

## Cascade Corporation- Fairview, OR

Sample Delivery Group: L1095434

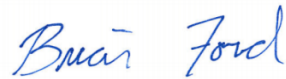
Samples Received: 05/04/2019

Project Number:

Description: Cascade TSA

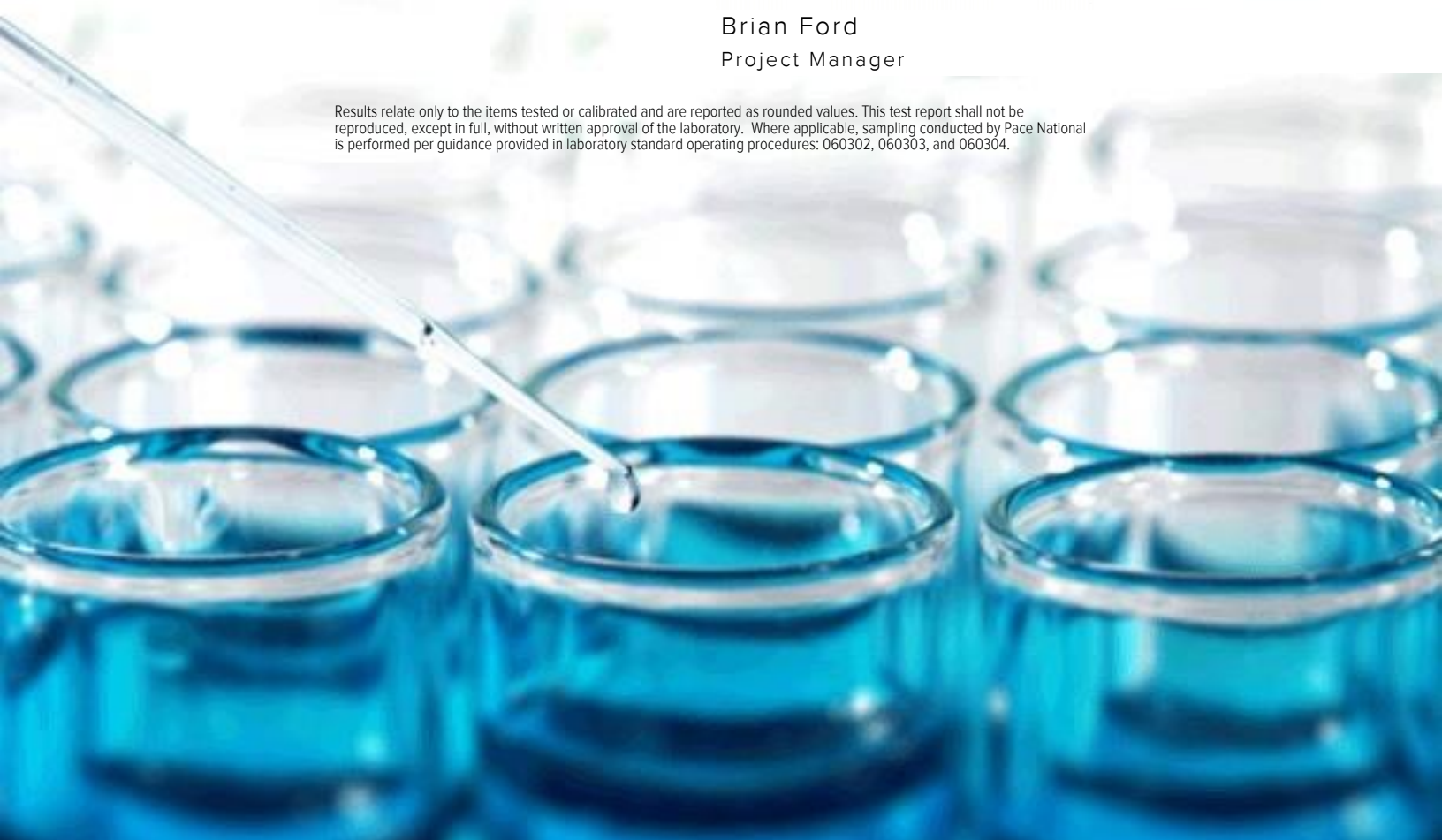
Report To: Brian Webb  
2201 NE 201st Avenue  
Fairview, OR 97024-9718

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.





