

**Energy and Carbon Management Commission**

Sample Delivery Group: L1698811

Samples Received: 01/25/2024

Project Number:

Description: McCannon Unit 1

Report To: Laurel Anderson  
5405 Sacramento Pl.  
Colorado Springs, CO 80917

Entire Report Reviewed By:



Chris Ward  
Project Manager

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<sup>1</sup> Cp
<sup>2</sup> Tc
<sup>3</sup> Ss
<sup>4</sup> Cn
<sup>5</sup> Sr
<sup>6</sup> Qc
<sup>7</sup> Gl
<sup>8</sup> Al
<sup>9</sup> Sc

# SAMPLE SUMMARY

SB-02@2' L1698811-01 Solid

Collected by  
Alex Ahmadian

Collected date/time  
01/23/24 11:30

Received date/time  
01/25/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2214607	1	01/30/24 21:31	01/30/24 21:31	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 3060A/7196A	WG2215075	1	01/29/24 18:41	01/30/24 10:46	CAH	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2213974	1	01/26/24 12:05	01/29/24 15:10	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2215301	1	01/29/24 09:22	01/30/24 15:04	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2214608	1	01/28/24 11:05	01/30/24 13:39	DJS	Mt. Juliet, TN
Metals (ICPMS) by Method 6020	WG2213799	5	01/28/24 07:11	01/28/24 16:24	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG2214478	1	01/26/24 00:22	01/27/24 15:30	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2214482	1	01/26/24 00:22	01/27/24 15:27	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015M	WG2214433	1	01/29/24 07:39	01/29/24 23:38	KAP	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG2213702	1	01/26/24 10:52	01/27/24 03:29	AMS	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

SB-03@0-6" L1698811-02 Solid

Collected by  
Alex Ahmadian

Collected date/time  
01/23/24 11:45

Received date/time  
01/25/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2214607	1	01/30/24 21:32	01/30/24 21:32	ZSA	Mt. Juliet, TN
Wet Chemistry by Method 9045D	WG2213974	1	01/26/24 12:05	01/29/24 15:10	BJM	Mt. Juliet, TN
Wet Chemistry by Method 9050AMod	WG2215301	1	01/29/24 09:22	01/30/24 15:04	BJM	Mt. Juliet, TN
Metals (ICP) by Method 6010B-NE493 Ch 2	WG2214608	1	01/28/24 11:05	01/30/24 13:42	DJS	Mt. Juliet, TN

<sup>7</sup>Gl

<sup>8</sup>Al

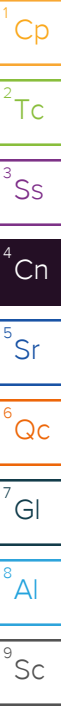
<sup>9</sup>Sc

# CASE NARRATIVE

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



Chris Ward  
Project Manager



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	2.26		1	01/30/2024 21:31	WG2214607

1  
Cp

2  
Tc

Wet Chemistry by Method 3060A/7196A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	ND		2.00	1	01/30/2024 10:46	<a href="#">WG2215075</a>

3  
Ss

4  
Cn

Wet Chemistry by Method 9045D

Analyte	Result su	Qualifier	Dilution	Analysis date / time	Batch
pH	7.92	<a href="#">T8</a>	1	01/29/2024 15:10	<a href="#">WG2213974</a>

5  
Sr

6  
Qc

Sample Narrative:

L1698811-01 WG2213974: 7.92 at 18.7C

7  
Gl

8  
Al

Wet Chemistry by Method 9050AMod

Analyte	Result umhos/cm	Qualifier	RDL umhos/cm	Dilution	Analysis date / time	Batch
Specific Conductance	796		10.0	1	01/30/2024 15:04	<a href="#">WG2215301</a>

9  
Sc

Sample Narrative:

L1698811-01 WG2215301: at 25C

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	0.818		0.200	1	01/30/2024 13:39	<a href="#">WG2214608</a>

Metals (ICPMS) by Method 6020

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	6.65		1.00	5	01/28/2024 16:24	<a href="#">WG2213799</a>
Barium	148		2.50	5	01/28/2024 16:24	<a href="#">WG2213799</a>
Cadmium	ND		1.00	5	01/28/2024 16:24	<a href="#">WG2213799</a>
Copper	17.3		5.00	5	01/28/2024 16:24	<a href="#">WG2213799</a>
Lead	16.2		2.00	5	01/28/2024 16:24	<a href="#">WG2213799</a>
Nickel	27.8		2.50	5	01/28/2024 16:24	<a href="#">WG2213799</a>
Selenium	ND		2.50	5	01/28/2024 16:24	<a href="#">WG2213799</a>
Silver	ND		0.500	5	01/28/2024 16:24	<a href="#">WG2213799</a>
Zinc	90.0		25.0	5	01/28/2024 16:24	<a href="#">WG2213799</a>

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		0.100	1	01/27/2024 15:30	<a href="#">WG2214478</a>
(S) a,a,a-Trifluorotoluene(FID)	90.4		77.0-120		01/27/2024 15:30	<a href="#">WG2214478</a>

