

Caerus Oil and Gas

Sample Delivery Group: L1757520
Samples Received: 07/17/2024
Project Number:
Description: J14-496 238-14 Flowline Release
Site: J14-496
Report To: Jake J. / Brett M. / Blair R. / Andy V.
143 Diamond Avenue
Parachute, CO 81635

Entire Report Reviewed By:



Chris Ward
Project Manager

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Pace Analytical National

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¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

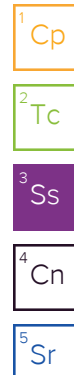
⁹ Sc

SAMPLE SUMMARY

Collected by Olivia Floyd Collected date/time 07/15/24 10:15 Received date/time 07/17/24 09:00

20240715-ELU J14 496-(23B-14-POR)@4 L1757520-01 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2325683	1	07/26/24 00:08	07/26/24 14:48	EKB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2328388	1	07/21/24 21:44	07/23/24 17:27	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2327819	1	07/21/24 21:44	07/23/24 05:19	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2329372	1	07/24/24 17:19	07/24/24 22:53	JAS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2329372	5	07/24/24 17:19	07/25/24 01:46	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2328846	1	07/24/24 11:36	07/24/24 21:48	MKM	Mt. Juliet, TN
Subcontracted Analyses	WG2325486	1	08/13/24 00:00	08/13/24 00:00	-	Minneapolis, MN 55414



Collected by Olivia Floyd Collected date/time 07/15/24 10:40 Received date/time 07/17/24 09:00

20240715-ELU J14 496-(23B-14-BASE)@3 L1757520-02 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2325683	1	07/26/24 00:08	07/26/24 14:57	EKB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2328388	1	07/21/24 21:44	07/23/24 17:49	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2327819	1	07/21/24 21:44	07/23/24 05:38	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2329372	1	07/24/24 17:19	07/24/24 22:28	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2328846	1	07/24/24 11:36	07/24/24 22:05	MKM	Mt. Juliet, TN
Subcontracted Analyses	WG2325486	1	08/13/24 00:00	08/13/24 00:00	-	Minneapolis, MN 55414

Collected by Olivia Floyd Collected date/time 07/15/24 10:05 Received date/time 07/17/24 09:00

20240715-ELU J14 496-(23B-14-NW)@4 L1757520-03 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2325683	1	07/26/24 00:08	07/26/24 15:06	EKB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2328388	1	07/21/24 21:44	07/23/24 18:16	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2327819	1.01	07/21/24 21:44	07/23/24 05:57	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2329372	1	07/24/24 17:19	07/24/24 22:40	JAS	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2329372	5	07/24/24 17:19	07/25/24 01:34	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2328846	1	07/24/24 11:36	07/24/24 21:13	MKM	Mt. Juliet, TN
Subcontracted Analyses	WG2325486	1	08/13/24 00:00	08/13/24 00:00	-	Minneapolis, MN 55414

Collected by Olivia Floyd Collected date/time 07/15/24 10:35 Received date/time 07/17/24 09:00

20240715-ELU J14 496-(23B-14-SW)@2 L1757520-04 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2325683	1	07/26/24 00:08	07/26/24 15:32	EKB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2328388	1	07/21/24 21:44	07/23/24 18:48	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2327819	1	07/21/24 21:44	07/23/24 06:16	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2329372	1	07/24/24 17:19	07/25/24 00:07	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2328846	1	07/24/24 11:36	07/24/24 22:57	MKM	Mt. Juliet, TN
Subcontracted Analyses	WG2325486	1	08/13/24 00:00	08/13/24 00:00	-	Minneapolis, MN 55414

Collected by Olivia Floyd Collected date/time 07/15/24 10:20 Received date/time 07/17/24 09:00

20240715-ELU J14 496-(23B-14-EW)@3.5 L1757520-05 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2325683	1	07/26/24 00:08	07/26/24 15:41	EKB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2328388	1	07/21/24 21:44	07/23/24 19:09	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2327819	1	07/21/24 21:44	07/23/24 06:35	ACG	Mt. Juliet, TN

SAMPLE SUMMARY

				Collected by	Collected date/time	Received date/time
20240715-ELU J14 496-(23B-14-EW)@3.5 L1757520-05 Solid				Olivia Floyd	07/15/24 10:20	07/17/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2329372	5	07/24/24 17:19	07/24/24 23:42	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2328846	1	07/24/24 11:36	07/24/24 23:48	MKM	Mt. Juliet, TN
Subcontracted Analyses	WG2325486	1	08/13/24 00:00	08/13/24 00:00	-	Minneapolis, MN 55414

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

				Collected by	Collected date/time	Received date/time
20240715-ELU J14 496-(23B-14-WW)@2.5 L1757520-06 Solid				Olivia Floyd	07/15/24 10:30	07/17/24 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 7199	WG2326501	1	07/26/24 00:14	07/26/24 11:37	EKB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2328388	1	07/21/24 21:44	07/23/24 19:30	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2327819	1	07/21/24 21:44	07/23/24 06:54	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2329372	1	07/24/24 17:19	07/24/24 22:03	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2328846	1	07/24/24 11:36	07/24/24 21:31	MKM	Mt. Juliet, TN
Subcontracted Analyses	WG2325486	1	08/13/24 00:00	08/13/24 00:00	-	Minneapolis, MN 55414

CASE NARRATIVE

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



Chris Ward
Project Manager

Project Narrative

L1757520 -01, -02, -03, -04, -05, -06 contains subout data that is included after the chain of custody.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Hexavalent Chromium	0.292	J	0.255	1.00	1	07/26/2024 14:48	WG2325683

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.149	B	0.0217	0.100	1	07/23/2024 17:27	WG2328388
(S)							
a,a,a-Trifluorotoluene(FID)	102			77.0-120		07/23/2024 17:27	WG2328388

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	0.000825	J	0.000467	0.00100	1	07/23/2024 05:19	WG2327819
Toluene	0.00423	J	0.00130	0.00500	1	07/23/2024 05:19	WG2327819
Ethylbenzene	0.00100	J	0.000737	0.00250	1	07/23/2024 05:19	WG2327819
Xylenes, Total	0.0132		0.000880	0.00650	1	07/23/2024 05:19	WG2327819
1,2,4-Trimethylbenzene	0.00510		0.00158	0.00500	1	07/23/2024 05:19	WG2327819
1,3,5-Trimethylbenzene	0.00807		0.00200	0.00500	1	07/23/2024 05:19	WG2327819
(S) Toluene-d8	104			75.0-131		07/23/2024 05:19	WG2327819
(S) 4-Bromofluorobenzene	105			67.0-138		07/23/2024 05:19	WG2327819
(S) 1,2-Dichloroethane-d4	91.4			70.0-130		07/23/2024 05:19	WG2327819

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	248		1.61	4.00	1	07/24/2024 22:53	WG2329372
C28-C36 Motor Oil Range	392		1.37	20.0	5	07/25/2024 01:46	WG2329372
(S) o-Terphenyl	51.6			18.0-148		07/24/2024 22:53	WG2329372
(S) o-Terphenyl	52.5			18.0-148		07/25/2024 01:46	WG2329372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acenaphthene	U		0.00209	0.00600	1	07/24/2024 21:48	WG2328846
Anthracene	U		0.00230	0.00600	1	07/24/2024 21:48	WG2328846
Benzo(a)anthracene	U		0.00173	0.00600	1	07/24/2024 21:48	WG2328846
Benzo(b)fluoranthene	U		0.00153	0.00600	1	07/24/2024 21:48	WG2328846
Benzo(k)fluoranthene	U		0.00215	0.00600	1	07/24/2024 21:48	WG2328846
Benzo(a)pyrene	U		0.00179	0.00600	1	07/24/2024 21:48	WG2328846
Chrysene	U		0.00232	0.00600	1	07/24/2024 21:48	WG2328846
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	07/24/2024 21:48	WG2328846
Fluoranthene	U		0.00227	0.00600	1	07/24/2024 21:48	WG2328846
Fluorene	U		0.00205	0.00600	1	07/24/2024 21:48	WG2328846
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	07/24/2024 21:48	WG2328846
1-Methylnaphthalene	0.0218		0.00449	0.0200	1	07/24/2024 21:48	WG2328846
2-Methylnaphthalene	0.0503		0.00427	0.0200	1	07/24/2024 21:48	WG2328846
Naphthalene	0.0137	J	0.00408	0.0200	1	07/24/2024 21:48	WG2328846
Pyrene	U		0.00200	0.00600	1	07/24/2024 21:48	WG2328846
(S) p-Terphenyl-d14	72.1			23.0-120		07/24/2024 21:48	WG2328846
(S) Nitrobenzene-d5	88.4			14.0-149		07/24/2024 21:48	WG2328846
(S) 2-Fluorobiphenyl	71.1			34.0-125		07/24/2024 21:48	WG2328846



Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Hexavalent Chromium	0.317	J	0.255	1.00	1	07/26/2024 14:57	WG2325683

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	U		0.0217	0.100	1	07/23/2024 17:49	WG2328388
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	100			77.0-120		07/23/2024 17:49	WG2328388

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000467	0.00100	1	07/23/2024 05:38	WG2327819
Toluene	U		0.00130	0.00500	1	07/23/2024 05:38	WG2327819
Ethylbenzene	U		0.000737	0.00250	1	07/23/2024 05:38	WG2327819
Xylenes, Total	0.00468	J	0.000880	0.00650	1	07/23/2024 05:38	WG2327819
1,2,4-Trimethylbenzene	0.00228	J	0.00158	0.00500	1	07/23/2024 05:38	WG2327819
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	07/23/2024 05:38	WG2327819
(S) Toluene-d8	104			75.0-131		07/23/2024 05:38	WG2327819
(S) 4-Bromofluorobenzene	104			67.0-138		07/23/2024 05:38	WG2327819
(S) 1,2-Dichloroethane-d4	89.5			70.0-130		07/23/2024 05:38	WG2327819

