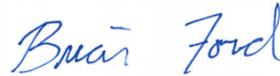


Oregon Dept. of Env. Quality - ODEQ

Sample Delivery Group: L1609958
Samples Received: 04/27/2023
Project Number: 310200
Description: Elmira Family Store
Site: QCAT #37622
Report To: Anthony Chavez
165 E. 7th Avenue
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

MCQUARRIE POST L1609958-01 GW

Collected by Sarah Kingery Collected date/time 04/26/23 10:45 Received date/time 04/27/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2051553	1	05/01/23 11:38	05/01/23 11:38	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 524.2	WG2052120	1	05/02/23 03:40	05/02/23 03:40	ADM	Mt. Juliet, TN



MCQUARRIE MID 2 L1609958-02 GW

Collected by Sarah Kingery Collected date/time 04/26/23 11:00 Received date/time 04/27/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2051553	1	05/01/23 12:00	05/01/23 12:00	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2051324	1	04/30/23 00:21	04/30/23 00:21	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2051776	1	05/02/23 00:07	05/02/23 00:07	JAH	Mt. Juliet, TN

MCQUARRIE MID 1 L1609958-03 GW

Collected by Sarah Kingery Collected date/time 04/26/23 11:15 Received date/time 04/27/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2051553	1	05/01/23 12:22	05/01/23 12:22	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2051324	1	04/30/23 00:42	04/30/23 00:42	ACG	Mt. Juliet, TN

MCQUARRIE PRE L1609958-04 GW

Collected by Sarah Kingery Collected date/time 04/26/23 11:30 Received date/time 04/27/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2051553	1	05/01/23 12:44	05/01/23 12:44	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2051324	10	04/30/23 03:05	04/30/23 03:05	ACG	Mt. Juliet, TN

MCQUARRIE DUPLICATE L1609958-05 GW

Collected by Sarah Kingery Collected date/time 04/26/23 11:30 Received date/time 04/27/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2051553	1	05/01/23 13:06	05/01/23 13:06	KSD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2051324	10	04/30/23 02:45	04/30/23 02:45	ACG	Mt. Juliet, TN

TRIP BLANK L1609958-06 GW

Collected by Sarah Kingery Collected date/time 04/26/23 00:00 Received date/time 04/27/23 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2051324	1	04/29/23 22:59	04/29/23 22:59	ACG	Mt. Juliet, TN

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

MCQUARRIE POST

Collected date/time: 04/26/23 10:45

SAMPLE RESULTS - 01

L1609958

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	47.9	<u>B</u>	31.6	100	1	05/01/2023 11:38	WG2051553
(S) a,a,a-Trifluorotoluene(FID)	111			78.0-120		05/01/2023 11:38	WG2051553

