

August 8, 2023



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Environmental Specialist
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Report of Work Completed – Separator Release

COGCC Location Name (ID)	SAVAGE-67S94W/5NWSW (335007)
Operator Location Name	5L
COGCC Remediation Project Number	24100
Legal Description	NWSW Sec. 5 T7S-R94W
Coordinates (Lat/Long)	39.465038 / -107.914348
County	Garfield County, Colorado

Mr. Janicek,

Confluence Compliance Companies, LLC (Confluence) prepared this Report of Work Completed (ROWC) for Caerus Oil & Gas LLC (Caerus) to document remedial investigation activities associated with a recent produced water release at the 5L well pad (Location). The Location is 7.3 miles east of Parachute, Colorado, in Garfield County as illustrated in the attached Topographic Map. Additional information on the Location and the associated remediation project is provided in the title block above, the attached Site Diagrams, and laboratory analytical reports. This ROWC provides background on the Location, methods used to complete the remedial investigation, results of the investigation, and recommendations for how to proceed with this information.

Background

On May 4, 2022, a produced water release was discovered while conducting separator calibration. The line was isolated, and the leak was stopped. The release was confined to the working surface of the pad and was reported in Colorado Oil and Gas Conservation Commission (COGCC) Form 19 Document 403038068. Form 27 Document 403077093 was later submitted to open Spill/Release Point ID 482116.

On May 19, 2022, Confluence coordinated and oversaw initial site investigation activities associated with the recent release at the Location. Using a hydro vacuum truck, the point of release (POR) was exposed and identified as the flowline associated with the westernmost separator. One soil sample was collected from the POR. The soil sample was characterized using visual and olfactory observations and field-screened for volatile organic compounds using a photoionization detector (PID). Six potholes were also advanced using a hydrovac to characterize the extent of olfactory soil impacts in each cardinal direction. A soil sample was collected from the terminus of three of the six potholes: PHW, PHE3, and PHN. A soil sample could not be collected from the southern pothole (PHS) due to the presence of large rocks. Soil samples were not collected from potholes PHE and PHE2 as field screening and characterization indicated potential soil impacts in these areas. A sample was collected from

PHE3 to demonstrate the eastern extent of the observed impacts. Laboratory results of initial characterization sampling exceeded COGCC Table 915-1 Residential Soil Screening Levels for total petroleum hydrocarbons (TPH), xylenes, electrical conductivity (EC), sodium adsorption ratio (SAR), boron, pH, and arsenic. Based on the results of initial site investigation, the COGCC approved a reduced analyte list of TPH, xylenes, EC, SAR, pH, boron, and arsenic via Document 403077093.

From March 9 through March 21, 2023, Confluence oversaw drilling activities to delineate the vertical and horizontal extents of soil impacts. Four soil borings (SB01-SB04) were advanced to total depths ranging from 36 to 86 feet bgs. SB03 and SB04 were completed as soil vapor extraction (SVE) wells. Twenty-one soil samples were collected from the four soil borings. Analytical results of drilling assessment samples exceed COGCC Table 915-1 Residential Soil Screening Levels for TPH, xylenes, SAR, pH, and arsenic.

Methodology

On May 09, 2023, Confluence personnel was onsite at the Location to conduct a pilot test of the SVE wells. A trailer-mounted SVE system was used to apply airflow to SB03 and SB04 prior to collecting two air samples from each well. Airflow was applied at a rate of 30 to 35 standard cubic feet per minute (SCFM) and maintained for 10 minutes prior to collecting an air sample. Airflow was then increased to 50 to 55 SCFM and maintained for an additional 10 minutes prior to collecting a second air sample. Air from the wells was constantly monitored using a photoionization detector (PID), and samples were collected during the period of highest PID measurements when the opposing well was sealed.

All air samples were collected in laboratory provided containers, immediately placed on ice, and shipped under a completed chain-of-custody form to Pace Analytical Services (Pace). Air samples were analyzed for M18-MOD Tedlar analysis.

