

Cascade Corporation- Fairview, OR

Sample Delivery Group: L1378380
Samples Received: 07/14/2021
Project Number: PNG0564S21
Description:

Report To: Cindy Bartlett
2201 NE 201st Avenue
Fairview, OR 97024-9718

Entire Report Reviewed By:



Brian Ford
Project Manager

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TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
BAG BLANK-071221 L1378380-01	5
Qc: Quality Control Summary	7
Volatile Organic Compounds (GC/MS) by Method 8260D	7
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	11
Gl: Glossary of Terms	12
Al: Accreditations & Locations	13
Sc: Sample Chain of Custody	14

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

SAMPLE SUMMARY

BAG BLANK-071221 L1378380-01 GW

Collected by
Pat Yadon

Collected date/time
07/12/21 17:45

Received date/time
07/14/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1707452	1	07/18/21 22:23	07/18/21 22:23	ACG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E-SIM	WG1706088	1	07/17/21 07:59	07/19/21 19:45	AMG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

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⁹Sc

ACCOUNT:

Cascade Corporation- Fairview, OR

PROJECT:

PNG0564S21

SDG:

L1378380

DATE/TIME:

07/21/21 16:26

PAGE:

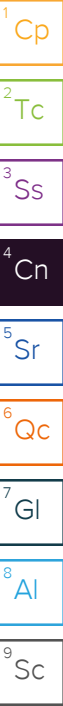
3 of 14

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.

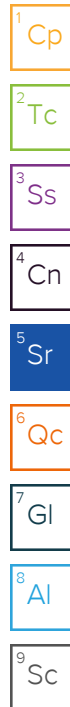


Brian Ford
Project Manager



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		11.3	25.0	1	07/18/2021 22:23	WG1707452
Acrolein	U	C3	2.54	50.0	1	07/18/2021 22:23	WG1707452
Acrylonitrile	U		0.671	5.00	1	07/18/2021 22:23	WG1707452
Benzene	U		0.0941	0.500	1	07/18/2021 22:23	WG1707452
Bromobenzene	U		0.118	0.500	1	07/18/2021 22:23	WG1707452
Bromodichloromethane	U		0.136	0.500	1	07/18/2021 22:23	WG1707452
Bromoform	U		0.129	0.500	1	07/18/2021 22:23	WG1707452
Bromomethane	U		0.605	2.50	1	07/18/2021 22:23	WG1707452
n-Butylbenzene	U		0.157	0.500	1	07/18/2021 22:23	WG1707452
sec-Butylbenzene	U		0.125	0.500	1	07/18/2021 22:23	WG1707452
tert-Butylbenzene	U		0.127	0.500	1	07/18/2021 22:23	WG1707452
Carbon disulfide	U		0.0962	0.500	1	07/18/2021 22:23	WG1707452
Carbon tetrachloride	U		0.128	0.500	1	07/18/2021 22:23	WG1707452
Chlorobenzene	U		0.117	0.500	1	07/18/2021 22:23	WG1707452
Chlorodibromomethane	U		0.140	0.500	1	07/18/2021 22:23	WG1707452
Chloroethane	U		0.192	2.50	1	07/18/2021 22:23	WG1707452
Chloroform	U	J4	0.111	0.500	1	07/18/2021 22:23	WG1707452
Chloromethane	U		0.960	1.25	1	07/18/2021 22:23	WG1707452
2-Chlorotoluene	U		0.106	0.500	1	07/18/2021 22:23	WG1707452
4-Chlorotoluene	U		0.114	0.500	1	07/18/2021 22:23	WG1707452
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	07/18/2021 22:23	WG1707452
1,2-Dibromoethane	U		0.126	0.500	1	07/18/2021 22:23	WG1707452
Dibromomethane	U		0.122	0.500	1	07/18/2021 22:23	WG1707452
1,2-Dichlorobenzene	U		0.107	0.500	1	07/18/2021 22:23	WG1707452
1,3-Dichlorobenzene	U		0.299	0.500	1	07/18/2021 22:23	WG1707452
1,4-Dichlorobenzene	U		0.120	0.500	1	07/18/2021 22:23	WG1707452
Dichlorodifluoromethane	U		0.374	2.50	1	07/18/2021 22:23	WG1707452
1,1-Dichloroethane	U		0.100	0.500	1	07/18/2021 22:23	WG1707452
1,2-Dichloroethane	U		0.0819	0.500	1	07/18/2021 22:23	WG1707452
1,1-Dichloroethene	U		0.188	0.500	1	07/18/2021 22:23	WG1707452
cis-1,2-Dichloroethene	U		0.126	0.500	1	07/18/2021 22:23	WG1707452
trans-1,2-Dichloroethene	U		0.149	0.500	1	07/18/2021 22:23	WG1707452
1,2-Dichloropropane	U		0.149	0.500	1	07/18/2021 22:23	WG1707452
1,1-Dichloropropene	U		0.142	0.500	1	07/18/2021 22:23	WG1707452
1,3-Dichloropropane	U		0.109	1.00	1	07/18/2021 22:23	WG1707452
cis-1,3-Dichloropropene	U		0.111	0.500	1	07/18/2021 22:23	WG1707452
trans-1,3-Dichloropropene	U		0.118	0.500	1	07/18/2021 22:23	WG1707452
2,2-Dichloropropane	U	J4	0.161	0.500	1	07/18/2021 22:23	WG1707452
Di-isopropyl ether	U		0.105	0.500	1	07/18/2021 22:23	WG1707452
Ethylbenzene	U		0.137	0.500	1	07/18/2021 22:23	WG1707452
Hexachloro-1,3-butadiene	U		0.337	1.00	1	07/18/2021 22:23	WG1707452
Isopropylbenzene	U		0.105	0.500	1	07/18/2021 22:23	WG1707452
p-Isopropyltoluene	U		0.120	0.500	1	07/18/2021 22:23	WG1707452
2-Butanone (MEK)	U		1.19	5.00	1	07/18/2021 22:23	WG1707452
Methylene Chloride	U		0.430	2.50	1	07/18/2021 22:23	WG1707452
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	07/18/2021 22:23	WG1707452
Methyl tert-butyl ether	U		0.101	0.500	1	07/18/2021 22:23	WG1707452
Naphthalene	U		0.174	2.50	1	07/18/2021 22:23	WG1707452
n-Propylbenzene	U		0.0993	0.500	1	07/18/2021 22:23	WG1707452
Styrene	U		0.118	0.500	1	07/18/2021 22:23	WG1707452
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	07/18/2021 22:23	WG1707452
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	07/18/2021 22:23	WG1707452
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	07/18/2021 22:23	WG1707452
Tetrachloroethene	U		0.300	0.500	1	07/18/2021 22:23	WG1707452
Toluene	U		0.278	0.500	1	07/18/2021 22:23	WG1707452
1,2,3-Trichlorobenzene	U		0.164	0.500	1	07/18/2021 22:23	WG1707452



