

October 19, 2023

Caerus Oil and Gas

Sample Delivery Group: L1665084
Samples Received: 10/11/2023
Project Number:
Description: EL12 12-11D Wellhead

Report To: Jake J. / Brett M. / Blair R. / Andy V.
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

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
20231010-EL12697-(FCWH1211DWW)@5 L1665084-01	5
20231010-EL12697-(FCWH1211DSWW)@10 L1665084-02	7
Qc: Quality Control Summary	9
Wet Chemistry by Method 7199	9
Wet Chemistry by Method 9045D	10
Wet Chemistry by Method 9050AMod	11
Metals (ICP) by Method 6010B-NE493 Ch 2	12
Metals (ICPMS) by Method 6020	13
Volatile Organic Compounds (GC) by Method 8015D/GRO	14
Volatile Organic Compounds (GC/MS) by Method 8260B	15
Semi-Volatile Organic Compounds (GC) by Method 8015M	16
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	17
Gl: Glossary of Terms	19
Al: Accreditations & Locations	20
Sc: Sample Chain of Custody	21



SAMPLE SUMMARY

20231010-EL12697-(FCWH1211DWW)@5 L1665084-01 Solid

Collected by
C. Mace

Collected date/time
10/10/23 13:30

Received date/time
10/11/23 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2152016	1	10/19/23 12:31	10/19/23 12:31	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2148961	1	10/12/23 12:34	10/16/23 03:04	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2151280	1	10/14/23 12:15	10/14/23 14:03	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2150712	1	10/13/23 10:50	10/13/23 14:48	NTG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2152022	1	10/17/23 14:13	10/18/23 17:06	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2149669	5	10/12/23 12:37	10/18/23 15:08	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2150388	1	10/12/23 08:28	10/12/23 23:32	NCD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2150023	1	10/12/23 08:28	10/12/23 15:16	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2152137	1	10/17/23 05:14	10/17/23 14:52	KAP	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2152434	1	10/17/23 07:13	10/18/23 02:23	DSH	Mt. Juliet, TN

20231010-EL12697-(FCWH1211DSWW)@10 L1665084-02 Solid

Collected by
C. Mace

Collected date/time
10/10/23 13:45

Received date/time
10/11/23 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2152016	1	10/19/23 12:34	10/19/23 12:34	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2148961	1	10/12/23 12:34	10/16/23 03:20	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2151280	1	10/14/23 12:15	10/14/23 14:03	NTG	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2150712	1	10/13/23 10:50	10/13/23 14:48	NTG	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2152022	1	10/17/23 14:13	10/18/23 17:31	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2149669	5	10/12/23 12:37	10/18/23 15:11	SJM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2150388	1	10/12/23 08:28	10/12/23 23:56	NCD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2150023	1	10/12/23 08:28	10/12/23 15:34	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2152137	1	10/17/23 05:14	10/17/23 15:05	KAP	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2152434	1	10/17/23 07:13	10/18/23 02:42	DSH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

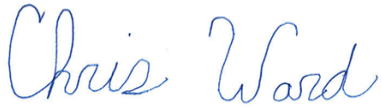
⁷Gl

⁸Al

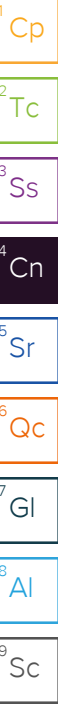
⁹Sc

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



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.692		1	10/19/2023 12:31	WG2152016

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.486	J	0.255	1.00	1	10/16/2023 03:04	WG2148961

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.56	T8	1	10/14/2023 14:03	WG2151280

Sample Narrative:
L1665084-01 WG2151280: 8.56 at 20.3C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	137		10.0	1	10/13/2023 14:48	WG2150712

Sample Narrative:
L1665084-01 WG2150712: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.131	J	0.0167	0.200	1	10/18/2023 17:06	WG2152022