Results

These results summarize observations from onsite remedial investigation efforts and associated laboratory analytical results. For organizational and presentation purposes, the results summary is divided between general observations of lithology and hydrogeology for the entire Location and site investigation activities.

Collected spatial data are depicted in the attached Site Diagram. Laboratory analytical reports are attached and summarized in the Laboratory Results Summary Table.

Lithology and Hydrogeology

Lithology at the Location is characterized as sand with gravel to sandy clay. Groundwater is expected to flow northeast toward Cache Creek and ultimately to the Colorado River, located 1.8 miles north of the Location. Depth to groundwater at the Location is estimated to be approximately 170 feet below ground surface based on Division of Water Resources (DWR) Permit 320331 located 934 feet northeast of the Location.



Pilot Test Results

Although significant flow rates were achieved from the observation wells, no influence was observed at the nearest adjacent observation wells during the tests. Analytical results of air samples collected from SB03 indicate total petroleum hydrocarbons – gasoline range organics (TPH-GRO) up to 36,900 milligrams per cubic meter (mg/m^3) and benzene up to $1,060 \text{ mg}/\text{m}^3$. Laboratory results of air samples collected from SB04 indicate TPH-GRO up to $15,500 \text{ mg}/\text{m}^3$ and benzene up to $257 \text{ mg}/\text{m}^3$. Complete analytical results are summarized in the attached table.

Analysis and Recommendations

Influence readings were not observed in adjacent wells during the pilot test despite significant flow rates being achieved. This is most likely because SB03 and SB04 are screened at different intervals. SB03 is screened from 56 to 86 feet bgs, and SB04 is screened from 16 to 36 feet bgs. Samples collected from both wells indicate significant concentrations of hydrocarbons at sustained flow rates. Based on these results, it is reasonable to conclude that SVE would be a viable means of hydrocarbon remediation for the release area. Confluence recommends the installation of additional SVE wells screened at different intervals to continue remediation efforts. Based on the depths of observed impacts, a system that cycles through multiple zones targeting specific intervals may be more effective than a system of singular wells with up to 60 feet of screen each. Following horizontal delineation soil impacts, Confluence will prepare a more detailed SVE remediation plan.

Confluence is grateful for the opportunity to support you with this project. If you have any questions about the methods, results or recommendations presented here, please do not hesitate to contact me.

Regards,



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Attachments

- Topographic Location Diagram
- Site Diagram – Site Investigation
- Analytical Results Summary Table – Air
- Laboratory Report



Topographic Location Map

Caerus Oil and Gas LLC

5L

(SAVAGE-67S94W /5NWSW)

