		0.143	10.0	
laphthalene	U		0.159	1.00	
litrobenzene	U		0.297	10.0	
-Nitrosodimethylamine	U		0.998	10.0	
-Nitrosodiphenylamine	U		2.37	10.0	
-Nitrosodi-n-propylamine	U		0.261	10.0	
henanthrene	U		0.112	1.00	
enzylbutyl phthalate	U		0.765	3.00	
Bis(2-ethylhexyl)phthalate	U		0.895	3.00	
Pi-n-butyl phthalate	U		0.453	3.00	
Diethyl phthalate	U		0.287	3.00	
Dimethyl phthalate	U		0.260	3.00	
Di-n-octyl phthalate	U		0.932	3.00	

SDG: L1624219

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QUALITY CONTROL SUMMARY

L1624219-01

Τс

Ss

Cn

Sr

Qc

GI

A

Sc

Method Blank (MB)

(MB) R3937328-3 06/14/2	23 22:56			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	ug/l		ug/l	ug/l
Pyrene	U		0.107	1.00
1,2,4-Trichlorobenzene	U		0.0698	10.0
4-Chloro-3-methylphenol	U		0.131	10.0
2-Chlorophenol	U		0.133	10.0
2,4-Dichlorophenol	U		0.102	10.0
2,4-Dimethylphenol	U		0.0636	10.0
4,6-Dinitro-2-methylphenol	U		1.12	10.0
2,4-Dinitrophenol	U		5.93	10.0
2-Nitrophenol	U		0.117	10.0
4-Nitrophenol	U		0.143	10.0
Pentachlorophenol	U		0.313	10.0
Phenol	U		4.33	10.0
2,4,6-Trichlorophenol	U		0.100	10.0
1,2-Diphenylhydrazine	U	<u>N2</u>	0.105	10.0
(S) 2-Fluorophenol	13.6			10.0-120
(S) Phenol-d5	13.2			8.00-424
(S) Nitrobenzene-d5	38.4			15.0-314
(S) 2-Fluorobiphenyl	37.4			22.0-127
(S) 2,4,6-Tribromophenol	46.2			10.0-153
(S) p-Terphenyl-d14	60.1			29.0-141

Method Blank (MB) - TENTATIVELY IDENTIFIED COMPOUNDS

Number of TICs found: 0

Tentatively Identified compounds (TIC) refers to substances not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search routine of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist. Quantitation is accomplished by relative peak area of the TIC compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is 10% or more of that of the nearest internal standard.

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

(LCS) R3937328-1 06	CS) R3937328-1 06/14/23 22:13 • (LCSD) R3937328-2 06/14/23 22:35												
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits			
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%			
Acenaphthene	50.0	22.1	29.0	44.2	58.0	47.0-145	<u>J4</u>		27.0	48			
Acenaphthylene	50.0	21.0	28.5	42.0	57.0	33.0-145			30.3	74			
Anthracene	50.0	26.2	34.3	52.4	68.6	27.0-133			26.8	66			
Benzidine	100	15.4	12.3	15.4	12.3	1.00-120			22.4	36			
ACCOUNT: P				PR	OJECT:		SDG:			DATE/TIME:	PAGE:		
Protocol Sampling Services, Inc.							L16242	19		06/21/23 13:32	12 of 17		