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# SAMPLE SUMMARY



## TS-C-EFF-050319 L1095434-01 GW

Collected by Pat/Dictrich      Collected date/time 05/03/19 10:35      Received date/time 05/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1277852	1	05/08/19 17:23	05/08/19 17:23	ADM	Mt. Juliet, TN

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

## TS-C-EFF-050319-DUP L1095434-02 GW

Collected by Pat/Dictrich      Collected date/time 05/03/19 10:36      Received date/time 05/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1277852	1	05/08/19 17:42	05/08/19 17:42	ADM	Mt. Juliet, TN

<sup>4</sup> Cn

<sup>5</sup> Sr

## TS-C-INF-050319 L1095434-03 GW

Collected by Pat/Dictrich      Collected date/time 05/03/19 10:45      Received date/time 05/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1277852	1	05/08/19 18:02	05/08/19 18:02	ADM	Mt. Juliet, TN

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



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

- <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



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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		25.0	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Acrolein	ND		50.0	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Acrylonitrile	ND		5.00	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Benzene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Bromobenzene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Bromodichloromethane	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Bromoform	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Bromomethane	ND		2.50	1	05/08/2019 17:23	<a href="#">WG1277852</a>
n-Butylbenzene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
sec-Butylbenzene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
tert-Butylbenzene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Carbon disulfide	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Carbon tetrachloride	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Chlorobenzene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Chlorodibromomethane	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Chloroethane	ND		2.50	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Chloroform	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Chloromethane	ND		1.25	1	05/08/2019 17:23	<a href="#">WG1277852</a>
2-Chlorotoluene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
4-Chlorotoluene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,2-Dibromo-3-Chloropropane	ND		2.50	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,2-Dibromoethane	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Dibromomethane	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,2-Dichlorobenzene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,3-Dichlorobenzene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,4-Dichlorobenzene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Dichlorodifluoromethane	ND		2.50	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,1-Dichloroethane	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,2-Dichloroethane	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,1-Dichloroethene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
cis-1,2-Dichloroethene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
trans-1,2-Dichloroethene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,2-Dichloropropane	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,1-Dichloropropene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,3-Dichloropropane	ND		1.00	1	05/08/2019 17:23	<a href="#">WG1277852</a>
cis-1,3-Dichloropropene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
trans-1,3-Dichloropropene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
2,2-Dichloropropane	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Di-isopropyl ether	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Ethylbenzene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Hexachloro-1,3-butadiene	ND		1.00	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Isopropylbenzene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
p-Isopropyltoluene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
2-Butanone (MEK)	ND		5.00	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Methylene Chloride	ND		2.50	1	05/08/2019 17:23	<a href="#">WG1277852</a>
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Methyl tert-butyl ether	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Naphthalene	ND		2.50	1	05/08/2019 17:23	<a href="#">WG1277852</a>
n-Propylbenzene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Styrene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,1,1,2-Tetrachloroethane	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,1,2,2-Tetrachloroethane	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Tetrachloroethene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Toluene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,2,3-Trichlorobenzene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</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 8260C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,1,1-Trichloroethane	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,1,2-Trichloroethane	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Trichloroethene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Trichlorofluoromethane	ND		2.50	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,2,3-Trichloropropane	ND		2.50	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,2,4-Trimethylbenzene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,2,3-Trimethylbenzene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
1,3,5-Trimethylbenzene	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Vinyl chloride	ND		0.500	1	05/08/2019 17:23	<a href="#">WG1277852</a>
Xylenes, Total	ND		1.50	1	05/08/2019 17:23	<a href="#">WG1277852</a>
(S) Toluene-d8	98.1		80.0-120		05/08/2019 17:23	<a href="#">WG1277852</a>
(S) 4-Bromofluorobenzene	96.9		77.0-126		05/08/2019 17:23	<a href="#">WG1277852</a>
(S) 1,2-Dichloroethane-d4	110		70.0-130		05/08/2019 17:23	<a href="#">WG1277852</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 8260C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		25.0	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Acrolein	ND		50.0	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Acrylonitrile	ND		5.00	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Benzene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Bromobenzene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Bromodichloromethane	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Bromoform	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Bromomethane	ND		2.50	1	05/08/2019 17:42	<a href="#">WG1277852</a>
n-Butylbenzene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
sec-Butylbenzene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
tert-Butylbenzene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Carbon disulfide	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Carbon tetrachloride	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Chlorobenzene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Chlorodibromomethane	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Chloroethane	ND		2.50	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Chloroform	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Chloromethane	ND		1.25	1	05/08/2019 17:42	<a href="#">WG1277852</a>
2-Chlorotoluene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
4-Chlorotoluene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,2-Dibromo-3-Chloropropane	ND		2.50	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,2-Dibromoethane	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Dibromomethane	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,2-Dichlorobenzene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,3-Dichlorobenzene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,4-Dichlorobenzene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Dichlorodifluoromethane	ND		2.50	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,1-Dichloroethane	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,2-Dichloroethane	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,1-Dichloroethene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