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	23.3		0.100	1.00	5	10/18/2023 15:08	WG2149669
Barium	433		0.152	2.50	5	10/18/2023 15:08	WG2149669
Cadmium	0.772	J	0.0855	1.00	5	10/18/2023 15:08	WG2149669
Copper	29.4		0.132	5.00	5	10/18/2023 15:08	WG2149669
Lead	21.1		0.0990	2.00	5	10/18/2023 15:08	WG2149669
Nickel	34.2		0.197	2.50	5	10/18/2023 15:08	WG2149669
Selenium	0.832	J	0.180	2.50	5	10/18/2023 15:08	WG2149669
Silver	0.159	J	0.0865	0.500	5	10/18/2023 15:08	WG2149669
Zinc	92.9		0.740	25.0	5	10/18/2023 15:08	WG2149669

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0372	J	0.0217	0.100	1	10/12/2023 23:32	WG2150388
(S) a,a,a-Trifluorotoluene(FID)	91.3			77.0-120		10/12/2023 23:32	WG2150388

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	10/12/2023 15:16	WG2150023
Toluene	U		0.00130	0.00500	1	10/12/2023 15:16	WG2150023
Ethylbenzene	U		0.000737	0.00250	1	10/12/2023 15:16	WG2150023
Xylenes, Total	U		0.000880	0.00650	1	10/12/2023 15:16	WG2150023
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	10/12/2023 15:16	WG2150023
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	10/12/2023 15:16	WG2150023
(S) Toluene-d8	97.6			75.0-131		10/12/2023 15:16	WG2150023
(S) 4-Bromofluorobenzene	101			67.0-138		10/12/2023 15:16	WG2150023
(S) 1,2-Dichloroethane-d4	92.8			70.0-130		10/12/2023 15:16	WG2150023

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	29.4		1.61	4.00	1	10/17/2023 14:52	WG2152137
C28-C36 Motor Oil Range	140		0.274	4.00	1	10/17/2023 14:52	WG2152137
(S) o-Terphenyl	58.2			18.0-148		10/17/2023 14:52	WG2152137

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00209	0.00600	1	10/18/2023 02:23	WG2152434
Anthracene	U		0.00230	0.00600	1	10/18/2023 02:23	WG2152434
Benzo(a)anthracene	U		0.00173	0.00600	1	10/18/2023 02:23	WG2152434
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/18/2023 02:23	WG2152434
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/18/2023 02:23	WG2152434
Benzo(a)pyrene	U		0.00179	0.00600	1	10/18/2023 02:23	WG2152434
Chrysene	U		0.00232	0.00600	1	10/18/2023 02:23	WG2152434
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/18/2023 02:23	WG2152434
Fluoranthene	U		0.00227	0.00600	1	10/18/2023 02:23	WG2152434
Fluorene	U		0.00205	0.00600	1	10/18/2023 02:23	WG2152434
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/18/2023 02:23	WG2152434
1-Methylnaphthalene	U		0.00449	0.0200	1	10/18/2023 02:23	WG2152434
2-Methylnaphthalene	U		0.00427	0.0200	1	10/18/2023 02:23	WG2152434
Naphthalene	U		0.00408	0.0200	1	10/18/2023 02:23	WG2152434
Pyrene	U		0.00200	0.00600	1	10/18/2023 02:23	WG2152434
(S) p-Terphenyl-d14	57.6			23.0-120		10/18/2023 02:23	WG2152434
(S) Nitrobenzene-d5	63.1			14.0-149		10/18/2023 02:23	WG2152434
(S) 2-Fluorobiphenyl	56.1			34.0-125		10/18/2023 02:23	WG2152434

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.677		1	10/19/2023 12:34	WG2152016

Wet Chemistry by Method 7199

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.392	J	0.255	1.00	1	10/16/2023 03:20	WG2148961

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	8.29	T8	1	10/14/2023 14:03	WG2151280

Sample Narrative:
L1665084-02 WG2151280: 8.29 at 20.3C

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	125		10.0	1	10/13/2023 14:48	WG2150712

Sample Narrative:
L1665084-02 WG2150712: at 25C

Metals (ICP) by Method 6010B-NE493 Ch 2

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.147	J	0.0167	0.200	1	10/18/2023 17:31	WG2152022

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	18.9		0.100	1.00	5	10/18/2023 15:11	WG2149669
Barium	413		0.152	2.50	5	10/18/2023 15:11	WG2149669
Cadmium	0.672	J	0.0855	1.00	5	10/18/2023 15:11	WG2149669
Copper	27.6		0.132	5.00	5	10/18/2023 15:11	WG2149669
Lead	18.6		0.0990	2.00	5	10/18/2023 15:11	WG2149669
Nickel	30.3		0.197	2.50	5	10/18/2023 15:11	WG2149669
Selenium	0.673	J	0.180	2.50	5	10/18/2023 15:11	WG2149669
Silver	0.124	J	0.0865	0.500	5	10/18/2023 15:11	WG2149669
Zinc	76.1		0.740	25.0	5	10/18/2023 15:11	WG2149669

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.0380	J	0.0217	0.100	1	10/12/2023 23:56	WG2150388
(S) a,a,a-Trifluorotoluene(FID)	91.7			77.0-120		10/12/2023 23:56	WG2150388

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Benzene	U		0.000467	0.00100	1	10/12/2023 15:34	WG2150023
Toluene	U		0.00130	0.00500	1	10/12/2023 15:34	WG2150023
Ethylbenzene	U		0.000737	0.00250	1	10/12/2023 15:34	WG2150023
Xylenes, Total	U		0.000880	0.00650	1	10/12/2023 15:34	WG2150023
1,2,4-Trimethylbenzene	U		0.00158	0.00500	1	10/12/2023 15:34	WG2150023
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	10/12/2023 15:34	WG2150023
(S) Toluene-d8	96.8			75.0-131		10/12/2023 15:34	WG2150023
(S) 4-Bromofluorobenzene	97.5			67.0-138		10/12/2023 15:34	WG2150023
(S) 1,2-Dichloroethane-d4	91.9			70.0-130		10/12/2023 15:34	WG2150023

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	25.9		1.61	4.00	1	10/17/2023 15:05	WG2152137
C28-C36 Motor Oil Range	109		0.274	4.00	1	10/17/2023 15:05	WG2152137
(S) o-Terphenyl	56.1			18.0-148		10/17/2023 15:05	WG2152137

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

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	U		0.00209	0.00600	1	10/18/2023 02:42	WG2152434
Anthracene	U		0.00230	0.00600	1	10/18/2023 02:42	WG2152434
Benzo(a)anthracene	U		0.00173	0.00600	1	10/18/2023 02:42	WG2152434
Benzo(b)fluoranthene	U		0.00153	0.00600	1	10/18/2023 02:42	WG2152434
Benzo(k)fluoranthene	U		0.00215	0.00600	1	10/18/2023 02:42	WG2152434
Benzo(a)pyrene	U		0.00179	0.00600	1	10/18/2023 02:42	WG2152434
Chrysene	U		0.00232	0.00600	1	10/18/2023 02:42	WG2152434
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	10/18/2023 02:42	WG2152434
Fluoranthene	U		0.00227	0.00600	1	10/18/2023 02:42	WG2152434
Fluorene	U		0.00205	0.00600	1	10/18/2023 02:42	WG2152434
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	10/18/2023 02:42	WG2152434
1-Methylnaphthalene	U		0.00449	0.0200	1	10/18/2023 02:42	WG2152434
2-Methylnaphthalene	0.00708	U	0.00427	0.0200	1	10/18/2023 02:42	WG2152434
Naphthalene	0.00418	U	0.00408	0.0200	1	10/18/2023 02:42	WG2152434
Pyrene	U		0.00200	0.00600	1	10/18/2023 02:42	WG2152434
(S) p-Terphenyl-d14	61.9			23.0-120		10/18/2023 02:42	WG2152434
(S) Nitrobenzene-d5	70.6			14.0-149		10/18/2023 02:42	WG2152434
(S) 2-Fluorobiphenyl	61.2			34.0-125		10/18/2023 02:42	WG2152434

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3986454-1 10/16/23 01:13

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.255	1.00

L1665058-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1665058-01 10/16/23 05:32 • (DUP) R3986454-7 10/16/23 02:33

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

L1665058-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1665058-05 10/16/23 05:37 • (DUP) R3986454-8 10/16/23 02:59

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3986454-2 10/16/23 01:21

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	9.46	94.6	80.0-120	

L1664626-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1664626-04 10/16/23 01:47 • (MS) R3986454-4 10/16/23 01:57 • (MSD) R3986454-5 10/16/23 02:02

	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	%	%		%			%	%
Hexavalent Chromium	20.0	2.06	4.63	4.41	12.9	11.7	1	75.0-125	J6	J6	5.07	20

L1664626-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1664626-04 10/16/23 01:47 • (MS) R3986454-6 10/16/23 02:18

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	643	2.06	279	43.4	50	75.0-125	J6

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1664592-15 Original Sample (OS) • Duplicate (DUP)

(OS) L1664592-15 10/14/23 14:03 • (DUP) R3986246-3 10/14/23 14:03

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	8.42	8.41	1	0.119		1

Sample Narrative:

OS: 8.42 at 21.4C

DUP: 8.41 at 21.2C

L1665058-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1665058-02 10/14/23 14:03 • (DUP) R3986246-4 10/14/23 14:03

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	pH	su		%		%
pH	8.57	8.54	1	0.351		1

Sample Narrative:

OS: 8.57 at 20.3C

DUP: 8.54 at 20.4C

Laboratory Control Sample (LCS)

(LCS) R3986246-1 10/14/23 14:03

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	9.99	99.9	99.0-101	

Sample Narrative:

LCS: 9.99 at 20.9C

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3985988-1 10/13/23 14:48

Analyte	MB Result umhos/cm	MB Qualifier	MB MDL umhos/cm	MB RDL umhos/cm
Specific Conductance	U		10.0	10.0

Sample Narrative:

BLANK: at 25C

L1664473-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1664473-05 10/13/23 14:48 • (DUP) R3985988-3 10/13/23 14:48

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	209	207	1	1.01		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1665058-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1665058-05 10/13/23 14:48 • (DUP) R3985988-4 10/13/23 14:48

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	204	203	1	0.492		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R3985988-2 10/13/23 14:48

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	732	679	92.8	85.0-115	

Sample Narrative:

LCS: at 25C



Method Blank (MB)

(MB) R3988111-1 10/18/23 16:23

Analyte	MB Result mg/l	<u>MB Qualifier</u>	MB MDL mg/l	MB RDL mg/l
Hot Water Sol. Boron	U		0.0167	0.200

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

(LCS) R3988111-2 10/18/23 16:25 • (LCSD) R3988111-3 10/18/23 16:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.10	1.14	110	114	80.0-120			3.61	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3987898-1 10/18/23 14:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	1.00
Barium	U		0.152	2.50
Cadmium	U		0.0855	1.00
Copper	U		0.133	5.00
Lead	U		0.0990	2.00
Nickel	U		0.197	2.50
Selenium	U		0.180	2.50
Silver	U		0.0865	0.500
Zinc	U		0.740	25.0

Laboratory Control Sample (LCS)

(LCS) R3987898-2 10/18/23 14:44

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	100	100	80.0-120	
Barium	100	99.6	99.6	80.0-120	
Cadmium	100	101	101	80.0-120	
Copper	100	96.5	96.5	80.0-120	
Lead	100	99.2	99.2	80.0-120	
Nickel	100	101	101	80.0-120	
Selenium	100	102	102	80.0-120	
Silver	20.0	20.0	100	80.0-120	
Zinc	100	99.1	99.1	80.0-120	

L1664711-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1664711-10 10/18/23 14:51 • (MS) R3987898-5 10/18/23 15:01 • (MSD) R3987898-6 10/18/23 15:04

