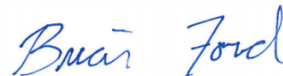


Oregon Dept. of Env. Quality - ODEQ

Sample Delivery Group: L1668808
Samples Received: 10/20/2023
Project Number: QCAT # 29490
Description: Allen Street Groundwater

Report To: Sarah KINGERY
165 E 7th Ave.
Suite 100
Eugene, OR 97401

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 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 National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

1440 ALLEN POST L1668808-01 GW

Collected by JG/RL Collected date/time 10/19/23 10:40 Received date/time 10/20/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2158108	1	10/26/23 06:40	10/26/23 06:40	JAH	Mt. Juliet, TN

¹ Cp

² Tc

³ Ss

1440 ALLEN MID L1668808-02 GW

Collected by JG/RL Collected date/time 10/19/23 10:50 Received date/time 10/20/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2159712	1	10/28/23 01:28	10/28/23 01:28	DYW	Mt. Juliet, TN

⁴ Cn

⁵ Sr

1440 ALLEN PRE L1668808-03 GW

Collected by JG/RL Collected date/time 10/19/23 10:55 Received date/time 10/20/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2159712	1	10/28/23 01:50	10/28/23 01:50	DYW	Mt. Juliet, TN

⁶ Qc

⁷ Gl

⁸ Al

TRIP BLANK L1668808-04 GW

Collected by JG/RL Collected date/time 10/19/23 00:00 Received date/time 10/20/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2159712	1	10/28/23 00:46	10/28/23 00:46	DYW	Mt. Juliet, TN

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.



Brian Ford
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	50.0	1	10/26/2023 06:40	WG2158108
Acrolein	U		2.54	50.0	1	10/26/2023 06:40	WG2158108
Acrylonitrile	U		0.671	10.0	1	10/26/2023 06:40	WG2158108
Benzene	U		0.0941	1.00	1	10/26/2023 06:40	WG2158108
Bromobenzene	U		0.118	1.00	1	10/26/2023 06:40	WG2158108
Bromodichloromethane	U		0.136	1.00	1	10/26/2023 06:40	WG2158108
Bromoform	U		0.129	1.00	1	10/26/2023 06:40	WG2158108
Bromomethane	U	C3	0.605	5.00	1	10/26/2023 06:40	WG2158108
n-Butylbenzene	U		0.157	1.00	1	10/26/2023 06:40	WG2158108
sec-Butylbenzene	U		0.125	1.00	1	10/26/2023 06:40	WG2158108
tert-Butylbenzene	U		0.127	1.00	1	10/26/2023 06:40	WG2158108
Carbon disulfide	U	C3	0.0962	1.00	1	10/26/2023 06:40	WG2158108
Carbon tetrachloride	U		0.128	1.00	1	10/26/2023 06:40	WG2158108
Chlorobenzene	U		0.116	1.00	1	10/26/2023 06:40	WG2158108
Chlorodibromomethane	U		0.140	1.00	1	10/26/2023 06:40	WG2158108
Chloroethane	U	C3	0.192	5.00	1	10/26/2023 06:40	WG2158108
Chloroform	U		0.111	5.00	1	10/26/2023 06:40	WG2158108
Chloromethane	U	J4	0.960	2.50	1	10/26/2023 06:40	WG2158108
2-Chlorotoluene	U		0.106	1.00	1	10/26/2023 06:40	WG2158108
4-Chlorotoluene	U		0.114	1.00	1	10/26/2023 06:40	WG2158108
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	10/26/2023 06:40	WG2158108
1,2-Dibromoethane	U		0.126	1.00	1	10/26/2023 06:40	WG2158108
Dibromomethane	U		0.122	1.00	1	10/26/2023 06:40	WG2158108
1,2-Dichlorobenzene	U		0.107	1.00	1	10/26/2023 06:40	WG2158108
1,3-Dichlorobenzene	U		0.110	1.00	1	10/26/2023 06:40	WG2158108
1,4-Dichlorobenzene	U		0.120	1.00	1	10/26/2023 06:40	WG2158108
Dichlorodifluoromethane	U		0.374	5.00	1	10/26/2023 06:40	WG2158108
1,1-Dichloroethane	U		0.100	1.00	1	10/26/2023 06:40	WG2158108
1,2-Dichloroethane	U		0.0819	1.00	1	10/26/2023 06:40	WG2158108
1,1-Dichloroethene	U		0.188	1.00	1	10/26/2023 06:40	WG2158108
cis-1,2-Dichloroethene	U		0.126	1.00	1	10/26/2023 06:40	WG2158108
trans-1,2-Dichloroethene	U		0.149	1.00	1	10/26/2023 06:40	WG2158108
1,2-Dichloropropane	U	J4	0.149	1.00	1	10/26/2023 06:40	WG2158108
1,1-Dichloropropene	U		0.142	1.00	1	10/26/2023 06:40	WG2158108
1,3-Dichloropropane	U		0.110	1.00	1	10/26/2023 06:40	WG2158108
cis-1,3-Dichloropropene	U		0.111	1.00	1	10/26/2023 06:40	WG2158108
trans-1,3-Dichloropropene	U		0.118	1.00	1	10/26/2023 06:40	WG2158108
2,2-Dichloropropane	U		0.161	1.00	1	10/26/2023 06:40	WG2158108
Di-isopropyl ether	U		0.105	1.00	1	10/26/2023 06:40	WG2158108
Ethylbenzene	U		0.137	1.00	1	10/26/2023 06:40	WG2158108
Hexachloro-1,3-butadiene	U		0.337	1.00	1	10/26/2023 06:40	WG2158108
Isopropylbenzene	U		0.105	1.00	1	10/26/2023 06:40	WG2158108
p-Isopropyltoluene	U		0.120	1.00	1	10/26/2023 06:40	WG2158108
2-Butanone (MEK)	U		1.19	10.0	1	10/26/2023 06:40	WG2158108
Methylene Chloride	U		0.430	5.00	1	10/26/2023 06:40	WG2158108
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	10/26/2023 06:40	WG2158108
Methyl tert-butyl ether	U		0.101	1.00	1	10/26/2023 06:40	WG2158108
Naphthalene	U	C3	1.00	5.00	1	10/26/2023 06:40	WG2158108
n-Propylbenzene	U		0.0993	1.00	1	10/26/2023 06:40	WG2158108
Styrene	U		0.118	1.00	1	10/26/2023 06:40	WG2158108
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	10/26/2023 06:40	WG2158108
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	10/26/2023 06:40	WG2158108
1,1,2-Trichlorotrifluoroethane	U	C3	0.180	1.00	1	10/26/2023 06:40	WG2158108
Tetrachloroethene	U		0.300	1.00	1	10/26/2023 06:40	WG2158108
Toluene	U		0.278	1.00	1	10/26/2023 06:40	WG2158108
1,2,3-Trichlorobenzene	U		0.230	1.00	1	10/26/2023 06:40	WG2158108