QUALITY CONTROL SUMMARY L1624219-01

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

(I_CS) R3937328-1 06/14/23 22:13 • (I_CSD) R3937328-2 06/14/23 22:35

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%	
Benzo(a)anthracene	50.0	29.2	37.5	58.4	75.0	33.0-143			24.9	53	
Benzo(b)fluoranthene	50.0	27.3	34.4	54.6	68.8	24.0-159			23.0	71	
Benzo(k)fluoranthene	50.0	26.7	33.9	53.4	67.8	11.0-162			23.8	63	
Benzo(g,h,i)perylene	50.0	31.1	38.2	62.2	76.4	1.00-219			20.5	97	
Benzo(a)pyrene	50.0	30.2	37.8	60.4	75.6	17.0-163			22.4	72	
Bis(2-chlorethoxy)methane	50.0	19.2	26.7	38.4	53.4	1.00-219			32.7	54	
Bis(2-chloroethyl)ether	50.0	15.9	21.3	31.8	42.6	33.0-185	<u>J4</u>		29.0	108	
2,2-Oxybis(1-Chloropropane)	50.0	13.7	19.4	27.4	38.8	36.0-166	<u>J4</u>		34.4	76	
4-Bromophenyl-phenylether	50.0	25.4	35.0	50.8	70.0	53.0-127	<u>J4</u>		31.8	43	
2-Chloronaphthalene	50.0	19.1	26.7	38.2	53.4	60.0-120	<u>J4</u>	<u>J3 J4</u>	33.2	24	
4-Chlorophenyl-phenylether	50.0	26.5	33.8	53.0	67.6	25.0-158			24.2	61	
Chrysene	50.0	29.2	36.3	58.4	72.6	17.0-168			21.7	87	
Dibenz(a,h)anthracene	50.0	31.1	39.3	62.2	78.6	1.00-227			23.3	126	
3,3-Dichlorobenzidine	100	55.9	68.1	55.9	68.1	1.00-262			19.7	108	
2,4-Dinitrotoluene	50.0	31.4	39.5	62.8	79.0	39.0-139			22.8	42	
2,6-Dinitrotoluene	50.0	27.7	35.2	55.4	70.4	50.0-158			23.8	48	
Fluoranthene	50.0	31.1	39.8	62.2	79.6	26.0-137			24.5	66	
Fluorene	50.0	24.9	32.6	49.8	65.2	59.0-121	<u>J4</u>		26.8	38	
Hexachlorobenzene	50.0	25.6	34.3	51.2	68.6	1.00-152			29.0	55	
Hexachloro-1,3-butadiene	50.0	16.1	23.3	32.2	46.6	24.0-120			36.5	62	
Hexachlorocyclopentadiene	50.0	10.9	17.8	21.8	35.6	10.0-120		<u>J3</u>	48.1	31	
Hexachloroethane	50.0	11.0	16.1	22.0	32.2	40.0-120	<u>J4</u>	<u>J4</u>	37.6	52	
Indeno(1,2,3-cd)pyrene	50.0	29.3	36.3	58.6	72.6	1.00-171	_	_	21.3	99	
Isophorone	50.0	20.7	27.9	41.4	55.8	21.0-196			29.6	93	
Naphthalene	50.0	14.2	20.9	28.4	41.8	21.0-133			38.2	65	
Nitrobenzene	50.0	17.2	24.5	34.4	49.0	35.0-180	<u>J4</u>		35.0	62	
n-Nitrosodimethylamine	50.0	13.7	19.1	27.4	38.2	10.0-120	_		32.9	34	
n-Nitrosodiphenylamine	50.0	22.0	30.3	44.0	60.6	44.0-120		<u>J3</u>	31.7	21	
n-Nitrosodi-n-propylamine	50.0	18.6	24.8	37.2	49.6	1.00-230		_	28.6	87	
Phenanthrene	50.0	25.9	33.8	51.8	67.6	54.0-120	<u>J4</u>		26.5	39	
Benzylbutyl phthalate	50.0	28.1	35.5	56.2	71.0	1.00-152	_		23.3	60	
Bis(2-ethylhexyl)phthalate	50.0	28.3	36.6	56.6	73.2	8.00-158			25.6	82	
Di-n-butyl phthalate	50.0	30.6	38.4	61.2	76.8	1.00-120			22.6	47	
Diethyl phthalate	50.0	28.6	36.2	57.2	72.4	1.00-120			23.5	100	
Dimethyl phthalate	50.0	27.7	34.7	55.4	69.4	1.00-120			22.4	183	
Di-n-octyl phthalate	50.0	31.3	39.8	62.6	79.6	4.00-146			23.9	69	
Pyrene	50.0	25.4	32.3	50.8	64.6	52.0-120	<u>J4</u>		23.9	49	
1,2,4-Trichlorobenzene	50.0	14.1	20.7	28.2	41.4	44.0-142	<u>J4</u>	<u>J4</u>	37.9	50	
4-Chloro-3-methylphenol	50.0	20.4	28.3	40.8	56.6	22.0-147	_	_	32.4	73	
2-Chlorophenol	50.0	11.0	16.5	22.0	33.0	23.0-134	<u>J4</u>		40.0	61	
A	CCOUNT:			PF	ROJECT:		SDG:			DATE/TIME:	PAGE
										00/01/00 10:00	