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	10.4		1.61	4.00	1	07/24/2024 22:28	WG2329372
C28-C36 Motor Oil Range	22.6		0.274	4.00	1	07/24/2024 22:28	WG2329372
(S) <i>o</i> -Terphenyl	63.9			18.0-148		07/24/2024 22:28	WG2329372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acenaphthene	U		0.00209	0.00600	1	07/24/2024 22:05	WG2328846
Anthracene	U		0.00230	0.00600	1	07/24/2024 22:05	WG2328846
Benzo(a)anthracene	U		0.00173	0.00600	1	07/24/2024 22:05	WG2328846
Benzo(b)fluoranthene	U		0.00153	0.00600	1	07/24/2024 22:05	WG2328846
Benzo(k)fluoranthene	U		0.00215	0.00600	1	07/24/2024 22:05	WG2328846
Benzo(a)pyrene	U		0.00179	0.00600	1	07/24/2024 22:05	WG2328846
Chrysene	U		0.00232	0.00600	1	07/24/2024 22:05	WG2328846
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	07/24/2024 22:05	WG2328846
Fluoranthene	U		0.00227	0.00600	1	07/24/2024 22:05	WG2328846
Fluorene	U		0.00205	0.00600	1	07/24/2024 22:05	WG2328846
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	07/24/2024 22:05	WG2328846
1-Methylnaphthalene	U		0.00449	0.0200	1	07/24/2024 22:05	WG2328846
2-Methylnaphthalene	0.00560	J	0.00427	0.0200	1	07/24/2024 22:05	WG2328846
Naphthalene	U		0.00408	0.0200	1	07/24/2024 22:05	WG2328846
Pyrene	U		0.00200	0.00600	1	07/24/2024 22:05	WG2328846
(S) <i>p</i> -Terphenyl-d14	53.0			23.0-120		07/24/2024 22:05	WG2328846
(S) Nitrobenzene-d5	61.7			14.0-149		07/24/2024 22:05	WG2328846
(S) 2-Fluorobiphenyl	56.6			34.0-125		07/24/2024 22:05	WG2328846



Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Hexavalent Chromium	0.764	J	0.255	1.00	1	07/26/2024 15:06	WG2325683

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	1.39		0.0217	0.100	1	07/23/2024 18:16	WG2328388
(S)							
<i>a,a,a</i> -Trifluorotoluene(FID)	96.9			77.0-120		07/23/2024 18:16	WG2328388

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	0.00659		0.000472	0.00101	1.01	07/23/2024 05:57	WG2327819
Toluene	0.00603		0.00131	0.00505	1.01	07/23/2024 05:57	WG2327819
Ethylbenzene	0.00237	J	0.000744	0.00253	1.01	07/23/2024 05:57	WG2327819
Xylenes, Total	0.0695		0.000889	0.00656	1.01	07/23/2024 05:57	WG2327819
1,2,4-Trimethylbenzene	0.0564		0.00160	0.00505	1.01	07/23/2024 05:57	WG2327819
1,3,5-Trimethylbenzene	0.772		0.00202	0.00505	1.01	07/23/2024 05:57	WG2327819
(S) Toluene-d8	103			75.0-131		07/23/2024 05:57	WG2327819
(S) 4-Bromofluorobenzene	113			67.0-138		07/23/2024 05:57	WG2327819
(S) 1,2-Dichloroethane-d4	91.3			70.0-130		07/23/2024 05:57	WG2327819

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	261		1.61	4.00	1	07/24/2024 22:40	WG2329372
C28-C36 Motor Oil Range	330		1.37	20.0	5	07/25/2024 01:34	WG2329372
(S) <i>o</i> -Terphenyl	49.7			18.0-148		07/24/2024 22:40	WG2329372
(S) <i>o</i> -Terphenyl	58.7			18.0-148		07/25/2024 01:34	WG2329372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acenaphthene	U		0.00209	0.00600	1	07/24/2024 21:13	WG2328846
Anthracene	U		0.00230	0.00600	1	07/24/2024 21:13	WG2328846
Benzo(a)anthracene	U		0.00173	0.00600	1	07/24/2024 21:13	WG2328846
Benzo(b)fluoranthene	U		0.00153	0.00600	1	07/24/2024 21:13	WG2328846
Benzo(k)fluoranthene	U		0.00215	0.00600	1	07/24/2024 21:13	WG2328846
Benzo(a)pyrene	U		0.00179	0.00600	1	07/24/2024 21:13	WG2328846
Chrysene	0.00716		0.00232	0.00600	1	07/24/2024 21:13	WG2328846
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	07/24/2024 21:13	WG2328846
Fluoranthene	0.00328	J	0.00227	0.00600	1	07/24/2024 21:13	WG2328846
Fluorene	U		0.00205	0.00600	1	07/24/2024 21:13	WG2328846
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	07/24/2024 21:13	WG2328846
1-Methylnaphthalene	0.113		0.00449	0.0200	1	07/24/2024 21:13	WG2328846
2-Methylnaphthalene	0.149		0.00427	0.0200	1	07/24/2024 21:13	WG2328846
Naphthalene	0.0425		0.00408	0.0200	1	07/24/2024 21:13	WG2328846
Pyrene	0.0159		0.00200	0.00600	1	07/24/2024 21:13	WG2328846
(S) <i>p</i> -Terphenyl-d14	72.2			23.0-120		07/24/2024 21:13	WG2328846
(S) Nitrobenzene-d5	132			14.0-149		07/24/2024 21:13	WG2328846
(S) 2-Fluorobiphenyl	80.4			34.0-125		07/24/2024 21:13	WG2328846

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Hexavalent Chromium	0.395	J	0.255	1.00	1	07/26/2024 15:32	WG2325683

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0506	B J	0.0217	0.100	1	07/23/2024 18:48	WG2328388
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	102			77.0-120		07/23/2024 18:48	WG2328388

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000467	0.00100	1	07/23/2024 06:16	WG2327819
Toluene	U		0.00130	0.00500	1	07/23/2024 06:16	WG2327819
Ethylbenzene	U		0.000737	0.00250	1	07/23/2024 06:16	WG2327819
Xylenes, Total	0.00222	J	0.000880	0.00650	1	07/23/2024 06:16	WG2327819
1,2,4-Trimethylbenzene	0.00197	J	0.00158	0.00500	1	07/23/2024 06:16	WG2327819
1,3,5-Trimethylbenzene	U		0.00200	0.00500	1	07/23/2024 06:16	WG2327819
(S) Toluene-d8	104			75.0-131		07/23/2024 06:16	WG2327819
(S) 4-Bromofluorobenzene	104			67.0-138		07/23/2024 06:16	WG2327819
(S) 1,2-Dichloroethane-d4	90.9			70.0-130		07/23/2024 06:16	WG2327819

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	6.71		1.61	4.00	1	07/25/2024 00:07	WG2329372
C28-C36 Motor Oil Range	18.8		0.274	4.00	1	07/25/2024 00:07	WG2329372
(S) <i>o</i> -Terphenyl	71.1			18.0-148		07/25/2024 00:07	WG2329372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acenaphthene	U		0.00209	0.00600	1	07/24/2024 22:57	WG2328846
Anthracene	U		0.00230	0.00600	1	07/24/2024 22:57	WG2328846
Benzo(a)anthracene	U		0.00173	0.00600	1	07/24/2024 22:57	WG2328846
Benzo(b)fluoranthene	U		0.00153	0.00600	1	07/24/2024 22:57	WG2328846
Benzo(k)fluoranthene	U		0.00215	0.00600	1	07/24/2024 22:57	WG2328846
Benzo(a)pyrene	U		0.00179	0.00600	1	07/24/2024 22:57	WG2328846
Chrysene	U		0.00232	0.00600	1	07/24/2024 22:57	WG2328846
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	07/24/2024 22:57	WG2328846
Fluoranthene	U		0.00227	0.00600	1	07/24/2024 22:57	WG2328846
Fluorene	U		0.00205	0.00600	1	07/24/2024 22:57	WG2328846
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	07/24/2024 22:57	WG2328846
1-Methylnaphthalene	U		0.00449	0.0200	1	07/24/2024 22:57	WG2328846
2-Methylnaphthalene	0.00831	J	0.00427	0.0200	1	07/24/2024 22:57	WG2328846
Naphthalene	U		0.00408	0.0200	1	07/24/2024 22:57	WG2328846
Pyrene	U		0.00200	0.00600	1	07/24/2024 22:57	WG2328846
(S) <i>p</i> -Terphenyl-d14	57.5			23.0-120		07/24/2024 22:57	WG2328846
(S) Nitrobenzene-d5	64.3			14.0-149		07/24/2024 22:57	WG2328846
(S) 2-Fluorobiphenyl	60.8			34.0-125		07/24/2024 22:57	WG2328846

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Hexavalent Chromium	0.968	J	0.255	1.00	1	07/26/2024 15:41	WG2325683

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.727		0.0217	0.100	1	07/23/2024 19:09	WG2328388
(S)							
a,a,a-Trifluorotoluene(FID)	95.3			77.0-120		07/23/2024 19:09	WG2328388