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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	U		0.481	1.00	1	07/18/2021 22:23	WG1707452
1,1,1-Trichloroethane	U		0.149	0.500	1	07/18/2021 22:23	WG1707452
1,1,2-Trichloroethane	U		0.158	0.500	1	07/18/2021 22:23	WG1707452
Trichloroethene	U		0.190	0.500	1	07/18/2021 22:23	WG1707452
Trichlorofluoromethane	U		0.160	2.50	1	07/18/2021 22:23	WG1707452
1,2,3-Trichloropropane	U		0.237	2.50	1	07/18/2021 22:23	WG1707452
1,2,4-Trimethylbenzene	U		0.322	0.500	1	07/18/2021 22:23	WG1707452
1,2,3-Trimethylbenzene	U		0.104	0.500	1	07/18/2021 22:23	WG1707452
1,3,5-Trimethylbenzene	U		0.104	0.500	1	07/18/2021 22:23	WG1707452
Vinyl chloride	U		0.234	0.500	1	07/18/2021 22:23	WG1707452
Xylenes, Total	U		0.174	1.50	1	07/18/2021 22:23	WG1707452
(S) Toluene-d8	106			80.0-120		07/18/2021 22:23	WG1707452
(S) 4-Bromofluorobenzene	90.8			77.0-126		07/18/2021 22:23	WG1707452
(S) 1,2-Dichloroethane-d4	105			70.0-130		07/18/2021 22:23	WG1707452

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

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,4-Dioxane	U		0.0447	0.400	1	07/19/2021 19:45	WG1706088
(S) Nitrobenzene-d5	83.0			10.0-120		07/19/2021 19:45	WG1706088

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3680912-3 07/18/21 20:00

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500
Ethylbenzene	U		0.137	0.500

¹Cp

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³Ss

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Method Blank (MB)

(MB) R3680912-3 07/18/21 20:00

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.337	1.00
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	0.500
1,2,3-Trimethylbenzene	U		0.104	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	102			80.0-120
(S) 4-Bromofluorobenzene	90.2			77.0-126
(S) 1,2-Dichloroethane-d4	110			70.0-130

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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Al

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Sc

Laboratory Control Sample (LCS)

(LCS) R3680912-1 07/18/21 17:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	25.4	102	19.0-160	
Acrolein	25.0	20.9	83.6	10.0-160	
Acrylonitrile	25.0	24.9	99.6	55.0-149	

Laboratory Control Sample (LCS)