cis-1,2-Dichloroethene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
trans-1,2-Dichloroethene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,2-Dichloropropane	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,1-Dichloropropene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,3-Dichloropropane	ND		1.00	1	05/08/2019 17:42	<a href="#">WG1277852</a>
cis-1,3-Dichloropropene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
trans-1,3-Dichloropropene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
2,2-Dichloropropane	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Di-isopropyl ether	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Ethylbenzene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Hexachloro-1,3-butadiene	ND		1.00	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Isopropylbenzene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
p-Isopropyltoluene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
2-Butanone (MEK)	ND		5.00	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Methylene Chloride	ND		2.50	1	05/08/2019 17:42	<a href="#">WG1277852</a>
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Methyl tert-butyl ether	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Naphthalene	ND		2.50	1	05/08/2019 17:42	<a href="#">WG1277852</a>
n-Propylbenzene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Styrene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,1,1,2-Tetrachloroethane	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,1,2,2-Tetrachloroethane	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Tetrachloroethene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Toluene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,2,3-Trichlorobenzene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</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 8260C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,1,1-Trichloroethane	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,1,2-Trichloroethane	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Trichloroethene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Trichlorofluoromethane	ND		2.50	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,2,3-Trichloropropane	ND		2.50	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,2,4-Trimethylbenzene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,2,3-Trimethylbenzene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
1,3,5-Trimethylbenzene	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Vinyl chloride	ND		0.500	1	05/08/2019 17:42	<a href="#">WG1277852</a>
Xylenes, Total	ND		1.50	1	05/08/2019 17:42	<a href="#">WG1277852</a>
(S) Toluene-d8	94.2		80.0-120		05/08/2019 17:42	<a href="#">WG1277852</a>
(S) 4-Bromofluorobenzene	93.9		77.0-126		05/08/2019 17:42	<a href="#">WG1277852</a>
(S) 1,2-Dichloroethane-d4	107		70.0-130		05/08/2019 17:42	<a href="#">WG1277852</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 8260C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		25.0	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Acrolein	ND		50.0	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Acrylonitrile	ND		5.00	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Benzene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Bromobenzene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Bromodichloromethane	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Bromoform	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Bromomethane	ND		2.50	1	05/08/2019 18:02	<a href="#">WG1277852</a>
n-Butylbenzene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
sec-Butylbenzene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
tert-Butylbenzene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Carbon disulfide	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Carbon tetrachloride	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Chlorobenzene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Chlorodibromomethane	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Chloroethane	ND		2.50	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Chloroform	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Chloromethane	ND		1.25	1	05/08/2019 18:02	<a href="#">WG1277852</a>
2-Chlorotoluene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
4-Chlorotoluene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,2-Dibromo-3-Chloropropane	ND		2.50	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,2-Dibromoethane	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Dibromomethane	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,2-Dichlorobenzene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,3-Dichlorobenzene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,4-Dichlorobenzene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Dichlorodifluoromethane	ND		2.50	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,1-Dichloroethane	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,2-Dichloroethane	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,1-Dichloroethene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
cis-1,2-Dichloroethene	0.878		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
trans-1,2-Dichloroethene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,2-Dichloropropane	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,1-Dichloropropene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,3-Dichloropropane	ND		1.00	1	05/08/2019 18:02	<a href="#">WG1277852</a>
cis-1,3-Dichloropropene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
trans-1,3-Dichloropropene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
2,2-Dichloropropane	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Di-isopropyl ether	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Ethylbenzene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Hexachloro-1,3-butadiene	ND		1.00	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Isopropylbenzene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
p-Isopropyltoluene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
2-Butanone (MEK)	ND		5.00	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Methylene Chloride	ND		2.50	1	05/08/2019 18:02	<a href="#">WG1277852</a>
4-Methyl-2-pentanone (MIBK)	ND		5.00	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Methyl tert-butyl ether	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Naphthalene	ND		2.50	1	05/08/2019 18:02	<a href="#">WG1277852</a>
n-Propylbenzene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Styrene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,1,1,2-Tetrachloroethane	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,1,2,2-Tetrachloroethane	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,1,2-Trichlorotrifluoroethane	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Tetrachloroethene	0.562		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Toluene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,2,3-Trichlorobenzene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</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 8260C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,2,4-Trichlorobenzene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,1,1-Trichloroethane	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,1,2-Trichloroethane	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Trichloroethene	7.19		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Trichlorofluoromethane	ND		2.50	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,2,3-Trichloropropane	ND		2.50	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,2,4-Trimethylbenzene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,2,3-Trimethylbenzene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
1,3,5-Trimethylbenzene	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Vinyl chloride	ND		0.500	1	05/08/2019 18:02	<a href="#">WG1277852</a>
Xylenes, Total	ND		1.50	1	05/08/2019 18:02	<a href="#">WG1277852</a>
(S) Toluene-d8	94.3		80.0-120		05/08/2019 18:02	<a href="#">WG1277852</a>
(S) 4-Bromofluorobenzene	90.8		77.0-126		05/08/2019 18:02	<a href="#">WG1277852</a>
(S) 1,2-Dichloroethane-d4	109		70.0-130		05/08/2019 18:02	<a href="#">WG1277852</a>