Protocol Sampling Services, Inc.

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06/21/23 13:32

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Τс Ss Cn Śr Qc GI ΆI Sc QUALITY CONTROL SUMMARY

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

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

	(LCSD) R3937328-2	

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	ug/l	ug/l	ug/l	%	%	%			%	%
2,4-Dichlorophenol	50.0	16.4	24.3	32.8	48.6	39.0-135	<u>J4</u>		38.8	50
2,4-Dimethylphenol	50.0	13.6	24.3	27.2	48.6	32.0-120	<u>J4</u>		56.5	58
4,6-Dinitro-2-methylphenol	50.0	36.8	48.6	73.6	97.2	1.00-181			27.6	203
2,4-Dinitrophenol	50.0	35.6	43.6	71.2	87.2	1.00-191			20.2	132
2-Nitrophenol	50.0	17.6	26.4	35.2	52.8	29.0-182			40.0	55
4-Nitrophenol	50.0	71.5	94.6	143	189	1.00-132	<u>J4</u>	<u>J4</u>	27.8	131
Pentachlorophenol	50.0	22.2	30.0	44.4	60.0	14.0-176			29.9	86
Phenol	50.0	6.86	10.3	13.7	20.6	5.00-120			40.1	64
2,4,6-Trichlorophenol	50.0	23.8	31.8	47.6	63.6	37.0-144			28.8	58
1,2-Diphenylhydrazine	50.0	27.6	34.8	55.2	69.6	37.0-125	<u>N2</u>	<u>J3 N2</u>	23.1	20
(S) 2-Fluorophenol				11.8	18.0	10.0-120				
(S) Phenol-d5				10.4	16.1	8.00-424				
(S) Nitrobenzene-d5				31.1	44.5	15.0-314				
(S) 2-Fluorobiphenyl				40.4	55.6	22.0-127				
(S) 2,4,6-Tribromophenol				52.5	71.0	10.0-153				
(S) p-Terphenyl-d14				50.8	66.3	29.0-141				

SDG: L1624219 DATE/TIME: 06/21/23 13:32

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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.
RT	Retention Time.
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
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.
Ν	The analyte is tentatively identified and the associated numerical value may not be consistent with the actual concentration present in the sample.
N2	Analyte reported using a calibration and validation based on Azobenzene (CAS 103-33-3). 1,2-Diphenylhydrazine decomposes into Azobenzene during the analysis.

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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
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky ¹⁶	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee ¹⁴	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.