COGCC Location ID: 335007

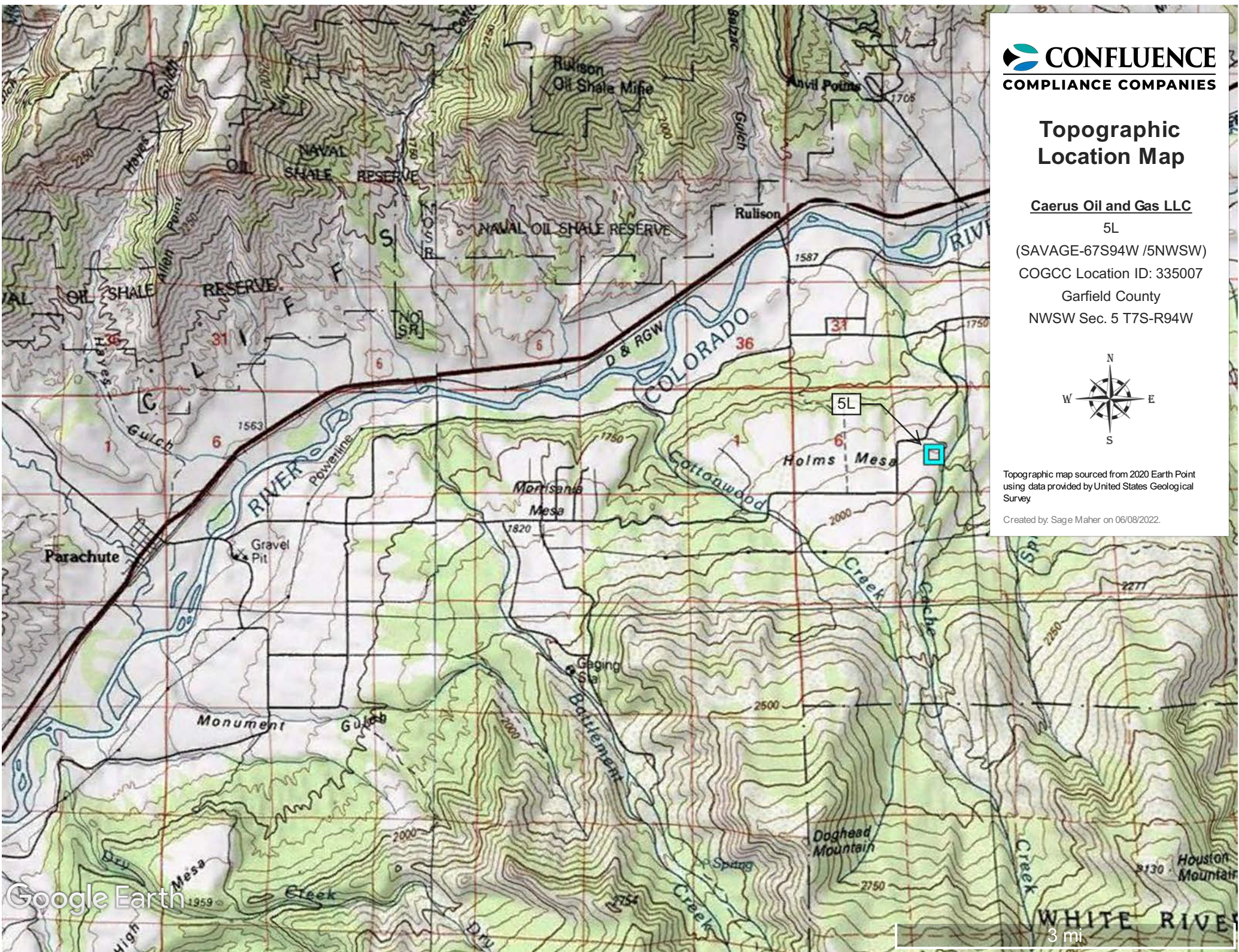
Garfield County

NWSW Sec. 5 T7S-R94W



Topographic map sourced from 2020 Earth Point using data provided by United States Geological Survey.

Created by: Sage Maher on 06/08/2022.



Site Diagram Site Investigation

Caerus Oil and Gas LLC

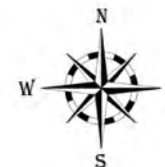
5L

(SAVAGE-67S94W/5NWSW)





COGCC Location ID: 335007

Garfield County

NWSW Sec. 5 T7S-R94W



Legend

-  Soil Sample – 05/19/2022
-  Soil Sample – March 2023
-  SVE Well – March 2023
-  Excavation Extent – 5/19/2022

Spatial data was collected using a handheld GPS unit with submeter accuracy. Illustration discrepancies may be present in this diagram due to the inherent limitations of data accuracy for both project data and the underlying aerial imagery. The position of illustrated data may have been manually adjusted to align with the aerial imagery in a manner more representative of field conditions for presentation purposes only.

Map created by: Miranda Beard on 07/20/2023.