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

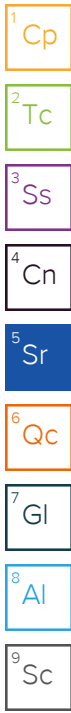
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	0.00140		0.000467	0.00100	1	07/23/2024 06:35	WG2327819
Toluene	0.00270	J	0.00130	0.00500	1	07/23/2024 06:35	WG2327819
Ethylbenzene	0.00160	J	0.000737	0.00250	1	07/23/2024 06:35	WG2327819
Xylenes, Total	0.0200		0.000880	0.00650	1	07/23/2024 06:35	WG2327819
1,2,4-Trimethylbenzene	0.00765		0.00158	0.00500	1	07/23/2024 06:35	WG2327819
1,3,5-Trimethylbenzene	0.0151		0.00200	0.00500	1	07/23/2024 06:35	WG2327819
(S) Toluene-d8	105			75.0-131		07/23/2024 06:35	WG2327819
(S) 4-Bromofluorobenzene	105			67.0-138		07/23/2024 06:35	WG2327819
(S) 1,2-Dichloroethane-d4	92.1			70.0-130		07/23/2024 06:35	WG2327819

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	371		8.05	20.0	5	07/24/2024 23:42	WG2329372
C28-C36 Motor Oil Range	680		1.37	20.0	5	07/24/2024 23:42	WG2329372
(S) o-Terphenyl	69.0			18.0-148		07/24/2024 23:42	WG2329372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acenaphthene	U		0.00209	0.00600	1	07/24/2024 23:48	WG2328846
Anthracene	U		0.00230	0.00600	1	07/24/2024 23:48	WG2328846
Benzo(a)anthracene	U		0.00173	0.00600	1	07/24/2024 23:48	WG2328846
Benzo(b)fluoranthene	U		0.00153	0.00600	1	07/24/2024 23:48	WG2328846
Benzo(k)fluoranthene	U		0.00215	0.00600	1	07/24/2024 23:48	WG2328846
Benzo(a)pyrene	U		0.00179	0.00600	1	07/24/2024 23:48	WG2328846
Chrysene	U		0.00232	0.00600	1	07/24/2024 23:48	WG2328846
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	07/24/2024 23:48	WG2328846
Fluoranthene	U		0.00227	0.00600	1	07/24/2024 23:48	WG2328846
Fluorene	U		0.00205	0.00600	1	07/24/2024 23:48	WG2328846
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	07/24/2024 23:48	WG2328846
1-Methylnaphthalene	0.238		0.00449	0.0200	1	07/24/2024 23:48	WG2328846
2-Methylnaphthalene	0.700		0.00427	0.0200	1	07/24/2024 23:48	WG2328846
Naphthalene	0.225		0.00408	0.0200	1	07/24/2024 23:48	WG2328846
Pyrene	0.0187		0.00200	0.00600	1	07/24/2024 23:48	WG2328846
(S) p-Terphenyl-d14	68.7			23.0-120		07/24/2024 23:48	WG2328846
(S) Nitrobenzene-d5	84.9			14.0-149		07/24/2024 23:48	WG2328846
(S) 2-Fluorobiphenyl	76.0			34.0-125		07/24/2024 23:48	WG2328846



Wet Chemistry by Method 7199

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Hexavalent Chromium	0.456	J	0.255	1.00	1	07/26/2024 11:37	WG2326501

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPH (GC/FID) Low Fraction	0.0458	B J	0.0217	0.100	1	07/23/2024 19:30	WG2328388
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	103			77.0-120		07/23/2024 19:30	WG2328388

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

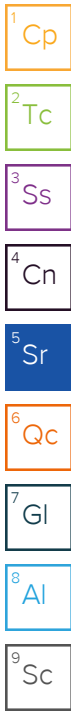
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.000467	0.00100	1	07/23/2024 06:54	WG2327819
Toluene	U		0.00130	0.00500	1	07/23/2024 06:54	WG2327819
Ethylbenzene	U		0.000737	0.00250	1	07/23/2024 06:54	WG2327819
Xylenes, Total	0.00393	J	0.000880	0.00650	1	07/23/2024 06:54	WG2327819
1,2,4-Trimethylbenzene	0.00228	J	0.00158	0.00500	1	07/23/2024 06:54	WG2327819
1,3,5-Trimethylbenzene	0.00210	J	0.00200	0.00500	1	07/23/2024 06:54	WG2327819
(S) <i>Toluene-d8</i>	104			75.0-131		07/23/2024 06:54	WG2327819
(S) <i>4</i> -Bromofluorobenzene	105			67.0-138		07/23/2024 06:54	WG2327819
(S) <i>1,2</i> -Dichloroethane- <i>d4</i>	86.9			70.0-130		07/23/2024 06:54	WG2327819

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
C10-C28 Diesel Range	29.7		1.61	4.00	1	07/24/2024 22:03	WG2329372
C28-C36 Motor Oil Range	41.1		0.274	4.00	1	07/24/2024 22:03	WG2329372
(S) <i>o</i> -Terphenyl	58.6			18.0-148		07/24/2024 22:03	WG2329372

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acenaphthene	U		0.00209	0.00600	1	07/24/2024 21:31	WG2328846
Anthracene	U		0.00230	0.00600	1	07/24/2024 21:31	WG2328846
Benzo(a)anthracene	U		0.00173	0.00600	1	07/24/2024 21:31	WG2328846
Benzo(b)fluoranthene	U		0.00153	0.00600	1	07/24/2024 21:31	WG2328846
Benzo(k)fluoranthene	U		0.00215	0.00600	1	07/24/2024 21:31	WG2328846
Benzo(a)pyrene	U		0.00179	0.00600	1	07/24/2024 21:31	WG2328846
Chrysene	U		0.00232	0.00600	1	07/24/2024 21:31	WG2328846
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	07/24/2024 21:31	WG2328846
Fluoranthene	U		0.00227	0.00600	1	07/24/2024 21:31	WG2328846
Fluorene	0.0295		0.00205	0.00600	1	07/24/2024 21:31	WG2328846
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	07/24/2024 21:31	WG2328846
1-Methylnaphthalene	0.0396		0.00449	0.0200	1	07/24/2024 21:31	WG2328846
2-Methylnaphthalene	0.113		0.00427	0.0200	1	07/24/2024 21:31	WG2328846
Naphthalene	0.0207		0.00408	0.0200	1	07/24/2024 21:31	WG2328846
Pyrene	U		0.00200	0.00600	1	07/24/2024 21:31	WG2328846
(S) <i>p</i> -Terphenyl- <i>d14</i>	63.7			23.0-120		07/24/2024 21:31	WG2328846
(S) Nitrobenzene- <i>d5</i>	74.9			14.0-149		07/24/2024 21:31	WG2328846
(S) <i>2</i> -Fluorobiphenyl	67.5			34.0-125		07/24/2024 21:31	WG2328846



Method Blank (MB)

(MB) R4099034-1 07/26/24 10:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Hexavalent Chromium	U		0.255	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1757465-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1757465-07 07/26/24 12:53 • (DUP) R4099034-11 07/26/24 13:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Hexavalent Chromium	U	U	1	0.000		20

L1757476-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1757476-03 07/26/24 13:46 • (DUP) R4099034-12 07/26/24 13:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Hexavalent Chromium	U	U	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4099034-2 07/26/24 10:21

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Hexavalent Chromium	10.0	9.12	91.2	80.0-120	

L1757465-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1757465-05 07/26/24 11:06 • (MS) R4099034-3 07/26/24 11:15 • (MSD) R4099034-4 07/26/24 11:24

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Hexavalent Chromium	20.0	U	18.8	17.9	94.2	89.6	1	75.0-125			5.01	20

L1757465-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1757465-06 07/26/24 12:08 • (MS) R4099034-7 07/26/24 12:17 • (MSD) R4099034-8 07/26/24 12:26

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Hexavalent Chromium	20.0	U	19.2	18.3	95.9	91.4	1	75.0-125			4.77	20

L1757465-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1757465-05 07/26/24 11:06 • (MS) R4099034-5 07/26/24 11:33

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Hexavalent Chromium	651	U	574	88.1	50	75.0-125	

L1757465-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1757465-06 07/26/24 12:08 • (MS) R4099034-9 07/26/24 12:35

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Hexavalent Chromium	646	U	561	86.9	50	75.0-125	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4098969-1 07/26/24 10:57

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Hexavalent Chromium	U		0.255	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1757476-26 Original Sample (OS) • Duplicate (DUP)

(OS) L1757476-26 07/26/24 11:24 • (DUP) R4098969-3 07/26/24 11:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Hexavalent Chromium	0.313	0.373	1	17.5	U	20

L1757601-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1757601-04 07/26/24 12:14 • (DUP) R4098969-4 07/26/24 12:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Hexavalent Chromium	0.283	U	1	200	P1	20

Laboratory Control Sample (LCS)

(LCS) R4098969-2 07/26/24 11:06

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Hexavalent Chromium	10.0	10.1	101	80.0-120	

L1757987-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1757987-01 07/26/24 12:38 • (MS) R4098969-5 07/26/24 12:45 • (MSD) R4098969-6 07/26/24 12:51

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Hexavalent Chromium	20.0	U	19.9	19.1	99.6	95.7	1	75.0-125			4.02	20

L1757987-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1757987-05 07/26/24 13:40 • (MS) R4098969-9 07/26/24 13:46 • (MSD) R4098969-10 07/26/24 13:53

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Hexavalent Chromium	20.0	U	20.1	20.1	100	100	1	75.0-125			0.0966	20

L1757987-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1757987-01 07/26/24 12:38 • (MS) R4098969-7 07/26/24 12:57

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Hexavalent Chromium	654	U	565	86.4	50	75.0-125	

L1757987-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1757987-05 07/26/24 13:40 • (MS) R4098969-11 07/26/24 13:59

