

CTEH - ER

Sample Delivery Group: L1867552
Samples Received: 06/08/2025
Project Number: PROJ-054017
Description: Bishop Loss of Containment Incident
Site: GALETON, CO
Report To: CTEH
5120 North Shore Drive
North Little Rock, AR 72118

Entire Report Reviewed By:



Jared Starkey
Project Manager

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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Ds
⁶ Sr
⁷ Qc
⁸ Gl
⁹ Al
¹⁰ Sc

SAMPLE SUMMARY

GACO0607T131-1S001 L1867552-01

Collected by Tristan Fontenot
Collected date/time 06/07/25 12:45
Received date/time 06/08/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2536018	1	06/12/25 08:50	06/12/25 08:50	RLS	Mt. Juliet, TN
Calculated Results	WG2533600	1	06/08/25 14:45	06/10/25 12:16	KMB	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2533562	1	06/08/25 09:34	06/08/25 09:43	JAV	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2533836	1	06/09/25 15:33	06/09/25 22:01	RTW	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2533911	5	06/09/25 19:51	06/10/25 12:16	KMB	Mt. Juliet, TN
Wet Chemistry by Method 7199	WG2533376	1	06/08/25 22:36	06/10/25 02:28	VSS	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2537105	1	06/12/25 13:32	06/12/25 13:56	RJP	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2537108	1	06/12/25 13:34	06/12/25 15:18	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2533600	1	06/08/25 14:45	06/08/25 21:44	ZSA	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2533653	5	06/08/25 15:00	06/10/25 11:42	PAN	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2536079	2	06/11/25 19:20	06/12/25 08:59	RLS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2533009	1	06/08/25 12:39	06/08/25 15:17	JTM	Mt. Juliet, TN
Metals (ICPMS) by Method 6020B	WG2538081	5	06/08/25 12:28	06/13/25 15:04	JPD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D	WG2533688	25	06/08/25 11:16	06/08/25 16:04	ADM	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2533662	1	06/08/25 11:16	06/08/25 14:24	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2533615	1	06/08/25 11:48	06/08/25 17:10	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2533616	1	06/08/25 11:55	06/08/25 14:32	LS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG2533618	1	06/08/25 11:54	06/08/25 14:40	KB	Mt. Juliet, TN



GACO0607T131-1S001 L1867552-02

Collected by Tristan Fontenot
Collected date/time 06/07/25 12:45
Received date/time 06/08/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method DOE Ga-01-R/901.1	WG2534740	1	06/09/25 08:05	06/10/25 12:46	ZRG	Mt. Juliet, TN

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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 radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. 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.



Jared Starkey
Project Manager

Project Comments

L1867552-01 - Benidine is reporting with critically low recovery in the laboratory control sample(s). This compound is a method defined poor performer. Results are estimated.

Wet Chemistry by Method 4500NOrg D-2021

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

Batch	Lab Sample ID	Analytes
WG2533911	(MS) R4228132-3	Kjeldahl Nitrogen, TKN
WG2533911	(MSD) R4228132-4	Kjeldahl Nitrogen, TKN

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2533911	(MS) R4228132-3, (MSD) R4228132-4	Kjeldahl Nitrogen, TKN

Wet Chemistry by Method 7199

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2533376	(MSD) R4227897-4	Hexavalent Chromium

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2533376	(MSD) R4227897-4	Hexavalent Chromium

Wet Chemistry by Method 9056A

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2533600	(MS) R4227436-3, (MSD) R4227436-4	Nitrate-Nitrite

Metals (ICP) by Method 6010D

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2533009	(MS) R4227307-5, (MSD) R4227307-6	Aluminum, Calcium, Iron and Magnesium



CASE NARRATIVE

Metals (ICP) by Method 6010D

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG2533009	(MS) R4227307-5, (MSD) R4227307-6	Manganese

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2533009	(MSD) R4227307-6	Potassium

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2533009	(MSD) R4227307-6	Aluminum and Iron

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

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG2533662	L1867552-01	1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 2-Butanone (MEK), Bromomethane, Dichlorodifluoromethane and Hexachloro-1,3-butadiene

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG2533616	L1867552-01	Benzylbutyl phthalate, Bis(2-ethylhexyl)phthalate, Di-n-octyl phthalate and n-Nitrosodimethylamine

The initial calibration verification standard (SSCV) associated with this data responded high.

Batch	Lab Sample ID	Analytes
WG2533616	L1867552-01	Hexachlorocyclopentadiene

The associated batch QC was below the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG2533616	(LCS) R4227328-1, L1867552-01	Benzidine

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG2533616	(MS) R4227328-3, (MSD) R4227328-4	3,3-Dichlorobenzidine, Benzidine and Hexachlorocyclopentadiene



DETECTION SUMMARY

Calculated Results

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
GACO0607T131-1S001	L1867552-01	Total Nitrogen	786		22.7	1	06/10/2025 12:16	WG2533600

Radiochemistry by Method DOE Ga-01-R/901.1

Client ID	Lab Sample ID	Analyte	Result pCi/g	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/g	Lc pCi/g	Analysis Date date / time	Batch
GACO0607T131-1S001	L1867552-02	Actinium-228 (Ra-228)	1.30		0.267	0.267	0.322	0.134	06/10/2025 12:46	WG2534740
GACO0607T131-1S001	L1867552-02	Bismuth-214 (Ra-226)	0.877		0.185	0.185	0.232	0.104	06/10/2025 12:46	WG2534740
GACO0607T131-1S001	L1867552-02	Lead-214	1.40		0.170	0.170	0.186	0.0838	06/10/2025 12:46	WG2534740
GACO0607T131-1S001	L1867552-02	Thorium-234 (U-238)	1.05	J	0.748	0.748	1.60	0.638	06/10/2025 12:46	WG2534740
GACO0607T131-1S001	L1867552-02	Radium-226 (186 KeV)	0.816	J	0.666	0.666	1.11	0.523	06/10/2025 12:46	WG2534740

Wet Chemistry by Method 4500NOrg D-2021

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
GACO0607T131-1S001	L1867552-01	Kjeldahl Nitrogen, TKN	779		114	5	06/10/2025 12:16	WG2533911

Wet Chemistry by Method 7199

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
GACO0607T131-1S001	L1867552-01	Hexavalent Chromium	0.273		0.227	1	06/10/2025 02:28	WG2533376

Wet Chemistry by Method 9050AMod

Client ID	Lab Sample ID	Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
GACO0607T131-1S001	L1867552-01	Specific Conductance	461	umhos/cm		10.0	1	06/12/2025 15:18	WG2537108

Wet Chemistry by Method WALKLEY-BLACK

Client ID	Lab Sample ID	Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
GACO0607T131-1S001	L1867552-01	TOC By Walkley Black	9860		500	5	06/10/2025 11:42	WG2533653

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

Client ID	Lab Sample ID	Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
GACO0607T131-1S001	L1867552-01	Hot Water Sol. Boron	0.697		0.400	2	06/12/2025 08:59	WG2536079



DETECTION SUMMARY

Metals (ICP) by Method 6010D

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
GACO0607T131-1S001	L1867552-01	Aluminum	5270		22.7	1	06/08/2025 15:17	WG2533009
GACO0607T131-1S001	L1867552-01	Beryllium	0.345		0.227	1	06/08/2025 15:17	WG2533009
GACO0607T131-1S001	L1867552-01	Calcium	4600		114	1	06/08/2025 15:17	WG2533009
GACO0607T131-1S001	L1867552-01	Chromium	6.34		1.14	1	06/08/2025 15:17	WG2533009
GACO0607T131-1S001	L1867552-01	Cobalt	3.56		1.14	1	06/08/2025 15:17	WG2533009
GACO0607T131-1S001	L1867552-01	Iron	6860		11.4	1	06/08/2025 15:17	WG2533009
GACO0607T131-1S001	L1867552-01	Magnesium	2150		114	1	06/08/2025 15:17	WG2533009
GACO0607T131-1S001	L1867552-01	Manganese	180		1.14	1	06/08/2025 15:17	WG2533009
GACO0607T131-1S001	L1867552-01	Potassium	1820		114	1	06/08/2025 15:17	WG2533009
GACO0607T131-1S001	L1867552-01	Sodium	461		114	1	06/08/2025 15:17	WG2533009
GACO0607T131-1S001	L1867552-01	Vanadium	12.0		2.27	1	06/08/2025 15:17	WG2533009