- 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 524.2/8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0490	0.500	1	05/02/2023 03:40	WG2052120
Carbon tetrachloride	U		0.0660	0.500	1	05/02/2023 03:40	WG2052120
1,4-Dichlorobenzene	U		0.0310	0.500	1	05/02/2023 03:40	WG2052120
1,2-Dichloroethane	U		0.0498	0.500	1	05/02/2023 03:40	WG2052120
1,1-Dichloroethene	U		0.0540	0.500	1	05/02/2023 03:40	WG2052120
1,1,1-Trichloroethane	U		0.0490	0.500	1	05/02/2023 03:40	WG2052120
Trichloroethene	U		0.0440	0.500	1	05/02/2023 03:40	WG2052120
Vinyl chloride	U		0.0260	0.500	1	05/02/2023 03:40	WG2052120
1,2,4-Trichlorobenzene	U		0.0530	0.500	1	05/02/2023 03:40	WG2052120
cis-1,2-Dichloroethene	U		0.0640	0.500	1	05/02/2023 03:40	WG2052120
Xylenes, Total	U		0.340	0.500	1	05/02/2023 03:40	WG2052120
Methylene chloride	U		0.0608	0.500	1	05/02/2023 03:40	WG2052120
1,2-Dichlorobenzene	U		0.0410	0.500	1	05/02/2023 03:40	WG2052120
trans-1,2-Dichloroethene	U		0.100	0.500	1	05/02/2023 03:40	WG2052120
1,2-Dichloropropane	U		0.0270	0.500	1	05/02/2023 03:40	WG2052120
1,1,2-Trichloroethane	U		0.0701	0.500	1	05/02/2023 03:40	WG2052120
Tetrachloroethene	U		0.0790	0.500	1	05/02/2023 03:40	WG2052120
Chlorobenzene	U		0.0370	0.500	1	05/02/2023 03:40	WG2052120
Toluene	U		0.412	0.500	1	05/02/2023 03:40	WG2052120
Ethylbenzene	U		0.0440	0.500	1	05/02/2023 03:40	WG2052120
Styrene	U		0.0360	0.500	1	05/02/2023 03:40	WG2052120
Bromobenzene	U		0.0490	0.500	1	05/02/2023 03:40	WG2052120
Bromodichloromethane	U		0.0810	0.500	1	05/02/2023 03:40	WG2052120
Bromoform	U		0.0800	0.500	1	05/02/2023 03:40	WG2052120
Bromomethane	U		0.0790	1.00	1	05/02/2023 03:40	WG2052120
Chlorodibromomethane	U		0.0930	0.500	1	05/02/2023 03:40	WG2052120
Chloroethane	U		0.190	0.500	1	05/02/2023 03:40	WG2052120
Chloroform	U		0.0800	0.500	1	05/02/2023 03:40	WG2052120
Chloromethane	U		0.0290	0.500	1	05/02/2023 03:40	WG2052120
2-Chlorotoluene	U		0.0480	0.500	1	05/02/2023 03:40	WG2052120
4-Chlorotoluene	U		0.0550	0.500	1	05/02/2023 03:40	WG2052120
Dibromomethane	U		0.0700	0.500	1	05/02/2023 03:40	WG2052120
1,3-Dichlorobenzene	U		0.0360	0.500	1	05/02/2023 03:40	WG2052120
1,1-Dichloroethane	U		0.0240	0.500	1	05/02/2023 03:40	WG2052120
1,3-Dichloropropane	U		0.0230	0.500	1	05/02/2023 03:40	WG2052120
2,2-Dichloropropane	U		0.0680	0.500	1	05/02/2023 03:40	WG2052120
1,1-Dichloropropene	U		0.0450	0.500	1	05/02/2023 03:40	WG2052120
1,3-Dichloropropene	U		0.150	0.500	1	05/02/2023 03:40	WG2052120
1,1,1,2-Tetrachloroethane	U		0.0700	0.500	1	05/02/2023 03:40	WG2052120
1,1,2,2-Tetrachloroethane	U		0.0790	0.500	1	05/02/2023 03:40	WG2052120
1,2,3-Trichloropropane	U		0.0720	0.500	1	05/02/2023 03:40	WG2052120
Methyl tert-butyl ether	U		0.0530	0.500	1	05/02/2023 03:40	WG2052120
Naphthalene	U		0.110	0.500	1	05/02/2023 03:40	WG2052120
1,2-Dibromoethane	U		0.210	0.500	1	05/02/2023 03:40	WG2052120
Isopropylbenzene	U		0.0410	0.500	1	05/02/2023 03:40	WG2052120
1,2,4-Trimethylbenzene	U		0.0430	0.500	1	05/02/2023 03:40	WG2052120
1,3,5-Trimethylbenzene	U		0.0430	0.500	1	05/02/2023 03:40	WG2052120

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	57.5	<u>B</u> <u>J</u>	31.6	100	1	05/01/2023 12:00	WG2051553
(S) a,a,a-Trifluorotoluene(FID)	112			78.0-120		05/01/2023 12:00	WG2051553

Volatile Organic Compounds (GC/MS) by Method 524.2/8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	0.375	<u>J</u>	0.0941	1.00	1	04/30/2023 00:21	WG2051324
Ethylbenzene	U		0.137	1.00	1	05/02/2023 00:07	WG2051776
Toluene	U		0.278	1.00	1	04/30/2023 00:21	WG2051324
Xylenes, Total	U		0.174	3.00	1	04/30/2023 00:21	WG2051324
Methyl tert-butyl ether	U		0.101	1.00	1	04/30/2023 00:21	WG2051324
Naphthalene	U		1.00	5.00	1	05/02/2023 00:07	WG2051776
1,2-Dibromoethane	U		0.126	1.00	1	04/30/2023 00:21	WG2051324
1,2-Dichloroethane	U		0.0819	1.00	1	04/30/2023 00:21	WG2051324
Isopropylbenzene	U		0.105	1.00	1	04/30/2023 00:21	WG2051324
n-Propylbenzene	0.140	<u>J</u>	0.0993	1.00	1	04/30/2023 00:21	WG2051324
1,2,4-Trimethylbenzene	U	<u>C3</u>	0.322	1.00	1	04/30/2023 00:21	WG2051324
1,3,5-Trimethylbenzene	U		0.104	1.00	1	04/30/2023 00:21	WG2051324
(S) Toluene-d8	105			80.0-120		04/30/2023 00:21	WG2051324
(S) Toluene-d8	112			80.0-120		05/02/2023 00:07	WG2051776
(S) 4-Bromofluorobenzene	97.6			77.0-126		04/30/2023 00:21	WG2051324
(S) 4-Bromofluorobenzene	98.1			77.0-126		05/02/2023 00:07	WG2051776
(S) 1,2-Dichloroethane-d4	101			70.0-130		04/30/2023 00:21	WG2051324
(S) 1,2-Dichloroethane-d4	91.6			70.0-130		05/02/2023 00:07	WG2051776

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	74.5	<u>B_J</u>	31.6	100	1	05/01/2023 12:22	WG2051553
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		05/01/2023 12:22	WG2051553

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 524.2/8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	0.768	<u>J</u>	0.0941	1.00	1	04/30/2023 00:42	WG2051324
Ethylbenzene	U		0.137	1.00	1	04/30/2023 00:42	WG2051324
Toluene	U		0.278	1.00	1	04/30/2023 00:42	WG2051324
Xylenes, Total	U		0.174	3.00	1	04/30/2023 00:42	WG2051324
Methyl tert-butyl ether	U		0.101	1.00	1	04/30/2023 00:42	WG2051324
Naphthalene	U	<u>C3</u>	1.00	5.00	1	04/30/2023 00:42	WG2051324
1,2-Dibromoethane	U		0.126	1.00	1	04/30/2023 00:42	WG2051324
1,2-Dichloroethane	U		0.0819	1.00	1	04/30/2023 00:42	WG2051324
Isopropylbenzene	U		0.105	1.00	1	04/30/2023 00:42	WG2051324
n-Propylbenzene	U		0.0993	1.00	1	04/30/2023 00:42	WG2051324
1,2,4-Trimethylbenzene	U	<u>C3</u>	0.322	1.00	1	04/30/2023 00:42	WG2051324
1,3,5-Trimethylbenzene	U		0.104	1.00	1	04/30/2023 00:42	WG2051324
(S) Toluene-d8	107			80.0-120		04/30/2023 00:42	WG2051324
(S) 4-Bromofluorobenzene	99.0			77.0-126		04/30/2023 00:42	WG2051324
(S) 1,2-Dichloroethane-d4	101			70.0-130		04/30/2023 00:42	WG2051324

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	3350		31.6	100	1	05/01/2023 12:44	WG2051553
(S) a,a,a-Trifluorotoluene(FID)	96.2			78.0-120		05/01/2023 12:44	WG2051553