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Hexavalent Chromium	633	U	555	87.7	50	75.0-125	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4097952-2 07/23/24 11:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0280	↓	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	112			77.0-120

Laboratory Control Sample (LCS)

(LCS) R4097952-1 07/23/24 11:03

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
TPH (GC/FID) Low Fraction	5.00	5.45	109	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			112	77.0-120	

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

Method Blank (MB)

(MB) R4097675-3 07/22/24 22:08

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	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	104			75.0-131
(S) 4-Bromofluorobenzene	101			67.0-138
(S) 1,2-Dichloroethane-d4	91.8			70.0-130

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

(LCS) R4097675-1 07/22/24 20:33 • (LCSD) R4097675-2 07/22/24 20:52

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Benzene	0.125	0.113	0.117	90.4	93.6	70.0-123			3.48	20
Toluene	0.125	0.109	0.114	87.2	91.2	75.0-121			4.48	20
Ethylbenzene	0.125	0.116	0.118	92.8	94.4	74.0-126			1.71	20
Xylenes, Total	0.375	0.356	0.370	94.9	98.7	72.0-127			3.86	20
1,2,4-Trimethylbenzene	0.125	0.119	0.121	95.2	96.8	70.0-126			1.67	20
1,3,5-Trimethylbenzene	0.125	0.120	0.122	96.0	97.6	73.0-127			1.65	20
(S) Toluene-d8				101	103	75.0-131				
(S) 4-Bromofluorobenzene				103	102	67.0-138				
(S) 1,2-Dichloroethane-d4				97.9	97.4	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) R4098178-1 07/24/24 22:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	80.2			18.0-148

Method Blank (MB)

(MB) R4098331-3 07/25/24 10:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C36 Motor Oil Range	U		0.274	4.00
(S) o-Terphenyl	80.5			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4098178-2 07/24/24 22:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	38.5	77.0	50.0-150	
(S) o-Terphenyl			79.9	18.0-148	

L1758007-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1758007-06 07/25/24 10:02 • (MS) R4098331-1 07/25/24 10:15 • (MSD) R4098331-2 07/25/24 10:28

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	48.9	U	26.9	24.2	55.0	50.1	1	50.0-150			10.6	20
(S) o-Terphenyl					52.9	47.8		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) R4098111-2 07/24/24 18:38

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	106			23.0-120
(S) Nitrobenzene-d5	84.8			14.0-149
(S) 2-Fluorobiphenyl	97.7			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4098111-1 07/24/24 18:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.0800	0.0769	96.1	50.0-120	
Anthracene	0.0800	0.0808	101	50.0-126	
Benzo(a)anthracene	0.0800	0.0804	101	45.0-120	
Benzo(b)fluoranthene	0.0800	0.0945	118	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0864	108	49.0-125	
Benzo(a)pyrene	0.0800	0.0764	95.5	42.0-120	
Chrysene	0.0800	0.0889	111	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0836	105	47.0-125	
Fluoranthene	0.0800	0.0867	108	49.0-129	
Fluorene	0.0800	0.0867	108	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0793	99.1	46.0-125	
1-Methylnaphthalene	0.0800	0.0812	102	51.0-121	
2-Methylnaphthalene	0.0800	0.0787	98.4	50.0-120	
Naphthalene	0.0800	0.0773	96.6	50.0-120	
Pyrene	0.0800	0.0884	111	43.0-123	

Laboratory Control Sample (LCS)

(LCS) R4098111-1 07/24/24 18:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
(S) p-Terphenyl-d14			95.1	23.0-120	
(S) Nitrobenzene-d5			88.8	14.0-149	
(S) 2-Fluorobiphenyl			95.2	34.0-125	

L1757520-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1757520-04 07/24/24 22:57 • (MS) R4098111-3 07/24/24 23:14 • (MSD) R4098111-4 07/24/24 23:31

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 %
Acenaphthene	0.0764	U	0.0632	0.0660	82.7	85.9	1	14.0-127			4.33	27
Anthracene	0.0764	U	0.0691	0.0713	90.4	92.8	1	10.0-145			3.13	30
Benzo(a)anthracene	0.0764	U	0.0704	0.0711	92.1	92.6	1	10.0-139			0.989	30
Benzo(b)fluoranthene	0.0764	U	0.0753	0.0761	98.6	99.1	1	10.0-140			1.06	36
Benzo(k)fluoranthene	0.0764	U	0.0706	0.0721	92.4	93.9	1	10.0-137			2.10	31
Benzo(a)pyrene	0.0764	U	0.0717	0.0722	93.8	94.0	1	10.0-141			0.695	31
Chrysene	0.0764	U	0.0745	0.0762	97.5	99.2	1	10.0-145			2.26	30
Dibenz(a,h)anthracene	0.0764	U	0.0734	0.0754	96.1	98.2	1	10.0-132			2.69	31
Fluoranthene	0.0764	U	0.0731	0.0749	95.7	97.5	1	10.0-153			2.43	33
Fluorene	0.0764	U	0.0713	0.0749	93.3	97.5	1	11.0-130			4.92	29
Indeno(1,2,3-cd)pyrene	0.0764	U	0.0718	0.0719	94.0	93.6	1	10.0-137			0.139	32
1-Methylnaphthalene	0.0764	U	0.0703	0.0727	92.0	94.7	1	10.0-142			3.36	28
2-Methylnaphthalene	0.0764	0.00831	0.0745	0.0739	86.6	85.4	1	10.0-137			0.809	28
Naphthalene	0.0764	U	0.0644	0.0677	84.3	88.2	1	10.0-135			5.00	27
Pyrene	0.0764	U	0.0713	0.0730	93.3	95.1	1	10.0-148			2.36	35
(S) p-Terphenyl-d14					83.3	80.8		23.0-120				
(S) Nitrobenzene-d5					84.4	83.1		14.0-149				
(S) 2-Fluorobiphenyl					84.0	83.4		34.0-125				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

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

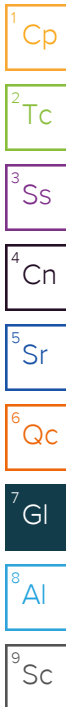
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

Abbreviations and Definitions

MDL	Method Detection Limit.
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

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.



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.





CHAIN-OF-CUSTODY Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>
Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

F229

ALL BOLD OUTLINED AREAS are for LAB USE ONLY

L175 7520

Company: Caerus Oil and Gas LLC
 Address: Info on file
 Report To: Jake Janicek, Brett Middleton, Blair Rollins, Andy Verbonitz
 Copy To: N/A
 Customer Project Name/Number: J14 496 23B-14 Flowline Release
 State: CO County/City: Garfield Time Zone Collected: []PT [X]MT []CT []ET

Container Preservative Type **
 Lab Project Manager:
 ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Phone: 303-870-8828
 Email: olivia.floyd@confluence-cc.com
 Site/Facility ID #: J14 496
 Compliance Monitoring? Yes No
 Collected By (print): Olivia Floyd
 Purchase Order #: N/A
 Quote #: N/A
 Collected By (signature): *Olivia Floyd*
 Turnaround Date Required: Standard
 Turnaround: Standard
 Immediately Packed on Ice: Yes No
 Sample Disposal:
 [X] Dispose as appropriate
 [] Return
 [] Archive:
 [] Hold:
 Rush: (Expedite Charges Apply)
 [] Same Day [] Next Day
 [] 2 Day [] 3 Day
 [] 4 Day [] 5 Day
 Field Filtered (if applicable): N/A
 [] Yes [] No
 Analysis:

Analyses	Lab Profile/Line:
Table 915-1 VOCs	Lab Sample Receipt Checklist: Y N NA
TPH (ORO, GRO, DRO)	Custody Seals Present/Intact Y N NA
Table 915-1 Metals	Custody Signatures Present Y N NA
Table 915-1 PAHs	Collector Signature Present Y N NA
pH, EC, SAR	Bottles Intact Y N NA
Boron (Hot Water Soluble Soil)	Correct Bottles Y N NA
Cr6/C	Sufficient Volume Y N NA
	Samples Received on Ice Y N NA
	VOA - Headspace Acceptable Y N NA
	USDA Regulated Soils Y N NA
	Samples in Holding Time Y N NA
	Residual Chlorine Present Y N NA
	Cl Strips: _____
	Sample pH Acceptable Y N NA
	pH Strips: _____
	Sulfide Present Y N NA
	Lead Acetate Strips: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns	Container Type: Plastic (P) or Glass (G)	Table 915-1 VOCs	TPH (ORO, GRO, DRO)	Table 915-1 Metals	Table 915-1 PAHs	pH, EC, SAR	Boron (Hot Water Soluble Soil)	Cr6/C	Lab Sample # / Comments:
			Date	Time	Date	Time											
20240715-ELU J14 496-(23B-14-POR)@ 4	SL	G	7/15/2024	1015				4	G	X	X	X	X	X	X	X	79
20240715-ELU J14 496-(23B-14-BASE)@ 3	SL	G	7/15/2024	1040				4	G	X	X	X	X	X	X	X	101
20240715-ELU J14 496-(23B-14-NW)@ 4	SL	G	7/15/2024	1005				4	G	X	X	X	X	X	X	X	103
20240715-ELU J14 496-(23B-14-SW)@ 2	SL	G	7/15/2024	1035				4	G	X	X	X	X	X	X	X	104
20240715-ELU J14 496-(23B-14-EW)@ 3.5	SL	G	7/15/2024	1020				4	G	X	X	X	X	X	X	X	105
20240715-ELU J14 496-(23B-14-WW)@ 2.5	SL	G	7/15/2024	1030				4	G	X	X	X	X	X	X	X	106