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

Metals (ICPMS) by Method 6020B

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
GACO0607T131-1S001	L1867552-01	Arsenic	2.84		0.114	5	06/13/2025 15:04	WG2538081
GACO0607T131-1S001	L1867552-01	Barium	68.2		11.4	5	06/13/2025 15:04	WG2538081
GACO0607T131-1S001	L1867552-01	Cadmium	0.173		0.114	5	06/13/2025 15:04	WG2538081
GACO0607T131-1S001	L1867552-01	Selenium	0.191		0.114	5	06/13/2025 15:04	WG2538081

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

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

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
GACO0607T131-1S001	L1867552-01	Chloroform	0.106		0.00318	1	06/08/2025 14:24	WG2533662

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

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
GACO0607T131-1S001	L1867552-01	C28-C36 Motor Oil Range	14.3		4.54	1	06/08/2025 17:10	WG2533615

Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	1.93		1	06/12/2025 08:50	WG2536018

Calculated Results

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	786		22.7	1	06/10/2025 12:16	WG2533600

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.1		1	06/08/2025 09:43	WG2533562

Wet Chemistry by Method 350.1

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		11.4	1	06/09/2025 22:01	WG2533836

Wet Chemistry by Method 4500NOrg D-2021

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	779		114	5	06/10/2025 12:16	WG2533911

Wet Chemistry by Method 7199

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Hexavalent Chromium	0.273		0.227	1	06/10/2025 02:28	WG2533376

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	8.72		1	06/12/2025 13:56	WG2537105

Sample Narrative:

L1867552-01 WG2537105: 8.72 at 23C

Wet Chemistry by Method 9050AMod

Analyte	Result	Units	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	461	umhos/cm		10.0	1	06/12/2025 15:18	WG2537108

Sample Narrative:

L1867552-01 WG2537108: at 25C

Wet Chemistry by Method 9056A

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		22.7	1	06/08/2025 21:44	WG2533600

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	9860		500	5	06/10/2025 11:42	WG2533653

1Cp

2Tc

3Ss

4Cn

5Ds

6Sr

7Qc

8Gl

9Al

10Sc

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

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	0.697		0.400	2	06/12/2025 08:59	WG2536079

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Metals (ICP) by Method 6010D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Aluminum	5270		22.7	1	06/08/2025 15:17	WG2533009
Antimony	ND		2.27	1	06/08/2025 15:17	WG2533009
Beryllium	0.345		0.227	1	06/08/2025 15:17	WG2533009
Calcium	4600		114	1	06/08/2025 15:17	WG2533009
Chromium	6.34		1.14	1	06/08/2025 15:17	WG2533009
Cobalt	3.56		1.14	1	06/08/2025 15:17	WG2533009
Iron	6860		11.4	1	06/08/2025 15:17	WG2533009
Magnesium	2150		114	1	06/08/2025 15:17	WG2533009
Manganese	180		1.14	1	06/08/2025 15:17	WG2533009
Potassium	1820		114	1	06/08/2025 15:17	WG2533009
Sodium	461		114	1	06/08/2025 15:17	WG2533009
Thallium	ND		2.27	1	06/08/2025 15:17	WG2533009
Vanadium	12.0		2.27	1	06/08/2025 15:17	WG2533009

Metals (ICPMS) by Method 6020B

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Arsenic	2.84		0.114	5	06/13/2025 15:04	WG2538081
Barium	68.2		11.4	5	06/13/2025 15:04	WG2538081
Cadmium	0.173		0.114	5	06/13/2025 15:04	WG2538081
Copper	ND		11.4	5	06/13/2025 15:04	WG2538081
Lead	ND		11.4	5	06/13/2025 15:04	WG2538081
Nickel	ND		11.4	5	06/13/2025 15:04	WG2538081
Selenium	0.191		0.114	5	06/13/2025 15:04	WG2538081
Silver	ND		0.568	5	06/13/2025 15:04	WG2538081
Zinc	ND		56.8	5	06/13/2025 15:04	WG2538081

Volatile Organic Compounds (GC) by Method 8015D

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		3.18	25	06/08/2025 16:04	WG2533688
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	99.2		77.0-120		06/08/2025 16:04	WG2533688

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

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0636	1	06/08/2025 14:24	WG2533662
Acrylonitrile	ND		0.0159	1	06/08/2025 14:24	WG2533662
Benzene	ND		0.00127	1	06/08/2025 14:24	WG2533662
Bromobenzene	ND		0.0159	1	06/08/2025 14:24	WG2533662
Bromodichloromethane	ND		0.00318	1	06/08/2025 14:24	WG2533662
Bromoform	ND		0.0318	1	06/08/2025 14:24	WG2533662
Bromomethane	ND	C3	0.0159	1	06/08/2025 14:24	WG2533662
n-Butylbenzene	ND		0.0159	1	06/08/2025 14:24	WG2533662
sec-Butylbenzene	ND		0.0159	1	06/08/2025 14:24	WG2533662
tert-Butylbenzene	ND		0.00636	1	06/08/2025 14:24	WG2533662
Carbon tetrachloride	ND		0.00636	1	06/08/2025 14:24	WG2533662
Chlorobenzene	ND		0.00318	1	06/08/2025 14:24	WG2533662
Chlorodibromomethane	ND		0.00318	1	06/08/2025 14:24	WG2533662

GACO0607T131-1S001

Collected date/time: 06/07/25 12:45

SAMPLE RESULTS - 01

L1867552

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

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chloroethane	ND		0.00636	1	06/08/2025 14:24	WG2533662
Chloroform	0.106		0.00318	1	06/08/2025 14:24	WG2533662
Chloromethane	ND		0.0159	1	06/08/2025 14:24	WG2533662
2-Chlorotoluene	ND		0.00318	1	06/08/2025 14:24	WG2533662
4-Chlorotoluene	ND		0.00636	1	06/08/2025 14:24	WG2533662
1,2-Dibromo-3-Chloropropane	ND		0.0318	1	06/08/2025 14:24	WG2533662
1,2-Dibromoethane	ND		0.00318	1	06/08/2025 14:24	WG2533662
Dibromomethane	ND		0.00636	1	06/08/2025 14:24	WG2533662
1,2-Dichlorobenzene	ND		0.00636	1	06/08/2025 14:24	WG2533662
1,3-Dichlorobenzene	ND		0.00636	1	06/08/2025 14:24	WG2533662
1,4-Dichlorobenzene	ND		0.00636	1	06/08/2025 14:24	WG2533662
Dichlorodifluoromethane	ND	C3	0.00636	1	06/08/2025 14:24	WG2533662
1,1-Dichloroethane	ND		0.00318	1	06/08/2025 14:24	WG2533662
1,2-Dichloroethane	ND		0.00318	1	06/08/2025 14:24	WG2533662
1,1-Dichloroethene	ND		0.00318	1	06/08/2025 14:24	WG2533662
cis-1,2-Dichloroethene	ND		0.00318	1	06/08/2025 14:24	WG2533662
trans-1,2-Dichloroethene	ND		0.00636	1	06/08/2025 14:24	WG2533662
1,2-Dichloropropane	ND		0.00636	1	06/08/2025 14:24	WG2533662
1,1-Dichloropropene	ND		0.00318	1	06/08/2025 14:24	WG2533662
1,3-Dichloropropane	ND		0.00636	1	06/08/2025 14:24	WG2533662
cis-1,3-Dichloropropene	ND		0.00318	1	06/08/2025 14:24	WG2533662
trans-1,3-Dichloropropene	ND		0.00636	1	06/08/2025 14:24	WG2533662
2,2-Dichloropropane	ND		0.00318	1	06/08/2025 14:24	WG2533662
Di-isopropyl ether	ND		0.00127	1	06/08/2025 14:24	WG2533662
Ethylbenzene	ND		0.0127	1	06/08/2025 14:24	WG2533662
Hexachloro-1,3-butadiene	ND	C3	0.0318	1	06/08/2025 14:24	WG2533662
Isopropylbenzene	ND		0.00318	1	06/08/2025 14:24	WG2533662
p-Isopropyltoluene	ND		0.00636	1	06/08/2025 14:24	WG2533662
2-Butanone (MEK)	ND	C3	0.127	1	06/08/2025 14:24	WG2533662
Methylene Chloride	ND		0.0318	1	06/08/2025 14:24	WG2533662
4-Methyl-2-pentanone (MIBK)	ND		0.0318	1	06/08/2025 14:24	WG2533662
Methyl tert-butyl ether	ND		0.00127	1	06/08/2025 14:24	WG2533662
n-Propylbenzene	ND		0.00636	1	06/08/2025 14:24	WG2533662
Styrene	ND		0.0159	1	06/08/2025 14:24	WG2533662
1,1,1,2-Tetrachloroethane	ND		0.00318	1	06/08/2025 14:24	WG2533662
1,1,2,2-Tetrachloroethane	ND		0.00318	1	06/08/2025 14:24	WG2533662
1,1,2-Trichlorotrifluoroethane	ND		0.00318	1	06/08/2025 14:24	WG2533662
Tetrachloroethene	ND		0.00318	1	06/08/2025 14:24	WG2533662
Toluene	ND		0.0127	1	06/08/2025 14:24	WG2533662
1,2,3-Trichlorobenzene	ND	C3	0.0159	1	06/08/2025 14:24	WG2533662
1,2,4-Trichlorobenzene	ND	C3	0.0159	1	06/08/2025 14:24	WG2533662
1,1,1-Trichloroethane	ND		0.00318	1	06/08/2025 14:24	WG2533662
1,1,2-Trichloroethane	ND		0.00318	1	06/08/2025 14:24	WG2533662
Trichloroethene	ND		0.00127	1	06/08/2025 14:24	WG2533662
Trichlorofluoromethane	ND		0.00318	1	06/08/2025 14:24	WG2533662
1,2,3-Trichloropropane	ND		0.0159	1	06/08/2025 14:24	WG2533662
1,2,3-Trimethylbenzene	ND		0.00636	1	06/08/2025 14:24	WG2533662
1,2,4-Trimethylbenzene	ND		0.00636	1	06/08/2025 14:24	WG2533662
1,3,5-Trimethylbenzene	ND		0.00636	1	06/08/2025 14:24	WG2533662
Vinyl chloride	ND		0.00318	1	06/08/2025 14:24	WG2533662
Xylenes, Total	ND		0.127	1	06/08/2025 14:24	WG2533662
(S) Toluene-d8	103		75.0-131		06/08/2025 14:24	WG2533662
(S) 4-Bromofluorobenzene	95.6		67.0-138		06/08/2025 14:24	WG2533662
(S) 1,2-Dichloroethane-d4	104		70.0-130		06/08/2025 14:24	WG2533662