					Organic Compounds							
Sample Date	Solid/Soil Source (Equipment) [Vault/Sump, Separator, Tank Battery, Dump Line, Pit, Cuttings, Background, etc.]	Cleanup Standard (910-1, 915-1 Residential, 915-1 GW Protection)	Depth - Z (feet) (NEGATIVE VALUE) below ground surface (bgs)	Sample ID	PID (ppm)	TPH (GC/MS) Low Fraction (mg/m3)	Benzene (mg/m3)	Toluene (mg/m3)	Ethylbenzene (mg/m3)	m&p-Xylenes2 (mg/m3)	o-Xylenes (mg/m3)	Methyl tert-butyl ether (mg/m3)
5/9/2023	Separator	Residential (915-1)	-30	20230509-RULISON 5L-(AIR-SB-03-30)	NA	5870	148.0	263.0	7.33	74.6	8.28	<1.440
5/9/2023	Separator	Residential (915-1)	-55	20230509-RULISON 5L-(AIR-SB-03-55)	NA	36900	1060.0	2220.0	69.80	672.0	76.30	<1.440
5/9/2023	Separator	Residential (915-1)	-35	20230509-RULISON 5L-(AIR-SB-04-35)	NA	9290	152.0	524.0	23.20	245.0	27.70	<1.440
5/9/2023	Separator	Residential (915-1)	-50	20230509-RULISON 5L-(AIR-SB-04-50)	NA	15500	257.0	1370.0	38.10	397.0	45.50	<1.440

May 15, 2023

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Caerus Oil and Gas

Sample Delivery Group: L1614978
Samples Received: 05/11/2023
Project Number:
Description: Rulison 5L SVE Pilot Test

Report To: Brett M. , Jake J. , Blair R.
143 Diamond Avenue
Parachute, CO 81635

Entire Report Reviewed By:



Chris Ward
Project Manager










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



Pace Analytical National

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

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SAMPLE SUMMARY

20230509-RULISON 5L-(AIR-SB-03-30) L1614978-01 Air

Collected by Andrew Smith Collected date/time 05/09/23 12:50 Received date/time 05/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method M18-Mod	WG2058923	2000	05/12/23 23:10	05/12/23 23:10	DAH	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

20230509-RULISON 5L-(AIR-SB-03-55) L1614978-02 Air

Collected by Andrew Smith Collected date/time 05/09/23 13:05 Received date/time 05/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method M18-Mod	WG2058923	2000	05/12/23 23:45	05/12/23 23:45	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method M18-Mod	WG2059389	10000	05/13/23 13:20	05/13/23 13:20	JAP	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

20230509-RULISON 5L-(AIR-SB-04-35) L1614978-03 Air

Collected by Andrew Smith Collected date/time 05/09/23 13:20 Received date/time 05/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method M18-Mod	WG2058923	2000	05/13/23 00:21	05/13/23 00:21	DAH	Mt. Juliet, TN

7 Gl

8 Al

20230509-RULISON 5L-(AIR-SB-04-50) L1614978-04 Air

Collected by Andrew Smith Collected date/time 05/09/23 13:30 Received date/time 05/11/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method M18-Mod	WG2058923	2000	05/13/23 00:56	05/13/23 00:56	DAH	Mt. Juliet, TN
Volatile Organic Compounds (MS) by Method M18-Mod	WG2059389	10000	05/13/23 13:58	05/13/23 13:58	JAP	Mt. Juliet, TN

9 Sc

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.



Chris Ward
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
			ppbv	ug/m3	ppbv	ug/m3			
Benzene	71-43-2	78.10	400	1280	46400	148000		2000	WG2058923
Toluene	108-88-3	92.10	1000	3770	69800	263000		2000	WG2058923
Ethylbenzene	100-41-4	106	400	1730	1690	7330		2000	WG2058923
m&p-Xylene	1330-20-7	106	800	3470	17200	74600		2000	WG2058923
o-Xylene	95-47-6	106	400	1730	1910	8280		2000	WG2058923
Methyl tert-butyl ether	1634-04-4	88.10	400	1440	ND	ND		2000	WG2058923
TPH (GC/MS) Low Fraction	8006-61-9	101	400000	1650000	1420000	5870000		2000	WG2058923
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		94.5				WG2058923

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

Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	2000	6390	333000	1060000		10000	WG2059389
Toluene	108-88-3	92.10	5000	18800	589000	2220000		10000	WG2059389
Ethylbenzene	100-41-4	106	400	1730	16100	69800		2000	WG2058923
m&p-Xylene	1330-20-7	106	800	3470	155000	672000		2000	WG2058923
o-Xylene	95-47-6	106	400	1730	17600	76300		2000	WG2058923
Methyl tert-butyl ether	1634-04-4	88.10	400	1440	ND	ND		2000	WG2058923
TPH (GC/MS) Low Fraction	8006-61-9	101	400000	1650000	8930000	36900000		2000	WG2058923
<i>(S) 1,4-Bromofluorobenzene</i>	460-00-4	175	60.0-140		103				WG2058923
<i>(S) 1,4-Bromofluorobenzene</i>	460-00-4	175	60.0-140		96.9				WG2059389