Customer Remarks / Special Conditions / Possible Hazards:
 Type of Ice Used: Wet Blue Dry None
 Packing Material Used:
 Radchem sample(s) screened (<500 cpm): Y N NA
 SHORT HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #: 8426 8306 9800
 Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#: 4.6+0.324.9 FEDA9
 Cooler 1 Temp Upon Receipt: ___°C
 Cooler 1 Therm Corr. Factor: ___°C
 Cooler 1 Corrected Temp: ___°C
 Comments:

Relinquished by/Company: <i>Olivia Floyd</i>	Date/Time: <u>7/16/24 1130</u>	Received by/Company: <i>[Signature]</i>	Date/Time:	MTJL LAB USE ONLY
Relinquished by/Company: (Signature) <i>[Signature]</i>	Date/Time: <u>7/16/24 1500</u>	Received by/Company: (Signature)	Date/Time:	Table #:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature) <i>E. Down</i>	Date/Time: <u>7-17-24</u>	Acctnum: Template: Prelogin:

Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s):
 YES / NO
 Page: 1 of 1

0900



August 09, 2024

Client Services
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122

RE: Project: L1757520 WG2325486
Pace Project No.: 10700597

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on July 19, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Yeng Ozawa
yeng.ozawa@pacelabs.com
(612)607-1700
Project Manager

Enclosures

cc: Jimmy Huckaba, Pace Analytical National Center for
Testing & Innovation



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



CERTIFICATIONS

Project: L1757520 WG2325486

Pace Project No.: 10700597

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

DoD Certification via A2LA #: 2926.01

EPA Region 8 Tribal Water Systems+Wyoming DW

Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

GMP+ Certification #: GMP050884

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

ISO/IEC 17025 Certification via A2LA #: 2926.01

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification via A2LA #: 2926.01

USDA Permit #: P330-19-00208

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: L1757520 WG2325486
Pace Project No.: 10700597

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10700597001	20240715-ELU J14 496-(23B-14-P	Solid	07/15/24 10:15	07/19/24 10:10
10700597002	20240715-ELU J14 496-(23B-14-B	Solid	07/15/24 10:40	07/19/24 10:10
10700597003	20240715-ELU J14 496-(23B-14-N	Solid	07/15/24 10:05	07/19/24 10:10
10700597004	20240715-ELU J14 496-(23B-14-S	Solid	07/15/24 10:35	07/19/24 10:10
10700597005	20240715-ELU J14 496-(23B-14-E	Solid	07/15/24 10:20	07/19/24 10:10
10700597006	20240715-ELU J14 496-(23B-14-W	Solid	07/15/24 10:30	07/19/24 10:10

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SAMPLE ANALYTE COUNT

Project: L1757520 WG2325486

Pace Project No.: 10700597

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10700597001	20240715-ELU J14 496-(23B-14-P)	WREP 125, S-7.10	DM	1	PASI-M
		WREP 125 S-1.6	DM	4	PASI-M
		EPA 6020B	NN2	9	PASI-M
		ASTM D2974	JDL	1	PASI-M
		WREP 125 S-1.20	SMB	1	PASI-M
		WREP 125 S-1.10	MER	1	PASI-M
10700597002	20240715-ELU J14 496-(23B-14-B)	WREP 125, S-7.10	DM	1	PASI-M
		WREP 125 S-1.6	DM	4	PASI-M
		EPA 6020B	NN2	9	PASI-M
		ASTM D2974	JDL	1	PASI-M
		WREP 125 S-1.20	SMB	1	PASI-M
		WREP 125 S-1.10	MER	1	PASI-M
10700597003	20240715-ELU J14 496-(23B-14-N)	WREP 125, S-7.10	DM	1	PASI-M
		WREP 125 S-1.6	DM	4	PASI-M
		EPA 6020B	NN2	9	PASI-M
		ASTM D2974	JDL	1	PASI-M
		WREP 125 S-1.20	SMB	1	PASI-M
		WREP 125 S-1.10	MER	1	PASI-M
10700597004	20240715-ELU J14 496-(23B-14-S)	WREP 125, S-7.10	DM	1	PASI-M
		WREP 125 S-1.6	DM	4	PASI-M
		EPA 6020B	NN2	9	PASI-M
		ASTM D2974	JDL	1	PASI-M
		WREP 125 S-1.20	SMB	1	PASI-M
		WREP 125 S-1.10	MER	1	PASI-M
10700597005	20240715-ELU J14 496-(23B-14-E)	WREP 125, S-7.10	DM	1	PASI-M
		WREP 125 S-1.6	DM	4	PASI-M
		EPA 6020B	NN2	9	PASI-M
		ASTM D2974	JDL	1	PASI-M
		WREP 125 S-1.20	SMB	1	PASI-M
		WREP 125 S-1.10	MER	1	PASI-M
10700597006	20240715-ELU J14 496-(23B-14-W)	WREP 125, S-7.10	DM	1	PASI-M
		WREP 125 S-1.6	DM	4	PASI-M
		EPA 6020B	NN2	9	PASI-M
		ASTM D2974	JDL	1	PASI-M
		WREP 125 S-1.20	SMB	1	PASI-M
		WREP 125 S-1.10	MER	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: L1757520 WG2325486
Pace Project No.: 10700597

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
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PASI-M = Pace Analytical Services - Minneapolis

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ANALYTICAL RESULTS

Project: L1757520 WG2325486

Pace Project No.: 10700597

Sample: 20240715-ELU J14 496- (23B-14-P) Lab ID: 10700597001 Collected: 07/15/24 10:15 Received: 07/19/24 10:10 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Hot Water Soluble Boron								
Analytical Method: WREP 125, S-7.10 Preparation Method: N/A								
Pace Analytical Services - Minneapolis								
Boron	1.1	mg/kg	0.30	1	07/30/24 11:25	07/30/24 14:54	7440-42-8	N2
Sodium Adsorption Ratio, SAR								
Analytical Method: WREP 125 S-1.6								
Pace Analytical Services - Minneapolis								
Calcium saturated paste	16.8	meq/L	0.25	10		08/08/24 11:34	7440-70-2	N2
Magnesium saturated paste	7.2	meq/L	0.41	10		08/08/24 11:34	7439-95-4	N2
Sodium Adsorption Ratio	15.5			10		08/08/24 11:34		N2
Sodium saturated paste	53.9	meq/L	0.44	10		08/08/24 11:34	7440-23-5	N2
6020B MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3050B								
Pace Analytical Services - Minneapolis								
Arsenic	4.3	mg/kg	0.46	20	07/22/24 15:49	07/23/24 21:50	7440-38-2	
Barium	1760	mg/kg	2.8	200	07/22/24 15:49	07/24/24 10:05	7440-39-3	
Cadmium	0.24	mg/kg	0.074	20	07/22/24 15:49	07/23/24 21:50	7440-43-9	
Copper	19.5	mg/kg	0.93	20	07/22/24 15:49	07/23/24 21:50	7440-50-8	
Lead	11.4	mg/kg	0.46	20	07/22/24 15:49	07/23/24 21:50	7439-92-1	
Nickel	14.1	mg/kg	0.46	20	07/22/24 15:49	07/23/24 21:50	7440-02-0	
Selenium	ND	mg/kg	0.46	20	07/22/24 15:49	07/23/24 21:50	7782-49-2	
Silver	ND	mg/kg	0.46	20	07/22/24 15:49	07/23/24 21:50	7440-22-4	
Zinc	54.4	mg/kg	4.6	20	07/22/24 15:49	07/23/24 21:50	7440-66-6	
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	6.4	%	0.10	1		07/23/24 11:25		N2
Saturated Paste Elect. Cond.								
Analytical Method: WREP 125 S-1.20								
Pace Analytical Services - Minneapolis								
Specific Conductance	8300	umhos/cm	5.0	1		08/08/24 14:38		N2
Saturated Paste pH								
Analytical Method: WREP 125 S-1.10								
Pace Analytical Services - Minneapolis								
pH at 25 Degrees C	7.30	Std. Units	0.100	1		08/07/24 15:04		N2

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L1757520 WG2325486

Pace Project No.: 10700597

Sample: 20240715-ELU J14 496- (23B-14-B) Lab ID: 10700597002 Collected: 07/15/24 10:40 Received: 07/19/24 10:10 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Hot Water Soluble Boron								
Analytical Method: WREP 125, S-7.10 Preparation Method: N/A								
Pace Analytical Services - Minneapolis								
Boron	ND	mg/kg	0.30	1	07/30/24 11:25	07/30/24 14:55	7440-42-8	N2
Sodium Adsorption Ratio, SAR								
Analytical Method: WREP 125 S-1.6								
Pace Analytical Services - Minneapolis								
Calcium saturated paste	2.2	meq/L	0.25	10		08/08/24 11:39	7440-70-2	N2
Magnesium saturated paste	1.3	meq/L	0.41	10		08/08/24 11:39	7439-95-4	N2
Sodium Adsorption Ratio	4.0			10		08/08/24 11:39		N2
Sodium saturated paste	5.3	meq/L	0.44	10		08/08/24 11:39	7440-23-5	N2
6020B MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3050B								
Pace Analytical Services - Minneapolis								
Arsenic	3.6	mg/kg	0.48	20	07/22/24 15:49	07/23/24 22:09	7440-38-2	
Barium	522	mg/kg	1.4	100	07/22/24 15:49	07/24/24 10:25	7440-39-3	
Cadmium	0.10	mg/kg	0.077	20	07/22/24 15:49	07/23/24 22:09	7440-43-9	
Copper	8.8	mg/kg	0.96	20	07/22/24 15:49	07/23/24 22:09	7440-50-8	
Lead	6.5	mg/kg	0.48	20	07/22/24 15:49	07/23/24 22:09	7439-92-1	
Nickel	12.5	mg/kg	0.48	20	07/22/24 15:49	07/23/24 22:09	7440-02-0	
Selenium	ND	mg/kg	0.48	20	07/22/24 15:49	07/23/24 22:09	7782-49-2	
Silver	ND	mg/kg	0.48	20	07/22/24 15:49	07/23/24 22:09	7440-22-4	
Zinc	32.3	mg/kg	4.8	20	07/22/24 15:49	07/23/24 22:09	7440-66-6	
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	26.5	%	0.10	1		07/23/24 11:25		N2
Saturated Paste Elect. Cond.								
Analytical Method: WREP 125 S-1.20								
Pace Analytical Services - Minneapolis								
Specific Conductance	885	umhos/cm	5.0	1		08/08/24 14:40		N2
Saturated Paste pH								
Analytical Method: WREP 125 S-1.10								
Pace Analytical Services - Minneapolis								
pH at 25 Degrees C	8.08	Std. Units	0.100	1		08/07/24 15:05		N2