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



Method Blank (MB)

(MB) R3409512-4 05/08/19 12:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrolein	U		3.97	50.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
Carbon disulfide	U		0.101	0.500
sec-Butylbenzene	U		0.134	0.500
Carbon tetrachloride	U		0.159	0.500
tert-Butylbenzene	U		0.183	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
2-Chlorotoluene	U		0.111	0.500
1,2-Dibromoethane	U		0.193	0.500
4-Chlorotoluene	U		0.0972	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
cis-1,3-Dichloropropene	U		0.0976	0.500
1,3-Dichloropropane	U		0.147	1.00
trans-1,3-Dichloropropene	U		0.222	0.500
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500
Ethylbenzene	U		0.158	0.500

<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) R3409512-4 05/08/19 12:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Butanone (MEK)	U		1.28	5.00
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
n-Propylbenzene	U		0.162	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,1,2-Trichloroethane	U		0.186	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,2,4-Trimethylbenzene	U		0.123	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	95.5			80.0-120
(S) 4-Bromofluorobenzene	91.1			77.0-126
(S) 1,2-Dichloroethane-d4	101			70.0-130

<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) R3409512-1 05/08/19 10:46

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	125	128	102	19.0-160	
Acrolein	125	55.1	44.1	10.0-160	
Acrylonitrile	125	111	88.5	55.0-149	



Laboratory Control Sample (LCS)