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	7.75	102	99.1	93.8	91.4	5	75.0-125			2.37	20
Barium	100	62.8	177	148	114	85.5	5	75.0-125			17.6	20
Cadmium	100	0.166	96.2	95.9	96.0	95.7	5	75.0-125			0.343	20
Copper	100	25.5	121	114	96.0	88.0	5	75.0-125			6.75	20
Lead	100	12.1	107	104	94.9	91.6	5	75.0-125			3.20	20
Nickel	100	30.9	128	121	97.3	90.0	5	75.0-125			5.86	20
Selenium	100	0.240	99.9	101	99.7	101	5	75.0-125	E	E	0.954	20
Silver	20.0	U	18.8	19.0	94.0	95.0	5	75.0-125			1.10	20
Zinc	100	57.9	158	135	100	77.3	5	75.0-125			15.7	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3986853-2 10/12/23 22:21

Analyte	MB Result mg/kg	<u>MB Qualifier</u>	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	93.5			77.0-120

Laboratory Control Sample (LCS)

(LCS) R3986853-1 10/12/23 21:21

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
TPH (GC/FID) Low Fraction	5.50	5.76	105	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			102	77.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3987231-3 10/12/23 10:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.000467	0.00100
Toluene	U		0.00130	0.00500
Ethylbenzene	U		0.000737	0.00250
Xylenes, Total	U		0.000880	0.00650
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
(S) Toluene-d8	98.4			75.0-131
(S) 4-Bromofluorobenzene	96.9			67.0-138
(S) 1,2-Dichloroethane-d4	91.8			70.0-130

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

(LCS) R3987231-1 10/12/23 08:51 • (LCSD) R3987231-2 10/12/23 09:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.130	0.130	104	104	70.0-123			0.000	20
Toluene	0.125	0.117	0.117	93.6	93.6	75.0-121			0.000	20
Ethylbenzene	0.125	0.111	0.107	88.8	85.6	74.0-126			3.67	20
Xylenes, Total	0.375	0.314	0.320	83.7	85.3	72.0-127			1.89	20
1,2,4-Trimethylbenzene	0.125	0.119	0.125	95.2	100	70.0-126			4.92	20
1,3,5-Trimethylbenzene	0.125	0.122	0.130	97.6	104	73.0-127			6.35	20
(S) Toluene-d8				97.2	96.6	75.0-131				
(S) 4-Bromofluorobenzene				97.4	95.1	67.0-138				
(S) 1,2-Dichloroethane-d4				95.4	95.8	70.0-130				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3987365-1 10/17/23 10:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	0.362	J	0.274	4.00
(S) o-Terphenyl	59.6			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3987365-2 10/17/23 10:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	34.8	69.6	50.0-150	
(S) o-Terphenyl			64.4	18.0-148	

L1664734-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1664734-06 10/17/23 11:54 • (MS) R3987365-3 10/17/23 12:07 • (MSD) R3987365-4 10/17/23 12:19

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	49.2	30.8	59.8	49.3	58.9	37.8	1	50.0-150		J6	19.2	20
(S) o-Terphenyl					44.1	40.5		18.0-148				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R3987586-2 10/17/23 22:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00209	0.00600
Anthracene	U		0.00230	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
Naphthalene	U		0.00408	0.0200
Pyrene	U		0.00200	0.00600
(S) p-Terphenyl-d14	78.8			23.0-120
(S) Nitrobenzene-d5	69.2			14.0-149
(S) 2-Fluorobiphenyl	70.9			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3987586-1 10/17/23 21:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0800	0.0541	67.6	50.0-120	
Anthracene	0.0800	0.0537	67.1	50.0-126	
Benzo(a)anthracene	0.0800	0.0589	73.6	45.0-120	
Benzo(b)fluoranthene	0.0800	0.0554	69.3	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0545	68.1	49.0-125	
Benzo(a)pyrene	0.0800	0.0554	69.3	42.0-120	
Chrysene	0.0800	0.0594	74.3	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0584	73.0	47.0-125	
Fluoranthene	0.0800	0.0572	71.5	49.0-129	
Fluorene	0.0800	0.0563	70.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0592	74.0	46.0-125	
1-Methylnaphthalene	0.0800	0.0579	72.4	51.0-121	
2-Methylnaphthalene	0.0800	0.0594	74.3	50.0-120	
Naphthalene	0.0800	0.0576	72.0	50.0-120	
Pyrene	0.0800	0.0617	77.1	43.0-123	