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ANALYTICAL RESULTS

Project: L1757520 WG2325486

Pace Project No.: 10700597

Sample: 20240715-ELU J14 496- (23B-14-N) Lab ID: 10700597003 Collected: 07/15/24 10:05 Received: 07/19/24 10:10 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Hot Water Soluble Boron								
Analytical Method: WREP 125, S-7.10 Preparation Method: N/A								
Pace Analytical Services - Minneapolis								
Boron	1.6	mg/kg	0.30	1	07/30/24 11:25	07/30/24 14:57	7440-42-8	N2
Sodium Adsorption Ratio, SAR								
Analytical Method: WREP 125 S-1.6								
Pace Analytical Services - Minneapolis								
Calcium saturated paste	65.3	meq/L	0.50	20		08/08/24 11:50	7440-70-2	N2
Magnesium saturated paste	23.1	meq/L	0.82	20		08/08/24 11:50	7439-95-4	N2
Sodium Adsorption Ratio	20.5			20		08/08/24 11:50		N2
Sodium saturated paste	136	meq/L	0.87	20		08/08/24 11:50	7440-23-5	N2
6020B MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3050B								
Pace Analytical Services - Minneapolis								
Arsenic	3.9	mg/kg	0.47	20	07/22/24 15:49	07/23/24 21:47	7440-38-2	
Barium	8610	mg/kg	7.1	500	07/22/24 15:49	07/24/24 10:02	7440-39-3	
Cadmium	0.16	mg/kg	0.075	20	07/22/24 15:49	07/23/24 21:47	7440-43-9	
Copper	57.2	mg/kg	0.94	20	07/22/24 15:49	07/23/24 21:47	7440-50-8	
Lead	9.5	mg/kg	0.47	20	07/22/24 15:49	07/23/24 21:47	7439-92-1	
Nickel	16.1	mg/kg	0.47	20	07/22/24 15:49	07/23/24 21:47	7440-02-0	
Selenium	ND	mg/kg	0.47	20	07/22/24 15:49	07/23/24 21:47	7782-49-2	
Silver	ND	mg/kg	0.47	20	07/22/24 15:49	07/23/24 21:47	7440-22-4	
Zinc	127	mg/kg	4.7	20	07/22/24 15:49	07/23/24 21:47	7440-66-6	
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	19.5	%	0.10	1		07/23/24 11:25		N2
Saturated Paste Elect. Cond.								
Analytical Method: WREP 125 S-1.20								
Pace Analytical Services - Minneapolis								
Specific Conductance	21800	umhos/cm	5.0	1		08/08/24 14:41		N2
Saturated Paste pH								
Analytical Method: WREP 125 S-1.10								
Pace Analytical Services - Minneapolis								
pH at 25 Degrees C	7.57	Std. Units	0.100	1		08/07/24 15:06		N2

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ANALYTICAL RESULTS

Project: L1757520 WG2325486

Pace Project No.: 10700597

Sample: 20240715-ELU J14 496- (23B-14-S) Lab ID: 10700597004 Collected: 07/15/24 10:35 Received: 07/19/24 10:10 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Hot Water Soluble Boron								
Analytical Method: WREP 125, S-7.10 Preparation Method: N/A								
Pace Analytical Services - Minneapolis								
Boron	ND	mg/kg	0.30	1	07/30/24 11:25	07/30/24 15:04	7440-42-8	N2
Sodium Adsorption Ratio, SAR								
Analytical Method: WREP 125 S-1.6								
Pace Analytical Services - Minneapolis								
Calcium saturated paste	3.6	meq/L	0.25	10		08/08/24 11:42	7440-70-2	N2
Magnesium saturated paste	1.8	meq/L	0.41	10		08/08/24 11:42	7439-95-4	N2
Sodium Adsorption Ratio	2.9			10		08/08/24 11:42		N2
Sodium saturated paste	4.9	meq/L	0.44	10		08/08/24 11:42	7440-23-5	N2
6020B MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3050B								
Pace Analytical Services - Minneapolis								
Arsenic	2.9	mg/kg	0.46	20	07/22/24 15:49	07/23/24 22:06	7440-38-2	
Barium	384	mg/kg	1.4	100	07/22/24 15:49	07/24/24 10:22	7440-39-3	
Cadmium	0.11	mg/kg	0.074	20	07/22/24 15:49	07/23/24 22:06	7440-43-9	
Copper	8.4	mg/kg	0.93	20	07/22/24 15:49	07/23/24 22:06	7440-50-8	
Lead	6.0	mg/kg	0.46	20	07/22/24 15:49	07/23/24 22:06	7439-92-1	
Nickel	11.1	mg/kg	0.46	20	07/22/24 15:49	07/23/24 22:06	7440-02-0	
Selenium	ND	mg/kg	0.46	20	07/22/24 15:49	07/23/24 22:06	7782-49-2	
Silver	ND	mg/kg	0.46	20	07/22/24 15:49	07/23/24 22:06	7440-22-4	
Zinc	31.2	mg/kg	4.6	20	07/22/24 15:49	07/23/24 22:06	7440-66-6	
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	32.3	%	0.10	1		07/23/24 11:25		N2
Saturated Paste Elect. Cond.								
Analytical Method: WREP 125 S-1.20								
Pace Analytical Services - Minneapolis								
Specific Conductance	1050	umhos/cm	5.0	1		08/08/24 14:43		N2
Saturated Paste pH								
Analytical Method: WREP 125 S-1.10								
Pace Analytical Services - Minneapolis								
pH at 25 Degrees C	8.06	Std. Units	0.100	1		08/07/24 15:08		N2

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**ANALYTICAL RESULTS**

Project: L1757520 WG2325486

Pace Project No.: 10700597

Sample: 20240715-ELU J14 496- (23B-14-E) **Lab ID:** 10700597005 Collected: 07/15/24 10:20 Received: 07/19/24 10:10 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Hot Water Soluble Boron								
Analytical Method: WREP 125, S-7.10 Preparation Method: N/A								
Pace Analytical Services - Minneapolis								
Boron	0.46	mg/kg	0.30	1	07/30/24 11:25	07/30/24 15:05	7440-42-8	N2
Sodium Adsorption Ratio, SAR								
Analytical Method: WREP 125 S-1.6								
Pace Analytical Services - Minneapolis								
Calcium saturated paste	19.2	meq/L	0.25	10		08/08/24 11:44	7440-70-2	N2
Magnesium saturated paste	6.4	meq/L	0.41	10		08/08/24 11:44	7439-95-4	N2
Sodium Adsorption Ratio	3.9			10		08/08/24 11:44		N2
Sodium saturated paste	13.9	meq/L	0.44	10		08/08/24 11:44	7440-23-5	N2
6020B MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3050B								
Pace Analytical Services - Minneapolis								
Arsenic	4.0	mg/kg	0.46	20	07/22/24 15:49	07/23/24 21:53	7440-38-2	
Barium	7910	mg/kg	7.0	500	07/22/24 15:49	07/24/24 10:15	7440-39-3	
Cadmium	0.23	mg/kg	0.074	20	07/22/24 15:49	07/23/24 21:53	7440-43-9	
Copper	50.2	mg/kg	0.93	20	07/22/24 15:49	07/23/24 21:53	7440-50-8	
Lead	9.9	mg/kg	0.46	20	07/22/24 15:49	07/23/24 21:53	7439-92-1	
Nickel	17.6	mg/kg	0.46	20	07/22/24 15:49	07/23/24 21:53	7440-02-0	
Selenium	ND	mg/kg	0.46	20	07/22/24 15:49	07/23/24 21:53	7782-49-2	
Silver	ND	mg/kg	0.46	20	07/22/24 15:49	07/23/24 21:53	7440-22-4	
Zinc	133	mg/kg	4.6	20	07/22/24 15:49	07/23/24 21:53	7440-66-6	
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	19.0	%	0.10	1		07/23/24 11:26		N2
Saturated Paste Elect. Cond.								
Analytical Method: WREP 125 S-1.20								
Pace Analytical Services - Minneapolis								
Specific Conductance	4260	umhos/cm	5.0	1		08/08/24 14:43		N2
Saturated Paste pH								
Analytical Method: WREP 125 S-1.10								
Pace Analytical Services - Minneapolis								
pH at 25 Degrees C	7.70	Std. Units	0.100	1		08/07/24 15:09		N2