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Acrylonitrile	ND		0.0125	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Benzene	ND		0.00100	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Bromobenzene	ND		0.0125	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Bromodichloromethane	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Bromoform	ND		0.0250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Bromomethane	ND		0.0125	1	01/27/2024 15:27	<a href="#">WG2214482</a>
n-Butylbenzene	ND		0.0125	1	01/27/2024 15:27	<a href="#">WG2214482</a>
sec-Butylbenzene	ND		0.0125	1	01/27/2024 15:27	<a href="#">WG2214482</a>
tert-Butylbenzene	ND		0.00500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Carbon tetrachloride	ND		0.00500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Chlorobenzene	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Chlorodibromomethane	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Chloroethane	ND		0.00500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Chloroform	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Chloromethane	ND		0.0125	1	01/27/2024 15:27	<a href="#">WG2214482</a>
2-Chlorotoluene	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
4-Chlorotoluene	ND		0.00500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,2-Dibromoethane	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Dibromomethane	ND		0.00500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,2-Dichlorobenzene	ND		0.00500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,3-Dichlorobenzene	ND		0.00500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,4-Dichlorobenzene	ND		0.00500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Dichlorodifluoromethane	ND		0.00500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,1-Dichloroethane	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,2-Dichloroethane	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,1-Dichloroethene	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
cis-1,2-Dichloroethene	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
trans-1,2-Dichloroethene	ND		0.00500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,2-Dichloropropane	ND		0.00500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,1-Dichloropropene	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,3-Dichloropropane	ND		0.00500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
cis-1,3-Dichloropropene	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
trans-1,3-Dichloropropene	ND		0.00500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
2,2-Dichloropropane	ND	<a href="#">J3</a>	0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Di-isopropyl ether	ND		0.00100	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Ethylbenzene	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Hexachloro-1,3-butadiene	ND		0.0250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Isopropylbenzene	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
p-Isopropyltoluene	ND		0.00500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
2-Butanone (MEK)	ND		0.100	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Methylene Chloride	ND		0.0250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Methyl tert-butyl ether	ND		0.00100	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Naphthalene	ND		0.0125	1	01/27/2024 15:27	<a href="#">WG2214482</a>
n-Propylbenzene	ND		0.00500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Styrene	ND		0.0125	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,1,1,2-Tetrachloroethane	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,1,2,2-Tetrachloroethane	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Tetrachloroethene	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Toluene	ND		0.00500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,2,3-Trichlorobenzene	ND		0.0125	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,2,4-Trichlorobenzene	ND		0.0125	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,1,1-Trichloroethane	ND	<a href="#">J3</a>	0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichloroethane	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Trichloroethene	ND		0.00100	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Trichlorofluoromethane	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,2,3-Trichloropropane	ND		0.0125	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,2,4-Trimethylbenzene	ND		0.00500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,2,3-Trimethylbenzene	ND		0.00500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
1,3,5-Trimethylbenzene	ND		0.00500	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Vinyl chloride	ND		0.00250	1	01/27/2024 15:27	<a href="#">WG2214482</a>
Xylenes, Total	ND		0.00650	1	01/27/2024 15:27	<a href="#">WG2214482</a>
(S) Toluene-d8	109		75.0-131		01/27/2024 15:27	<a href="#">WG2214482</a>
(S) 4-Bromofluorobenzene	98.6		67.0-138		01/27/2024 15:27	<a href="#">WG2214482</a>
(S) 1,2-Dichloroethane-d4	110		70.0-130		01/27/2024 15:27	<a href="#">WG2214482</a>

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
C10-C28 Diesel Range	5.34		4.00	1	01/29/2024 23:38	<a href="#">WG2214433</a>
C28-C36 Motor Oil Range	18.9		4.00	1	01/29/2024 23:38	<a href="#">WG2214433</a>
(S) o-Terphenyl	41.6		18.0-148		01/29/2024 23:38	<a href="#">WG2214433</a>

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	ND		0.0333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Acenaphthylene	ND		0.0333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Anthracene	ND		0.0333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Benzidine	ND		1.67	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Benzo(a)anthracene	ND		0.0333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Benzo(b)fluoranthene	ND		0.0333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Benzo(k)fluoranthene	ND		0.0333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Benzo(g,h,i)perylene	ND		0.0333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Benzo(a)pyrene	ND		0.0333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Bis(2-chlorethoxy)methane	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Bis(2-chloroethyl)ether	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
2,2-Oxybis(1-Chloropropane)	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
4-Bromophenyl-phenylether	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
2-Chloronaphthalene	ND		0.0333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
4-Chlorophenyl-phenylether	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Chrysene	ND		0.0333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Dibenz(a,h)anthracene	ND		0.0333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
1,2-Dichlorobenzene	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
1,3-Dichlorobenzene	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
1,4-Dichlorobenzene	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
3,3-Dichlorobenzidine	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
2,4-Dinitrotoluene	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
2,6-Dinitrotoluene	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Fluoranthene	ND		0.0333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Fluorene	ND		0.0333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Hexachlorobenzene	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Hexachloro-1,3-butadiene	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Hexachlorocyclopentadiene	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Hexachloroethane	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Indeno(1,2,3-cd)pyrene	ND		0.0333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Isophorone	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Naphthalene	ND		0.0333	1	01/27/2024 03:29	<a href="#">WG2213702</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Nitrobenzene	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
n-Nitrosodimethylamine	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
n-Nitrosodiphenylamine	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
n-Nitrosodi-n-propylamine	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Phenanthrene	ND		0.0333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Benzylbutyl phthalate	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Bis(2-ethylhexyl)phthalate	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Di-n-butyl phthalate	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Diethyl phthalate	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Dimethyl phthalate	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Di-n-octyl phthalate	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Pyrene	ND		0.0333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
1,2,4-Trichlorobenzene	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
4-Chloro-3-methylphenol	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
2-Chlorophenol	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
2,4-Dichlorophenol	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
2,4-Dimethylphenol	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
4,6-Dinitro-2-methylphenol	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
2,4-Dinitrophenol	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
2-Nitrophenol	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
4-Nitrophenol	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Pentachlorophenol	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
Phenol	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
2,4,6-Trichlorophenol	ND		0.333	1	01/27/2024 03:29	<a href="#">WG2213702</a>
(S) 2-Fluorophenol	61.9		12.0-120		01/27/2024 03:29	<a href="#">WG2213702</a>
(S) Phenol-d5	57.9		10.0-120		01/27/2024 03:29	<a href="#">WG2213702</a>
(S) Nitrobenzene-d5	49.7		10.0-122		01/27/2024 03:29	<a href="#">WG2213702</a>
(S) 2-Fluorobiphenyl	58.8		15.0-120		01/27/2024 03:29	<a href="#">WG2213702</a>
(S) 2,4,6-Tribromophenol	66.8		10.0-127		01/27/2024 03:29	<a href="#">WG2213702</a>
(S) p-Terphenyl-d14	67.6		10.0-120		01/27/2024 03:29	<a href="#">WG2213702</a>