(LCS) R3680912-1 07/18/21 17:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Benzene	5.00	5.42	108	70.0-123	
Bromobenzene	5.00	5.33	107	73.0-121	
Bromodichloromethane	5.00	5.55	111	75.0-120	
Bromoform	5.00	4.87	97.4	68.0-132	
Bromomethane	5.00	6.41	128	10.0-160	
n-Butylbenzene	5.00	5.54	111	73.0-125	
sec-Butylbenzene	5.00	5.33	107	75.0-125	
tert-Butylbenzene	5.00	5.04	101	76.0-124	
Carbon disulfide	5.00	5.90	118	61.0-128	
Carbon tetrachloride	5.00	5.81	116	68.0-126	
Chlorobenzene	5.00	5.71	114	80.0-121	
Chlorodibromomethane	5.00	4.99	99.8	77.0-125	
Chloroethane	5.00	6.03	121	47.0-150	
Chloroform	5.00	6.14	123	73.0-120	J4
Chloromethane	5.00	5.57	111	41.0-142	
2-Chlorotoluene	5.00	5.57	111	76.0-123	
4-Chlorotoluene	5.00	5.72	114	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.83	96.6	58.0-134	
1,2-Dibromoethane	5.00	5.28	106	80.0-122	
Dibromomethane	5.00	5.26	105	80.0-120	
1,2-Dichlorobenzene	5.00	5.58	112	79.0-121	
1,3-Dichlorobenzene	5.00	5.81	116	79.0-120	
1,4-Dichlorobenzene	5.00	5.32	106	79.0-120	
Dichlorodifluoromethane	5.00	5.71	114	51.0-149	
1,1-Dichloroethane	5.00	5.96	119	70.0-126	
1,2-Dichloroethane	5.00	5.96	119	70.0-128	
1,1-Dichloroethene	5.00	5.23	105	71.0-124	
cis-1,2-Dichloroethene	5.00	5.65	113	73.0-120	
trans-1,2-Dichloroethene	5.00	5.41	108	73.0-120	
1,2-Dichloropropane	5.00	5.57	111	77.0-125	
1,1-Dichloropropene	5.00	5.60	112	74.0-126	
1,3-Dichloropropane	5.00	5.53	111	80.0-120	
cis-1,3-Dichloropropene	5.00	5.65	113	80.0-123	
trans-1,3-Dichloropropene	5.00	5.20	104	78.0-124	
2,2-Dichloropropane	5.00	6.63	133	58.0-130	J4
Di-isopropyl ether	5.00	5.37	107	58.0-138	
Ethylbenzene	5.00	5.46	109	79.0-123	
Hexachloro-1,3-butadiene	5.00	3.90	78.0	54.0-138	
Isopropylbenzene	5.00	4.64	92.8	76.0-127	
p-Isopropyltoluene	5.00	4.92	98.4	76.0-125	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R3680912-1 07/18/21 17:12

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
2-Butanone (MEK)	25.0	26.8	107	44.0-160	
Methylene Chloride	5.00	5.32	106	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	25.9	104	68.0-142	
Methyl tert-butyl ether	5.00	5.80	116	68.0-125	
Naphthalene	5.00	4.86	97.2	54.0-135	
n-Propylbenzene	5.00	5.16	103	77.0-124	
Styrene	5.00	4.41	88.2	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	5.34	107	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	6.10	122	65.0-130	
1,1,2-Trichlorotrifluoroethane	5.00	6.22	124	69.0-132	
Tetrachloroethene	5.00	5.80	116	72.0-132	
Toluene	5.00	5.59	112	79.0-120	
1,2,3-Trichlorobenzene	5.00	3.85	77.0	50.0-138	
1,2,4-Trichlorobenzene	5.00	3.72	74.4	57.0-137	
1,1,1-Trichloroethane	5.00	5.85	117	73.0-124	
1,1,2-Trichloroethane	5.00	5.40	108	80.0-120	
Trichloroethene	5.00	5.53	111	78.0-124	
Trichlorofluoromethane	5.00	5.48	110	59.0-147	
1,2,3-Trichloropropane	5.00	5.84	117	73.0-130	
1,2,4-Trimethylbenzene	5.00	5.48	110	76.0-121	
1,2,3-Trimethylbenzene	5.00	5.04	101	77.0-120	
1,3,5-Trimethylbenzene	5.00	5.32	106	76.0-122	
Vinyl chloride	5.00	5.69	114	67.0-131	
Xylenes, Total	15.0	15.7	105	79.0-123	
(S) Toluene-d8			102	80.0-120	
(S) 4-Bromofluorobenzene			91.3	77.0-126	
(S) 1,2-Dichloroethane-d4			108	70.0-130	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3681555-3 07/19/21 19:25

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,4-Dioxane	U		0.0447	0.400
(S) Nitrobenzene-d5	89.2			10.0-120

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

(LCS) R3681555-1 07/19/21 18:47 • (LCSD) R3681555-2 07/19/21 19:06

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,4-Dioxane	50.0	57.2	58.2	114	116	73.0-146			1.73	20
(S) Nitrobenzene-d5				87.4	94.4	10.0-120				

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

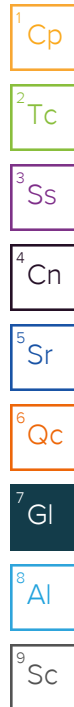
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
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.
J4	The associated batch QC was outside the established quality control range for accuracy.



ACCREDITATIONS & LOCATIONS

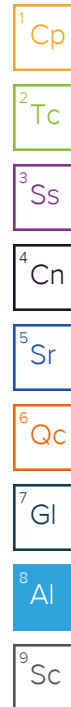
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



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