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

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

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	ND		4.54	1	06/08/2025 17:10	WG2533615
C28-C36 Motor Oil Range	14.3		4.54	1	06/08/2025 17:10	WG2533615
(S) o-Terphenyl	61.1		18.0-148		06/08/2025 17:10	WG2533615

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Acenaphthylene	ND		0.0378	1	06/08/2025 14:32	WG2533616
Benzidine	ND	J4	1.90	1	06/08/2025 14:32	WG2533616
Benzo(g,h,i)perylene	ND		0.0378	1	06/08/2025 14:32	WG2533616
Bis(2-chlorethoxy)methane	ND		0.378	1	06/08/2025 14:32	WG2533616
Bis(2-chloroethyl)ether	ND		0.378	1	06/08/2025 14:32	WG2533616
2,2-Oxybis(1-Chloropropane)	ND		0.378	1	06/08/2025 14:32	WG2533616
4-Bromophenyl-phenylether	ND		0.378	1	06/08/2025 14:32	WG2533616
2-Chloronaphthalene	ND		0.0378	1	06/08/2025 14:32	WG2533616
4-Chlorophenyl-phenylether	ND		0.378	1	06/08/2025 14:32	WG2533616
1,2-Dichlorobenzene	ND		0.378	1	06/08/2025 14:32	WG2533616
1,3-Dichlorobenzene	ND		0.378	1	06/08/2025 14:32	WG2533616
1,4-Dichlorobenzene	ND		0.378	1	06/08/2025 14:32	WG2533616
3,3-Dichlorobenzidine	ND		0.378	1	06/08/2025 14:32	WG2533616
2,4-Dinitrotoluene	ND		0.378	1	06/08/2025 14:32	WG2533616
2,6-Dinitrotoluene	ND		0.378	1	06/08/2025 14:32	WG2533616
Hexachlorobenzene	ND		0.378	1	06/08/2025 14:32	WG2533616
Hexachloro-1,3-butadiene	ND		0.378	1	06/08/2025 14:32	WG2533616
Hexachlorocyclopentadiene	ND	C7	0.378	1	06/08/2025 14:32	WG2533616
Hexachloroethane	ND		0.378	1	06/08/2025 14:32	WG2533616
Isophorone	ND		0.378	1	06/08/2025 14:32	WG2533616
Nitrobenzene	ND		0.378	1	06/08/2025 14:32	WG2533616
n-Nitrosodimethylamine	ND	C3	0.378	1	06/08/2025 14:32	WG2533616
n-Nitrosodiphenylamine	ND		0.378	1	06/08/2025 14:32	WG2533616
n-Nitrosodi-n-propylamine	ND		0.378	1	06/08/2025 14:32	WG2533616
Phenanthrene	ND		0.0378	1	06/08/2025 14:32	WG2533616
Benzylbutyl phthalate	ND	C3	0.378	1	06/08/2025 14:32	WG2533616
Bis(2-ethylhexyl)phthalate	ND	C3	0.378	1	06/08/2025 14:32	WG2533616
Di-n-butyl phthalate	ND		0.378	1	06/08/2025 14:32	WG2533616
Diethyl phthalate	ND		0.378	1	06/08/2025 14:32	WG2533616
Dimethyl phthalate	ND		0.378	1	06/08/2025 14:32	WG2533616
Di-n-octyl phthalate	ND	C3	0.378	1	06/08/2025 14:32	WG2533616
1,2,4-Trichlorobenzene	ND		0.378	1	06/08/2025 14:32	WG2533616
4-Chloro-3-methylphenol	ND		0.378	1	06/08/2025 14:32	WG2533616
2-Chlorophenol	ND		0.378	1	06/08/2025 14:32	WG2533616
2,4-Dichlorophenol	ND		0.378	1	06/08/2025 14:32	WG2533616
2,4-Dimethylphenol	ND		0.378	1	06/08/2025 14:32	WG2533616
4,6-Dinitro-2-methylphenol	ND		0.378	1	06/08/2025 14:32	WG2533616
2,4-Dinitrophenol	ND		0.378	1	06/08/2025 14:32	WG2533616
2-Nitrophenol	ND		0.378	1	06/08/2025 14:32	WG2533616
4-Nitrophenol	ND		0.378	1	06/08/2025 14:32	WG2533616
Pentachlorophenol	ND		0.378	1	06/08/2025 14:32	WG2533616
Phenol	ND		0.378	1	06/08/2025 14:32	WG2533616
2,4,6-Trichlorophenol	ND		0.378	1	06/08/2025 14:32	WG2533616
(S) 2-Fluorophenol	57.5		12.0-120		06/08/2025 14:32	WG2533616
(S) Phenol-d5	55.3		10.0-120		06/08/2025 14:32	WG2533616
(S) Nitrobenzene-d5	48.9		10.0-122		06/08/2025 14:32	WG2533616
(S) 2-Fluorobiphenyl	58.8		15.0-120		06/08/2025 14:32	WG2533616
(S) 2,4,6-Tribromophenol	79.1		10.0-127		06/08/2025 14:32	WG2533616
(S) p-Terphenyl-d14	70.6		10.0-120		06/08/2025 14:32	WG2533616

1Cp

2Tc

3Ss

4Cn

5Ds

6Sr

7Qc

8Gl

9Al

10Sc

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

Analyte	Result (dry) mg/kg	Qualifier	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	ND		0.0375	1	06/08/2025 14:40	WG2533618
Acenaphthene	ND		0.0375	1	06/08/2025 14:40	WG2533618
Acenaphthylene	ND		0.0375	1	06/08/2025 14:40	WG2533618
Benzo(a)anthracene	ND		0.00681	1	06/08/2025 14:40	WG2533618
Benzo(a)pyrene	ND		0.0375	1	06/08/2025 14:40	WG2533618
Benzo(b)fluoranthene	ND		0.0375	1	06/08/2025 14:40	WG2533618
Benzo(g,h,i)perylene	ND		0.0375	1	06/08/2025 14:40	WG2533618
Benzo(k)fluoranthene	ND		0.0375	1	06/08/2025 14:40	WG2533618
Chrysene	ND		0.0375	1	06/08/2025 14:40	WG2533618
Dibenz(a,h)anthracene	ND		0.0375	1	06/08/2025 14:40	WG2533618
Fluoranthene	ND		0.0375	1	06/08/2025 14:40	WG2533618
Fluorene	ND		0.0375	1	06/08/2025 14:40	WG2533618
Indeno(1,2,3-cd)pyrene	ND		0.0375	1	06/08/2025 14:40	WG2533618
Naphthalene	ND		0.00341	1	06/08/2025 14:40	WG2533618
Phenanthrene	ND		0.0375	1	06/08/2025 14:40	WG2533618
Pyrene	ND		0.0375	1	06/08/2025 14:40	WG2533618
1-Methylnaphthalene	ND		0.00341	1	06/08/2025 14:40	WG2533618
2-Methylnaphthalene	ND		0.0136	1	06/08/2025 14:40	WG2533618
(S) p-Terphenyl-d14	79.8		23.0-120		06/08/2025 14:40	WG2533618
(S) Nitrobenzene-d5	74.5		14.0-149		06/08/2025 14:40	WG2533618
(S) 2-Fluorobiphenyl	83.4		34.0-125		06/08/2025 14:40	WG2533618

1Cp

2Tc

3Ss

4Cn

5Ds

6Sr

7Qc

8Gl

9Al

10Sc

Radiochemistry by Method DOE Ga-01-R/901.1

Analyte	Result pCi/g	Qualifier	2 sigma CE + / -	TPU + / -	MDA pCi/g	Lc pCi/g	Analysis Date date / time	Batch
Actinium-228 (Ra-228)	1.30		0.267	0.267	0.322	0.134	06/10/2025 12:46	WG2534740
Bismuth-214 (Ra-226)	0.877		0.185	0.185	0.232	0.104	06/10/2025 12:46	WG2534740
Lead-214	1.40		0.170	0.170	0.186	0.0838	06/10/2025 12:46	WG2534740
Thorium-234 (U-238)	1.05	U	0.748	0.748	1.60	0.638	06/10/2025 12:46	WG2534740
Radium-226 (186 KeV)	0.816	U	0.666	0.666	1.11	0.523	06/10/2025 12:46	WG2534740

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4228175-1 06/10/25 10:36

Analyte	MB Result pCi/g	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/g	MB Lc pCi/g
Actinium-228 (Ra-228)	-0.0869	⌋	0.226	0.592	0.247
Americium-241	0.0760	⌋	0.195	0.370	0.173
Bismuth-214 (Ra-226)	0.0221	⌋	0.156	0.351	0.152
Cesium-137	-0.0349	⌋	0.0952	0.202	0.0877
Cobalt-60	-0.000373	⌋	0.0455	0.168	0.0648
Lead-214	-0.0758	⌋	0.121	0.314	0.138
Radium-226 (186 KeV)	1.26	⌋	0.801	1.35	0.606
Thorium-234 (U-238)	1.07	⌋	0.909	2.18	0.853

L1867308-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1867308-02 06/10/25 10:42 • (DUP) R4228175-3 06/10/25 11:29

Analyte	Original Result pCi/g	Original 2 sigma CE + / -	Original MDA pCi/g	Original Lc pCi/g	DUP Result pCi/g	DUP 2 sigma CE + / -	DUP MDA pCi/g	DUP Lc pCi/g	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Actinium-228 (Ra-228)	0.783	0.350	0.775	0.348	0.993	0.245	0.449	0.201	23.7	0.494		20	3
Bismuth-214 (Ra-226)	0.752	0.224	0.323	0.144	0.569	0.157	0.233	0.106	27.7	0.669		20	3
Lead-214	0.708	0.193	0.310	0.141	0.559	0.142	0.240	0.111	23.5	0.623		20	3
Radium-226 (186 KeV)	1.08	0.964	1.76	0.820	0.801	0.809	1.51	0.710	29.8	0.223	⌋	20	3
Thorium-234 (U-238)	0.883	1.55	3.30	1.31	-0.451	1.34	2.96	1.17	200	0.653	⌋	20	3

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

(LCS) R4228175-2 06/10/25 10:37 • (LCSD) R4228175-4 06/10/25 11:29

Analyte	Spike Amount pCi/g	LCS Result pCi/g	LCSD Result pCi/g	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Americium-241	36.9	32.8	39.3	88.8	106	80.0-120			18.0	20
Cesium-137	53.8	58.0	58.4	108	109	80.0-120			0.756	20
Cobalt-60	62.9	66.9	67.1	106	107	80.0-120			0.388	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Ds

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Method Blank (MB)

(MB) R4227455-1 06/08/25 09:43

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

L1867550-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1867550-01 06/08/25 09:43 • (DUP) R4227455-3 06/08/25 09:43

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	78.3	78.4	1	0.131		10

Laboratory Control Sample (LCS)

(LCS) R4227455-2 06/08/25 09:43

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	90.0-110	

1Cp

2Tc

3Ss

4Cn

5Ds

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4227881-1 06/09/25 21:22

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Ammonia Nitrogen	U		7.19	10.0

L1867315-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1867315-13 06/09/25 21:43 • (DUP) R4227881-5 06/09/25 21:45

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Ammonia Nitrogen	ND	ND	1	0.000		20

L1867553-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1867553-01 06/09/25 22:03 • (DUP) R4227881-6 06/09/25 22:04

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Ammonia Nitrogen	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4227881-2 06/09/25 21:24

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Ammonia Nitrogen	250	246	98.5	90.0-110	

L1867315-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867315-08 06/09/25 21:30 • (MS) R4227881-3 06/09/25 21:31 • (MSD) R4227881-4 06/09/25 21:33

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Ammonia Nitrogen	295	ND	303	296	103	100	1	90.0-110			2.40	20

1Cp

2Tc

3Ss

4Cn

5Ds

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4228132-1 06/10/25 11:51

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Kjeldahl Nitrogen, TKN	U		15.2	20.0

L1867315-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1867315-14 06/10/25 12:01 • (DUP) R4228132-5 06/10/25 12:03

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Kjeldahl Nitrogen, TKN	1260	1420	5	12.1		20

Laboratory Control Sample (LCS)

(LCS) R4228132-2 06/10/25 11:53

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Kjeldahl Nitrogen, TKN	624	610	97.8	81.7-124	

L1867312-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867312-09 06/10/25 11:55 • (MS) R4228132-3 06/10/25 11:57 • (MSD) R4228132-4 06/10/25 11:59

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Kjeldahl Nitrogen, TKN	488	1960	1760	1810	0.000	0.000	1	81.7-124	E V	E V	3.16	20

1Cp

2Tc

3Ss

4Cn

5Ds

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4227897-1 06/09/25 22:26

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Hexavalent Chromium	U		0.200	0.200

L1867315-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1867315-12 06/10/25 00:31 • (DUP) R4227897-7 06/10/25 00:40

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	ND	ND	1	0.000		20

L1867315-19 Original Sample (OS) • Duplicate (DUP)

(OS) L1867315-19 06/10/25 01:34 • (DUP) R4227897-8 06/10/25 03:40

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Hexavalent Chromium	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4227897-2 06/09/25 22:34

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Hexavalent Chromium	10.0	10.2	102	80.0-120	

L1867315-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867315-08 06/09/25 23:10 • (MS) R4227897-3 06/09/25 23:19 • (MSD) R4227897-4 06/09/25 23:28

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	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	23.6	ND	20.1	15.5	85.2	65.8	1	75.0-125		J3 J6	25.7	20

1Cp

2Tc

3Ss

4Cn

5Ds

6Sr

7Qc

8Gl

9Al

10Sc

L1867315-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1867315-08 06/09/25 23:10 • (MS) R4227897-5 06/09/25 23:37

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MS Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Hexavalent Chromium	750	ND	714	95.1	50	75.0-125	

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

L1866520-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1866520-09 06/12/25 13:56 • (DUP) R4229416-2 06/12/25 13:56

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	7.80	7.80	1	0.000		1

Sample Narrative:

OS: 7.8 at 23.6C

DUP: 7.8 at 23.5C

L1867553-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1867553-01 06/12/25 13:56 • (DUP) R4229416-3 06/12/25 13:56

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	7.97	7.98	1	0.125		1

Sample Narrative:

OS: 7.97 at 23.1C

DUP: 7.98 at 23.5C

Laboratory Control Sample (LCS)

(LCS) R4229416-1 06/12/25 13:56

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	su	su	%	%	
pH	10.0	10.0	100	99.0-101	

Sample Narrative:

LCS: 10.02 at 22.5C

1Cp

2Tc

3Ss

4Cn

5Ds

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4229477-1 06/12/25 15:18

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

L1866520-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1866520-10 06/12/25 15:18 • (DUP) R4229477-3 06/12/25 15:18

Analyte	Original Result mmhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	ND	1560	1	0.0642		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1867552-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1867552-01 06/12/25 15:18 • (DUP) R4229477-4 06/12/25 15:18

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	461	461	1	0.000		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4229477-2 06/12/25 15:18

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	581	581	100	90.0-110	

Sample Narrative:

LCS: at 25C

1

Cp

2

Tc

3

Ss

4

Cn

5

Ds

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Method Blank (MB)