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Calculated Results

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Sodium Adsorption Ratio	0.887		1	01/30/2024 21:32	WG2214607

1  
Cp

2  
Tc

Wet Chemistry by Method 9045D

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
pH	7.55	T8	1	01/29/2024 15:10	WG2213974

3  
Ss

4  
Cn

Sample Narrative:

L1698811-02 WG2213974: 7.55 at 19.3C

5  
Sr

Wet Chemistry by Method 9050AMod

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Specific Conductance	umhos/cm		umhos/cm			
	608		10.0	1	01/30/2024 15:04	WG2215301

6  
Qc

7  
Gl

Sample Narrative:

L1698811-02 WG2215301: at 25C

8  
Al

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Hot Water Sol. Boron	mg/l		mg/l			
	0.995		0.200	1	01/30/2024 13:42	WG2214608

9  
Sc

Method Blank (MB)

(MB) R4027619-1 01/30/24 10:45

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chromium,Hexavalent	U		0.640	2.00

L1698811-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1698811-01 01/30/24 10:46 • (DUP) R4027619-3 01/30/24 10:48

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

L1699742-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1699742-03 01/30/24 10:52 • (DUP) R4027619-4 01/30/24 10:52

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

Laboratory Control Sample (LCS)

(LCS) R4027619-2 01/30/24 10:45

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chromium,Hexavalent	24.0	21.8	90.7	80.0-120	

L1699742-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1699742-07 01/30/24 10:53 • (MS) R4027619-7 01/30/24 10:54

	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Chromium,Hexavalent	648	ND	307	47.4	50	75.0-125	J6

Sample Narrative:

MS: Spike failure due to matrix interference; ORP attached

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1699742-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1699742-07 01/30/24 10:53 • (MS) R4027619-5 01/30/24 10:53 • (MSD) R4027619-6 01/30/24 10:53

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Chromium,Hexavalent	20.0	ND	8.62	7.59	43.1	38.0	1	75.0-125	<u>J6</u>	<u>J6</u>	12.7	20

Sample Narrative:

- MS: Spike failure due to matrix interference; ORP attached
- MSD: Spike failure due to matrix interference; ORP attached

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1698811-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1698811-02 01/29/24 15:10 • (DUP) R4027345-2 01/29/24 15:10

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	7.55	7.53	1	0.265		1

Sample Narrative:

OS: 7.55 at 19.3C

DUP: 7.53 at 19.3C

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1698865-17 Original Sample (OS) • Duplicate (DUP)

(OS) L1698865-17 01/29/24 15:10 • (DUP) R4027345-3 01/29/24 15:10

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	su	su		%		%
pH	6.48	6.50	1	0.308		1

Sample Narrative:

OS: 6.48 at 18.6C

DUP: 6.5 at 18.7C

Laboratory Control Sample (LCS)

(LCS) R4027345-1 01/29/24 15:10

	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: 10.01 at 19.7C

Method Blank (MB)

(MB) R4027881-1 01/30/24 15:04

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

L1699268-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1699268-01 01/30/24 15:04 • (DUP) R4027881-3 01/30/24 15:04

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	6150	6160	1	0.162		20

Sample Narrative:

OS: at 25C

DUP: at 25C

L1699365-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1699365-01 01/30/24 15:04 • (DUP) R4027881-4 01/30/24 15:04

Analyte	Original Result umhos/cm	DUP Result umhos/cm	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Specific Conductance	901	910	1	0.994		20

Sample Narrative:

OS: at 25C

DUP: at 25C

Laboratory Control Sample (LCS)

(LCS) R4027881-2 01/30/24 15:04

Analyte	Spike Amount umhos/cm	LCS Result umhos/cm	LCS Rec. %	Rec. Limits %	LCS Qualifier
Specific Conductance	327	340	104	85.0-115	

Sample Narrative:

LCS: at 25C



Method Blank (MB)

(MB) R4027788-1 01/30/24 13:31

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) R4027788-2 01/30/24 13:34 • (LCSD) R4027788-3 01/30/24 13:36

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	1.12	1.11	112	111	80.0-120			0.788	20

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R4027028-1 01/28/24 16:02

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

Laboratory Control Sample (LCS)

(LCS) R4027028-2 01/28/24 16:05

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Arsenic	100	107	107	80.0-120	
Barium	100	98.0	98.0	80.0-120	
Cadmium	100	109	109	80.0-120	
Copper	100	109	109	80.0-120	
Lead	100	103	103	80.0-120	
Nickel	100	108	108	80.0-120	
Selenium	100	107	107	80.0-120	
Silver	20.0	21.0	105	80.0-120	
Zinc	100	105	105	80.0-120	