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**ANALYTICAL RESULTS**

Project: L1757520 WG2325486

Pace Project No.: 10700597

Sample: 20240715-ELU J14 496- (23B-14-W) **Lab ID:** 10700597006 Collected: 07/15/24 10:30 Received: 07/19/24 10:10 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Hot Water Soluble Boron								
Analytical Method: WREP 125, S-7.10 Preparation Method: N/A								
Pace Analytical Services - Minneapolis								
Boron	0.40	mg/kg	0.30	1	07/30/24 11:25	07/30/24 15:07	7440-42-8	N2
Sodium Adsorption Ratio, SAR								
Analytical Method: WREP 125 S-1.6								
Pace Analytical Services - Minneapolis								
Calcium saturated paste	13.9	meq/L	0.25	10		08/08/24 11:46	7440-70-2	N2
Magnesium saturated paste	7.7	meq/L	0.41	10		08/08/24 11:46	7439-95-4	N2
Sodium Adsorption Ratio	4.7			10		08/08/24 11:46		N2
Sodium saturated paste	15.4	meq/L	0.44	10		08/08/24 11:46	7440-23-5	N2
6020B MET ICPMS								
Analytical Method: EPA 6020B Preparation Method: EPA 3050B								
Pace Analytical Services - Minneapolis								
Arsenic	4.7	mg/kg	0.48	20	07/22/24 15:49	07/23/24 22:03	7440-38-2	
Barium	1320	mg/kg	2.9	200	07/22/24 15:49	07/24/24 10:19	7440-39-3	
Cadmium	0.12	mg/kg	0.077	20	07/22/24 15:49	07/23/24 22:03	7440-43-9	
Copper	13.8	mg/kg	0.96	20	07/22/24 15:49	07/23/24 22:03	7440-50-8	
Lead	10	mg/kg	0.48	20	07/22/24 15:49	07/23/24 22:03	7439-92-1	
Nickel	19.1	mg/kg	0.48	20	07/22/24 15:49	07/23/24 22:03	7440-02-0	
Selenium	ND	mg/kg	0.48	20	07/22/24 15:49	07/23/24 22:03	7782-49-2	
Silver	ND	mg/kg	0.48	20	07/22/24 15:49	07/23/24 22:03	7440-22-4	
Zinc	79.1	mg/kg	4.8	20	07/22/24 15:49	07/23/24 22:03	7440-66-6	
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	10.7	%	0.10	1		07/23/24 11:26		N2
Saturated Paste Elect. Cond.								
Analytical Method: WREP 125 S-1.20								
Pace Analytical Services - Minneapolis								
Specific Conductance	3940	umhos/cm	5.0	1		08/08/24 14:45		N2
Saturated Paste pH								
Analytical Method: WREP 125 S-1.10								
Pace Analytical Services - Minneapolis								
pH at 25 Degrees C	7.71	Std. Units	0.100	1		08/07/24 15:10		N2

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: L1757520 WG2325486

Pace Project No.: 10700597

QC Batch: 961421 Analysis Method: WREP 125 S-1.6
 QC Batch Method: WREP 125 S-1.6 Analysis Description: Saturated Paste SAR
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

METHOD BLANK: 5025073 Matrix: Solid
 Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Calcium saturated paste	meq/L	ND	0.025	08/08/24 11:05	N2
Magnesium saturated paste	meq/L	ND	0.041	08/08/24 11:05	N2
Sodium Adsorption Ratio		0.0061		08/08/24 11:05	N2
Sodium saturated paste	meq/L	ND	0.044	08/08/24 11:05	N2

LABORATORY CONTROL SAMPLE & LCSD: 5025074 5025075

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Calcium saturated paste	meq/L	1	0.96	0.96	96	96	80-120	0	20	N2
Magnesium saturated paste	meq/L	1.6	1.6	1.6	96	96	80-120	0	20	N2
Sodium Adsorption Ratio			0.74	0.75				0		N2
Sodium saturated paste	meq/L	0.87	0.84	0.84	96	97	80-120	0	20	N2

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QUALITY CONTROL DATA

Project: L1757520 WG2325486

Pace Project No.: 10700597

QC Batch: 957695 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3050B Analysis Description: 6020B Solids UPD5
 Laboratory: Pace Analytical Services - Minneapolis
 Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

METHOD BLANK: 5006729 Matrix: Solid
 Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.47	07/23/24 21:25	
Barium	mg/kg	ND	0.28	07/24/24 09:40	
Cadmium	mg/kg	ND	0.075	07/23/24 21:25	
Copper	mg/kg	ND	0.93	07/23/24 21:25	
Lead	mg/kg	ND	0.47	07/23/24 21:25	
Nickel	mg/kg	ND	0.47	07/23/24 21:25	
Selenium	mg/kg	ND	0.47	07/23/24 21:25	
Silver	mg/kg	ND	0.47	07/23/24 21:25	
Zinc	mg/kg	ND	4.7	07/23/24 21:25	

LABORATORY CONTROL SAMPLE: 5006730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	45.8	45.2	99	80-120	
Barium	mg/kg	45.8	46.5	102	80-120	
Cadmium	mg/kg	45.8	45.4	99	80-120	
Copper	mg/kg	45.8	47.7	104	80-120	
Lead	mg/kg	45.8	46.2	101	80-120	
Nickel	mg/kg	45.8	46.0	101	80-120	
Selenium	mg/kg	45.8	47.0	103	80-120	
Silver	mg/kg	22.9	23.4	102	80-120	
Zinc	mg/kg	45.8	47.8	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5006731 5006732

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10700774001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Arsenic	mg/kg	15.8	56.1	55.3	77.2	71.7	105	96	75-125	7	20	
Barium	mg/kg	335	56.1	55.3	399	646	13	461	75-125	47	20	E, P6, R1
Cadmium	mg/kg	0.35	56.1	55.3	53.1	55.2	94	99	75-125	4	20	
Copper	mg/kg	22.2	56.1	55.3	75.7	76.7	89	92	75-125	1	20	
Lead	mg/kg	16.0	56.1	55.3	69.4	71.7	90	96	75-125	3	20	
Nickel	mg/kg	17.6	56.1	55.3	70.9	75.6	90	100	75-125	6	20	
Selenium	mg/kg	0.58	56.1	55.3	53.9	55.0	95	98	75-125	2	20	
Silver	mg/kg	ND	28	27.7	26.1	27.2	93	98	75-125	4	20	
Zinc	mg/kg	59.6	56.1	55.3	120	127	89	103	75-125	6	20	

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QUALITY CONTROL DATA

Project: L1757520 WG2325486

Pace Project No.: 10700597

QC Batch:	959290	Analysis Method:	WREP 125, S-7.10
QC Batch Method:	N/A	Analysis Description:	Hot Water Soluble Boron
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

METHOD BLANK: 5015514 Matrix: Solid
 Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Boron	mg/kg	ND	0.30	07/30/24 14:20	N2

LABORATORY CONTROL SAMPLE: 5015515

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/kg	2	2.0	100	80-120	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5015516 5015517

Parameter	Units	10700498006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/kg	0.80	2	2	1.7	1.5	45	35	75-125	11	20	M1,N2

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QUALITY CONTROL DATA

Project: L1757520 WG2325486

Pace Project No.: 10700597

QC Batch: 957988

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight / %M by ASTM D2974

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

SAMPLE DUPLICATE: 5007916

Parameter	Units	10700591001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.3	16.8	3	30	N2

SAMPLE DUPLICATE: 5008065

Parameter	Units	10700659004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	2.7	2.4	9	30	N2

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QUALITY CONTROL DATA

Project: L1757520 WG2325486

Pace Project No.: 10700597

QC Batch:	961121	Analysis Method:	WREP 125 S-1.20
QC Batch Method:	WREP 125 S-1.20	Analysis Description:	Electrical Conductivity Paste
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

METHOD BLANK: 5023923 Matrix: Solid

Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Specific Conductance	umhos/cm	ND	5.0	08/08/24 14:36	N2

LABORATORY CONTROL SAMPLE: 5023924

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance	umhos/cm	1000	957	96	90-110	N2

SAMPLE DUPLICATE: 5025000

Parameter	Units	10700597001 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance	umhos/cm	8300	8250	1	20	N2

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QUALITY CONTROL DATA

Project: L1757520 WG2325486

Pace Project No.: 10700597

QC Batch: 961120

Analysis Method: WREP 125 S-1.10

QC Batch Method: WREP 125 S-1.10

Analysis Description: Saturated Paste pH

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10700597001, 10700597002, 10700597003, 10700597004, 10700597005, 10700597006

SAMPLE DUPLICATE: 5023921

Parameter	Units	10700498001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.79	7.76	0.386		3 N2

SAMPLE DUPLICATE: 5023922

Parameter	Units	10700498011 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.74	6.68	0.894		3 N2