(LCS) R3409512-1 05/08/19 10:46

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Benzene	25.0	22.5	89.8	70.0-123	
Bromodichloromethane	25.0	22.8	91.3	75.0-120	
Bromoform	25.0	23.0	92.2	68.0-132	
Bromomethane	25.0	20.6	82.5	10.0-160	
Carbon disulfide	25.0	19.3	77.3	61.0-128	
Carbon tetrachloride	25.0	22.9	91.5	68.0-126	
Chlorobenzene	25.0	23.5	94.0	80.0-121	
Bromobenzene	25.0	22.8	91.4	73.0-121	
Chlorodibromomethane	25.0	23.7	94.7	77.0-125	
Chloroethane	25.0	23.9	95.7	47.0-150	
Chloroform	25.0	23.7	94.8	73.0-120	
Chloromethane	25.0	21.5	86.1	41.0-142	
n-Butylbenzene	25.0	22.9	91.6	73.0-125	
1,2-Dibromo-3-Chloropropane	25.0	18.3	73.4	58.0-134	
sec-Butylbenzene	25.0	22.7	90.8	75.0-125	
1,2-Dibromoethane	25.0	23.3	93.3	80.0-122	
tert-Butylbenzene	25.0	24.3	97.1	76.0-124	
Dibromomethane	25.0	23.7	94.8	80.0-120	
1,2-Dichlorobenzene	25.0	22.1	88.5	79.0-121	
1,3-Dichlorobenzene	25.0	22.4	89.7	79.0-120	
1,4-Dichlorobenzene	25.0	21.8	87.1	79.0-120	
Dichlorodifluoromethane	25.0	22.7	90.7	51.0-149	
1,1-Dichloroethane	25.0	24.4	97.5	70.0-126	
1,2-Dichloroethane	25.0	23.1	92.5	70.0-128	
1,1-Dichloroethene	25.0	22.8	91.3	71.0-124	
2-Chlorotoluene	25.0	24.3	97.2	76.0-123	
4-Chlorotoluene	25.0	23.8	95.2	75.0-122	
cis-1,2-Dichloroethene	25.0	24.0	96.0	73.0-120	
trans-1,2-Dichloroethene	25.0	24.4	97.6	73.0-120	
1,2-Dichloropropane	25.0	25.1	101	77.0-125	
cis-1,3-Dichloropropene	25.0	23.4	93.7	80.0-123	
trans-1,3-Dichloropropene	25.0	22.7	90.8	78.0-124	
Di-isopropyl ether	25.0	23.0	91.8	58.0-138	
Ethylbenzene	25.0	23.5	93.9	79.0-123	
1,1-Dichloropropene	25.0	22.7	90.7	74.0-126	
1,3-Dichloropropane	25.0	22.8	91.1	80.0-120	
2-Butanone (MEK)	125	119	95.6	44.0-160	
2,2-Dichloropropane	25.0	26.3	105	58.0-130	
Methylene Chloride	25.0	24.7	98.9	67.0-120	
4-Methyl-2-pentanone (MIBK)	125	113	90.1	68.0-142	

<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) R3409512-1 05/08/19 10:46

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Methyl tert-butyl ether	25.0	22.1	88.6	68.0-125	
Naphthalene	25.0	19.4	77.6	54.0-135	
Hexachloro-1,3-butadiene	25.0	25.6	102	54.0-138	
Styrene	25.0	22.6	90.5	73.0-130	
1,1,1,2-Tetrachloroethane	25.0	23.6	94.5	75.0-125	
1,1,2,2-Tetrachloroethane	25.0	24.3	97.1	65.0-130	
Isopropylbenzene	25.0	22.4	89.7	76.0-127	
p-Isopropyltoluene	25.0	23.7	94.9	76.0-125	
Tetrachloroethene	25.0	24.4	97.6	72.0-132	
Toluene	25.0	21.4	85.5	79.0-120	
1,1,1-Trichloroethane	25.0	22.8	91.1	73.0-124	
1,1,2-Trichloroethane	25.0	23.7	94.7	80.0-120	
Trichloroethene	25.0	22.6	90.2	78.0-124	
Trichlorofluoromethane	25.0	23.3	93.3	59.0-147	
1,2,3-Trichloropropane	25.0	24.6	98.6	73.0-130	
n-Propylbenzene	25.0	24.1	96.3	77.0-124	
Vinyl chloride	25.0	24.3	97.2	67.0-131	
Xylenes, Total	75.0	70.0	93.3	79.0-123	
1,1,2-Trichlorotrifluoroethane	25.0	24.3	97.3	69.0-132	
1,2,3-Trichlorobenzene	25.0	23.5	93.9	50.0-138	
1,2,4-Trichlorobenzene	25.0	23.3	93.2	57.0-137	
1,2,3-Trimethylbenzene	25.0	21.1	84.3	77.0-120	
1,2,4-Trimethylbenzene	25.0	23.1	92.3	76.0-121	
1,3,5-Trimethylbenzene	25.0	23.2	92.6	76.0-122	
(S) Toluene-d8			95.6	80.0-120	
(S) 4-Bromofluorobenzene			96.6	77.0-126	
(S) 1,2-Dichloroethane-d4			101	70.0-130	

<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



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.

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.
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.