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 524.2/8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	775		0.941	10.0	10	04/30/2023 03:05	WG2051324
Ethylbenzene	15.6		1.37	10.0	10	04/30/2023 03:05	WG2051324
Toluene	U		2.78	10.0	10	04/30/2023 03:05	WG2051324
Xylenes, Total	1.94	J	1.74	30.0	10	04/30/2023 03:05	WG2051324
Methyl tert-butyl ether	U		1.01	10.0	10	04/30/2023 03:05	WG2051324
Naphthalene	U	C3	10.0	50.0	10	04/30/2023 03:05	WG2051324
1,2-Dibromoethane	U		1.26	10.0	10	04/30/2023 03:05	WG2051324
1,2-Dichloroethane	U		0.819	10.0	10	04/30/2023 03:05	WG2051324
Isopropylbenzene	6.58	J	1.05	10.0	10	04/30/2023 03:05	WG2051324
n-Propylbenzene	7.84	J	0.993	10.0	10	04/30/2023 03:05	WG2051324
1,2,4-Trimethylbenzene	U	C3	3.22	10.0	10	04/30/2023 03:05	WG2051324
1,3,5-Trimethylbenzene	U		1.04	10.0	10	04/30/2023 03:05	WG2051324
(S) Toluene-d8	107			80.0-120		04/30/2023 03:05	WG2051324
(S) 4-Bromofluorobenzene	98.2			77.0-126		04/30/2023 03:05	WG2051324
(S) 1,2-Dichloroethane-d4	99.0			70.0-130		04/30/2023 03:05	WG2051324

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	3280		31.6	100	1	05/01/2023 13:06	WG2051553
(S) a,a,a-Trifluorotoluene(FID)	96.6			78.0-120		05/01/2023 13:06	WG2051553

- 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 524.2/8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Benzene	638		0.941	10.0	10	04/30/2023 02:45	WG2051324
Ethylbenzene	12.3		1.37	10.0	10	04/30/2023 02:45	WG2051324
Toluene	U		2.78	10.0	10	04/30/2023 02:45	WG2051324
Xylenes, Total	U		1.74	30.0	10	04/30/2023 02:45	WG2051324
Methyl tert-butyl ether	U		1.01	10.0	10	04/30/2023 02:45	WG2051324
Naphthalene	U	<u>C3</u>	10.0	50.0	10	04/30/2023 02:45	WG2051324
1,2-Dibromoethane	U		1.26	10.0	10	04/30/2023 02:45	WG2051324
1,2-Dichloroethane	U		0.819	10.0	10	04/30/2023 02:45	WG2051324
Isopropylbenzene	5.10	<u>J</u>	1.05	10.0	10	04/30/2023 02:45	WG2051324
n-Propylbenzene	6.26	<u>J</u>	0.993	10.0	10	04/30/2023 02:45	WG2051324
1,2,4-Trimethylbenzene	U	<u>C3</u>	3.22	10.0	10	04/30/2023 02:45	WG2051324
1,3,5-Trimethylbenzene	U		1.04	10.0	10	04/30/2023 02:45	WG2051324
(S) Toluene-d8	105			80.0-120		04/30/2023 02:45	WG2051324
(S) 4-Bromofluorobenzene	96.5			77.0-126		04/30/2023 02:45	WG2051324
(S) 1,2-Dichloroethane-d4	99.9			70.0-130		04/30/2023 02:45	WG2051324

Volatile Organic Compounds (GC/MS) by Method 524.2/8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	U		0.0941	1.00	1	04/29/2023 22:59	WG2051324
Ethylbenzene	U		0.137	1.00	1	04/29/2023 22:59	WG2051324
Toluene	U		0.278	1.00	1	04/29/2023 22:59	WG2051324
Xylenes, Total	U		0.174	3.00	1	04/29/2023 22:59	WG2051324
Methyl tert-butyl ether	U		0.101	1.00	1	04/29/2023 22:59	WG2051324
Naphthalene	U	C3	1.00	5.00	1	04/29/2023 22:59	WG2051324
1,2-Dibromoethane	U		0.126	1.00	1	04/29/2023 22:59	WG2051324
1,2-Dichloroethane	U		0.0819	1.00	1	04/29/2023 22:59	WG2051324
Isopropylbenzene	U		0.105	1.00	1	04/29/2023 22:59	WG2051324
n-Propylbenzene	U		0.0993	1.00	1	04/29/2023 22:59	WG2051324
1,2,4-Trimethylbenzene	U	C3	0.322	1.00	1	04/29/2023 22:59	WG2051324
1,3,5-Trimethylbenzene	U		0.104	1.00	1	04/29/2023 22:59	WG2051324
(S) Toluene-d8	108			80.0-120		04/29/2023 22:59	WG2051324
(S) 4-Bromofluorobenzene	97.7			77.0-126		04/29/2023 22:59	WG2051324
(S) 1,2-Dichloroethane-d4	100			70.0-130		04/29/2023 22:59	WG2051324

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3920521-2 05/01/23 06:31

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	58.0	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	108			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3920521-1 05/01/23 05:48

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	6260	114	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			113	78.0-120	

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

Method Blank (MB)

(MB) R3919761-2 05/01/23 23:19

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0490	0.500
Carbon tetrachloride	U		0.0660	0.500
1,4-Dichlorobenzene	U		0.0310	0.500
1,2-Dichloroethane	U		0.0498	0.500
1,1-Dichloroethene	U		0.0540	0.500
1,1,1-Trichloroethane	U		0.0490	0.500
Trichloroethene	U		0.0440	0.500
Vinyl chloride	U		0.0260	0.500
1,2,4-Trichlorobenzene	U		0.0530	0.500
cis-1,2-Dichloroethene	U		0.0640	0.500
Xylenes, Total	U		0.340	0.500
Methylene chloride	U		0.0608	0.500
1,2-Dichlorobenzene	U		0.0410	0.500
trans-1,2-Dichloroethene	U		0.100	0.500
1,2-Dichloropropane	U		0.0270	0.500
1,1,2-Trichloroethane	U		0.0701	0.500
Tetrachloroethene	U		0.0790	0.500
Chlorobenzene	U		0.0370	0.500
Toluene	U		0.412	0.500
Ethylbenzene	U		0.0440	0.500
Styrene	U		0.0360	0.500
Bromobenzene	U		0.0490	0.500
Bromodichloromethane	U		0.0810	0.500
Bromoform	U		0.0800	0.500
Bromomethane	U		0.0790	1.00
Chlorodibromomethane	U		0.0930	0.500
Chloroethane	U		0.190	0.500
Chloroform	U		0.0800	0.500
Chloromethane	U		0.0290	0.500
2-Chlorotoluene	U		0.0480	0.500
4-Chlorotoluene	U		0.0550	0.500
Dibromomethane	U		0.0700	0.500
1,3-Dichlorobenzene	U		0.0360	0.500
1,1-Dichloroethane	U		0.0240	0.500
1,3-Dichloropropane	U		0.0230	0.500
2,2-Dichloropropane	U		0.0680	0.500
1,1-Dichloropropene	U		0.0450	0.500
1,3-Dichloropropene	U		0.150	0.500
1,1,1,2-Tetrachloroethane	U		0.0700	0.500
1,1,2,2-Tetrachloroethane	U		0.0790	0.500

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3919761-2 05/01/23 23:19

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
1,2,3-Trichloropropane	U		0.0720	0.500
Methyl tert-butyl ether	U		0.0530	0.500
Naphthalene	U		0.110	0.500
1,2-Dibromoethane	U		0.210	0.500
Isopropylbenzene	U		0.0410	0.500
1,2,4-Trimethylbenzene	U		0.0430	0.500
1,3,5-Trimethylbenzene	U		0.0430	0.500

Laboratory Control Sample (LCS)

(LCS) R3919761-1 05/01/23 22:02

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	5.00	5.11	102	70.0-130	
Carbon tetrachloride	5.00	5.54	111	70.0-130	
1,4-Dichlorobenzene	5.00	5.71	114	70.0-130	
1,2-Dichloroethane	5.00	5.30	106	70.0-130	
1,1-Dichloroethene	5.00	4.46	89.2	70.0-130	
1,1,1-Trichloroethane	5.00	5.48	110	70.0-130	
Trichloroethene	5.00	5.22	104	70.0-130	
Vinyl chloride	5.00	4.45	89.0	70.0-130	
1,2,4-Trichlorobenzene	5.00	4.92	98.4	70.0-130	
cis-1,2-Dichloroethene	5.00	4.94	98.8	70.0-130	
Xylenes, Total	15.0	15.5	103	70.0-130	
Methylene chloride	5.00	4.66	93.2	70.0-130	
1,2-Dichlorobenzene	5.00	5.55	111	70.0-130	
trans-1,2-Dichloroethene	5.00	5.06	101	70.0-130	
1,2-Dichloropropane	5.00	5.04	101	70.0-130	
1,1,2-Trichloroethane	5.00	5.24	105	70.0-130	
Tetrachloroethene	5.00	5.47	109	70.0-130	
Chlorobenzene	5.00	5.20	104	70.0-130	
Toluene	5.00	4.97	99.4	70.0-130	
Ethylbenzene	5.00	5.18	104	70.0-130	
Styrene	5.00	5.11	102	70.0-130	
Bromobenzene	5.00	5.31	106	70.0-130	
Bromodichloromethane	5.00	5.12	102	70.0-130	
Bromoform	5.00	5.02	100	70.0-130	
Bromomethane	5.00	3.95	79.0	70.0-130	
Chlorodibromomethane	5.00	5.28	106	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) R3919761-1 05/01/23 22:02

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Chloroethane	5.00	4.18	83.6	70.0-130	
Chloroform	5.00	5.30	106	70.0-130	
Chloromethane	5.00	5.05	101	70.0-130	
2-Chlorotoluene	5.00	5.52	110	70.0-130	
4-Chlorotoluene	5.00	5.26	105	70.0-130	
Dibromomethane	5.00	5.21	104	70.0-130	
1,3-Dichlorobenzene	5.00	5.65	113	70.0-130	
1,1-Dichloroethane	5.00	4.86	97.2	70.0-130	
1,3-Dichloropropane	5.00	5.02	100	70.0-130	
2,2-Dichloropropane	5.00	4.85	97.0	70.0-130	
1,1-Dichloropropene	5.00	5.09	102	70.0-130	
1,3-Dichloropropene	10.0	9.36	93.6	70.0-130	
1,1,1,2-Tetrachloroethane	5.00	5.40	108	70.0-130	
1,1,2,2-Tetrachloroethane	5.00	4.86	97.2	70.0-130	
1,2,3-Trichloropropane	5.00	5.40	108	70.0-130	
Methyl tert-butyl ether	5.00	4.69	93.8	70.0-130	
Naphthalene	5.00	4.06	81.2	70.0-130	
Isopropylbenzene	5.00	5.44	109	70.0-130	
1,2,4-Trimethylbenzene	5.00	5.43	109	70.0-130	
1,3,5-Trimethylbenzene	5.00	5.52	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) R3919308-4 04/29/23 21:06

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
Ethylbenzene	U		0.137	1.00
Toluene	U		0.278	1.00
Xylenes, Total	U		0.174	3.00
Methyl tert-butyl ether	U		0.101	1.00
Naphthalene	U		1.00	5.00
1,2-Dibromoethane	U		0.126	1.00
1,2-Dichloroethane	U		0.0819	1.00
Isopropylbenzene	U		0.105	1.00
n-Propylbenzene	U		0.0993	1.00
1,2,4-Trimethylbenzene	U		0.322	1.00
1,3,5-Trimethylbenzene	U		0.104	1.00
(S) Toluene-d8	106			80.0-120
(S) 4-Bromofluorobenzene	96.4			77.0-126
(S) 1,2-Dichloroethane-d4	100			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) R3919308-1 04/29/23 19:23 • (LCSD) R3919308-2 04/29/23 19:44

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	4.64	4.56	92.8	91.2	70.0-123			1.74	20
Ethylbenzene	5.00	4.42	4.48	88.4	89.6	79.0-123			1.35	20
Toluene	5.00	4.54	4.48	90.8	89.6	79.0-120			1.33	20
Xylenes, Total	15.0	13.0	13.1	86.7	87.3	79.0-123			0.766	20
Methyl tert-butyl ether	5.00	4.75	4.75	95.0	95.0	68.0-125			0.000	20
Naphthalene	5.00	3.08	3.24	61.6	64.8	54.0-135			5.06	20
1,2-Dibromoethane	5.00	4.78	4.77	95.6	95.4	80.0-122			0.209	20
1,2-Dichloroethane	5.00	4.56	4.66	91.2	93.2	70.0-128			2.17	20
Isopropylbenzene	5.00	4.17	4.15	83.4	83.0	76.0-127			0.481	20
n-Propylbenzene	5.00	4.29	4.37	85.8	87.4	77.0-124			1.85	20
1,2,4-Trimethylbenzene	5.00	3.98	4.08	79.6	81.6	76.0-121			2.48	20
1,3,5-Trimethylbenzene	5.00	4.05	4.14	81.0	82.8	76.0-122			2.20	20
(S) Toluene-d8				105	103	80.0-120				
(S) 4-Bromofluorobenzene				99.5	99.3	77.0-126				
(S) 1,2-Dichloroethane-d4				102	103	70.0-130				

Method Blank (MB)

(MB) R3920536-3 05/01/23 20:34

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Ethylbenzene	U		0.137	1.00
Naphthalene	U		1.00	5.00
(S) Toluene-d8	111			80.0-120
(S) 4-Bromofluorobenzene	98.6			77.0-126
(S) 1,2-Dichloroethane-d4	92.9			70.0-130

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

(LCS) R3920536-1 05/01/23 19:09 • (LCSD) R3920536-2 05/01/23 19:30

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Ethylbenzene	5.00	4.95	4.57	99.0	91.4	79.0-123			7.98	20
Naphthalene	5.00	4.45	4.21	89.0	84.2	54.0-135			5.54	20
(S) Toluene-d8				110	110	80.0-120				
(S) 4-Bromofluorobenzene				99.8	99.9	77.0-126				
(S) 1,2-Dichloroethane-d4				94.9	91.4	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
B	The same analyte is found in the associated blank.
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.

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

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Agency, Authorized Purchaser or Agent: DEQ		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 East 7 th Ave, Suite 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: Elmira Family Store Project #: 310200		Sample Preservative							
		HCL	HCL	HCL					
Sampler Name: Sarah Kingery		Requested Analyses							

Sample ID#	Collection Date/Time	Matrix	Number of Containers	NWTPH-Gx	VOCs by 8260C*	VOCs by EPA 524.2							Comments
McQuarrie Post	4/26/23 10:45	W	6	X		X							- 01
McQuarrie Mid 2	4/26/23 11:00	W	6	X	X								- 02
McQuarrie Mid 1	4/26/23 11:15	W	6	X	X								- 03
McQuarrie Pre	4/26/23 11:30	W	6	X	X								- 04
McQuarrie Duplicate	4/26/23 11:30	W	6	X	X								- 05
Trip Blank		W	2		X								- 06

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 5.7

Sufficient volume sent: Y N 6357 4918 3597

RAD Screen <0.5 mR/hr: Y N

Notes: *Please report RBDM VOCs for the 8260C analysis.

Relinquished By: Sarah Kingery	Agency/Agent: OR-DEQ	Received By: Eli Dossett	Agency/Agent: Pace
Signature: <i>Sarah Kingery</i>	Time & Date: 11:40 04/26/2023	Signature: <i>Eli Dossett</i>	Time & Date: 4-27-23 930
Relinquished By:	Agency/Agent:	Received By:	Agency/Agent:
Signature:	Time & Date:	Signature:	Time & Date:

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