L1698946-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1698946-10 01/28/24 16:08 • (MS) R4027028-5 01/28/24 16:18 • (MSD) R4027028-6 01/28/24 16:21

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	3.67	101	86.2	97.2	82.5	5	75.0-125			15.7	20
Barium	100	325	257	234	0.000	0.000	5	75.0-125	J6	J6	9.33	20
Cadmium	100	ND	107	89.6	107	89.5	5	75.0-125			17.8	20
Copper	100	15.1	122	106	107	90.9	5	75.0-125			14.3	20
Lead	100	28.2	127	111	98.9	82.7	5	75.0-125			13.6	20
Nickel	100	12.5	111	96.4	98.9	83.9	5	75.0-125			14.4	20
Selenium	100	ND	103	86.5	103	86.2	5	75.0-125			17.7	20
Silver	20.0	ND	20.7	17.7	104	88.7	5	75.0-125			15.5	20
Zinc	100	36.7	147	129	110	92.3	5	75.0-125			13.1	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4027140-3 01/27/24 12:15

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	0.0293	⬇	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	96.4			77.0-120

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

(LCS) R4027140-1 01/27/24 10:37 • (LCSD) R4027140-2 01/27/24 11:01

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	5.50	5.79	6.08	105	111	72.0-127			4.89	20
(S) a,a,a-Trifluorotoluene(FID)				104	100	77.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R4027354-3 01/27/24 07:59

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		0.000467	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	0.00190	U	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		0.000737	0.00250
Hexachloro-1,3-butadiene	U		0.00600	0.0250
Isopropylbenzene	U		0.000425	0.00250

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R4027354-3 01/27/24 07:59

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
Naphthalene	U		0.00488	0.0125
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		0.00130	0.00500
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
1,2,4-Trimethylbenzene	U		0.00158	0.00500
1,2,3-Trimethylbenzene	U		0.00158	0.00500
1,3,5-Trimethylbenzene	U		0.00200	0.00500
Vinyl chloride	U		0.00116	0.00250
Xylenes, Total	U		0.000880	0.00650
(S) Toluene-d8	108			75.0-131
(S) 4-Bromofluorobenzene	95.6			67.0-138
(S) 1,2-Dichloroethane-d4	102			70.0-130

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

(LCS) R4027354-1 01/27/24 06:23 • (LCSD) R4027354-2 01/27/24 06:42

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 %
Acetone	0.625	0.265	0.218	42.4	34.9	10.0-160			19.5	31
Acrylonitrile	0.625	0.558	0.577	89.3	92.3	45.0-153			3.35	22
Benzene	0.125	0.111	0.125	88.8	100	70.0-123			11.9	20
Bromobenzene	0.125	0.123	0.129	98.4	103	73.0-121			4.76	20
Bromodichloromethane	0.125	0.107	0.116	85.6	92.8	73.0-121			8.07	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4027354-1 01/27/24 06:23 • (LCSD) R4027354-2 01/27/24 06:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	0.125	0.110	0.116	88.0	92.8	64.0-132			5.31	20
Bromomethane	0.125	0.128	0.148	102	118	56.0-147			14.5	20
n-Butylbenzene	0.125	0.0993	0.110	79.4	88.0	68.0-135			10.2	20
sec-Butylbenzene	0.125	0.104	0.113	83.2	90.4	74.0-130			8.29	20
tert-Butylbenzene	0.125	0.108	0.120	86.4	96.0	75.0-127			10.5	20
Carbon tetrachloride	0.125	0.122	0.148	97.6	118	66.0-128			19.3	20
Chlorobenzene	0.125	0.122	0.133	97.6	106	76.0-128			8.63	20
Chlorodibromomethane	0.125	0.133	0.138	106	110	74.0-127			3.69	20
Chloroethane	0.125	0.136	0.142	109	114	61.0-134			4.32	20
Chloroform	0.125	0.110	0.126	88.0	101	72.0-123			13.6	20
Chloromethane	0.125	0.115	0.123	92.0	98.4	51.0-138			6.72	20
2-Chlorotoluene	0.125	0.111	0.118	88.8	94.4	75.0-124			6.11	20
4-Chlorotoluene	0.125	0.111	0.113	88.8	90.4	75.0-124			1.79	20
1,2-Dibromo-3-Chloropropane	0.125	0.105	0.112	84.0	89.6	59.0-130			6.45	20
1,2-Dibromoethane	0.125	0.131	0.134	105	107	74.0-128			2.26	20
Dibromomethane	0.125	0.122	0.132	97.6	106	75.0-122			7.87	20
1,2-Dichlorobenzene	0.125	0.119	0.121	95.2	96.8	76.0-124			1.67	20
1,3-Dichlorobenzene	0.125	0.116	0.121	92.8	96.8	76.0-125			4.22	20
1,4-Dichlorobenzene	0.125	0.113	0.119	90.4	95.2	77.0-121			5.17	20
Dichlorodifluoromethane	0.125	0.140	0.158	112	126	43.0-156			12.1	20
1,1-Dichloroethane	0.125	0.108	0.117	86.4	93.6	70.0-127			8.00	20
1,2-Dichloroethane	0.125	0.121	0.125	96.8	100	65.0-131			3.25	20
1,1-Dichloroethene	0.125	0.110	0.124	88.0	99.2	65.0-131			12.0	20
cis-1,2-Dichloroethene	0.125	0.110	0.116	88.0	92.8	73.0-125			5.31	20
trans-1,2-Dichloroethene	0.125	0.111	0.119	88.8	95.2	71.0-125			6.96	20
1,2-Dichloropropane	0.125	0.110	0.120	88.0	96.0	74.0-125			8.70	20
1,1-Dichloropropene	0.125	0.121	0.138	96.8	110	73.0-125			13.1	20
1,3-Dichloropropane	0.125	0.134	0.135	107	108	80.0-125			0.743	20
cis-1,3-Dichloropropene	0.125	0.104	0.113	83.2	90.4	76.0-127			8.29	20
trans-1,3-Dichloropropene	0.125	0.123	0.132	98.4	106	73.0-127			7.06	20
2,2-Dichloropropane	0.125	0.101	0.133	80.8	106	59.0-135		J3	27.4	20
Di-isopropyl ether	0.125	0.0897	0.0985	71.8	78.8	60.0-136			9.35	20
Ethylbenzene	0.125	0.131	0.137	105	110	74.0-126			4.48	20
Hexachloro-1,3-butadiene	0.125	0.101	0.110	80.8	88.0	57.0-150			8.53	20
Isopropylbenzene	0.125	0.109	0.126	87.2	101	72.0-127			14.5	20
p-Isopropyltoluene	0.125	0.105	0.116	84.0	92.8	72.0-133			9.95	20
2-Butanone (MEK)	0.625	0.407	0.454	65.1	72.6	30.0-160			10.9	24
Methylene Chloride	0.125	0.110	0.117	88.0	93.6	68.0-123			6.17	20
4-Methyl-2-pentanone (MIBK)	0.625	0.569	0.607	91.0	97.1	56.0-143			6.46	20
Methyl tert-butyl ether	0.125	0.104	0.120	83.2	96.0	66.0-132			14.3	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R4027354-1 01/27/24 06:23 • (LCSD) R4027354-2 01/27/24 06:42