SDG: L1624219 ¹Cp ²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc

Company Name/Address:		Billing Info	ormation:	Analysis / Container / Preservative									Chain of Custody Page of						
Protocol Samplin 4114 Laurel Ridge Dr Raleigh, NC 27612	ng Servic	es													L+A+1	kE s s · c	ESC.	E·S	
Report to: Dave Meyer			Email To:	olsampling@	vahoo.com											12065 Le Mount J	RLAB ebanon Rd uliet, TN 371 515-758-585		
Project Description: 514 busisfe	ok Irive	5	11											Fax: 615	100-767-585 -758-5859		19		
Phone: 919-210-6547 Fax: Client Project #														L#	D	104			
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Collected by (signature):	Next D	Notified) 200% 100% 50% 25%	Email? _	e Results Needed		602	625+ IOTICS	VPH	FUH						Templ Prelog TSR: Cooler	in:			
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	_ of Cntrs		SOL.								Shippe	ed Via:	Sample # (lab	onhu)
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* Matrix: SS - Soil GW - Groundwat	ter WW - WasteW	ater DW - Di	rinking Wate	er OT - Other						рН _		_ Temp							
Remarks:				633	7 224	3	821	3		Flow_		Other			Hold #	ŧ			
Relinquisited by : (Signature) Relinquished by : (Signature)	/	Date:	2023	0830 -	eceived by: (Signa Houng the eceived by: (Signa	the	ref	1/Pc	ece	□ Fe	dEx 49	Courier	·	eived:	Condi		(lab	use only)	
Relinquished by (Signature)		Date:	3	1448 Time: R	eceived for lab by	: (Signa	ature)	1	17	Z.7. Date:	-7.3	Time	e: 96	00		Seal Intact: ecked:	Y NCF:	<u> N V </u> N	A

Appendix C

UST-61 24-Hour Release and UST Reporting Form

UST-61	24-Hour Relea					Contraction of the second s
For Releases This form an under	should be completed and subn ground storage tank (UST) sys	item. This form is re	ction's regiona quired to be s cted release	al office followin ubmitted within	ig a know 24 hours	n or suspected release from of discovery of a known of
(DWM USE ONLY) Incident # Risk (H,I,L,U) Received On Received By Reported by (circle one): Phone, Fax or Report Region		Suspected Contamination? (Y/N) Facility Confirmed GW Contamination? (Y/N) Date Le Confirmed Soil Contamination ?(Y/N) Comm/l			Date Leal) Number k Discovered on-Commercial? regulated?
and the second state of th	brook orive	ENT DESCR	PTION		ik ili kirili ta secara	
Address: GUEN BAD	or opive	County: 💊				KE
City/Town: FAUEL64		ide: 27610	Regional O Raleigh, W	office (circle one ashington, Wiln	e): Ashev nington, V	ille, Mooresville, Fayettevil Winston-Salem
atitude (decimal degrees): Briefly describe suspected or confirm of release, amount of free products	Longitude (decima	al degrees) :			(Obtained by:
of release, amount of free product p SOIL CONTAMINATION (S 300 GALLIONS OP WATER (NTRASSECTED IN TANK COMPLETE LOT HAS	TAINED) NOTICEO O PUMICO FOM UST	PRIOR TO PER REAM WITHIN	temoual is noval. 1 50' of	I SHILL WA		Topographic map GIS Address matching Other Unknown Describe location:
Release Detection Equipment or During UST Closure/Removal Property Transfer	Wai Wai	(Check one) ual/Odor ter in Tank ter Supply Well Con			Surface	dwater Contamination e Water Contamination specify)
Course of Data		OF CONTAN	INATION			
Source of Release (Check primary source)	Cause of Release (Check primary cause)	The second se		(Check primary product type releation Gasoline/ Diesel/ Diesel/Ve Kerosene Blend Heating Oil Vegetable Other Petroleum E10 – E20 Products E21 – E84 Metals E85 – E95 Other Inorganics Ethanol 10		
Tank Piping Dispenser Submersible Turbine Pump Delivery Problem Spill Bucket Other Unknown Definitions presented on reverse	Spill Overfill Corrosion Physical/Mechanical Damage Install Problem Other Unknown Definitions presented on rev	Both Loca (Check Facility	etroleum tion cone)			 □ Diesel/Veg. Oil Blend □ Vegetable Oil 100% □ E10 - E20 □ E21 - E84 □ E85 - E99 □ Ethanol 100% □ E01 - E09
Municipal 2. Military 3. Unkno	wn 4. Private 5. Federal (Residential) 4. Education/R	6. County 7. State		al 7 Mining		