(MB) R4227436-1 06/08/25 18:07

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Nitrate-Nitrite	U		0.606	20.0

Laboratory Control Sample (LCS)

(LCS) R4227436-2 06/08/25 18:20

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Nitrate-Nitrite	40.0	38.7	96.8	80.0-120	

L1865164-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1865164-01 06/08/25 18:36 • (MS) R4227436-3 06/08/25 18:49 • (MSD) R4227436-4 06/08/25 19:03

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Nitrate-Nitrite	48.8	47.1	57.3	59.6	21.1	25.8	1	80.0-120	J6	J6	3.93	15

1Cp

2Tc

3Ss

4Cn

5Ds

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4228092-1 06/10/25 11:41

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
TOC By Walkley Black	U		25.5	100

L1867551-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1867551-01 06/10/25 11:42 • (DUP) R4228092-3 06/10/25 11:42

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
TOC By Walkley Black	21200	21100	5	0.779		20

Laboratory Control Sample (LCS)

(LCS) R4228092-2 06/10/25 11:41

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TOC By Walkley Black	3230	3730	116	75.0-144	

L1867552-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867552-01 06/10/25 11:42 • (MS) R4228092-4 06/10/25 11:43 • (MSD) R4228092-5 06/10/25 11:43

	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	%	%		%			%	%
TOC By Walkley Black	20000	9860	31600	30700	109	104	5	80.0-120			3.00	20

1Cp

2Tc

3Ss

4Cn

5Ds

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4229385-1 06/12/25 09:06

Analyte	MB Result mg/l	MB Qualifier	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) R4229385-2 06/12/25 09:07 • (LCSD) R4229385-3 06/12/25 09:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hot Water Sol. Boron	1.00	1.04	1.03	104	103	80.0-120			0.776	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Ds

6

Sr

7

Qc

8

Gl

9

Al

10

Sc

Method Blank (MB)

(MB) R4227307-1 06/08/25 14:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Aluminum	U		6.08	20.0
Antimony	U		0.691	2.00
Beryllium	U		0.0477	0.200
Calcium	U		19.0	100
Chromium	U		0.214	1.00
Cobalt	U		0.177	1.00
Iron	U		2.24	10.0
Magnesium	U		19.9	100
Manganese	U		0.173	1.00
Potassium	U		20.9	100
Sodium	U		41.2	100
Thallium	U		0.518	2.00
Vanadium	U		0.383	2.00

Laboratory Control Sample (LCS)

(LCS) R4227307-2 06/08/25 14:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Aluminum	1000	1090	109	80.0-120	
Antimony	100	106	106	80.0-120	
Beryllium	100	109	109	80.0-120	
Calcium	1000	1070	107	80.0-120	
Chromium	100	104	104	80.0-120	
Cobalt	100	104	104	80.0-120	
Iron	1000	1070	107	80.0-120	
Magnesium	1000	1070	107	80.0-120	
Manganese	100	109	109	80.0-120	
Potassium	1000	1080	108	80.0-120	
Sodium	1000	1070	107	80.0-120	
Thallium	100	105	105	80.0-120	
Vanadium	100	104	104	80.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

L1867020-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867020-02 06/08/25 14:56 • (MS) R4227307-5 06/08/25 15:01 • (MSD) R4227307-6 06/08/25 15:02

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	1140	8220	10300	7940	180	0.000	1	75.0-125	V	J3 V	25.6	20
Antimony	114	ND	100	99.6	88.1	87.4	1	75.0-125			0.833	20
Beryllium	114	0.534	128	124	112	108	1	75.0-125			3.16	20
Calcium	1140	72100	39600	38000	0.000	0.000	1	75.0-125	V	V	4.12	20
Chromium	114	15.7	149	140	117	109	1	75.0-125			5.92	20
Cobalt	114	10.2	143	137	116	111	1	75.0-125			4.07	20
Iron	1140	13000	14800	11100	164	0.000	1	75.0-125	V	J3 V	28.8	20
Magnesium	1140	9080	10300	9460	104	33.5	1	75.0-125		V	8.14	20
Manganese	114	361	530	538	148	156	1	75.0-125	J5	J5	1.58	20
Potassium	1140	2690	3950	3360	111	59.6	1	75.0-125		J6	16.0	20
Sodium	1140	505	1800	1850	114	118	1	75.0-125			2.88	20
Thallium	114	ND	123	119	108	104	1	75.0-125			3.93	20
Vanadium	114	23.2	144	134	106	97.1	1	75.0-125			6.97	20

1Cp

2Tc

3Ss

4Cn

5Ds

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4230066-1 06/13/25 14:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.100	0.100
Barium	U		10.0	10.0
Cadmium	U		0.100	0.100
Copper	U		10.0	10.0
Lead	U		10.0	10.0
Nickel	U		10.0	10.0
Selenium	U		0.100	0.100
Silver	U		0.500	0.500
Zinc	U		50.0	50.0

Laboratory Control Sample (LCS)

(LCS) R4230066-2 06/13/25 14:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	110	110	80.0-120	
Barium	100	104	104	80.0-120	
Cadmium	100	100	100	80.0-120	
Copper	100	110	110	80.0-120	
Lead	100	107	107	80.0-120	
Nickel	100	108	108	80.0-120	
Selenium	100	106	106	80.0-120	
Silver	20.0	21.5	107	80.0-120	
Zinc	100	106	106	80.0-120	

1Cp

2Tc

3Ss

4Cn

5Ds

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4227413-3 06/08/25 14:40

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		2.00	2.50
(S) a,a,a-Trifluorotoluene(FID)	97.9			77.0-120

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

(LCS) R4227413-1 06/08/25 13:07 • (LCSD) R4227413-2 06/08/25 13:30

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 %
TPH (GC/FID) Low Fraction	5.00	5.67	5.70	113	114	72.0-127			0.528	20
(S) a,a,a-Trifluorotoluene(FID)				102	102	77.0-120				

L1866601-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1866601-01 06/08/25 16:50 • (MS) R4227413-4 06/08/25 20:21 • (MSD) R4227413-5 06/08/25 20:45

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	132	ND	118	113	89.4	85.4	25	10.0-151			4.56	28
(S) a,a,a-Trifluorotoluene(FID)					90.4	104		77.0-120				

1Cp

2Tc

3Ss

4Cn

5Ds

6Sr

7Qc

8Gl

9Al

10Sc

Method Blank (MB)

(MB) R4227303-2 06/08/25 11:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0365	0.0500
Acrylonitrile	U		0.00361	0.0125
Benzene	U		0.00100	0.00100
Bromobenzene	U		0.000900	0.0125
Bromodichloromethane	U		0.000725	0.00250
Bromoform	U		0.00117	0.0250
Bromomethane	U		0.00197	0.0125
n-Butylbenzene	U		0.00525	0.0125
sec-Butylbenzene	U		0.00288	0.0125
tert-Butylbenzene	U		0.00195	0.00500
Carbon tetrachloride	U		0.000898	0.00500
Chlorobenzene	U		0.000210	0.00250
Chlorodibromomethane	U		0.000612	0.00250
Chloroethane	U		0.00170	0.00500
Chloroform	0.00620		0.00103	0.00250
Chloromethane	U		0.00435	0.0125
2-Chlorotoluene	U		0.000865	0.00250
4-Chlorotoluene	U		0.000450	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00390	0.0250
1,2-Dibromoethane	U		0.000648	0.00250
Dibromomethane	U		0.000750	0.00500
1,2-Dichlorobenzene	U		0.000425	0.00500
1,3-Dichlorobenzene	U		0.000600	0.00500
1,4-Dichlorobenzene	U		0.000700	0.00500
Dichlorodifluoromethane	U		0.00161	0.00500
1,1-Dichloroethane	U		0.000491	0.00250
1,2-Dichloroethane	U		0.000649	0.00250
1,1-Dichloroethene	U		0.000606	0.00250
cis-1,2-Dichloroethene	U		0.000734	0.00250
trans-1,2-Dichloroethene	U		0.00104	0.00500
1,2-Dichloropropane	U		0.00142	0.00500
1,1-Dichloropropene	U		0.000809	0.00250
1,3-Dichloropropane	U		0.000501	0.00500
cis-1,3-Dichloropropene	U		0.000757	0.00250
trans-1,3-Dichloropropene	U		0.00114	0.00500
2,2-Dichloropropane	U		0.00138	0.00250
Di-isopropyl ether	U		0.000410	0.00100
Ethylbenzene	U		0.0100	0.0100
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4227303-2 06/08/25 11:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00255	0.00500
2-Butanone (MEK)	U		0.0635	0.100
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.00228	0.0250
Methyl tert-butyl ether	U		0.000350	0.00100
n-Propylbenzene	U		0.000950	0.00500
Styrene	U		0.000229	0.0125
1,1,1,2-Tetrachloroethane	U		0.000948	0.00250
1,1,2,2-Tetrachloroethane	U		0.000695	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00250
Tetrachloroethene	U		0.000896	0.00250
Toluene	U		0.0100	0.0100
1,2,3-Trichlorobenzene	U		0.00733	0.0125
1,2,4-Trichlorobenzene	U		0.00440	0.0125
1,1,1-Trichloroethane	U		0.000923	0.00250
1,1,2-Trichloroethane	U		0.000597	0.00250
Trichloroethene	U		0.000584	0.00100
Trichlorofluoromethane	U		0.000827	0.00250
1,2,3-Trichloropropane	U		0.00162	0.0125
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,2,4-Trimethylbenzene	U		0.00500	0.00500
1,3,5-Trimethylbenzene	U		0.00500	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.100	0.100
(S) Toluene-d8	102			75.0-131
(S) 4-Bromofluorobenzene	86.3			67.0-138
(S) 1,2-Dichloroethane-d4	101			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R4227303-1 06/08/25 10:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.899	144	10.0-160	
Acrylonitrile	0.625	0.598	95.7	45.0-153	
Benzene	0.125	0.121	96.8	70.0-123	
Bromobenzene	0.125	0.143	114	73.0-121	
Bromodichloromethane	0.125	0.133	106	73.0-121	
Bromoform	0.125	0.115	92.0	64.0-132	