Laboratory Control Sample (LCS)

(LCS) R3987586-1 10/17/23 21:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
(S) p-Terphenyl-d14			75.7	23.0-120	
(S) Nitrobenzene-d5			72.1	14.0-149	
(S) 2-Fluorobiphenyl			70.4	34.0-125	

L1665238-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1665238-05 10/17/23 23:08 • (MS) R3987586-3 10/17/23 23:27 • (MSD) R3987586-4 10/17/23 23:47

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acenaphthene	0.0788	U	U	U	0.000	0.000	1	14.0-127	J6	J6	0.000	27
Anthracene	0.0788	U	0.241	0.233	306	293	1	10.0-145	J5	J5	3.38	30
Benzo(a)anthracene	0.0788	0.0203	0.0991	0.0892	100	86.6	1	10.0-139			10.5	30
Benzo(b)fluoranthene	0.0788	0.0189	0.0783	0.0791	75.4	75.6	1	10.0-140			1.02	36
Benzo(k)fluoranthene	0.0788	0.00280	0.0517	0.0520	62.1	61.8	1	10.0-137			0.579	31
Benzo(a)pyrene	0.0788	0.0112	0.0779	0.0800	84.6	86.4	1	10.0-141			2.66	31
Chrysene	0.0788	0.0268	0.129	0.109	130	103	1	10.0-145			16.8	30
Dibenz(a,h)anthracene	0.0788	0.00334	0.0500	0.0509	59.2	59.7	1	10.0-132			1.78	31
Fluoranthene	0.0788	0.0646	0.182	0.170	149	132	1	10.0-153			6.82	33
Fluorene	0.0788	U	U	U	0.000	0.000	1	11.0-130	J6	J6	0.000	29
Indeno(1,2,3-cd)pyrene	0.0788	0.00894	0.0683	0.0710	75.3	78.0	1	10.0-137			3.88	32
1-Methylnaphthalene	0.0788	U	U	U	0.000	0.000	1	10.0-142	J6	J6	0.000	28
2-Methylnaphthalene	0.0788	U	U	U	0.000	0.000	1	10.0-137	J6	J6	0.000	28
Naphthalene	0.0788	U	U	U	0.000	0.000	1	10.0-135	J6	J6	0.000	27
Pyrene	0.0788	0.243	0.528	0.510	362	335	1	10.0-148	J5	J5	3.47	35
(S) p-Terphenyl-d14					64.6	61.7		23.0-120				
(S) Nitrobenzene-d5					0.000	0.000		14.0-149	J2	J2		
(S) 2-Fluorobiphenyl					0.000	0.000		34.0-125	J2	J2		

Sample Narrative:

OS: Surrogate failure due to matrix interference

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

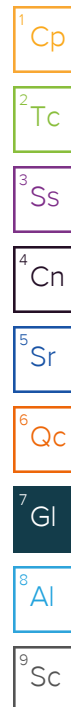
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.



ACCREDITATIONS & LOCATIONS

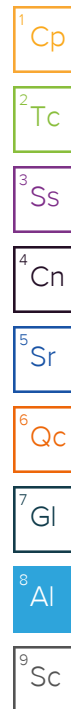
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