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	10/26/2023 06:40	WG2158108
1,1,1-Trichloroethane	U		0.149	1.00	1	10/26/2023 06:40	WG2158108
1,1,2-Trichloroethane	U		0.158	1.00	1	10/26/2023 06:40	WG2158108
Trichloroethene	U		0.190	1.00	1	10/26/2023 06:40	WG2158108
Trichlorofluoromethane	U		0.160	5.00	1	10/26/2023 06:40	WG2158108
1,2,3-Trichloropropane	U		0.237	2.50	1	10/26/2023 06:40	WG2158108
1,2,4-Trimethylbenzene	U		0.322	1.00	1	10/26/2023 06:40	WG2158108
1,2,3-Trimethylbenzene	U		0.104	1.00	1	10/26/2023 06:40	WG2158108
1,3,5-Trimethylbenzene	U		0.104	1.00	1	10/26/2023 06:40	WG2158108
Vinyl chloride	U		0.234	1.00	1	10/26/2023 06:40	WG2158108
Xylenes, Total	U		0.174	3.00	1	10/26/2023 06:40	WG2158108
(S) Toluene-d8	114			80.0-120		10/26/2023 06:40	WG2158108
(S) 4-Bromofluorobenzene	85.1			77.0-126		10/26/2023 06:40	WG2158108
(S) 1,2-Dichloroethane-d4	111			70.0-130		10/26/2023 06:40	WG2158108

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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	50.0	1	10/28/2023 01:28	WG2159712
Acrolein	U		2.54	50.0	1	10/28/2023 01:28	WG2159712
Acrylonitrile	U		0.671	10.0	1	10/28/2023 01:28	WG2159712
Benzene	U		0.0941	1.00	1	10/28/2023 01:28	WG2159712
Bromobenzene	U		0.118	1.00	1	10/28/2023 01:28	WG2159712
Bromodichloromethane	U		0.136	1.00	1	10/28/2023 01:28	WG2159712
Bromoform	U		0.129	1.00	1	10/28/2023 01:28	WG2159712
Bromomethane	U	C3	0.605	5.00	1	10/28/2023 01:28	WG2159712
n-Butylbenzene	U		0.157	1.00	1	10/28/2023 01:28	WG2159712
sec-Butylbenzene	U		0.125	1.00	1	10/28/2023 01:28	WG2159712
tert-Butylbenzene	U		0.127	1.00	1	10/28/2023 01:28	WG2159712
Carbon disulfide	U		0.0962	1.00	1	10/28/2023 01:28	WG2159712
Carbon tetrachloride	U		0.128	1.00	1	10/28/2023 01:28	WG2159712
Chlorobenzene	U		0.116	1.00	1	10/28/2023 01:28	WG2159712
Chlorodibromomethane	U		0.140	1.00	1	10/28/2023 01:28	WG2159712
Chloroethane	U		0.192	5.00	1	10/28/2023 01:28	WG2159712
Chloroform	U		0.111	5.00	1	10/28/2023 01:28	WG2159712
Chloromethane	U		0.960	2.50	1	10/28/2023 01:28	WG2159712
2-Chlorotoluene	U		0.106	1.00	1	10/28/2023 01:28	WG2159712
4-Chlorotoluene	U		0.114	1.00	1	10/28/2023 01:28	WG2159712
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	10/28/2023 01:28	WG2159712
1,2-Dibromoethane	U		0.126	1.00	1	10/28/2023 01:28	WG2159712
Dibromomethane	U		0.122	1.00	1	10/28/2023 01:28	WG2159712
1,2-Dichlorobenzene	U		0.107	1.00	1	10/28/2023 01:28	WG2159712
1,3-Dichlorobenzene	U		0.110	1.00	1	10/28/2023 01:28	WG2159712
1,4-Dichlorobenzene	U		0.120	1.00	1	10/28/2023 01:28	WG2159712
Dichlorodifluoromethane	U		0.374	5.00	1	10/28/2023 01:28	WG2159712
1,1-Dichloroethane	U		0.100	1.00	1	10/28/2023 01:28	WG2159712
1,2-Dichloroethane	U		0.0819	1.00	1	10/28/2023 01:28	WG2159712
1,1-Dichloroethene	U		0.188	1.00	1	10/28/2023 01:28	WG2159712
cis-1,2-Dichloroethene	U		0.126	1.00	1	10/28/2023 01:28	WG2159712
trans-1,2-Dichloroethene	U		0.149	1.00	1	10/28/2023 01:28	WG2159712
1,2-Dichloropropane	U		0.149	1.00	1	10/28/2023 01:28	WG2159712
1,1-Dichloropropene	U		0.142	1.00	1	10/28/2023 01:28	WG2159712
1,3-Dichloropropane	U		0.110	1.00	1	10/28/2023 01:28	WG2159712
cis-1,3-Dichloropropene	U		0.111	1.00	1	10/28/2023 01:28	WG2159712
trans-1,3-Dichloropropene	U		0.118	1.00	1	10/28/2023 01:28	WG2159712
2,2-Dichloropropane	U		0.161	1.00	1	10/28/2023 01:28	WG2159712
Di-isopropyl ether	U		0.105	1.00	1	10/28/2023 01:28	WG2159712
Ethylbenzene	U		0.137	1.00	1	10/28/2023 01:28	WG2159712
Hexachloro-1,3-butadiene	U		0.337	1.00	1	10/28/2023 01:28	WG2159712
Isopropylbenzene	U		0.105	1.00	1	10/28/2023 01:28	WG2159712
p-Isopropyltoluene	U		0.120	1.00	1	10/28/2023 01:28	WG2159712
2-Butanone (MEK)	U		1.19	10.0	1	10/28/2023 01:28	WG2159712
Methylene Chloride	U		0.430	5.00	1	10/28/2023 01:28	WG2159712
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	10/28/2023 01:28	WG2159712
Methyl tert-butyl ether	U		0.101	1.00	1	10/28/2023 01:28	WG2159712
Naphthalene	U		1.00	5.00	1	10/28/2023 01:28	WG2159712
n-Propylbenzene	U		0.0993	1.00	1	10/28/2023 01:28	WG2159712
Styrene	U		0.118	1.00	1	10/28/2023 01:28	WG2159712
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	10/28/2023 01:28	WG2159712
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	10/28/2023 01:28	WG2159712
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	10/28/2023 01:28	WG2159712
Tetrachloroethene	U		0.300	1.00	1	10/28/2023 01:28	WG2159712
Toluene	U		0.278	1.00	1	10/28/2023 01:28	WG2159712
1,2,3-Trichlorobenzene	U		0.230	1.00	1	10/28/2023 01:28	WG2159712

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	10/28/2023 01:28	WG2159712
1,1,1-Trichloroethane	U		0.149	1.00	1	10/28/2023 01:28	WG2159712
1,1,2-Trichloroethane	U		0.158	1.00	1	10/28/2023 01:28	WG2159712
Trichloroethene	U		0.190	1.00	1	10/28/2023 01:28	WG2159712
Trichlorofluoromethane	U		0.160	5.00	1	10/28/2023 01:28	WG2159712
1,2,3-Trichloropropane	U		0.237	2.50	1	10/28/2023 01:28	WG2159712
1,2,4-Trimethylbenzene	U		0.322	1.00	1	10/28/2023 01:28	WG2159712
1,2,3-Trimethylbenzene	U		0.104	1.00	1	10/28/2023 01:28	WG2159712
1,3,5-Trimethylbenzene	U		0.104	1.00	1	10/28/2023 01:28	WG2159712
Vinyl chloride	U		0.234	1.00	1	10/28/2023 01:28	WG2159712
Xylenes, Total	U		0.174	3.00	1	10/28/2023 01:28	WG2159712
(S) Toluene-d8	109			80.0-120		10/28/2023 01:28	WG2159712
(S) 4-Bromofluorobenzene	114			77.0-126		10/28/2023 01:28	WG2159712
(S) 1,2-Dichloroethane-d4	117			70.0-130		10/28/2023 01:28	WG2159712

1
Cp

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Tc

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Ss

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Cn

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Sr

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Qc

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Gl

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Al

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Sc

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	50.0	1	10/28/2023 01:50	WG2159712
Acrolein	U		2.54	50.0	1	10/28/2023 01:50	WG2159712
Acrylonitrile	U		0.671	10.0	1	10/28/2023 01:50	WG2159712
Benzene	U		0.0941	1.00	1	10/28/2023 01:50	WG2159712
Bromobenzene	U		0.118	1.00	1	10/28/2023 01:50	WG2159712
Bromodichloromethane	U		0.136	1.00	1	10/28/2023 01:50	WG2159712
Bromoform	U		0.129	1.00	1	10/28/2023 01:50	WG2159712
Bromomethane	U	C3	0.605	5.00	1	10/28/2023 01:50	WG2159712
n-Butylbenzene	U		0.157	1.00	1	10/28/2023 01:50	WG2159712
sec-Butylbenzene	U		0.125	1.00	1	10/28/2023 01:50	WG2159712
tert-Butylbenzene	U		0.127	1.00	1	10/28/2023 01:50	WG2159712
Carbon disulfide	U		0.0962	1.00	1	10/28/2023 01:50	WG2159712
Carbon tetrachloride	U		0.128	1.00	1	10/28/2023 01:50	WG2159712
Chlorobenzene	U		0.116	1.00	1	10/28/2023 01:50	WG2159712
Chlorodibromomethane	U		0.140	1.00	1	10/28/2023 01:50	WG2159712
Chloroethane	U		0.192	5.00	1	10/28/2023 01:50	WG2159712
Chloroform	U		0.111	5.00	1	10/28/2023 01:50	WG2159712
Chloromethane	U		0.960	2.50	1	10/28/2023 01:50	WG2159712
2-Chlorotoluene	U		0.106	1.00	1	10/28/2023 01:50	WG2159712
4-Chlorotoluene	U		0.114	1.00	1	10/28/2023 01:50	WG2159712
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	10/28/2023 01:50	WG2159712
1,2-Dibromoethane	U		0.126	1.00	1	10/28/2023 01:50	WG2159712
Dibromomethane	U		0.122	1.00	1	10/28/2023 01:50	WG2159712
1,2-Dichlorobenzene	U		0.107	1.00	1	10/28/2023 01:50	WG2159712
1,3-Dichlorobenzene	U		0.110	1.00	1	10/28/2023 01:50	WG2159712
1,4-Dichlorobenzene	U		0.120	1.00	1	10/28/2023 01:50	WG2159712
Dichlorodifluoromethane	U		0.374	5.00	1	10/28/2023 01:50	WG2159712
1,1-Dichloroethane	U		0.100	1.00	1	10/28/2023 01:50	WG2159712
1,2-Dichloroethane	U		0.0819	1.00	1	10/28/2023 01:50	WG2159712
1,1-Dichloroethene	U		0.188	1.00	1	10/28/2023 01:50	WG2159712
cis-1,2-Dichloroethene	18.1		0.126	1.00	1	10/28/2023 01:50	WG2159712
trans-1,2-Dichloroethene	8.52		0.149	1.00	1	10/28/2023 01:50	WG2159712
1,2-Dichloropropane	U		0.149	1.00	1	10/28/2023 01:50	WG2159712
1,1-Dichloropropene	U		0.142	1.00	1	10/28/2023 01:50	WG2159712
1,3-Dichloropropane	U		0.110	1.00	1	10/28/2023 01:50	WG2159712
cis-1,3-Dichloropropene	U		0.111	1.00	1	10/28/2023 01:50	WG2159712
trans-1,3-Dichloropropene	U		0.118	1.00	1	10/28/2023 01:50	WG2159712
2,2-Dichloropropane	U		0.161	1.00	1	10/28/2023 01:50	WG2159712
Di-isopropyl ether	U		0.105	1.00	1	10/28/2023 01:50	WG2159712
Ethylbenzene	U		0.137	1.00	1	10/28/2023 01:50	WG2159712
Hexachloro-1,3-butadiene	U		0.337	1.00	1	10/28/2023 01:50	WG2159712
Isopropylbenzene	U		0.105	1.00	1	10/28/2023 01:50	WG2159712
p-Isopropyltoluene	U		0.120	1.00	1	10/28/2023 01:50	WG2159712
2-Butanone (MEK)	U		1.19	10.0	1	10/28/2023 01:50	WG2159712
Methylene Chloride	U		0.430	5.00	1	10/28/2023 01:50	WG2159712
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	10/28/2023 01:50	WG2159712
Methyl tert-butyl ether	0.145	J	0.101	1.00	1	10/28/2023 01:50	WG2159712
Naphthalene	U		1.00	5.00	1	10/28/2023 01:50	WG2159712
n-Propylbenzene	U		0.0993	1.00	1	10/28/2023 01:50	WG2159712
Styrene	U		0.118	1.00	1	10/28/2023 01:50	WG2159712
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	10/28/2023 01:50	WG2159712
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	10/28/2023 01:50	WG2159712
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	10/28/2023 01:50	WG2159712
Tetrachloroethene	U		0.300	1.00	1	10/28/2023 01:50	WG2159712
Toluene	U		0.278	1.00	1	10/28/2023 01:50	WG2159712
1,2,3-Trichlorobenzene	U		0.230	1.00	1	10/28/2023 01:50	WG2159712

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	10/28/2023 01:50	WG2159712
1,1,1-Trichloroethane	U		0.149	1.00	1	10/28/2023 01:50	WG2159712
1,1,2-Trichloroethane	U		0.158	1.00	1	10/28/2023 01:50	WG2159712
Trichloroethene	55.0		0.190	1.00	1	10/28/2023 01:50	WG2159712
Trichlorofluoromethane	U		0.160	5.00	1	10/28/2023 01:50	WG2159712
1,2,3-Trichloropropane	U		0.237	2.50	1	10/28/2023 01:50	WG2159712
1,2,4-Trimethylbenzene	U		0.322	1.00	1	10/28/2023 01:50	WG2159712
1,2,3-Trimethylbenzene	U		0.104	1.00	1	10/28/2023 01:50	WG2159712
1,3,5-Trimethylbenzene	U		0.104	1.00	1	10/28/2023 01:50	WG2159712
Vinyl chloride	U		0.234	1.00	1	10/28/2023 01:50	WG2159712
Xylenes, Total	U		0.174	3.00	1	10/28/2023 01:50	WG2159712
(S) Toluene-d8	107			80.0-120		10/28/2023 01:50	WG2159712
(S) 4-Bromofluorobenzene	109			77.0-126		10/28/2023 01:50	WG2159712
(S) 1,2-Dichloroethane-d4	112			70.0-130		10/28/2023 01:50	WG2159712

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	50.0	1	10/28/2023 00:46	WG2159712
Acrolein	U		2.54	50.0	1	10/28/2023 00:46	WG2159712
Acrylonitrile	U		0.671	10.0	1	10/28/2023 00:46	WG2159712
Benzene	U		0.0941	1.00	1	10/28/2023 00:46	WG2159712
Bromobenzene	U		0.118	1.00	1	10/28/2023 00:46	WG2159712
Bromodichloromethane	U		0.136	1.00	1	10/28/2023 00:46	WG2159712
Bromoform	U		0.129	1.00	1	10/28/2023 00:46	WG2159712
Bromomethane	U	C3	0.605	5.00	1	10/28/2023 00:46	WG2159712
n-Butylbenzene	U		0.157	1.00	1	10/28/2023 00:46	WG2159712
sec-Butylbenzene	U		0.125	1.00	1	10/28/2023 00:46	WG2159712
tert-Butylbenzene	U		0.127	1.00	1	10/28/2023 00:46	WG2159712
Carbon disulfide	U		0.0962	1.00	1	10/28/2023 00:46	WG2159712
Carbon tetrachloride	U		0.128	1.00	1	10/28/2023 00:46	WG2159712
Chlorobenzene	U		0.116	1.00	1	10/28/2023 00:46	WG2159712
Chlorodibromomethane	U		0.140	1.00	1	10/28/2023 00:46	WG2159712
Chloroethane	U		0.192	5.00	1	10/28/2023 00:46	WG2159712
Chloroform	U		0.111	5.00	1	10/28/2023 00:46	WG2159712
Chloromethane	U		0.960	2.50	1	10/28/2023 00:46	WG2159712
2-Chlorotoluene	U		0.106	1.00	1	10/28/2023 00:46	WG2159712
4-Chlorotoluene	U		0.114	1.00	1	10/28/2023 00:46	WG2159712
1,2-Dibromo-3-Chloropropane	U		0.276	5.00	1	10/28/2023 00:46	WG2159712
1,2-Dibromoethane	U		0.126	1.00	1	10/28/2023 00:46	WG2159712
Dibromomethane	U		0.122	1.00	1	10/28/2023 00:46	WG2159712
1,2-Dichlorobenzene	U		0.107	1.00	1	10/28/2023 00:46	WG2159712
1,3-Dichlorobenzene	U		0.110	1.00	1	10/28/2023 00:46	WG2159712
1,4-Dichlorobenzene	U		0.120	1.00	1	10/28/2023 00:46	WG2159712
Dichlorodifluoromethane	U		0.374	5.00	1	10/28/2023 00:46	WG2159712
1,1-Dichloroethane	U		0.100	1.00	1	10/28/2023 00:46	WG2159712
1,2-Dichloroethane	U		0.0819	1.00	1	10/28/2023 00:46	WG2159712
1,1-Dichloroethene	U		0.188	1.00	1	10/28/2023 00:46	WG2159712
cis-1,2-Dichloroethene	U		0.126	1.00	1	10/28/2023 00:46	WG2159712
trans-1,2-Dichloroethene	U		0.149	1.00	1	10/28/2023 00:46	WG2159712
1,2-Dichloropropane	U		0.149	1.00	1	10/28/2023 00:46	WG2159712
1,1-Dichloropropene	U		0.142	1.00	1	10/28/2023 00:46	WG2159712
1,3-Dichloropropane	U		0.110	1.00	1	10/28/2023 00:46	WG2159712
cis-1,3-Dichloropropene	U		0.111	1.00	1	10/28/2023 00:46	WG2159712
trans-1,3-Dichloropropene	U		0.118	1.00	1	10/28/2023 00:46	WG2159712
2,2-Dichloropropane	U		0.161	1.00	1	10/28/2023 00:46	WG2159712
Di-isopropyl ether	U		0.105	1.00	1	10/28/2023 00:46	WG2159712
Ethylbenzene	U		0.137	1.00	1	10/28/2023 00:46	WG2159712
Hexachloro-1,3-butadiene	U		0.337	1.00	1	10/28/2023 00:46	WG2159712
Isopropylbenzene	U		0.105	1.00	1	10/28/2023 00:46	WG2159712
p-Isopropyltoluene	U		0.120	1.00	1	10/28/2023 00:46	WG2159712
2-Butanone (MEK)	U		1.19	10.0	1	10/28/2023 00:46	WG2159712
Methylene Chloride	U		0.430	5.00	1	10/28/2023 00:46	WG2159712
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0	1	10/28/2023 00:46	WG2159712
Methyl tert-butyl ether	U		0.101	1.00	1	10/28/2023 00:46	WG2159712
Naphthalene	U		1.00	5.00	1	10/28/2023 00:46	WG2159712
n-Propylbenzene	U		0.0993	1.00	1	10/28/2023 00:46	WG2159712
Styrene	U		0.118	1.00	1	10/28/2023 00:46	WG2159712
1,1,1,2-Tetrachloroethane	U		0.147	1.00	1	10/28/2023 00:46	WG2159712
1,1,2,2-Tetrachloroethane	U		0.133	1.00	1	10/28/2023 00:46	WG2159712
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00	1	10/28/2023 00:46	WG2159712
Tetrachloroethene	U		0.300	1.00	1	10/28/2023 00:46	WG2159712
Toluene	U		0.278	1.00	1	10/28/2023 00:46	WG2159712
1,2,3-Trichlorobenzene	U		0.230	1.00	1	10/28/2023 00:46	WG2159712

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	10/28/2023 00:46	WG2159712
1,1,1-Trichloroethane	U		0.149	1.00	1	10/28/2023 00:46	WG2159712
1,1,2-Trichloroethane	U		0.158	1.00	1	10/28/2023 00:46	WG2159712
Trichloroethene	U		0.190	1.00	1	10/28/2023 00:46	WG2159712
Trichlorofluoromethane	U		0.160	5.00	1	10/28/2023 00:46	WG2159712
1,2,3-Trichloropropane	U		0.237	2.50	1	10/28/2023 00:46	WG2159712
1,2,4-Trimethylbenzene	U		0.322	1.00	1	10/28/2023 00:46	WG2159712
1,2,3-Trimethylbenzene	U		0.104	1.00	1	10/28/2023 00:46	WG2159712
1,3,5-Trimethylbenzene	U		0.104	1.00	1	10/28/2023 00:46	WG2159712
Vinyl chloride	U		0.234	1.00	1	10/28/2023 00:46	WG2159712
Xylenes, Total	U		0.174	3.00	1	10/28/2023 00:46	WG2159712
(S) Toluene-d8	108			80.0-120		10/28/2023 00:46	WG2159712
(S) 4-Bromofluorobenzene	107			77.0-126		10/28/2023 00:46	WG2159712
(S) 1,2-Dichloroethane-d4	112			70.0-130		10/28/2023 00:46	WG2159712

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

Method Blank (MB)

(MB) R3991322-4 10/25/23 20:58

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3991322-4 10/25/23 20:58

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	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	1.00
1,2,3-Trimethylbenzene	U		0.104	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	111			80.0-120
(S) 4-Bromofluorobenzene	87.5			77.0-126
(S) 1,2-Dichloroethane-d4	107			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) R3991322-1 10/25/23 19:30 • (LCSD) R3991322-2 10/25/23 19:52

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	26.8	30.1	107	120	19.0-160			11.6	27
Acrolein	25.0	23.4	23.3	93.6	93.2	10.0-160			0.428	26
Acrylonitrile	25.0	32.8	32.4	131	130	55.0-149			1.23	20

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

(LCS) R3991322-1 10/25/23 19:30 • (LCSD) R3991322-2 10/25/23 19:52

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	5.08	4.83	102	96.6	70.0-123			5.05	20
Bromobenzene	5.00	4.83	4.62	96.6	92.4	73.0-121			4.44	20
Bromodichloromethane	5.00	5.20	5.14	104	103	75.0-120			1.16	20
Bromoform	5.00	5.13	4.81	103	96.2	68.0-132			6.44	20
Bromomethane	5.00	2.99	3.08	59.8	61.6	10.0-160			2.97	25
n-Butylbenzene	5.00	4.41	4.30	88.2	86.0	73.0-125			2.53	20
sec-Butylbenzene	5.00	4.79	4.71	95.8	94.2	75.0-125			1.68	20
tert-Butylbenzene	5.00	5.25	5.07	105	101	76.0-124			3.49	20
Carbon disulfide	5.00	3.75	3.61	75.0	72.2	61.0-128			3.80	20
Carbon tetrachloride	5.00	4.74	4.65	94.8	93.0	68.0-126			1.92	20
Chlorobenzene	5.00	5.70	5.22	114	104	80.0-121			8.79	20
Chlorodibromomethane	5.00	5.99	5.38	120	108	77.0-125			10.7	20
Chloroethane	5.00	3.47	3.72	69.4	74.4	47.0-150			6.95	20
Chloroform	5.00	4.56	4.25	91.2	85.0	73.0-120			7.04	20
Chloromethane	5.00	7.87	8.26	157	165	41.0-142	J4	J4	4.84	20
2-Chlorotoluene	5.00	4.91	4.72	98.2	94.4	76.0-123			3.95	20
4-Chlorotoluene	5.00	5.07	4.93	101	98.6	75.0-122			2.80	20
1,2-Dibromo-3-Chloropropane	5.00	4.79	4.72	95.8	94.4	58.0-134			1.47	20
1,2-Dibromoethane	5.00	5.37	4.90	107	98.0	80.0-122			9.15	20
Dibromomethane	5.00	4.83	4.63	96.6	92.6	80.0-120			4.23	20
1,2-Dichlorobenzene	5.00	4.77	4.75	95.4	95.0	79.0-121			0.420	20
1,3-Dichlorobenzene	5.00	5.10	5.11	102	102	79.0-120			0.196	20
1,4-Dichlorobenzene	5.00	4.97	4.97	99.4	99.4	79.0-120			0.000	20
Dichlorodifluoromethane	5.00	6.17	5.52	123	110	51.0-149			11.1	20
1,1-Dichloroethane	5.00	5.42	5.10	108	102	70.0-126			6.08	20
1,2-Dichloroethane	5.00	6.00	5.65	120	113	70.0-128			6.01	20
1,1-Dichloroethene	5.00	4.07	3.86	81.4	77.2	71.0-124			5.30	20
cis-1,2-Dichloroethene	5.00	4.04	4.01	80.8	80.2	73.0-120			0.745	20
trans-1,2-Dichloroethene	5.00	4.09	4.09	81.8	81.8	73.0-120			0.000	20
1,2-Dichloropropane	5.00	6.91	7.01	138	140	77.0-125	J4	J4	1.44	20
1,1-Dichloropropene	5.00	4.95	4.65	99.0	93.0	74.0-126			6.25	20
1,3-Dichloropropane	5.00	5.55	5.50	111	110	80.0-120			0.905	20
cis-1,3-Dichloropropene	5.00	5.55	5.39	111	108	80.0-123			2.93	20
trans-1,3-Dichloropropene	5.00	5.33	5.31	107	106	78.0-124			0.376	20
2,2-Dichloropropane	5.00	4.01	4.26	80.2	85.2	58.0-130			6.05	20
Di-isopropyl ether	5.00	5.30	5.26	106	105	58.0-138			0.758	20
Ethylbenzene	5.00	5.01	4.68	100	93.6	79.0-123			6.81	20
Hexachloro-1,3-butadiene	5.00	4.59	4.77	91.8	95.4	54.0-138			3.85	20
Isopropylbenzene	5.00	4.88	4.49	97.6	89.8	76.0-127			8.32	20
p-Isopropyltoluene	5.00	4.70	4.62	94.0	92.4	76.0-125			1.72	20

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) R3991322-1 10/25/23 19:30 • (LCSD) R3991322-2 10/25/23 19:52

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
2-Butanone (MEK)	25.0	30.3	31.1	121	124	44.0-160			2.61	20
Methylene Chloride	5.00	4.22	4.21	84.4	84.2	67.0-120			0.237	20
4-Methyl-2-pentanone (MIBK)	25.0	28.0	27.5	112	110	68.0-142			1.80	20
Methyl tert-butyl ether	5.00	4.04	4.06	80.8	81.2	68.0-125			0.494	20
Naphthalene	5.00	3.68	3.76	73.6	75.2	54.0-135			2.15	20
n-Propylbenzene	5.00	4.65	4.49	93.0	89.8	77.0-124			3.50	20
Styrene	5.00	4.42	4.22	88.4	84.4	73.0-130			4.63	20
1,1,1,2-Tetrachloroethane	5.00	5.27	4.64	105	92.8	75.0-125			12.7	20
1,1,2,2-Tetrachloroethane	5.00	4.76	4.50	95.2	90.0	65.0-130			5.62	20
1,1,2-Trichlorotrifluoroethane	5.00	3.88	3.70	77.6	74.0	69.0-132			4.75	20
Tetrachloroethene	5.00	5.65	5.01	113	100	72.0-132			12.0	20
Toluene	5.00	5.32	5.11	106	102	79.0-120			4.03	20
1,2,3-Trichlorobenzene	5.00	4.33	4.34	86.6	86.8	50.0-138			0.231	20
1,2,4-Trichlorobenzene	5.00	4.26	4.16	85.2	83.2	57.0-137			2.38	20
1,1,1-Trichloroethane	5.00	4.96	4.42	99.2	88.4	73.0-124			11.5	20
1,1,2-Trichloroethane	5.00	5.45	5.39	109	108	80.0-120			1.11	20
Trichloroethene	5.00	5.66	5.15	113	103	78.0-124			9.44	20
Trichlorofluoromethane	5.00	4.73	4.44	94.6	88.8	59.0-147			6.32	20
1,2,3-Trichloropropane	5.00	5.34	5.18	107	104	73.0-130			3.04	20
1,2,4-Trimethylbenzene	5.00	4.42	4.45	88.4	89.0	76.0-121			0.676	20
1,2,3-Trimethylbenzene	5.00	4.64	4.54	92.8	90.8	77.0-120			2.18	20
1,3,5-Trimethylbenzene	5.00	4.83	4.66	96.6	93.2	76.0-122			3.58	20
Vinyl chloride	5.00	4.97	4.77	99.4	95.4	67.0-131			4.11	20
Xylenes, Total	15.0	15.0	13.9	100	92.7	79.0-123			7.61	20
<i>(S) Toluene-d8</i>				111	111	80.0-120				
<i>(S) 4-Bromofluorobenzene</i>				91.8	87.6	77.0-126				
<i>(S) 1,2-Dichloroethane-d4</i>				104	110	70.0-130				

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R3992972-2 10/28/23 00:07

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	50.0
Acrolein	U		2.54	50.0
Acrylonitrile	U		0.671	10.0
Benzene	U		0.0941	1.00
Bromobenzene	U		0.118	1.00
Bromodichloromethane	U		0.136	1.00
Bromoform	U		0.129	1.00
Bromomethane	U		0.605	5.00
n-Butylbenzene	U		0.157	1.00
sec-Butylbenzene	U		0.125	1.00
tert-Butylbenzene	U		0.127	1.00
Carbon disulfide	U		0.0962	1.00
Carbon tetrachloride	U		0.128	1.00
Chlorobenzene	U		0.116	1.00
Chlorodibromomethane	U		0.140	1.00
Chloroethane	U		0.192	5.00
Chloroform	U		0.111	5.00
Chloromethane	U		0.960	2.50
2-Chlorotoluene	U		0.106	1.00
4-Chlorotoluene	U		0.114	1.00
1,2-Dibromo-3-Chloropropane	U		0.276	5.00
1,2-Dibromoethane	U		0.126	1.00
Dibromomethane	U		0.122	1.00
1,2-Dichlorobenzene	U		0.107	1.00
1,3-Dichlorobenzene	U		0.110	1.00
1,4-Dichlorobenzene	U		0.120	1.00
Dichlorodifluoromethane	U		0.374	5.00
1,1-Dichloroethane	U		0.100	1.00
1,2-Dichloroethane	U		0.0819	1.00
1,1-Dichloroethene	U		0.188	1.00
cis-1,2-Dichloroethene	U		0.126	1.00
trans-1,2-Dichloroethene	U		0.149	1.00
1,2-Dichloropropane	U		0.149	1.00
1,1-Dichloropropene	U		0.142	1.00
1,3-Dichloropropane	U		0.110	1.00
cis-1,3-Dichloropropene	U		0.111	1.00
trans-1,3-Dichloropropene	U		0.118	1.00
2,2-Dichloropropane	U		0.161	1.00
Di-isopropyl ether	U		0.105	1.00
Ethylbenzene	U		0.137	1.00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3992972-2 10/28/23 00:07

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	1.00
p-Isopropyltoluene	U		0.120	1.00
2-Butanone (MEK)	U		1.19	10.0
Methylene Chloride	U		0.430	5.00
4-Methyl-2-pentanone (MIBK)	U		0.478	10.0
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.0993	1.00
Styrene	U		0.118	1.00
1,1,1,2-Tetrachloroethane	U		0.147	1.00
1,1,2,2-Tetrachloroethane	U		0.133	1.00
1,1,2-Trichlorotrifluoroethane	U		0.180	1.00
Tetrachloroethene	U		0.300	1.00
Toluene	U		0.278	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	1.00
1,1,2-Trichloroethane	U		0.158	1.00
Trichloroethene	U		0.190	1.00
Trichlorofluoromethane	U		0.160	5.00
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	1.00
1,2,3-Trimethylbenzene	U		0.104	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
Vinyl chloride	U		0.234	1.00
Xylenes, Total	U		0.174	3.00
(S) Toluene-d8	111			80.0-120
(S) 4-Bromofluorobenzene	114			77.0-126
(S) 1,2-Dichloroethane-d4	116			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)

(LCS) R3992972-1 10/27/23 23:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	24.6	98.4	19.0-160	
Acrolein	25.0	23.1	92.4	10.0-160	
Acrylonitrile	25.0	24.8	99.2	55.0-149	

Laboratory Control Sample (LCS)

(LCS) R3992972-1 10/27/23 23:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Benzene	5.00	4.84	96.8	70.0-123	
Bromobenzene	5.00	4.48	89.6	73.0-121	
Bromodichloromethane	5.00	5.28	106	75.0-120	
Bromoform	5.00	5.01	100	68.0-132	
Bromomethane	5.00	3.15	63.0	10.0-160	
n-Butylbenzene	5.00	4.37	87.4	73.0-125	
sec-Butylbenzene	5.00	5.19	104	75.0-125	
tert-Butylbenzene	5.00	5.15	103	76.0-124	
Carbon disulfide	5.00	4.17	83.4	61.0-128	
Carbon tetrachloride	5.00	5.70	114	68.0-126	
Chlorobenzene	5.00	4.90	98.0	80.0-121	
Chlorodibromomethane	5.00	5.46	109	77.0-125	
Chloroethane	5.00	4.61	92.2	47.0-150	
Chloroform	5.00	5.20	104	73.0-120	
Chloromethane	5.00	4.35	87.0	41.0-142	
2-Chlorotoluene	5.00	4.83	96.6	76.0-123	
4-Chlorotoluene	5.00	4.88	97.6	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.21	84.2	58.0-134	
1,2-Dibromoethane	5.00	4.74	94.8	80.0-122	
Dibromomethane	5.00	5.01	100	80.0-120	
1,2-Dichlorobenzene	5.00	4.93	98.6	79.0-121	
1,3-Dichlorobenzene	5.00	4.57	91.4	79.0-120	
1,4-Dichlorobenzene	5.00	5.02	100	79.0-120	
Dichlorodifluoromethane	5.00	4.17	83.4	51.0-149	
1,1-Dichloroethane	5.00	5.09	102	70.0-126	
1,2-Dichloroethane	5.00	5.53	111	70.0-128	
1,1-Dichloroethene	5.00	4.96	99.2	71.0-124	
cis-1,2-Dichloroethene	5.00	4.88	97.6	73.0-120	
trans-1,2-Dichloroethene	5.00	5.01	100	73.0-120	
1,2-Dichloropropane	5.00	4.72	94.4	77.0-125	
1,1-Dichloropropene	5.00	5.32	106	74.0-126	
1,3-Dichloropropane	5.00	4.90	98.0	80.0-120	
cis-1,3-Dichloropropene	5.00	5.03	101	80.0-123	
trans-1,3-Dichloropropene	5.00	4.85	97.0	78.0-124	
2,2-Dichloropropane	5.00	4.65	93.0	58.0-130	
Di-isopropyl ether	5.00	5.02	100	58.0-138	
Ethylbenzene	5.00	5.26	105	79.0-123	
Hexachloro-1,3-butadiene	5.00	5.32	106	54.0-138	
Isopropylbenzene	5.00	5.32	106	76.0-127	
p-Isopropyltoluene	5.00	4.95	99.0	76.0-125	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3992972-1 10/27/23 23:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
2-Butanone (MEK)	25.0	24.7	98.8	44.0-160	
Methylene Chloride	5.00	4.78	95.6	67.0-120	
4-Methyl-2-pentanone (MIBK)	25.0	25.0	100	68.0-142	
Methyl tert-butyl ether	5.00	4.95	99.0	68.0-125	
Naphthalene	5.00	4.29	85.8	54.0-135	
n-Propylbenzene	5.00	4.90	98.0	77.0-124	
Styrene	5.00	5.05	101	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	5.06	101	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	4.29	85.8	65.0-130	
1,1,2-Trichlorotrifluoroethane	5.00	4.59	91.8	69.0-132	
Tetrachloroethene	5.00	5.25	105	72.0-132	
Toluene	5.00	5.04	101	79.0-120	
1,2,3-Trichlorobenzene	5.00	5.21	104	50.0-138	
1,2,4-Trichlorobenzene	5.00	5.01	100	57.0-137	
1,1,1-Trichloroethane	5.00	5.76	115	73.0-124	
1,1,2-Trichloroethane	5.00	5.00	100	80.0-120	
Trichloroethene	5.00	5.31	106	78.0-124	
Trichlorofluoromethane	5.00	5.05	101	59.0-147	
1,2,3-Trichloropropane	5.00	4.99	99.8	73.0-130	
1,2,4-Trimethylbenzene	5.00	4.80	96.0	76.0-121	
1,2,3-Trimethylbenzene	5.00	4.93	98.6	77.0-120	
1,3,5-Trimethylbenzene	5.00	5.02	100	76.0-122	
Vinyl chloride	5.00	4.54	90.8	67.0-131	
Xylenes, Total	15.0	15.0	100	79.0-123	
(S) Toluene-d8			107	80.0-120	
(S) 4-Bromofluorobenzene			108	77.0-126	
(S) 1,2-Dichloroethane-d4			114	70.0-130	

¹Cp

²Tc

³Ss

⁴Cn

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⁷Gl

⁸Al

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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.
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 Gl

8 Al

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.

¹ Cp

² Tc

³ Ss

⁴ Cn

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⁶ Qc

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State of Oregon Chain of Custody

D075

Agency, Authorized Purchaser or Agent:	Contract Laboratory Name: Pace Analytical	Lab Selection Criteria: <input type="checkbox"/> Proximity (if TAT < 48 hrs) <input type="checkbox"/> Prior work on same project <input checked="" type="checkbox"/> Cost (for anticipated analyses) <input type="checkbox"/> Other labs disqualified or unable to perform requested services <input type="checkbox"/> Emergency work	Turn Around Time: <input checked="" type="checkbox"/> 10 days (std.) <input type="checkbox"/> 5 days <input type="checkbox"/> 72 hours <input type="checkbox"/> 48 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Other
Send Lab Report To: Sarah Kingery Address: 165 E 7 th Ave, ste 100 Eugene, OR 97401 Tel. #: 541-321-3687 E-mail: Sarah.kingery@deq.oregon.gov	Lab Batch #: Invoice To: Address: DEQEXP@deq.state.or.us		

Project Name: Allen Street Groundwater Project #: QCat # 29490 Sampler Name: Rachel Long/ Justin Gomori	Sample Preservative HCL	Requested Analyses
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Sample ID#	Collection Date/Time	Matrix	Number of Containers	8260B	Comments			
1440 Allen POST	10/19 10:40	W	3	X	L1668808			
1440 Allen MID	10/19 10:50	W	3	X	-01			
1440 Allen PRE	10/19 10:55	W	3	X	-02			
Trip Blank		W	1	X	-03			
					-04			

Sample Receipt Checklist

COC Seal Present/Intact: Y N If Applicable

COC Signed/Accurate: Y N VOA Zero Headspace: Y N

Bottles arrive intact: Y N Pres. Correct/Check: Y N

Correct bottles used: Y N

Sufficient volume sent: Y N

RA Screen <0.5 mR/hr: Y N

Notes:

Relinquished By: <i>GOMORI, JUSTIN</i>	Agency/Agent: OR-DEQ	Received By: <i>Alexa Mitchell</i>	Agency/Agent: <i>PACE</i>
Signature: <i>Justin O. Gomori</i>	Time & Date: <i>11/05/10 11:23</i>	Signature: <i>Alexa Mitchell</i>	Time & Date: <i>10/20 0900</i>
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:

THIS PURCHASE IS SUBMITTED PURSUANT TO STATE OF OREGON SOLICITATION #102-1098-07 AND PRICE AGREEMENT # THE PRICE AGREEMENT INCLUDING CONTRACT TERMS AND CONDITIONS AND SPECIAL CONTRACT TERMS AND CONDITIONS (T'S & C'S) CONTAINED IN THE PRICE AGREEMENT ARE HEREBY INCORPORATED BY REFERENCE AND SHALL APPLY TO THIS PURCHASE AND SHALL TAKE PRECEDENCE OVER ALL OTHER CONFLICTING T'S AND C'S, EXPRESS OR IMPLIED.

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