Laboratory Control Sample (LCS)

(LCS) R4227303-1 06/08/25 10:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromomethane	0.125	0.0872	69.8	56.0-147	
n-Butylbenzene	0.125	0.119	95.2	68.0-135	
sec-Butylbenzene	0.125	0.135	108	74.0-130	
tert-Butylbenzene	0.125	0.129	103	75.0-127	
Carbon tetrachloride	0.125	0.134	107	66.0-128	
Chlorobenzene	0.125	0.125	100	76.0-128	
Chlorodibromomethane	0.125	0.134	107	74.0-127	
Chloroethane	0.125	0.111	88.8	61.0-134	
Chloroform	0.125	0.122	97.6	72.0-123	
Chloromethane	0.125	0.144	115	51.0-138	
2-Chlorotoluene	0.125	0.137	110	75.0-124	
4-Chlorotoluene	0.125	0.133	106	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.107	85.6	59.0-130	
1,2-Dibromoethane	0.125	0.128	102	74.0-128	
Dibromomethane	0.125	0.123	98.4	75.0-122	
1,2-Dichlorobenzene	0.125	0.127	102	76.0-124	
1,3-Dichlorobenzene	0.125	0.127	102	76.0-125	
1,4-Dichlorobenzene	0.125	0.129	103	77.0-121	
Dichlorodifluoromethane	0.125	0.0863	69.0	43.0-156	
1,1-Dichloroethane	0.125	0.130	104	70.0-127	
1,2-Dichloroethane	0.125	0.119	95.2	65.0-131	
1,1-Dichloroethene	0.125	0.127	102	65.0-131	
cis-1,2-Dichloroethene	0.125	0.122	97.6	73.0-125	
trans-1,2-Dichloroethene	0.125	0.126	101	71.0-125	
1,2-Dichloropropane	0.125	0.129	103	74.0-125	
1,1-Dichloropropene	0.125	0.118	94.4	73.0-125	
1,3-Dichloropropane	0.125	0.128	102	80.0-125	
cis-1,3-Dichloropropene	0.125	0.132	106	76.0-127	
trans-1,3-Dichloropropene	0.125	0.135	108	73.0-127	
2,2-Dichloropropane	0.125	0.154	123	59.0-135	
Di-isopropyl ether	0.125	0.128	102	60.0-136	
Ethylbenzene	0.125	0.120	96.0	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.0979	78.3	57.0-150	
Isopropylbenzene	0.125	0.117	93.6	72.0-127	
p-Isopropyltoluene	0.125	0.129	103	72.0-133	
2-Butanone (MEK)	0.625	0.456	73.0	30.0-160	
Methylene Chloride	0.125	0.123	98.4	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.676	108	56.0-143	
Methyl tert-butyl ether	0.125	0.120	96.0	66.0-132	
n-Propylbenzene	0.125	0.130	104	74.0-126	

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R4227303-1 06/08/25 10:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Styrene	0.125	0.121	96.8	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.133	106	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.153	122	68.0-128	
1,1,2-Trichlorotrifluoroethane	0.125	0.118	94.4	61.0-139	
Tetrachloroethene	0.125	0.125	100	70.0-136	
Toluene	0.125	0.119	95.2	75.0-121	
1,2,3-Trichlorobenzene	0.125	0.0804	64.3	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.0792	63.4	62.0-137	
1,1,1-Trichloroethane	0.125	0.132	106	69.0-126	
1,1,2-Trichloroethane	0.125	0.132	106	78.0-123	
Trichloroethene	0.125	0.125	100	76.0-126	
Trichlorofluoromethane	0.125	0.111	88.8	61.0-142	
1,2,3-Trichloropropane	0.125	0.146	117	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.129	103	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.131	105	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.135	108	73.0-127	
Vinyl chloride	0.125	0.105	84.0	63.0-134	
Xylenes, Total	0.375	0.347	92.5	72.0-127	
(S) Toluene-d8			97.1	75.0-131	
(S) 4-Bromofluorobenzene			91.5	67.0-138	
(S) 1,2-Dichloroethane-d4			102	70.0-130	

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4227498-1 06/08/25 16:43

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	U		0.274	4.00
(S) o-Terphenyl	62.0			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4227498-2 06/08/25 16:56

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	32.7	65.4	50.0-150	
(S) o-Terphenyl			68.8	18.0-148	

L1867551-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867551-01 06/08/25 18:16 • (MS) R4227498-3 06/08/25 18:29 • (MSD) R4227498-4 06/08/25 18:43

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	69.3	ND	80.4	70.8	75.9	61.8	5	50.0-150			12.7	20
(S) o-Terphenyl					80.4	73.0		18.0-148				

Sample Narrative:

OS: Dilution due to matrix.

1
Cp

2
Tc

3
Ss

4
Cn

5
Ds

6
Sr

7
Qc

8
Gl

9
Al

10
Sc

Method Blank (MB)

(MB) R4227328-2 06/08/25 14:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthylene	U		0.00567	0.0333
Benzidine	U		0.999	1.67
Benzo(g,h,i)perylene	U		0.00644	0.0333
Bis(2-chlorethoxy)methane	U		0.0361	0.333
Bis(2-chloroethyl)ether	U		0.0629	0.333
2,2-Oxybis(1-Chloropropane)	U		0.0326	0.333
4-Bromophenyl-phenylether	U		0.0475	0.333
2-Chloronaphthalene	U		0.00496	0.0333
4-Chlorophenyl-phenylether	U		0.0475	0.333
1,2-Dichlorobenzene	U		0.0286	0.333
1,3-Dichlorobenzene	U		0.0290	0.333
1,4-Dichlorobenzene	U		0.0286	0.333
3,3-Dichlorobenzidine	U		0.127	0.333
2,4-Dinitrotoluene	U		0.0660	0.333
2,6-Dinitrotoluene	U		0.0628	0.333
Hexachlorobenzene	U		0.0544	0.333
Hexachloro-1,3-butadiene	U		0.0528	0.333
Hexachlorocyclopentadiene	U		0.102	0.333
Hexachloroethane	U		0.0410	0.333
Isophorone	U		0.0419	0.333
Nitrobenzene	U		0.0450	0.333
n-Nitrosodimethylamine	U		0.0782	0.333
n-Nitrosodiphenylamine	U		0.0427	0.333
n-Nitrosodi-n-propylamine	U		0.0528	0.333
Phenanthrene	U		0.00366	0.0333
Benzylbutyl phthalate	U		0.0645	0.333
Bis(2-ethylhexyl)phthalate	U		0.0657	0.333
Di-n-butyl phthalate	U		0.0448	0.333
Diethyl phthalate	U		0.0516	0.333
Dimethyl phthalate	U		0.0447	0.333
Di-n-octyl phthalate	U		0.147	0.333
1,2,4-Trichlorobenzene	U		0.0395	0.333
4-Chloro-3-methylphenol	U		0.0520	0.333
2-Chlorophenol	U		0.0346	0.333
2,4-Dichlorophenol	U		0.0439	0.333
2,4-Dimethylphenol	U		0.0691	0.333
4,6-Dinitro-2-methylphenol	U		0.102	0.333
2,4-Dinitrophenol	U		0.127	0.333
2-Nitrophenol	U		0.0494	0.333
4-Nitrophenol	U		0.106	0.333