Company Name/Address: Caerus Oil & Gas 143 Diamond Ave Parachute, CO 81635				Billing Information: Same as left.				Pres Chk	Analysis / Container / Preservative										Chain of Custody Page ____ of ____	
																			 PEOPLE ADVANCING SCIENCE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf	
Report to: Blair Rollins				Email To: brollins@caerusoilandgas.com																
Project Description: EL12 12-11D Wellhead				City/State Collected:		Please Circle: PT MT CT ET														
Phone: (970) 640-6919		Client Project #		Lab Project #																
Collected by (print): C. Mace		Site/Facility ID #		P.O. #																
Collected by (signature): 		Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day <input checked="" type="checkbox"/> Five Day <input type="checkbox"/> Next Day <input type="checkbox"/> 5 Day (Rad Only) <input type="checkbox"/> Two Day <input type="checkbox"/> 10 Day (Rad Only) <input type="checkbox"/> Three Day		Quote #		Date Results Needed		No. of Cntrs	TABLE 915 GRO/DRO/ORO	TABLE 915 Metals	TABLE 915 VOCs	TABLE 915 pH, SPCON, SAR	TABLE 915 PAHs							
Immediately Packed on Ice N <input type="checkbox"/> Y <input checked="" type="checkbox"/>																				
Sample ID		Comp/Grab	Matrix*	Depth	Date	Time														
20231010-EL12697-(FCWH1211DWW)@5		Grab	SS	5'	2023-10-10	1330	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					01			
20231010-EL12697-(FCWH1211DSWW)@10		Grab	SS	10'	2023-10-10	1345	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					02			
		Grab	SS																	
		Grab	SS																	
		Grab	SS																	
		Grab	SS																	
		Grab	SS																	
		Grab	SS																	
		Grab	SS																	
		Grab	SS																	
		Grab	SS																	

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

Remarks:

Samples returned via:
☐ UPS ☐ FedEx ☐ Courier _____

Tracking # 6525 5572 1490

pH _____ Temp _____
 Flow _____ Other _____

Relinquished by: (Signature)		Date: <u>10/10/23</u>		Time: <u>1700</u>		Received by: (Signature)		Trip Blank Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		HCL/ MeOH TBR	
Relinquished by: (Signature)		Date: <u>10/10/23</u>		Time: <u>1800</u>		Received by: (Signature)		Temp: <u>CCA 8°C</u>		Bottles Received: <u>8</u>	
Relinquished by: (Signature)		Date: _____		Time: _____		Received for lab by: (Signature)		Date: <u>10/11/23</u>		Time: <u>0845</u>	

Sample Receipt Checklist

COC Seal Present/Intact: ☒ NP ☐ Y ☐ N

COC Signed/Accurate: ☒ Y ☐ N

Bottles arrive intact: ☒ Y ☐ N

Correct bottles used: ☒ Y ☐ N

Sufficient volume sent: ☒ Y ☐ N

If Applicable

VOA Zero Headspace: ☒ Y ☐ N

Preservation Correct/Checked: ☒ Y ☐ N

RAD Screen <0.5 mR/hr: ☒ Y ☐ N

If preservation required by Login: Date/Time

Hold: _____ Condition: NOF / OK

Time estimate: oh

Time spent: oh

- Members
- MS

Matthew Shacklock (responsible)
- CW

Chris Ward

- ☐ Parameter(s) past holding time
- ☐ Temperature not in range
- ☐ Improper container type
- ☐ pH not in range
- ☐ Insufficient sample volume
- ☐ Sample is biphasic
- ☐ Vials received with headspace
- ☒ Broken container
- ☒ Sufficient sample remains
- ☐ If broken container: Insufficient packing material around container
- ☐ If broken container: Insufficient packing material inside cooler
- ☐ If broken container: Improper handling by carrier: _____
- ☐ If broken container: Sample was frozen
- ☐ If broken container: Container lid not intact
- ☐ Client informed by Call
- ☐ Client informed by Email
- ☐ Client informed by Voicemail
- ☐ Date/Time: _____
- ☐ PM initials: _____
- ☐ Client Contact: _____

Comments	
Matthew Shacklock Received 1 8oz broken for 20231010-EL12697-(FCWH1211DWW)@5. 3 still remains. the broken jar was salvaged and placed into login's coldroom.	11 October 2023 3:23 PM
Chris Ward Please proceed with remaining volume	11 October 2023 3:31 PM
Matthew Shacklock Done	11 October 2023 3:57 PM