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 %
Naphthalene	0.125	0.0948	0.103	75.8	82.4	59.0-130			8.29	20
n-Propylbenzene	0.125	0.109	0.120	87.2	96.0	74.0-126			9.61	20
Styrene	0.125	0.114	0.113	91.2	90.4	72.0-127			0.881	20
1,1,1,2-Tetrachloroethane	0.125	0.132	0.134	106	107	74.0-129			1.50	20
1,1,2,2-Tetrachloroethane	0.125	0.105	0.111	84.0	88.8	68.0-128			5.56	20
1,1,2-Trichlorotrifluoroethane	0.125	0.116	0.125	92.8	100	61.0-139			7.47	20
Tetrachloroethene	0.125	0.124	0.136	99.2	109	70.0-136			9.23	20
Toluene	0.125	0.123	0.129	98.4	103	75.0-121			4.76	20
1,2,3-Trichlorobenzene	0.125	0.0954	0.106	76.3	84.8	59.0-139			10.5	20
1,2,4-Trichlorobenzene	0.125	0.102	0.102	81.6	81.6	62.0-137			0.000	20
1,1,1-Trichloroethane	0.125	0.115	0.142	92.0	114	69.0-126		J3	21.0	20
1,1,2-Trichloroethane	0.125	0.121	0.102	96.8	81.6	78.0-123			17.0	20
Trichloroethene	0.125	0.135	0.153	108	122	76.0-126			12.5	20
Trichlorofluoromethane	0.125	0.126	0.140	101	112	61.0-142			10.5	20
1,2,3-Trichloropropane	0.125	0.131	0.140	105	112	67.0-129			6.64	20
1,2,4-Trimethylbenzene	0.125	0.103	0.108	82.4	86.4	70.0-126			4.74	20
1,2,3-Trimethylbenzene	0.125	0.110	0.112	88.0	89.6	74.0-124			1.80	20
1,3,5-Trimethylbenzene	0.125	0.106	0.115	84.8	92.0	73.0-127			8.14	20
Vinyl chloride	0.125	0.118	0.141	94.4	113	63.0-134			17.8	20
Xylenes, Total	0.375	0.350	0.373	93.3	99.5	72.0-127			6.36	20
(S) Toluene-d8				107	109	75.0-131				
(S) 4-Bromofluorobenzene				102	102	67.0-138				
(S) 1,2-Dichloroethane-d4				109	113	70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4027530-1 01/29/24 19:56

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	54.1			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4027530-2 01/29/24 20:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	32.1	64.2	50.0-150	
(S) o-Terphenyl			56.8	18.0-148	

L1698623-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1698623-09 01/29/24 22:20 • (MS) R4027530-3 01/29/24 22:33 • (MSD) R4027530-4 01/29/24 22:46

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
C10-C28 Diesel Range	49.5	ND	30.4	30.7	61.4	61.6	1	50.0-150			0.982	20
(S) o-Terphenyl					42.1	48.3		18.0-148				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4027333-2 01/27/24 00:45