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

Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Benzene	71-43-2	78.10	400	1280	47600	152000		2000	WG2058923
Toluene	108-88-3	92.10	1000	3770	139000	524000		2000	WG2058923
Ethylbenzene	100-41-4	106	400	1730	5340	23200		2000	WG2058923
m&p-Xylene	1330-20-7	106	800	3470	56600	245000		2000	WG2058923
o-Xylene	95-47-6	106	400	1730	6390	27700		2000	WG2058923
Methyl tert-butyl ether	1634-04-4	88.10	400	1440	ND	ND		2000	WG2058923
TPH (GC/MS) Low Fraction	8006-61-9	101	400000	1650000	2250000	9290000		2000	WG2058923
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.0				WG2058923

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (MS) by Method M18-Mod

Analyte	CAS #	Mol. Wt.	RDL1	RDL2	Result	Result	Qualifier	Dilution	Batch
			ppbv	ug/m3	ppbv	ug/m3			
Benzene	71-43-2	78.10	400	1280	80500	257000		2000	WG2058923
Toluene	108-88-3	92.10	5000	18800	365000	1370000		10000	WG2059389
Ethylbenzene	100-41-4	106	400	1730	8790	38100		2000	WG2058923
m&p-Xylene	1330-20-7	106	800	3470	91600	397000		2000	WG2058923
o-Xylene	95-47-6	106	400	1730	10500	45500		2000	WG2058923
Methyl tert-butyl ether	1634-04-4	88.10	400	1440	ND	ND		2000	WG2058923
TPH (GC/MS) Low Fraction	8006-61-9	101	400000	1650000	3750000	15500000		2000	WG2058923
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		99.9				WG2058923
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.8				WG2059389

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

Method Blank (MB)

(MB) R3924202-2 05/12/23 10:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Benzene	U		0.0715	0.200
Toluene	U		0.0870	0.500
Ethylbenzene	U		0.0835	0.200
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
MTBE	U		0.0647	0.200
TPH (GC/MS) Low Fraction	U		39.7	200
<i>(S) 1,4-Bromofluorobenzene</i>	94.3			60.0-140

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

(LCS) R3924202-1 05/12/23 09:26 • (LCSD) R3924202-3 05/12/23 10:54

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Benzene	3.75	3.55	3.55	94.7	94.7	70.0-130			0.000	25
Toluene	3.75	3.57	3.61	95.2	96.3	70.0-130			1.11	25
Ethylbenzene	3.75	3.64	3.58	97.1	95.5	70.0-130			1.66	25
m&p-Xylene	7.50	7.39	7.29	98.5	97.2	70.0-130			1.36	25
o-Xylene	3.75	3.61	3.61	96.3	96.3	70.0-130			0.000	25
MTBE	3.75	3.56	3.57	94.9	95.2	70.0-130			0.281	25
TPH (GC/MS) Low Fraction	203	184	187	90.6	92.1	70.0-130			1.62	25
<i>(S) 1,4-Bromofluorobenzene</i>				100	98.8	60.0-140				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3924597-3 05/13/23 08:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Benzene	U		0.0715	0.200
Toluene	U		0.0870	0.500
(S) 1,4-Bromofluorobenzene	92.9			60.0-140

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

(LCS) R3924597-1 05/13/23 07:05 • (LCSD) R3924597-2 05/13/23 07:43

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Benzene	3.75	3.71	3.66	98.9	97.6	70.0-130			1.36	25
Toluene	3.75	3.64	3.62	97.1	96.5	70.0-130			0.551	25
(S) 1,4-Bromofluorobenzene				99.2	98.5	60.0-140				

- 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.
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

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

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