	IMPACT ON DRINK	ING WATER SUPP	LIES
Water Supply Wells Affected? 1 Number of Water Supply Wells Affected	. Yes 📀 No 3. Uni	nown	
Water Supply Wells Contaminated: (/ 1. 2. 3.	nclude Users Names, Addresses and	d Phone Numbers. Attach a	dditional sheet if necessary)
UST Owner/Company	UST SYST OF FALEIDH	TEM OWNER	of Contact MF. TOOD PALL
TOPD. PALL @ Paue	abync.boy	Address	NET HARLETI STROET
PAUGIGH	State	Zip Code 2760	Telephone Number (984) 344 - 3102
ST Operator/Company	UST SYSTE	M OPERATOR	1013211 210
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erson Reporting Incident Phulo ME/2		why service when	Telephone Number (7) 210-6
ST Form 61 (02/19)	Address And which Prot	e oral productor ?	Date 6 2 2023

Definitions of Sources

Tank: means the tank that stores the product and is part of the underground storage tank system

means the piping and connectors running from the tank or submersible turbine pump to the dispenser or other end-use equipment (Vent, vapor recovery, or fill Piping: lines are excluded.)

Dispenser: includes the dispenser and the equipment used to connect the dispenser to the piping (e.g., a release from a suction pump or from components located above the shear valve) Submersible Turbine Pump (STP) Area

includes the submersible turbine pump head (typically located in the tank sump), the line leak detector, and the piping that connects the submersible turbine pump to the tank

Delivery Problem: identifies releases that occurred during product delivery to the tank. (Typical causes associated with this source are spills and overfills.)

serves as the option to use when the release source is known but does not fit into one of the preceding categories (e.g., for releases from vent lines, vapor recovery lines, and fill lines) Unknown: identifies releases for which the source has not been determined

Definitions of Causes

use this cause when a spill occurs (e.g., when the delivery hose is disconnected from the tank fill pipe or when the nozzle is removed from the dispenser) Spill: Overfill: use when an overfill occurs (e.g., overfills may occur from the fill pipe at the tank or when the nozzle fails to shut off at the dispenser) Physical or Mechanical Damage: use for all types of physical or mechanical damage, except corrosion (e.g., puncture of tank or piping, loose fittings, broken

components, and components that have changed dimension) Corrosion: use when a metal tank, piping, or other component has a release due to corrosion (e.g., for steel, corrosion takes the form of rust) Installation Problem: use when the problem is determined to have occurred specifically because the UST system was not installed properly use this option when the cause is known but does not fit into one of the preceding categories (e.g., putting regulated substances into monitoring wells)

Unknown: use when the cause has not been determined

Appendix D

UST Contents Disposal Manifest Soil Disposal Manifest

n phái (Vige) I daschut fornata (n enn 17 panni fig	evenue.								
NON-HAZARDOUS 1. Gener WASTE MANIFEST	ator ID Number		2. Page 1 of 3	Emergency Response	e Phone	4. Waste T	racking Nur	nber	
5. Generator's Name and Mailing Address		Clearing 6	Demolo	ienetalor's Sile Addres	s (il dillerent)				
	126 E W	La		514 Gle					
Generator's Phone:		0, NC 2753	14 1	Raleigh	, NC :	27610			
5. Transporter 1 Company Name	tal. Inc.					U.S. EPA ID	Number		
7. Transporter 2 Company Name						_		6618	
A stanoportor z company traine						U.S. EPA ID	Number		
 Designated Facility Name and Site Add 	ress SRAR	Environme	mtal, 1	ne.		U.S. EPA ID	Number		
		US Highwa	y 421 N	1					
acility's Phone:	757 Wilm:	ington, NC	28401			NCO	00092	6638	
9. Waste Shipping Name and Desc	rintion			10. Conta	ainers	11. Total	12. Unit		
1.	iption			No.	Туре	Quantity	Wt./Vol.		
						3450	2		
Non-Haz Non	-Reg Mat'l	(Diseel Fu	el/Wate	(x) 001	TT	690	0		
2			and the second			1345			
						(STA)			
3.						- COR			
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 Special Handling Instructions and Addition 	tional Information								
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Pridgen Farms, Inc. 8549 Mill Branch Road • Rocky Mount, NC 27803 Phone: (252) 443-4083 • Fax: (252) 443-4104