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4227328-2 06/08/25 14:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pentachlorophenol	U		0.0623	0.333
Phenol	U		0.0567	0.333
2,4,6-Trichlorophenol	U		0.0796	0.333
(S) 2-Fluorophenol	61.3			12.0-120
(S) Phenol-d5	56.3			10.0-120
(S) Nitrobenzene-d5	52.3			10.0-122
(S) 2-Fluorobiphenyl	61.0			15.0-120
(S) 2,4,6-Tribromophenol	64.6			10.0-127
(S) p-Terphenyl-d14	73.6			10.0-120

Laboratory Control Sample (LCS)

(LCS) R4227328-1 06/08/25 13:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthylene	0.666	0.467	70.1	40.0-120	
Benzidine	1.33	U	0.000	10.0-120	J4
Benzo(g,h,i)perylene	0.666	0.471	70.7	43.0-120	
Bis(2-chlorethoxy)methane	0.666	0.317	47.6	20.0-120	
Bis(2-chloroethyl)ether	0.666	0.382	57.4	16.0-120	
2,2-Oxybis(1-Chloropropane)	0.666	0.327	49.1	23.0-120	
4-Bromophenyl-phenylether	0.666	0.545	81.8	40.0-120	
2-Chloronaphthalene	0.666	0.419	62.9	35.0-120	
4-Chlorophenyl-phenylether	0.666	0.510	76.6	40.0-120	
1,2-Dichlorobenzene	0.666	0.365	54.8	32.0-120	
1,3-Dichlorobenzene	0.666	0.357	53.6	30.0-120	
1,4-Dichlorobenzene	0.666	0.371	55.7	31.0-120	
3,3-Dichlorobenzidine	1.33	1.07	80.5	28.0-120	
2,4-Dinitrotoluene	0.666	0.527	79.1	45.0-120	
2,6-Dinitrotoluene	0.666	0.500	75.1	42.0-120	
Hexachlorobenzene	0.666	0.554	83.2	39.0-120	
Hexachloro-1,3-butadiene	0.666	0.340	51.1	15.0-120	
Hexachlorocyclopentadiene	0.666	0.230	34.5	15.0-120	
Hexachloroethane	0.666	0.335	50.3	17.0-120	
Isophorone	0.666	0.320	48.0	23.0-120	
Nitrobenzene	0.666	0.303	45.5	17.0-120	
n-Nitrosodimethylamine	0.666	0.328	49.2	10.0-125	
n-Nitrosodiphenylamine	0.666	0.504	75.7	40.0-120	
n-Nitrosodi-n-propylamine	0.666	0.360	54.1	26.0-120	

1Cp

2Tc

3Ss

4Cn

5Ds

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS)

(LCS) R4227328-1 06/08/25 13:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Phenanthrene	0.666	0.474	71.2	42.0-120	
Benzylbutyl phthalate	0.666	0.447	67.1	40.0-120	
Bis(2-ethylhexyl)phthalate	0.666	0.460	69.1	41.0-120	
Di-n-butyl phthalate	0.666	0.497	74.6	43.0-120	
Diethyl phthalate	0.666	0.468	70.3	43.0-120	
Dimethyl phthalate	0.666	0.500	75.1	43.0-120	
Di-n-octyl phthalate	0.666	0.453	68.0	40.0-120	
1,2,4-Trichlorobenzene	0.666	0.363	54.5	17.0-120	
4-Chloro-3-methylphenol	0.666	0.376	56.5	28.0-120	
2-Chlorophenol	0.666	0.371	55.7	28.0-120	
2,4-Dichlorophenol	0.666	0.385	57.8	25.0-120	
2,4-Dimethylphenol	0.666	0.343	51.5	15.0-120	
4,6-Dinitro-2-methylphenol	0.666	0.510	76.6	16.0-120	
2,4-Dinitrophenol	0.666	0.385	57.8	10.0-120	
2-Nitrophenol	0.666	0.380	57.1	20.0-120	
4-Nitrophenol	0.666	0.488	73.3	27.0-120	
Pentachlorophenol	0.666	0.400	60.1	29.0-120	
Phenol	0.666	0.374	56.2	28.0-120	
2,4,6-Trichlorophenol	0.666	0.443	66.5	37.0-120	
(S) 2-Fluorophenol			64.9	12.0-120	
(S) Phenol-d5			62.0	10.0-120	
(S) Nitrobenzene-d5			48.9	10.0-122	
(S) 2-Fluorobiphenyl			65.8	15.0-120	
(S) 2,4,6-Tribromophenol			92.9	10.0-127	
(S) p-Terphenyl-d14			77.2	10.0-120	

1Cp

2Tc

3Ss

4Cn

5Ds

6Sr

7Qc

8Gl

9Al

10Sc

L1867550-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867550-01 06/08/25 14:55 • (MS) R4227328-3 06/08/25 15:18 • (MSD) R4227328-4 06/08/25 15:41

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acenaphthylene	0.825	ND	0.482	0.502	58.4	61.4	2	25.0-120			4.16	32
Benzidine	1.29	ND	ND	ND	0.000	0.000	2	10.0-120	J6	J6	0.000	40
Benzo(g,h,i)perylene	0.825	ND	0.408	0.426	49.4	52.0	2	10.0-120			4.29	33
Bis(2-chlorethoxy)methane	0.825	ND	ND	ND	43.8	45.3	2	10.0-120			2.44	34
Bis(2-chloroethyl)ether	0.825	ND	ND	ND	46.3	46.3	2	10.0-120			1.01	40
2,2-Oxybis(1-Chloropropane)	0.825	ND	ND	ND	43.7	45.3	2	10.0-120			2.80	40
4-Bromophenyl-phenylether	0.825	ND	ND	ND	67.2	68.0	2	27.0-120			0.230	30
2-Chloronaphthalene	0.825	ND	0.431	0.442	52.2	54.1	2	20.0-120			2.64	32

L1867550-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867550-01 06/08/25 14:55 • (MS) R4227328-3 06/08/25 15:18 • (MSD) R4227328-4 06/08/25 15:41

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	0.825	ND	ND	ND	63.6	66.9	2	24.0-120			4.05	29
1,2-Dichlorobenzene	0.825	ND	ND	ND	46.7	45.6	2	10.0-120			3.37	38
1,3-Dichlorobenzene	0.825	ND	ND	ND	46.3	43.3	2	10.0-120			7.64	40
1,4-Dichlorobenzene	0.825	ND	ND	ND	48.5	46.3	2	10.0-120			5.58	39
3,3-Dichlorobenzidine	1.65	ND	ND	ND	0.000	0.000	2	10.0-120	J6	J6	0.000	34
2,4-Dinitrotoluene	0.825	ND	ND	ND	62.7	63.4	2	30.0-120			0.247	31
2,6-Dinitrotoluene	0.825	ND	ND	ND	62.2	63.3	2	25.0-120			0.743	31
Hexachlorobenzene	0.825	ND	ND	ND	69.2	68.1	2	27.0-120			2.49	28
Hexachloro-1,3-butadiene	0.825	ND	ND	ND	46.7	46.9	2	10.0-120			0.664	38
Hexachlorocyclopentadiene	0.825	ND	ND	ND	0.000	0.000	2	10.0-120	J6	J6	0.000	40
Hexachloroethane	0.825	ND	ND	ND	28.9	27.3	2	10.0-120			6.63	40
Isophorone	0.825	ND	ND	ND	43.3	45.0	2	13.0-120			2.82	34
Nitrobenzene	0.825	ND	ND	ND	42.7	43.1	2	10.0-120			0.000	36
n-Nitrosodimethylamine	0.825	ND	ND	ND	33.1	31.3	2	10.0-127			6.76	40
n-Nitrosodiphenylamine	0.825	ND	ND	ND	64.2	63.1	2	17.0-120			2.69	29
n-Nitrosodi-n-propylamine	0.825	ND	ND	ND	47.1	49.4	2	10.0-120			3.87	37
Phenanthrene	0.825	ND	0.500	0.493	60.5	60.3	2	17.0-120			1.29	31
Benzylbutyl phthalate	0.825	ND	ND	ND	60.8	61.7	2	23.0-120			0.508	30
Bis(2-ethylhexyl)phthalate	0.825	ND	ND	ND	60.5	62.2	2	17.0-126			1.77	30
Di-n-butyl phthalate	0.825	ND	ND	ND	64.7	64.8	2	30.0-120			0.720	29
Diethyl phthalate	0.825	ND	ND	ND	61.0	61.6	2	26.0-120			0.000	28
Dimethyl phthalate	0.825	ND	ND	ND	61.6	62.8	2	25.0-120			1.00	29
Di-n-octyl phthalate	0.825	ND	ND	ND	62.7	64.8	2	21.0-123			2.44	29
1,2,4-Trichlorobenzene	0.825	ND	ND	ND	50.2	50.2	2	12.0-120			0.930	37
4-Chloro-3-methylphenol	0.825	ND	ND	ND	57.4	56.7	2	15.0-120			2.18	30
2-Chlorophenol	0.825	ND	ND	ND	49.5	52.8	2	15.0-120			5.47	37
2,4-Dichlorophenol	0.825	ND	ND	ND	56.2	58.4	2	20.0-120			2.99	31
2,4-Dimethylphenol	0.825	ND	ND	ND	47.4	48.6	2	10.0-120			1.62	33
4,6-Dinitro-2-methylphenol	0.825	ND	ND	ND	59.3	59.7	2	10.0-120			0.261	39
2,4-Dinitrophenol	0.825	ND	ND	ND	48.9	49.1	2	10.0-121			0.635	40
2-Nitrophenol	0.825	ND	ND	ND	55.6	57.5	2	12.0-120			2.48	39
4-Nitrophenol	0.825	ND	ND	ND	69.0	69.8	2	10.0-137			0.224	32
Pentachlorophenol	0.825	ND	ND	ND	56.5	52.8	2	10.0-160			7.68	31
Phenol	0.825	ND	ND	ND	49.2	51.6	2	12.0-120			3.70	38
2,4,6-Trichlorophenol	0.825	ND	ND	ND	61.0	63.3	2	19.0-120			2.75	32
(S) 2-Fluorophenol					56.7	59.1		12.0-120				
(S) Phenol-d5					54.3	56.7		10.0-120				
(S) Nitrobenzene-d5					46.1	46.6		10.0-122				
(S) 2-Fluorobiphenyl					53.6	56.9		15.0-120				