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QUALIFIERS

Project: L1757520 WG2325486

Pace Project No.: 10700597

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 961421

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1757520 WG2325486

Pace Project No.: 10700597

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10700597003	20240715-ELU J14 496-(23B-14-N	N/A	959290	WREP 125, S-7.10	959441
10700597001	20240715-ELU J14 496-(23B-14-P	N/A	959290	WREP 125, S-7.10	959441
10700597005	20240715-ELU J14 496-(23B-14-E	N/A	959290	WREP 125, S-7.10	959441
10700597006	20240715-ELU J14 496-(23B-14-W	N/A	959290	WREP 125, S-7.10	959441
10700597004	20240715-ELU J14 496-(23B-14-S	N/A	959290	WREP 125, S-7.10	959441
10700597002	20240715-ELU J14 496-(23B-14-B	N/A	959290	WREP 125, S-7.10	959441
10700597003	20240715-ELU J14 496-(23B-14-N	WREP 125 S-1.6	961421		
10700597001	20240715-ELU J14 496-(23B-14-P	WREP 125 S-1.6	961421		
10700597005	20240715-ELU J14 496-(23B-14-E	WREP 125 S-1.6	961421		
10700597006	20240715-ELU J14 496-(23B-14-W	WREP 125 S-1.6	961421		
10700597004	20240715-ELU J14 496-(23B-14-S	WREP 125 S-1.6	961421		
10700597002	20240715-ELU J14 496-(23B-14-B	WREP 125 S-1.6	961421		
10700597003	20240715-ELU J14 496-(23B-14-N	EPA 3050B	957695	EPA 6020B	958131
10700597001	20240715-ELU J14 496-(23B-14-P	EPA 3050B	957695	EPA 6020B	958131
10700597005	20240715-ELU J14 496-(23B-14-E	EPA 3050B	957695	EPA 6020B	958131
10700597006	20240715-ELU J14 496-(23B-14-W	EPA 3050B	957695	EPA 6020B	958131
10700597004	20240715-ELU J14 496-(23B-14-S	EPA 3050B	957695	EPA 6020B	958131
10700597002	20240715-ELU J14 496-(23B-14-B	EPA 3050B	957695	EPA 6020B	958131
10700597003	20240715-ELU J14 496-(23B-14-N	ASTM D2974	957988		
10700597001	20240715-ELU J14 496-(23B-14-P	ASTM D2974	957988		
10700597005	20240715-ELU J14 496-(23B-14-E	ASTM D2974	957988		
10700597006	20240715-ELU J14 496-(23B-14-W	ASTM D2974	957988		
10700597004	20240715-ELU J14 496-(23B-14-S	ASTM D2974	957988		
10700597002	20240715-ELU J14 496-(23B-14-B	ASTM D2974	957988		
10700597003	20240715-ELU J14 496-(23B-14-N	WREP 125 S-1.20	961121		
10700597001	20240715-ELU J14 496-(23B-14-P	WREP 125 S-1.20	961121		
10700597005	20240715-ELU J14 496-(23B-14-E	WREP 125 S-1.20	961121		
10700597006	20240715-ELU J14 496-(23B-14-W	WREP 125 S-1.20	961121		
10700597004	20240715-ELU J14 496-(23B-14-S	WREP 125 S-1.20	961121		
10700597002	20240715-ELU J14 496-(23B-14-B	WREP 125 S-1.20	961121		
10700597003	20240715-ELU J14 496-(23B-14-N	WREP 125 S-1.10	961120		
10700597001	20240715-ELU J14 496-(23B-14-P	WREP 125 S-1.10	961120		
10700597005	20240715-ELU J14 496-(23B-14-E	WREP 125 S-1.10	961120		
10700597006	20240715-ELU J14 496-(23B-14-W	WREP 125 S-1.10	961120		
10700597004	20240715-ELU J14 496-(23B-14-S	WREP 125 S-1.10	961120		
10700597002	20240715-ELU J14 496-(23B-14-B	WREP 125 S-1.10	961120		

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Sub-Contract Chain of Custody

Batch Date/Time: 07/18/24 10:11
Sub-Contract Lab: PACEMN
Address: 1700 Elm Street Suite 200
 SE
City/State: Minneapolis, MN 55414
Contact:
 Kirsten.Hogberg@pacelabs.com
Owner Lab: PACEMTJL
Address: 12065 Lebanon Rd.
City/State: Mt. Juliet, TN 37122
Phone: (615) 773-9756
Fax: (615) 758-5859



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
Phone: (615) 773-9756
Fax: (615) 758-5859

WO: WG2325486
Email: MTJLSuboutTeam@pacelabs.com
Results Due Date: 07/24/24
ESC Purchase Order #: L1757520
Send Reports to: James C Huckaba

Sample ID Container ID	Matrix	State	Collect Date	Description	Sample Number Lab Use Only	Sample Comments Lab Use Only
20240715-ELU J14 496- (23B-14-POR)@4	SS	CO	07/15/24 10:15	SUB TABLE 915 INORGANICS	1. L1757520-01	Hot Water Soluble Boron, SAR including pH and EC, 6020 Ag, As, Ba, Cd, Cu, Ni, Pb, Se, Zn
20240715-ELU J14 496- (23B-14-BASE)@3	SS	CO	07/15/24 10:40	SUB TABLE 915 INORGANICS	2. L1757520-02	Hot Water Soluble Boron, SAR including pH and EC, 6020 Ag, As, Ba, Cd, Cu, Ni, Pb, Se, Zn
20240715-ELU J14 496- (23B-14-NW)@4	SS	CO	07/15/24 10:05	SUB TABLE 915 INORGANICS	3. L1757520-03	Hot Water Soluble Boron, SAR including pH and EC, 6020 Ag, As, Ba, Cd, Cu, Ni, Pb, Se, Zn
20240715-ELU J14 496- (23B-14-SW)@2	SS	CO	07/15/24 10:35	SUB TABLE 915 INORGANICS	4. L1757520-04	Hot Water Soluble Boron, SAR including pH and EC, 6020 Ag, As, Ba, Cd, Cu, Ni, Pb, Se, Zn
20240715-ELU J14 496- (23B-14-EW)@3.5	SS	CO	07/15/24 10:20	SUB TABLE 915 INORGANICS	5. L1757520-05	Hot Water Soluble Boron, SAR including pH and EC, 6020 Ag, As, Ba, Cd, Cu, Ni, Pb, Se, Zn
20240715-ELU J14 496- (23B-14-WW)@2.5	SS	CO	07/15/24 10:30	SUB TABLE 915 INORGANICS	6. L1757520-06	Hot Water Soluble Boron, SAR including pH and EC, 6020 Ag, As, Ba, Cd, Cu, Ni, Pb, Se, Zn

01
 02
 03
 04
 05
 06

*= Container used for multiple Samples and/or Analyses

Relinquished by: [Signature] Date: 7.18.24
 Received by: [Signature] Date: 7/19/24 10:10 / cooler #2 945
 Relinquished by: _____ Date: _____
 Received by: _____ Date: _____

WO# : 10700597



10700597

ENV-FRM-MIN4-0150 v17_Sample Condition Upon Receipt

CLIENT NAME: Fluor National

PROJECT #: _____

WO#: 10700597

COURIER: Client Commercial FedEx Pace
 Speedee UPS USPS

PM: Y01 Due Date: 07/30/24
 CLIENT: PASI-TN

TRACKING NUMBER: 404104105061 See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: YES NO Seals Intact: YES NO Biological Tissue Frozen: YES NO N/A
 Packing Material: Bubble Bags Bubble Wrap None Other Temp Blank: YES NO Type of Ice: Blue Dry Wet
 Thermometer: T1 (0461) T2 (0436) T3 (0459) T4 (0402) T5 (0178) T6 (0235) Melted None
 T7 (0042) T8 (0775) T9 (0727) 01339252 (1710)

Did Samples Originate in West Virginia: YES NO Were All Container Temps taken: YES NO N/A
 Correction Factor: Fluor Cooler Temp Read w/Temp Blank: 1.6 °C Average Corrected Temp (no Temp Blank Only): _____ °C
 Cooler Temp Corrected w/Temp Blank: 1.6 °C
 NOTE: Temp should be above freezing to 6°C. See Exceptions Form ENV-FRM-MIN4-0142 1 Container

USDA Regulated Soil: N/A - Water Sample/Other (describe): _____ Initials & Date of Person Examining Contents: JMW 7/19/24
 Did Samples originate from one of the following states (check maps) - AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: YES NO Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): YES NO
 NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one):	<input type="checkbox"/> DULUTH	<input checked="" type="checkbox"/> MINNEAPOLIS	<input type="checkbox"/> VIRGINIA	YES	NO	N/A	COMMENT(S)								
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.								
Chain of Custody Relinquished?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.								
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.								
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No								
Short Hold Time Analysis (<72 hr)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom <input type="checkbox"/> HPC <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos <input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other: _____								
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.								
Sufficient Sample Volume?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.								
Correct Containers Used?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.								
- Pace Containers Used?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
Containers Intact?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.								
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. Is sediment visible in the dissolved container: <input type="checkbox"/> YES <input type="checkbox"/> NO								
Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11. If NO, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142								
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS NOTE: If adding preservation to the container, verify with the PM first. Clients may require adding preservative to the field and equipment blanks when this occurs.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12. Sample #: <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO pH Paper Lot # <table border="1" style="width: 100%;"> <tr> <th>Residual Chlorine</th> <th>0-6 Roll</th> <th>0-6 Strip</th> <th>0-14 Strip</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142	Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip				
Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip												
Headspace in Methyl Mercury Container?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.								
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.								
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0140								
Trip Blanks Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.								
Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pace Trip Blank Lot # (if purchased): _____								

CLIENT NOTIFICATION / RESOLUTION

FIELD DATA REQUIRED: YES NO

Person Contacted: _____ Date & Time: _____
 Comments / Resolution: _____

Project Manager Review: Yeng Ozawa Date: 7/19/24

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

Labeled By: JMW Line: 5

ENV-FRM-MIN4-0142 v03_Sample Condition Upon Receipt - Exceptions

Workorder #: _____

No Temp Blank		
Read Temp	Corrected Temp	Average temp

PM Notified of Out of Temp Cooler? <input type="checkbox"/> YES <input type="checkbox"/> NO If yes, indicate who was contacted, date and time. If no, indicate reason why. _____
Multiple Cooler Project? <input type="checkbox"/> YES <input type="checkbox"/> NO

If anything is OVER 6.0°C, you MUST document containers in this section HERE



Tracking Number	Temperature
404104705077	1.9

Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples										
Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								YES	NO	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	

Comments:
