



Cascade Corporation- Fairview, OR

Sample Delivery Group: L1703220
Samples Received: 02/07/2024
Project Number: NG0564S20
Description: Cascade TSA

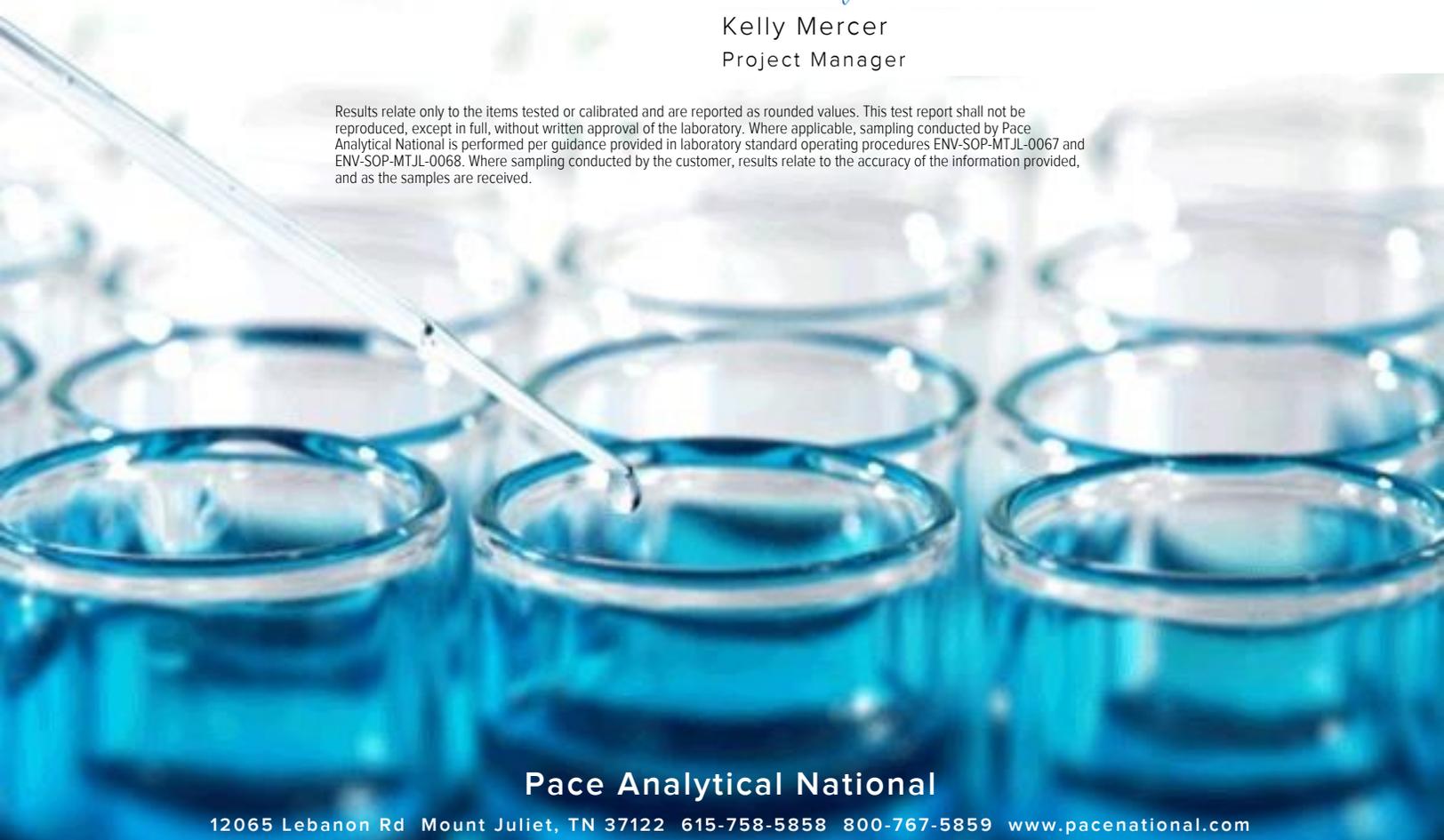
Report To: Cindy Bartlett
2201 NE 201st Avenue
Fairview, OR 97024-9718

Entire Report Reviewed By:



Kelly Mercer
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 Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

TS-C-INF-020624 L1703220-01 GW

Collected by: Pat Yadon
 Collected date/time: 02/06/24 12:45
 Received date/time: 02/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2222997	1	02/08/24 23:38	02/08/24 23:38	DWR	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

TS-C-EFF-020624 L1703220-02 GW

Collected by: Pat Yadon
 Collected date/time: 02/06/24 12:30
 Received date/time: 02/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2222997	1	02/08/24 23:56	02/08/24 23:56	DWR	Mt. Juliet, TN

⁴ Cn

⁵ Sr

TS-C-EFF-020624-DUP L1703220-03 GW

Collected by: Pat Yadon
 Collected date/time: 02/06/24 12:31
 Received date/time: 02/07/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2222997	1	02/09/24 00:15	02/09/24 00:15	DWR	Mt. Juliet, TN

⁶ Qc

⁷ Gl

⁸ Al

⁹ 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.



Kelly Mercer
Project Manager

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 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	25.0	1	02/08/2024 23:38	WG2222997
Acrolein	U	C3	2.54	50.0	1	02/08/2024 23:38	WG2222997
Acrylonitrile	U		0.671	5.00	1	02/08/2024 23:38	WG2222997
Benzene	U		0.0941	0.500	1	02/08/2024 23:38	WG2222997
Bromobenzene	U		0.118	0.500	1	02/08/2024 23:38	WG2222997
Bromodichloromethane	U		0.136	0.500	1	02/08/2024 23:38	WG2222997
Bromoform	U		0.129	0.500	1	02/08/2024 23:38	WG2222997
Bromomethane	U	C3	0.605	2.50	1	02/08/2024 23:38	WG2222997
n-Butylbenzene	U		0.157	0.500	1	02/08/2024 23:38	WG2222997
sec-Butylbenzene	U		0.125	0.500	1	02/08/2024 23:38	WG2222997
tert-Butylbenzene	U		0.127	0.500	1	02/08/2024 23:38	WG2222997
Carbon disulfide	U		0.0962	0.500	1	02/08/2024 23:38	WG2222997
Carbon tetrachloride	U		0.128	0.500	1	02/08/2024 23:38	WG2222997
Chlorobenzene	U		0.117	0.500	1	02/08/2024 23:38	WG2222997
Chlorodibromomethane	U		0.140	0.500	1	02/08/2024 23:38	WG2222997
Chloroethane	U		0.192	2.50	1	02/08/2024 23:38	WG2222997
Chloroform	0.204	J	0.111	0.500	1	02/08/2024 23:38	WG2222997
Chloromethane	U		0.960	1.25	1	02/08/2024 23:38	WG2222997
2-Chlorotoluene	U		0.106	0.500	1	02/08/2024 23:38	WG2222997
4-Chlorotoluene	U		0.114	0.500	1	02/08/2024 23:38	WG2222997
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	02/08/2024 23:38	WG2222997
1,2-Dibromoethane	U		0.126	0.500	1	02/08/2024 23:38	WG2222997
Dibromomethane	U		0.122	0.500	1	02/08/2024 23:38	WG2222997
1,2-Dichlorobenzene	U		0.107	0.500	1	02/08/2024 23:38	WG2222997
1,3-Dichlorobenzene	U		0.299	0.500	1	02/08/2024 23:38	WG2222997
1,4-Dichlorobenzene	U		0.120	0.500	1	02/08/2024 23:38	WG2222997
Dichlorodifluoromethane	U		0.374	2.50	1	02/08/2024 23:38	WG2222997
1,1-Dichloroethane	U		0.100	0.500	1	02/08/2024 23:38	WG2222997
1,2-Dichloroethane	U		0.0819	0.500	1	02/08/2024 23:38	WG2222997
1,1-Dichloroethene	U		0.188	0.500	1	02/08/2024 23:38	WG2222997
cis-1,2-Dichloroethene	0.572		0.126	0.500	1	02/08/2024 23:38	WG2222997
trans-1,2-Dichloroethene	U		0.149	0.500	1	02/08/2024 23:38	WG2222997
1,2-Dichloropropane	U		0.149	0.500	1	02/08/2024 23:38	WG2222997
1,1-Dichloropropene	U		0.142	0.500	1	02/08/2024 23:38	WG2222997
1,3-Dichloropropane	U		0.109	1.00	1	02/08/2024 23:38	WG2222997
cis-1,3-Dichloropropene	U		0.111	0.500	1	02/08/2024 23:38	WG2222997
trans-1,3-Dichloropropene	U		0.118	0.500	1	02/08/2024 23:38	WG2222997
2,2-Dichloropropane	U	C3	0.161	0.500	1	02/08/2024 23:38	WG2222997
Di-isopropyl ether	U		0.105	0.500	1	02/08/2024 23:38	WG2222997
Ethylbenzene	U		0.137	0.500	1	02/08/2024 23:38	WG2222997
Hexachloro-1,3-butadiene	U		0.337	1.00	1	02/08/2024 23:38	WG2222997
Isopropylbenzene	U		0.105	0.500	1	02/08/2024 23:38	WG2222997
p-Isopropyltoluene	U		0.120	0.500	1	02/08/2024 23:38	WG2222997
2-Butanone (MEK)	U		1.19	5.00	1	02/08/2024 23:38	WG2222997
Methylene Chloride	U		0.430	2.50	1	02/08/2024 23:38	WG2222997
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	02/08/2024 23:38	WG2222997
Methyl tert-butyl ether	U		0.101	0.500	1	02/08/2024 23:38	WG2222997
Naphthalene	U		0.174	2.50	1	02/08/2024 23:38	WG2222997
n-Propylbenzene	U		0.0993	0.500	1	02/08/2024 23:38	WG2222997
Styrene	U		0.118	0.500	1	02/08/2024 23:38	WG2222997
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	02/08/2024 23:38	WG2222997
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	02/08/2024 23:38	WG2222997
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	02/08/2024 23:38	WG2222997
Tetrachloroethene	0.501	C5	0.300	0.500	1	02/08/2024 23:38	WG2222997
Toluene	U		0.278	0.500	1	02/08/2024 23:38	WG2222997
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/08/2024 23:38	WG2222997

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 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	02/08/2024 23:38	WG2222997
1,1,1-Trichloroethane	U		0.149	0.500	1	02/08/2024 23:38	WG2222997
1,1,2-Trichloroethane	U		0.158	0.500	1	02/08/2024 23:38	WG2222997
Trichloroethene	5.97	C5 J4	0.190	0.500	1	02/08/2024 23:38	WG2222997
Trichlorofluoromethane	U		0.160	2.50	1	02/08/2024 23:38	WG2222997
1,2,3-Trichloropropane	U		0.237	2.50	1	02/08/2024 23:38	WG2222997
1,2,4-Trimethylbenzene	U		0.322	0.500	1	02/08/2024 23:38	WG2222997
1,2,3-Trimethylbenzene	U		0.104	0.500	1	02/08/2024 23:38	WG2222997
1,3,5-Trimethylbenzene	U		0.104	0.500	1	02/08/2024 23:38	WG2222997
Vinyl chloride	U		0.234	0.500	1	02/08/2024 23:38	WG2222997
Xylenes, Total	U		0.174	1.50	1	02/08/2024 23:38	WG2222997
(S) Toluene-d8	99.9			80.0-120		02/08/2024 23:38	WG2222997
(S) 4-Bromofluorobenzene	97.2			77.0-126		02/08/2024 23:38	WG2222997
(S) 1,2-Dichloroethane-d4	97.6			70.0-130		02/08/2024 23:38	WG2222997

1 Cp

2 Tc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	25.0	1	02/08/2024 23:56	WG2222997
Acrolein	U	<u>C3</u>	2.54	50.0	1	02/08/2024 23:56	WG2222997
Acrylonitrile	U		0.671	5.00	1	02/08/2024 23:56	WG2222997
Benzene	U		0.0941	0.500	1	02/08/2024 23:56	WG2222997
Bromobenzene	U		0.118	0.500	1	02/08/2024 23:56	WG2222997
Bromodichloromethane	U		0.136	0.500	1	02/08/2024 23:56	WG2222997
Bromoform	U		0.129	0.500	1	02/08/2024 23:56	WG2222997
Bromomethane	U	<u>C3</u>	0.605	2.50	1	02/08/2024 23:56	WG2222997
n-Butylbenzene	U		0.157	0.500	1	02/08/2024 23:56	WG2222997
sec-Butylbenzene	U		0.125	0.500	1	02/08/2024 23:56	WG2222997
tert-Butylbenzene	U		0.127	0.500	1	02/08/2024 23:56	WG2222997
Carbon disulfide	U		0.0962	0.500	1	02/08/2024 23:56	WG2222997
Carbon tetrachloride	U		0.128	0.500	1	02/08/2024 23:56	WG2222997
Chlorobenzene	U		0.117	0.500	1	02/08/2024 23:56	WG2222997
Chlorodibromomethane	U		0.140	0.500	1	02/08/2024 23:56	WG2222997
Chloroethane	U		0.192	2.50	1	02/08/2024 23:56	WG2222997
Chloroform	U		0.111	0.500	1	02/08/2024 23:56	WG2222997
Chloromethane	U		0.960	1.25	1	02/08/2024 23:56	WG2222997
2-Chlorotoluene	U		0.106	0.500	1	02/08/2024 23:56	WG2222997
4-Chlorotoluene	U		0.114	0.500	1	02/08/2024 23:56	WG2222997
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	02/08/2024 23:56	WG2222997
1,2-Dibromoethane	U		0.126	0.500	1	02/08/2024 23:56	WG2222997
Dibromomethane	U		0.122	0.500	1	02/08/2024 23:56	WG2222997
1,2-Dichlorobenzene	U		0.107	0.500	1	02/08/2024 23:56	WG2222997
1,3-Dichlorobenzene	U		0.299	0.500	1	02/08/2024 23:56	WG2222997
1,4-Dichlorobenzene	U		0.120	0.500	1	02/08/2024 23:56	WG2222997
Dichlorodifluoromethane	U		0.374	2.50	1	02/08/2024 23:56	WG2222997
1,1-Dichloroethane	U		0.100	0.500	1	02/08/2024 23:56	WG2222997
1,2-Dichloroethane	U		0.0819	0.500	1	02/08/2024 23:56	WG2222997
1,1-Dichloroethene	U		0.188	0.500	1	02/08/2024 23:56	WG2222997
cis-1,2-Dichloroethene	U		0.126	0.500	1	02/08/2024 23:56	WG2222997
trans-1,2-Dichloroethene	U		0.149	0.500	1	02/08/2024 23:56	WG2222997
1,2-Dichloropropane	U		0.149	0.500	1	02/08/2024 23:56	WG2222997
1,1-Dichloropropene	U		0.142	0.500	1	02/08/2024 23:56	WG2222997
1,3-Dichloropropane	U		0.109	1.00	1	02/08/2024 23:56	WG2222997
cis-1,3-Dichloropropene	U		0.111	0.500	1	02/08/2024 23:56	WG2222997
trans-1,3-Dichloropropene	U		0.118	0.500	1	02/08/2024 23:56	WG2222997
2,2-Dichloropropane	U	<u>C3</u>	0.161	0.500	1	02/08/2024 23:56	WG2222997
Di-isopropyl ether	U		0.105	0.500	1	02/08/2024 23:56	WG2222997
Ethylbenzene	U		0.137	0.500	1	02/08/2024 23:56	WG2222997
Hexachloro-1,3-butadiene	U		0.337	1.00	1	02/08/2024 23:56	WG2222997
Isopropylbenzene	U		0.105	0.500	1	02/08/2024 23:56	WG2222997
p-Isopropyltoluene	U		0.120	0.500	1	02/08/2024 23:56	WG2222997
2-Butanone (MEK)	U		1.19	5.00	1	02/08/2024 23:56	WG2222997
Methylene Chloride	U		0.430	2.50	1	02/08/2024 23:56	WG2222997
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	02/08/2024 23:56	WG2222997
Methyl tert-butyl ether	U		0.101	0.500	1	02/08/2024 23:56	WG2222997
Naphthalene	U		0.174	2.50	1	02/08/2024 23:56	WG2222997
n-Propylbenzene	U		0.0993	0.500	1	02/08/2024 23:56	WG2222997
Styrene	U		0.118	0.500	1	02/08/2024 23:56	WG2222997
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	02/08/2024 23:56	WG2222997
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	02/08/2024 23:56	WG2222997
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	02/08/2024 23:56	WG2222997
Tetrachloroethene	U		0.300	0.500	1	02/08/2024 23:56	WG2222997
Toluene	U		0.278	0.500	1	02/08/2024 23:56	WG2222997
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/08/2024 23:56	WG2222997

1 Cp

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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	02/08/2024 23:56	WG2222997
1,1,1-Trichloroethane	U		0.149	0.500	1	02/08/2024 23:56	WG2222997
1,1,2-Trichloroethane	U		0.158	0.500	1	02/08/2024 23:56	WG2222997
Trichloroethene	U	J4	0.190	0.500	1	02/08/2024 23:56	WG2222997
Trichlorofluoromethane	U		0.160	2.50	1	02/08/2024 23:56	WG2222997
1,2,3-Trichloropropane	U		0.237	2.50	1	02/08/2024 23:56	WG2222997
1,2,4-Trimethylbenzene	U		0.322	0.500	1	02/08/2024 23:56	WG2222997
1,2,3-Trimethylbenzene	U		0.104	0.500	1	02/08/2024 23:56	WG2222997
1,3,5-Trimethylbenzene	U		0.104	0.500	1	02/08/2024 23:56	WG2222997
Vinyl chloride	U		0.234	0.500	1	02/08/2024 23:56	WG2222997
Xylenes, Total	U		0.174	1.50	1	02/08/2024 23:56	WG2222997
(S) Toluene-d8	99.4			80.0-120		02/08/2024 23:56	WG2222997
(S) 4-Bromofluorobenzene	97.8			77.0-126		02/08/2024 23:56	WG2222997
(S) 1,2-Dichloroethane-d4	96.8			70.0-130		02/08/2024 23:56	WG2222997

- 1 Cp
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- 8 Al
- 9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	25.0	1	02/09/2024 00:15	WG2222997
Acrolein	U	C3	2.54	50.0	1	02/09/2024 00:15	WG2222997
Acrylonitrile	U		0.671	5.00	1	02/09/2024 00:15	WG2222997
Benzene	U		0.0941	0.500	1	02/09/2024 00:15	WG2222997
Bromobenzene	U		0.118	0.500	1	02/09/2024 00:15	WG2222997
Bromodichloromethane	U		0.136	0.500	1	02/09/2024 00:15	WG2222997
Bromoform	U		0.129	0.500	1	02/09/2024 00:15	WG2222997
Bromomethane	U	C3	0.605	2.50	1	02/09/2024 00:15	WG2222997
n-Butylbenzene	U		0.157	0.500	1	02/09/2024 00:15	WG2222997
sec-Butylbenzene	U		0.125	0.500	1	02/09/2024 00:15	WG2222997
tert-Butylbenzene	U		0.127	0.500	1	02/09/2024 00:15	WG2222997
Carbon disulfide	U		0.0962	0.500	1	02/09/2024 00:15	WG2222997
Carbon tetrachloride	U		0.128	0.500	1	02/09/2024 00:15	WG2222997
Chlorobenzene	U		0.117	0.500	1	02/09/2024 00:15	WG2222997
Chlorodibromomethane	U		0.140	0.500	1	02/09/2024 00:15	WG2222997
Chloroethane	U		0.192	2.50	1	02/09/2024 00:15	WG2222997
Chloroform	U		0.111	0.500	1	02/09/2024 00:15	WG2222997
Chloromethane	U		0.960	1.25	1	02/09/2024 00:15	WG2222997
2-Chlorotoluene	U		0.106	0.500	1	02/09/2024 00:15	WG2222997
4-Chlorotoluene	U		0.114	0.500	1	02/09/2024 00:15	WG2222997
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	02/09/2024 00:15	WG2222997
1,2-Dibromoethane	U		0.126	0.500	1	02/09/2024 00:15	WG2222997
Dibromomethane	U		0.122	0.500	1	02/09/2024 00:15	WG2222997
1,2-Dichlorobenzene	U		0.107	0.500	1	02/09/2024 00:15	WG2222997
1,3-Dichlorobenzene	U		0.299	0.500	1	02/09/2024 00:15	WG2222997
1,4-Dichlorobenzene	U		0.120	0.500	1	02/09/2024 00:15	WG2222997
Dichlorodifluoromethane	U		0.374	2.50	1	02/09/2024 00:15	WG2222997
1,1-Dichloroethane	U		0.100	0.500	1	02/09/2024 00:15	WG2222997
1,2-Dichloroethane	U		0.0819	0.500	1	02/09/2024 00:15	WG2222997
1,1-Dichloroethene	U		0.188	0.500	1	02/09/2024 00:15	WG2222997
cis-1,2-Dichloroethene	U		0.126	0.500	1	02/09/2024 00:15	WG2222997
trans-1,2-Dichloroethene	U		0.149	0.500	1	02/09/2024 00:15	WG2222997
1,2-Dichloropropane	U		0.149	0.500	1	02/09/2024 00:15	WG2222997
1,1-Dichloropropene	U		0.142	0.500	1	02/09/2024 00:15	WG2222997
1,3-Dichloropropane	U		0.109	1.00	1	02/09/2024 00:15	WG2222997
cis-1,3-Dichloropropene	U		0.111	0.500	1	02/09/2024 00:15	WG2222997
trans-1,3-Dichloropropene	U		0.118	0.500	1	02/09/2024 00:15	WG2222997
2,2-Dichloropropane	U	C3	0.161	0.500	1	02/09/2024 00:15	WG2222997
Di-isopropyl ether	U		0.105	0.500	1	02/09/2024 00:15	WG2222997
Ethylbenzene	U		0.137	0.500	1	02/09/2024 00:15	WG2222997
Hexachloro-1,3-butadiene	U		0.337	1.00	1	02/09/2024 00:15	WG2222997
Isopropylbenzene	U		0.105	0.500	1	02/09/2024 00:15	WG2222997
p-Isopropyltoluene	U		0.120	0.500	1	02/09/2024 00:15	WG2222997
2-Butanone (MEK)	U		1.19	5.00	1	02/09/2024 00:15	WG2222997
Methylene Chloride	U		0.430	2.50	1	02/09/2024 00:15	WG2222997
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	02/09/2024 00:15	WG2222997
Methyl tert-butyl ether	U		0.101	0.500	1	02/09/2024 00:15	WG2222997
Naphthalene	U		0.174	2.50	1	02/09/2024 00:15	WG2222997
n-Propylbenzene	U		0.0993	0.500	1	02/09/2024 00:15	WG2222997
Styrene	U		0.118	0.500	1	02/09/2024 00:15	WG2222997
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	02/09/2024 00:15	WG2222997
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	02/09/2024 00:15	WG2222997
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	02/09/2024 00:15	WG2222997
Tetrachloroethene	U		0.300	0.500	1	02/09/2024 00:15	WG2222997
Toluene	U		0.278	0.500	1	02/09/2024 00:15	WG2222997
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/09/2024 00:15	WG2222997

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 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	02/09/2024 00:15	WG2222997
1,1,1-Trichloroethane	U		0.149	0.500	1	02/09/2024 00:15	WG2222997
1,1,2-Trichloroethane	U		0.158	0.500	1	02/09/2024 00:15	WG2222997
Trichloroethene	U	J4	0.190	0.500	1	02/09/2024 00:15	WG2222997
Trichlorofluoromethane	U		0.160	2.50	1	02/09/2024 00:15	WG2222997
1,2,3-Trichloropropane	U		0.237	2.50	1	02/09/2024 00:15	WG2222997
1,2,4-Trimethylbenzene	U		0.322	0.500	1	02/09/2024 00:15	WG2222997
1,2,3-Trimethylbenzene	U		0.104	0.500	1	02/09/2024 00:15	WG2222997
1,3,5-Trimethylbenzene	U		0.104	0.500	1	02/09/2024 00:15	WG2222997
Vinyl chloride	U		0.234	0.500	1	02/09/2024 00:15	WG2222997
Xylenes, Total	U		0.174	1.50	1	02/09/2024 00:15	WG2222997
(S) Toluene-d8	101			80.0-120		02/09/2024 00:15	WG2222997
(S) 4-Bromofluorobenzene	102			77.0-126		02/09/2024 00:15	WG2222997
(S) 1,2-Dichloroethane-d4	101			70.0-130		02/09/2024 00:15	WG2222997

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

Method Blank (MB)

(MB) R4033535-3 02/08/24 18:31

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

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4033535-3 02/08/24 18:31

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	101			80.0-120
(S) 4-Bromofluorobenzene	101			77.0-126
(S) 1,2-Dichloroethane-d4	94.8			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

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

(LCS) R4033535-1 02/08/24 17:35 • (LCSD) R4033535-2 02/08/24 17:54

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 %
Acetone	25.0	28.7	26.9	115	108	19.0-160			6.47	27
Acrolein	25.0	13.5	15.4	54.0	61.6	10.0-160			13.1	26
Acrylonitrile	25.0	24.2	26.5	96.8	106	55.0-149			9.07	20

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

(LCS) R4033535-1 02/08/24 17:35 • (LCSD) R4033535-2 02/08/24 17:54

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 %
Benzene	5.00	5.20	5.29	104	106	70.0-123			1.72	20
Bromobenzene	5.00	5.16	5.23	103	105	73.0-121			1.35	20
Bromodichloromethane	5.00	4.96	5.06	99.2	101	75.0-120			2.00	20
Bromoform	5.00	4.53	4.58	90.6	91.6	68.0-132			1.10	20
Bromomethane	5.00	4.00	3.93	80.0	78.6	10.0-160			1.77	25
n-Butylbenzene	5.00	5.06	4.96	101	99.2	73.0-125			2.00	20
sec-Butylbenzene	5.00	5.17	5.24	103	105	75.0-125			1.34	20
tert-Butylbenzene	5.00	5.23	5.24	105	105	76.0-124			0.191	20
Carbon disulfide	5.00	4.62	5.13	92.4	103	61.0-128			10.5	20
Carbon tetrachloride	5.00	5.60	5.50	112	110	68.0-126			1.80	20
Chlorobenzene	5.00	4.92	5.14	98.4	103	80.0-121			4.37	20
Chlorodibromomethane	5.00	4.98	5.06	99.6	101	77.0-125			1.59	20
Chloroethane	5.00	4.53	4.48	90.6	89.6	47.0-150			1.11	20
Chloroform	5.00	4.97	4.83	99.4	96.6	73.0-120			2.86	20
Chloromethane	5.00	7.02	6.50	140	130	41.0-142			7.69	20
2-Chlorotoluene	5.00	4.88	5.06	97.6	101	76.0-123			3.62	20
4-Chlorotoluene	5.00	5.02	5.02	100	100	75.0-122			0.000	20
1,2-Dibromo-3-Chloropropane	5.00	4.46	4.26	89.2	85.2	58.0-134			4.59	20
1,2-Dibromoethane	5.00	5.00	5.07	100	101	80.0-122			1.39	20
Dibromomethane	5.00	4.84	4.81	96.8	96.2	80.0-120			0.622	20
1,2-Dichlorobenzene	5.00	5.12	5.16	102	103	79.0-121			0.778	20
1,3-Dichlorobenzene	5.00	4.83	4.80	96.6	96.0	79.0-120			0.623	20
1,4-Dichlorobenzene	5.00	5.00	5.11	100	102	79.0-120			2.18	20
Dichlorodifluoromethane	5.00	6.44	6.54	129	131	51.0-149			1.54	20
1,1-Dichloroethane	5.00	4.95	4.88	99.0	97.6	70.0-126			1.42	20
1,2-Dichloroethane	5.00	5.10	4.98	102	99.6	70.0-128			2.38	20
1,1-Dichloroethene	5.00	5.39	5.55	108	111	71.0-124			2.93	20
cis-1,2-Dichloroethene	5.00	4.50	4.68	90.0	93.6	73.0-120			3.92	20
trans-1,2-Dichloroethene	5.00	5.13	5.20	103	104	73.0-120			1.36	20
1,2-Dichloropropane	5.00	4.99	5.01	99.8	100	77.0-125			0.400	20
1,1-Dichloropropene	5.00	5.42	5.48	108	110	74.0-126			1.10	20
1,3-Dichloropropane	5.00	5.02	5.19	100	104	80.0-120			3.33	20
cis-1,3-Dichloropropene	5.00	4.34	4.67	86.8	93.4	80.0-123			7.33	20
trans-1,3-Dichloropropene	5.00	4.44	4.67	88.8	93.4	78.0-124			5.05	20
2,2-Dichloropropane	5.00	3.80	3.83	76.0	76.6	58.0-130			0.786	20
Di-isopropyl ether	5.00	5.09	5.15	102	103	58.0-138			1.17	20
Ethylbenzene	5.00	5.31	5.33	106	107	79.0-123			0.376	20
Hexachloro-1,3-butadiene	5.00	4.48	4.73	89.6	94.6	54.0-138			5.43	20
Isopropylbenzene	5.00	5.26	5.42	105	108	76.0-127			3.00	20
p-Isopropyltoluene	5.00	5.19	5.19	104	104	76.0-125			0.000	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R4033535-1 02/08/24 17:35 • (LCSD) R4033535-2 02/08/24 17:54