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00539	0.0333
Acenaphthylene	U		0.00469	0.0333
Anthracene	U		0.00593	0.0333
Benzidine	U		0.0626	1.67
Benzo(a)anthracene	U		0.00587	0.0333
Benzo(b)fluoranthene	U		0.00621	0.0333
Benzo(k)fluoranthene	U		0.00592	0.0333
Benzo(g,h,i)perylene	U		0.00609	0.0333
Benzo(a)pyrene	U		0.00619	0.0333
Bis(2-chlorethoxy)methane	U		0.0100	0.333
Bis(2-chloroethyl)ether	U		0.0110	0.333
2,2-Oxybis(1-Chloropropane)	U		0.0144	0.333
4-Bromophenyl-phenylether	U		0.0117	0.333
2-Chloronaphthalene	U		0.00585	0.0333
4-Chlorophenyl-phenylether	U		0.0116	0.333
Chrysene	U		0.00662	0.0333
Dibenz(a,h)anthracene	U		0.00923	0.0333
1,2-Dichlorobenzene	U		0.00987	0.333
1,3-Dichlorobenzene	U		0.0101	0.333
1,4-Dichlorobenzene	U		0.00991	0.333
3,3-Dichlorobenzidine	U		0.0123	0.333
2,4-Dinitrotoluene	U		0.00955	0.333
2,6-Dinitrotoluene	U		0.0109	0.333
Fluoranthene	U		0.00601	0.0333
Fluorene	U		0.00542	0.0333
Hexachlorobenzene	U		0.0118	0.333
Hexachloro-1,3-butadiene	U		0.0112	0.333
Hexachlorocyclopentadiene	U		0.0175	0.333
Hexachloroethane	U		0.0131	0.333
Indeno(1,2,3-cd)pyrene	U		0.00941	0.0333
Isophorone	U		0.0102	0.333
Naphthalene	U		0.00836	0.0333
Nitrobenzene	U		0.0116	0.333
n-Nitrosodimethylamine	U		0.0494	0.333
n-Nitrosodiphenylamine	U		0.0252	0.333
n-Nitrosodi-n-propylamine	U		0.0111	0.333
Phenanthrene	U		0.00661	0.0333
Benzylbutyl phthalate	U		0.0104	0.333
Bis(2-ethylhexyl)phthalate	U		0.0422	0.333
Di-n-butyl phthalate	U		0.0114	0.333

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Method Blank (MB)

(MB) R4027333-2 01/27/24 00:45

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diethyl phthalate	U		0.0110	0.333
Dimethyl phthalate	U		0.0706	0.333
Di-n-octyl phthalate	U		0.0225	0.333
Pyrene	U		0.00648	0.0333
1,2,4-Trichlorobenzene	U		0.0104	0.333
4-Chloro-3-methylphenol	U		0.0108	0.333
2-Chlorophenol	U		0.0110	0.333
2,4-Dichlorophenol	U		0.00970	0.333
2,4-Dimethylphenol	U		0.00870	0.333
4,6-Dinitro-2-methylphenol	U		0.0755	0.333
2,4-Dinitrophenol	U		0.0779	0.333
2-Nitrophenol	U		0.0119	0.333
4-Nitrophenol	U		0.0104	0.333
Pentachlorophenol	U		0.00896	0.333
Phenol	U		0.0134	0.333
2,4,6-Trichlorophenol	U		0.0107	0.333
(S) 2-Fluorophenol	79.6			12.0-120
(S) Phenol-d5	71.5			10.0-120
(S) Nitrobenzene-d5	62.2			10.0-122
(S) 2-Fluorobiphenyl	70.6			15.0-120
(S) 2,4,6-Tribromophenol	73.9			10.0-127
(S) p-Terphenyl-d14	83.5			10.0-120

Laboratory Control Sample (LCS)

(LCS) R4027333-1 01/27/24 00:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acenaphthene	0.666	0.507	76.1	38.0-120	
Acenaphthylene	0.666	0.511	76.7	40.0-120	
Anthracene	0.666	0.524	78.7	42.0-120	
Benzidine	1.33	0.762	57.3	10.0-120	
Benzo(a)anthracene	0.666	0.559	83.9	44.0-120	
Benzo(b)fluoranthene	0.666	0.564	84.7	43.0-120	
Benzo(k)fluoranthene	0.666	0.546	82.0	44.0-120	
Benzo(g,h,i)perylene	0.666	0.598	89.8	43.0-120	
Benzo(a)pyrene	0.666	0.564	84.7	45.0-120	
Bis(2-chlorethoxy)methane	0.666	0.404	60.7	20.0-120	
Bis(2-chloroethyl)ether	0.666	0.616	92.5	16.0-120	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R4027333-1 01/27/24 00:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
2,2-Oxybis(1-Chloropropane)	0.666	0.455	68.3	23.0-120	
4-Bromophenyl-phenylether	0.666	0.476	71.5	40.0-120	
2-Chloronaphthalene	0.666	0.478	71.8	35.0-120	
4-Chlorophenyl-phenylether	0.666	0.509	76.4	40.0-120	
Chrysene	0.666	0.549	82.4	43.0-120	
Dibenz(a,h)anthracene	0.666	0.600	90.1	44.0-120	
1,2-Dichlorobenzene	0.666	0.449	67.4	32.0-120	
1,3-Dichlorobenzene	0.666	0.439	65.9	30.0-120	
1,4-Dichlorobenzene	0.666	0.439	65.9	31.0-120	
3,3-Dichlorobenzidine	1.33	1.08	81.2	28.0-120	
2,4-Dinitrotoluene	0.666	0.568	85.3	45.0-120	
2,6-Dinitrotoluene	0.666	0.557	83.6	42.0-120	
Fluoranthene	0.666	0.513	77.0	44.0-120	
Fluorene	0.666	0.511	76.7	41.0-120	
Hexachlorobenzene	0.666	0.462	69.4	39.0-120	
Hexachloro-1,3-butadiene	0.666	0.371	55.7	15.0-120	
Hexachlorocyclopentadiene	0.666	0.424	63.7	15.0-120	
Hexachloroethane	0.666	0.489	73.4	17.0-120	
Indeno(1,2,3-cd)pyrene	0.666	0.585	87.8	45.0-120	
Isophorone	0.666	0.369	55.4	23.0-120	
Naphthalene	0.666	0.376	56.5	18.0-120	
Nitrobenzene	0.666	0.358	53.8	17.0-120	
n-Nitrosodimethylamine	0.666	0.448	67.3	10.0-125	
n-Nitrosodiphenylamine	0.666	0.480	72.1	40.0-120	
n-Nitrosodi-n-propylamine	0.666	0.438	65.8	26.0-120	
Phenanthrene	0.666	0.513	77.0	42.0-120	
Benzylbutyl phthalate	0.666	0.677	102	40.0-120	
Bis(2-ethylhexyl)phthalate	0.666	0.678	102	41.0-120	
Di-n-butyl phthalate	0.666	0.558	83.8	43.0-120	
Diethyl phthalate	0.666	0.564	84.7	43.0-120	
Dimethyl phthalate	0.666	0.523	78.5	43.0-120	
Di-n-octyl phthalate	0.666	0.673	101	40.0-120	
Pyrene	0.666	0.568	85.3	41.0-120	
1,2,4-Trichlorobenzene	0.666	0.370	55.6	17.0-120	
4-Chloro-3-methylphenol	0.666	0.395	59.3	28.0-120	
2-Chlorophenol	0.666	0.494	74.2	28.0-120	
2,4-Dichlorophenol	0.666	0.408	61.3	25.0-120	
2,4-Dimethylphenol	0.666	0.536	80.5	15.0-120	
4,6-Dinitro-2-methylphenol	0.666	0.488	73.3	16.0-120	
2,4-Dinitrophenol	0.666	0.424	63.7	10.0-120	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Laboratory Control Sample (LCS)