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

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* 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 National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
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>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

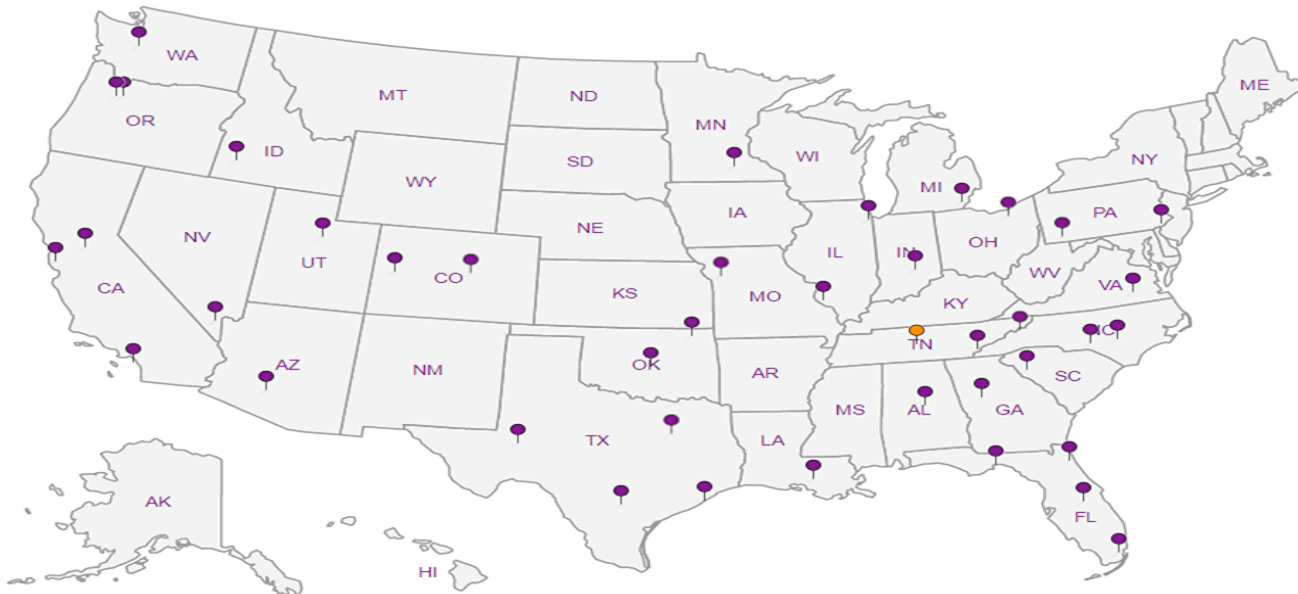
## Third Party Federal Accreditations

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

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**Cascade Corporation- Fairview, OR**  
 2201 NE 201st Avenue  
 Fairview, OR 97024-9718

Billing Information:  
**Accounts Payable**  
 P.O. Box 20187  
 Portland, OR 97294-0187

Report to:  
**Brian Webb**

Email To: **bwebb@Geosyntec.com**

Project Description: **Cascade TSA**

City/State Collected: **Fairview OR.**

Lab Project # **CASCORFOR-WEBB**

Client Project #

Site/Facility ID #

P.O. #

Quote #

Rush? (Lab MUST Be Notified)  
 \_\_\_ Same Day \_\_\_ Five Day  
 \_\_\_ Next Day \_\_\_ 5 Day (Rad Only)  
 \_\_\_ Two Day \_\_\_ 10 Day (Rad Only)  
 \_\_\_ Three Day

Date Results Needed

Immediately Packed on Ice N \_\_\_ Y **X**

No of Cntrs

Analysis / Container / Preservative

Chain of Custody Page 1 of 1

**Pace Analytical**  
 National Center for Testing & Innovation

12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859

QR Code

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No of Cntrs	Remarks	Sample # (lab only)
TS-C-EFF-050319	Grab	GW		5-3-19	10:35	3		-01
TS-C-EFF-050319-DVD	Grab	GW		5-3-19	10:36	3		-02
TS-C-1NF-050319	Grab	GW		5-3-19	10:45	3		-03
		GW						
		GW						
		GW						
							RAD SCREEN: <0.5 mB/hr	

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

Remarks:

Samples returned via:  
 \_\_\_ UPS \_\_\_ FedEx \_\_\_ Courier

Tracking # **46866470 7123**

Relinquished by: (Signature) **[Signature]** Date: **5-3-19** Time: **12:00**

Received by: (Signature) **[Signature]** Trip Blank Received: Yes/No **No**  
 HCL/MeOH  
 TBR

Temp: **0.3 ± 0.08 °C** Bottles Received: **9**

Relinquished by: (Signature) Date: **5/4/19** Time: **0845**

Received for lab by: (Signature) **[Signature]** Date: **5/4/19** Time: **0845**

Hold: Condition: **NCF 1 OK**

Sample Receipt Checklist  
 COC Seal Present/Intact: **NP**  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N