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 %
2-Butanone (MEK)	25.0	27.8	25.9	111	104	44.0-160			7.08	20
Methylene Chloride	5.00	4.64	4.36	92.8	87.2	67.0-120			6.22	20
4-Methyl-2-pentanone (MIBK)	25.0	26.7	26.9	107	108	68.0-142			0.746	20
Methyl tert-butyl ether	5.00	4.09	4.23	81.8	84.6	68.0-125			3.37	20
Naphthalene	5.00	4.46	4.46	89.2	89.2	54.0-135			0.000	20
n-Propylbenzene	5.00	5.34	5.40	107	108	77.0-124			1.12	20
Styrene	5.00	5.00	5.02	100	100	73.0-130			0.399	20
1,1,1,2-Tetrachloroethane	5.00	5.09	5.22	102	104	75.0-125			2.52	20
1,1,2,2-Tetrachloroethane	5.00	4.11	3.57	82.2	71.4	65.0-130			14.1	20
1,1,2-Trichlorotrifluoroethane	5.00	5.58	5.99	112	120	69.0-132			7.09	20
Tetrachloroethene	5.00	6.12	6.39	122	128	72.0-132			4.32	20
Toluene	5.00	5.28	5.55	106	111	79.0-120			4.99	20
1,2,3-Trichlorobenzene	5.00	4.89	4.87	97.8	97.4	50.0-138			0.410	20
1,2,4-Trichlorobenzene	5.00	4.77	4.82	95.4	96.4	57.0-137			1.04	20
1,1,1-Trichloroethane	5.00	5.70	5.64	114	113	73.0-124			1.06	20
1,1,2-Trichloroethane	5.00	4.83	5.20	96.6	104	80.0-120			7.38	20
Trichloroethene	5.00	6.11	6.49	122	130	78.0-124		J4	6.03	20
Trichlorofluoromethane	5.00	5.66	5.58	113	112	59.0-147			1.42	20
1,2,3-Trichloropropane	5.00	4.99	5.00	99.8	100	73.0-130			0.200	20
1,2,4-Trimethylbenzene	5.00	4.88	4.75	97.6	95.0	76.0-121			2.70	20
1,2,3-Trimethylbenzene	5.00	4.70	4.65	94.0	93.0	77.0-120			1.07	20
1,3,5-Trimethylbenzene	5.00	5.09	5.14	102	103	76.0-122			0.978	20
Vinyl chloride	5.00	4.95	4.89	99.0	97.8	67.0-131			1.22	20
Xylenes, Total	15.0	15.5	16.0	103	107	79.0-123			3.17	20
(S) Toluene-d8				101	102	80.0-120				
(S) 4-Bromofluorobenzene				99.3	102	77.0-126				
(S) 1,2-Dichloroethane-d4				94.4	95.6	70.0-130				

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.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

ACCREDITATIONS & LOCATIONS

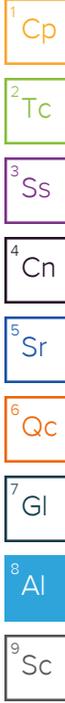
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



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

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

Pres
 Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



Report to:
Cindy Bartlett

Email To:
 CBartlett@Geosyntec.com; bwebb@Geosyntec.c

Project Description:
Cascade T SA

City/State Collected: *Fairview OR.*

Please Circle:
 PT MT CT ET

Phone: **503-669-6286**

Client Project #
NG0564S20

Lab Project #
CASCORFOR-PNG0564

Collected by (print):
PATYADON

Site/Facility ID #

P.O. #

Collected by (signature):
Patricia Yodon

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

Quote #

Immediately Packed on Ice N Y

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
<i>TS-C-INF-020624</i>		<i>GW</i>		<i>2-6-24</i>	<i>12:45</i>	<i>3</i>
<i>TS-C-EFF-020624</i>		<i>GW</i>		<i>2-6-24</i>	<i>12:30</i>	<i>3</i>
<i>TS-C-EFF-020624-DUP</i>		<i>GW</i>		<i>2-6-24</i>	<i>12:31</i>	<i>3</i>
<i>Trip BLANK</i>		<i>GW</i>		<i>2-6-24</i>	<i>NA</i>	<i>10</i>
		<i>GW</i>				<i>2</i>
		<i>GW</i>				
		<i>GW</i>				
		<i>GW</i>				
		<i>GW</i>				
		<i>GW</i>				

VOCs 8260D LL 40mlAmb-HCl

SDG # *1703220*

H009

Acctnum: **CASCORFOR**

Template: **T180633**

Prelogin: **P822181**

PM: **110 - Brian Ford**

PB:

Shipped Via:

Remarks Sample # (lab only)

* 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 # *5217 3314 2388*

pH _____ Temp _____
 Flow _____ Other _____

Sample Receipt Checklist	
COC Seal Present/Intact:	NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable	
VOA Zero Headspace:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Relinquished by: (Signature)
Patricia Yodon

Date: *2-6-24*

Time: *16:30*

Received by: (Signature)
FRED EX

Trip Blank Received: Yes No
 HCL/MeOH TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: *PA6* °C
01740297

Bottles Received: *9*
 If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)
14

Date: *2/7/24* Time: *900*

Hold: Condition: NCF OK