(LCS) R4027333-1 01/27/24 00:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
2-Nitrophenol	0.666	0.439	65.9	20.0-120	
4-Nitrophenol	0.666	0.509	76.4	27.0-120	
Pentachlorophenol	0.666	0.402	60.4	29.0-120	
Phenol	0.666	0.479	71.9	28.0-120	
2,4,6-Trichlorophenol	0.666	0.495	74.3	37.0-120	
(S) 2-Fluorophenol			79.6	12.0-120	
(S) Phenol-d5			74.0	10.0-120	
(S) Nitrobenzene-d5			62.8	10.0-122	
(S) 2-Fluorobiphenyl			72.7	15.0-120	
(S) 2,4,6-Tribromophenol			78.2	10.0-127	
(S) p-Terphenyl-d14			84.7	10.0-120	

L1698580-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1698580-02 01/27/24 01:26 • (MS) R4027333-3 01/27/24 01:47 • (MSD) R4027333-4 01/27/24 02:07

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	0.654	ND	0.319	0.371	48.8	56.7	1	18.0-120			15.1	32
Acenaphthylene	0.654	ND	0.320	0.372	48.9	56.9	1	25.0-120			15.0	32
Anthracene	0.654	ND	0.382	0.440	58.4	67.3	1	22.0-120			14.1	29
Benzydine	1.31	ND	ND	ND	53.2	64.8	1	10.0-120			19.7	40
Benzo(a)anthracene	0.654	ND	0.388	0.435	59.3	66.5	1	25.0-120			11.4	29
Benzo(b)fluoranthene	0.654	ND	0.379	0.435	58.0	66.5	1	19.0-122			13.8	31
Benzo(k)fluoranthene	0.654	ND	0.354	0.420	54.1	64.2	1	23.0-120			17.1	30
Benzo(g,h,i)perylene	0.654	ND	0.406	0.462	62.1	70.6	1	10.0-120			12.9	33
Benzo(a)pyrene	0.654	ND	0.386	0.445	59.0	68.0	1	24.0-120			14.2	30
Bis(2-chlorethoxy)methane	0.654	ND	ND	ND	36.1	43.4	1	10.0-120			18.5	34
Bis(2-chloroethyl)ether	0.654	ND	ND	0.408	36.4	62.4	1	10.0-120		J3	52.6	40
2,2-Oxybis(1-Chloropropane)	0.654	ND	ND	ND	33.8	42.7	1	10.0-120			23.2	40
4-Bromophenyl-phenylether	0.654	ND	ND	0.387	50.3	59.2	1	27.0-120			16.2	30
2-Chloronaphthalene	0.654	ND	0.277	0.328	42.4	50.2	1	20.0-120			16.9	32
4-Chlorophenyl-phenylether	0.654	ND	0.340	0.386	52.0	59.0	1	24.0-120			12.7	29
Chrysene	0.654	ND	0.378	0.427	57.8	65.3	1	21.0-120			12.2	29
Dibenz(a,h)anthracene	0.654	ND	0.401	0.464	61.3	70.9	1	10.0-120			14.6	32
1,2-Dichlorobenzene	0.654	ND	ND	ND	33.0	42.7	1	10.0-120			25.5	38
1,3-Dichlorobenzene	0.654	ND	ND	ND	32.1	40.7	1	10.0-120			23.5	40
1,4-Dichlorobenzene	0.654	ND	ND	ND	32.6	41.4	1	10.0-120			24.0	39
3,3-Dichlorobenzidine	1.31	ND	0.798	0.910	60.9	69.5	1	10.0-120			13.1	34
2,4-Dinitrotoluene	0.654	ND	0.384	0.451	58.7	69.0	1	30.0-120			16.0	31