NON-HAZARDOUS WASTE MANIFEST

APPROVAL#

LOAD #____/

<u>GENERATOR</u> City of Raleigh 514 Glenbrook Dr. Raleigh N.C.

DESTINATION

Land Application Facility Permit No. SR0500106 Speights Chapel Road Whitakers, NC 27891

PHONE:

PHONE: (252) 443-4083

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

WASTE ORIGINATION:

Transporter: Alan F Rubio 5. Truck #: _CCD - 2 Truck Tag #/State: _

Driver Name (Print): alah & Rubio 8.

Gross Weight (lbs.): _	70840	
Tare Weight (lbs.):	27560	
Net Weight (lbs.):	43280	
Net Weight (tons):	21.64	

I hereby certify that the material stated herein was received at the waste origination site listed.

Rubio 5. **Driver Signature**

I hereby certify that the material stated herein was delivered without incident to the destination listed.

RUDIO J. 6-1-**Driver Signature**

Inspected and Accepted By: ____

Pil

NOTICE TO TRANSPORTER

TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT THIS ENTRANCE TICKET

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - Pridgen Farms, Inc.

	Fg Grain Co., Inc Buyer: Corn • Wheat • Soybean Services: Cotton Storage • Trucking	0277
140 N	5249 Hathaway Street Phone: 252.977.1554 Battleboro, NC 27809 Fax: 252.977.1555	
	NAME Central East Services	
	ADDRESS Content	
	DRIVER ON OFF	
SCALE ID 4	WEIGHED BY	
	LOAD OF	
	Alan F Rubios.	

Pridgen Farms, Inc. 8549 Mill Branch Road • Rocky Mount, NC 27803 Phone: (252) 443-4083 • Fax: (252) 443-4104

ZARDOUS WASTE MANIFEST NON-HA

APPROVAL#

brook

DESTINATION

Land Application Facility Permit No. SR0500106 **Speights Chapel Road** Whitakers, NC 27891

PHONE:

WASTE DESCRIPTION:

Non-Hazardous Petroleum Contaminated Soil

PHONE: (252) 443-4083

LOAD#

WASTE ORIGINATION:

Gross Weight (lbs.): _	76460
Tare Weight (lbs.):	27560
	48900
Net Weight (tons):	24.45
	Tare Weight (lbs.): Net Weight (lbs.):

I hereby certify that the material stated herein was received at the waste origination site listed.

Driver Signature Date **Driver Signature**

I hereby certify that the material stated herein was delivered without incident to the destination listed.

Date

6-1-23

Inspected and Accepted By:

NOTICE TO TRANSPORTER

TRUCKS WILL NOT BE PERMITTED TO ENTER THE FACILITY WITHOUT THIS ENTRANCE TICKET

WHITE - Invoice

YELLOW - Generator

PINK - Trucker

GOLD - Pridgen Farms, Inc.

ADDRESS	
OP ID 0276 76460 INBOUND 0276 0276 0276 0276 0276 0276 0276 0276	Buyer: Corn • Wheat • Soybean Services: Cotton Storage • Trucking 49 Hathaway Street Phone: 252.977.1554
ADDRESS	ANAT / _ 11 / / 0.00
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- Alan E Ruba S.	LOAD OF
	Alan F Rubio J.

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Appendix E

UST Disposal Manifest