1Cp

2Tc

3Ss

4Cn

5Ds

6Sr

7Qc

8Gl

9Al

10Sc

L1867550-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867550-01 06/08/25 14:55 • (MS) R4227328-3 06/08/25 15:18 • (MSD) R4227328-4 06/08/25 15:41

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
(S) 2,4,6-Tribromophenol					81.9	80.0		10.0-127				
(S) p-Terphenyl-d14					62.2	64.7		10.0-120				

Sample Narrative:

OS: Dilution due to matrix impact during extract concentration procedure

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R4227416-2 06/08/25 14:23

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.0330	0.0330
Acenaphthene	U		0.0330	0.0330
Acenaphthylene	U		0.0330	0.0330
Benzo(a)anthracene	U		0.00600	0.00600
Benzo(a)pyrene	U		0.0330	0.0330
Benzo(b)fluoranthene	U		0.0330	0.0330
Benzo(g,h,i)perylene	U		0.0330	0.0330
Benzo(k)fluoranthene	U		0.0330	0.0330
Chrysene	U		0.0330	0.0330
Dibenz(a,h)anthracene	U		0.0330	0.0330
Fluoranthene	U		0.0330	0.0330
Fluorene	U		0.0330	0.0330
Indeno(1,2,3-cd)pyrene	U		0.0330	0.0330
Naphthalene	U		0.00300	0.00300
Phenanthrene	U		0.0330	0.0330
Pyrene	U		0.0330	0.0330
1-Methylnaphthalene	U		0.00300	0.00300
2-Methylnaphthalene	U		0.0120	0.0120
(S) p-Terphenyl-d14	72.3			23.0-120
(S) Nitrobenzene-d5	69.5			14.0-149
(S) 2-Fluorobiphenyl	75.3			34.0-125

1Cp

2Tc

3Ss

4Cn

5Ds

6Sr

7Qc

8Gl

9Al

10Sc

Laboratory Control Sample (LCS)

(LCS) R4227416-1 06/08/25 14:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0591	73.9	50.0-126	
Acenaphthene	0.0800	0.0531	66.4	50.0-120	
Acenaphthylene	0.0800	0.0576	72.0	50.0-120	
Benzo(a)anthracene	0.0800	0.0594	74.3	45.0-120	
Benzo(a)pyrene	0.0800	0.0507	63.4	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0553	69.1	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0553	69.1	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0550	68.8	49.0-125	
Chrysene	0.0800	0.0583	72.9	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0570	71.3	47.0-125	
Fluoranthene	0.0800	0.0609	76.1	49.0-129	
Fluorene	0.0800	0.0587	73.4	49.0-120	

Laboratory Control Sample (LCS)

(LCS) R4227416-1 06/08/25 14:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Indeno(1,2,3-cd)pyrene	0.0800	0.0548	68.5	46.0-125	
Naphthalene	0.0800	0.0538	67.3	50.0-120	
Phenanthrene	0.0800	0.0582	72.8	47.0-120	
Pyrene	0.0800	0.0530	66.3	43.0-123	
1-Methylnaphthalene	0.0800	0.0568	71.0	51.0-121	
2-Methylnaphthalene	0.0800	0.0559	69.9	50.0-120	
(S) p-Terphenyl-d14			84.7	23.0-120	
(S) Nitrobenzene-d5			86.1	14.0-149	
(S) 2-Fluorobiphenyl			89.0	34.0-125	

L1867552-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1867552-01 06/08/25 14:40 • (MS) R4227416-3 06/08/25 14:58 • (MSD) R4227416-4 06/08/25 15:15

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0872	ND	0.0675	0.0645	77.3	74.0	1	10.0-145			4.48	30
Acenaphthene	0.0872	ND	0.0606	0.0588	69.5	67.4	1	14.0-127			3.04	27
Acenaphthylene	0.0872	ND	0.0669	0.0646	76.7	74.1	1	21.0-124			3.45	25
Benzo(a)anthracene	0.0872	ND	0.0659	0.0639	75.5	73.3	1	10.0-139			2.97	30
Benzo(a)pyrene	0.0872	ND	0.0634	0.0617	72.7	70.7	1	10.0-141			2.72	31
Benzo(b)fluoranthene	0.0872	ND	0.0594	0.0587	68.1	67.3	1	10.0-140			1.15	36
Benzo(g,h,i)perylene	0.0872	ND	0.0601	0.0587	68.9	67.3	1	10.0-140			2.29	33
Benzo(k)fluoranthene	0.0872	ND	0.0610	0.0598	69.9	68.6	1	10.0-137			1.88	31
Chrysene	0.0872	ND	0.0671	0.0652	77.0	74.7	1	10.0-145			2.92	30
Dibenz(a,h)anthracene	0.0872	ND	0.0633	0.0614	72.5	70.4	1	10.0-132			2.91	31
Fluoranthene	0.0872	ND	0.0687	0.0671	78.8	77.0	1	10.0-153			2.34	33
Fluorene	0.0872	ND	0.0676	0.0659	77.5	75.5	1	11.0-130			2.55	29
Indeno(1,2,3-cd)pyrene	0.0872	ND	0.0600	0.0580	68.7	66.5	1	10.0-137			3.27	32
Naphthalene	0.0872	ND	0.0633	0.0613	72.5	70.3	1	10.0-135			3.10	27
Phenanthrene	0.0872	ND	0.0669	0.0646	76.7	74.1	1	10.0-144			3.45	31
Pyrene	0.0872	ND	0.0602	0.0585	69.0	67.1	1	10.0-148			2.87	35
1-Methylnaphthalene	0.0872	ND	0.0647	0.0633	74.2	72.5	1	10.0-142			2.31	28
2-Methylnaphthalene	0.0872	ND	0.0638	0.0628	73.2	72.0	1	10.0-137			1.61	28
(S) p-Terphenyl-d14					87.9	84.0		23.0-120				
(S) Nitrobenzene-d5					94.4	88.5		14.0-149				
(S) 2-Fluorobiphenyl					93.8	89.4		34.0-125				

1Cp

2Tc

3Ss

4Cn

5Ds

6Sr

7Qc

8Gl

9Al

10Sc

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

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDA	Minimum Detectable Activity.
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RER	Replicate Error Ratio.
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
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C7	The initial calibration verification standard (SSCV) associated with this data responded high.
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.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.



GLOSSARY OF TERMS

Qualifier	Description
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.
U	Below Detectable Limits: Indicates that the analyte was not detected.
V	The sample concentration is too high to evaluate accurate spike recoveries.

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

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.