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

L1698580-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1698580-02 01/27/24 01:26 • (MS) R4027333-3 01/27/24 01:47 • (MSD) R4027333-4 01/27/24 02:07

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 %
2,6-Dinitrotoluene	0.654	ND	0.376	0.435	57.5	66.5	1	25.0-120			14.5	31
Fluoranthene	0.654	ND	0.360	0.424	55.0	64.8	1	18.0-126			16.3	32
Fluorene	0.654	ND	0.339	0.391	51.8	59.8	1	25.0-120			14.2	30
Hexachlorobenzene	0.654	ND	ND	0.378	49.7	57.8	1	27.0-120			15.1	28
Hexachloro-1,3-butadiene	0.654	ND	ND	ND	30.9	38.2	1	10.0-120			21.2	38
Hexachlorocyclopentadiene	0.654	ND	ND	ND	29.7	33.8	1	10.0-120			13.0	40
Hexachloroethane	0.654	ND	ND	ND	36.5	46.3	1	10.0-120			23.6	40
Indeno(1,2,3-cd)pyrene	0.654	ND	0.395	0.451	60.4	69.0	1	10.0-120			13.2	32
Isophorone	0.654	ND	ND	ND	33.0	40.1	1	13.0-120			19.2	34
Naphthalene	0.654	ND	0.209	0.260	32.0	39.8	1	10.0-120			21.7	35
Nitrobenzene	0.654	ND	ND	ND	30.9	38.5	1	10.0-120			22.0	36
n-Nitrosodimethylamine	0.654	ND	ND	ND	31.7	42.8	1	10.0-127			30.0	40
n-Nitrosodiphenylamine	0.654	ND	0.346	0.396	52.9	60.6	1	17.0-120			13.5	29
n-Nitrosodi-n-propylamine	0.654	ND	ND	ND	34.7	42.8	1	10.0-120			20.9	37
Phenanthrene	0.654	ND	0.361	0.425	55.2	65.0	1	17.0-120			16.3	31
Benzylbutyl phthalate	0.654	ND	0.463	0.523	70.8	80.0	1	23.0-120			12.2	30
Bis(2-ethylhexyl)phthalate	0.654	ND	0.459	0.521	70.2	79.7	1	17.0-126			12.7	30
Di-n-butyl phthalate	0.654	ND	0.387	0.448	59.2	68.5	1	30.0-120			14.6	29
Diethyl phthalate	0.654	ND	0.398	0.465	60.9	71.1	1	26.0-120			15.5	28
Dimethyl phthalate	0.654	ND	0.360	0.421	55.0	64.4	1	25.0-120			15.6	29
Di-n-octyl phthalate	0.654	ND	0.457	0.519	69.9	79.4	1	21.0-123			12.7	29
Pyrene	0.654	ND	0.394	0.441	60.2	67.4	1	16.0-121			11.3	32
1,2,4-Trichlorobenzene	0.654	ND	ND	ND	31.7	38.7	1	12.0-120			20.0	37
4-Chloro-3-methylphenol	0.654	ND	ND	ND	45.3	50.3	1	15.0-120			10.6	30
2-Chlorophenol	0.654	ND	ND	ND	39.0	47.9	1	15.0-120			20.4	37
2,4-Dichlorophenol	0.654	ND	ND	ND	39.0	45.3	1	20.0-120			14.9	31
2,4-Dimethylphenol	0.654	ND	0.346	0.412	52.9	63.0	1	10.0-120			17.4	33
4,6-Dinitro-2-methylphenol	0.654	ND	0.349	0.380	53.4	58.1	1	10.0-120			8.50	39
2,4-Dinitrophenol	0.654	ND	0.347	0.386	53.1	59.0	1	10.0-121			10.6	40
2-Nitrophenol	0.654	ND	ND	ND	37.9	46.8	1	12.0-120			20.9	39
4-Nitrophenol	0.654	ND	0.368	0.425	56.3	65.0	1	10.0-137			14.4	32
Pentachlorophenol	0.654	ND	ND	0.358	46.6	54.7	1	10.0-160			16.0	31
Phenol	0.654	ND	ND	ND	38.7	48.2	1	12.0-120			21.8	38
2,4,6-Trichlorophenol	0.654	ND	0.345	0.390	52.8	59.6	1	19.0-120			12.2	32
(S) 2-Fluorophenol					43.6	52.9		12.0-120				
(S) Phenol-d5					41.6	50.3		10.0-120				
(S) Nitrobenzene-d5					30.9	36.4		10.0-122				
(S) 2-Fluorobiphenyl					44.0	50.8		15.0-120				
(S) 2,4,6-Tribromophenol					60.4	69.3		10.0-127				
(S) p-Terphenyl-d14					59.3	66.1		10.0-120				

1

Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

# GLOSSARY OF TERMS

## Guide to Reading and Understanding Your Laboratory Report

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

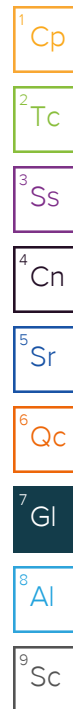
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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

### Abbreviations and Definitions

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

### Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
T8	Sample(s) received past/too close to holding time expiration.



# ACCREDITATIONS & LOCATIONS

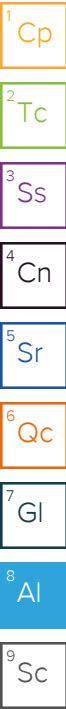
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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 <sup>1 6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1 4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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.



[illegible]