

CTEH - ER

Sample Delivery Group: L1868887
Samples Received: 06/12/2025
Project Number: PROJ-054017
Description: Bishop Loss of Containment Incident

Report To: CTEH
5120 North Shore Drive
North Little Rock, AR 72118

Entire Report Reviewed By:



Jared Starkey
Project Manager

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Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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SAMPLE SUMMARY

GACO0611TT001 L1868887-04

Collected by
M Beck

Collected date/time
06/11/25 07:00

Received date/time
06/12/25 12:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2537452	1	06/13/25 00:31	06/13/25 00:31	ADM	Mt. Juliet, TN

¹Cp ${}^2\text{Tc}$ 3S_s ${}^4\text{Cn}$ ${}^5\text{Sr}$ ⁶Qc ${}^7\text{Gf}$ ${}^8\text{Al}$ ${}^9\text{Sc}$

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.



Jared Starkey
Project Manager

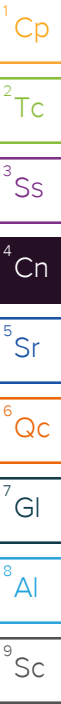
Volatile Organic Compounds (GC/MS) by Method 8260D

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG2537452	L1868887-04	Bromomethane and Chloromethane

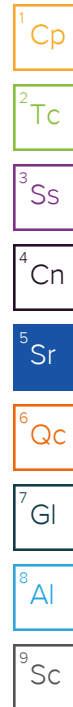
The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG2537452	(MS) R4229746-3, (MSD) R4229746-4	Acrolein



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	06/13/2025 00:31	WG2537452
Acrolein	ND		50.0	1	06/13/2025 00:31	WG2537452
Acrylonitrile	ND		10.0	1	06/13/2025 00:31	WG2537452
Benzene	ND		1.00	1	06/13/2025 00:31	WG2537452
Bromobenzene	ND		1.00	1	06/13/2025 00:31	WG2537452
Bromodichloromethane	ND		1.00	1	06/13/2025 00:31	WG2537452
Bromoform	ND		1.00	1	06/13/2025 00:31	WG2537452
Bromomethane	ND	C3	5.00	1	06/13/2025 00:31	WG2537452
n-Butylbenzene	ND		1.00	1	06/13/2025 00:31	WG2537452
sec-Butylbenzene	ND		1.00	1	06/13/2025 00:31	WG2537452
tert-Butylbenzene	ND		1.00	1	06/13/2025 00:31	WG2537452
Carbon tetrachloride	ND		1.00	1	06/13/2025 00:31	WG2537452
Chlorobenzene	ND		1.00	1	06/13/2025 00:31	WG2537452
Chlorodibromomethane	ND		1.00	1	06/13/2025 00:31	WG2537452
Chloroethane	ND		5.00	1	06/13/2025 00:31	WG2537452
Chloroform	ND		5.00	1	06/13/2025 00:31	WG2537452
Chloromethane	ND	C3	2.50	1	06/13/2025 00:31	WG2537452
2-Chlorotoluene	ND		1.00	1	06/13/2025 00:31	WG2537452
4-Chlorotoluene	ND		1.00	1	06/13/2025 00:31	WG2537452
1,2-Dibromo-3-Chloropropane	ND		5.00	1	06/13/2025 00:31	WG2537452
1,2-Dibromoethane	ND		1.00	1	06/13/2025 00:31	WG2537452
Dibromomethane	ND		1.00	1	06/13/2025 00:31	WG2537452
1,2-Dichlorobenzene	ND		1.00	1	06/13/2025 00:31	WG2537452
1,3-Dichlorobenzene	ND		1.00	1	06/13/2025 00:31	WG2537452
1,4-Dichlorobenzene	ND		1.00	1	06/13/2025 00:31	WG2537452
Dichlorodifluoromethane	ND		5.00	1	06/13/2025 00:31	WG2537452
1,1-Dichloroethane	ND		1.00	1	06/13/2025 00:31	WG2537452
1,2-Dichloroethane	ND		1.00	1	06/13/2025 00:31	WG2537452
1,1-Dichloroethene	ND		1.00	1	06/13/2025 00:31	WG2537452
cis-1,2-Dichloroethene	ND		1.00	1	06/13/2025 00:31	WG2537452
trans-1,2-Dichloroethene	ND		1.00	1	06/13/2025 00:31	WG2537452
1,2-Dichloropropane	ND		1.00	1	06/13/2025 00:31	WG2537452
1,1-Dichloropropene	ND		1.00	1	06/13/2025 00:31	WG2537452
1,3-Dichloropropane	ND		1.00	1	06/13/2025 00:31	WG2537452
cis-1,3-Dichloropropene	ND		1.00	1	06/13/2025 00:31	WG2537452
trans-1,3-Dichloropropene	ND		1.00	1	06/13/2025 00:31	WG2537452
2,2-Dichloropropane	ND		1.00	1	06/13/2025 00:31	WG2537452
Di-isopropyl ether	ND		1.00	1	06/13/2025 00:31	WG2537452
Ethylbenzene	ND		1.00	1	06/13/2025 00:31	WG2537452
Hexachloro-1,3-butadiene	ND		1.00	1	06/13/2025 00:31	WG2537452
Isopropylbenzene	ND		1.00	1	06/13/2025 00:31	WG2537452
p-Isopropyltoluene	ND		1.00	1	06/13/2025 00:31	WG2537452
2-Butanone (MEK)	ND		10.0	1	06/13/2025 00:31	WG2537452
Methylene Chloride	ND		5.00	1	06/13/2025 00:31	WG2537452
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	06/13/2025 00:31	WG2537452
Methyl tert-butyl ether	ND		1.00	1	06/13/2025 00:31	WG2537452
Naphthalene	ND		5.00	1	06/13/2025 00:31	WG2537452
n-Propylbenzene	ND		1.00	1	06/13/2025 00:31	WG2537452
Styrene	ND		1.00	1	06/13/2025 00:31	WG2537452
1,1,1,2-Tetrachloroethane	ND		1.00	1	06/13/2025 00:31	WG2537452
1,1,2,2-Tetrachloroethane	ND		1.00	1	06/13/2025 00:31	WG2537452
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	06/13/2025 00:31	WG2537452
Tetrachloroethene	ND		1.00	1	06/13/2025 00:31	WG2537452
Toluene	ND		1.00	1	06/13/2025 00:31	WG2537452
1,2,3-Trichlorobenzene	ND		1.00	1	06/13/2025 00:31	WG2537452
1,2,4-Trichlorobenzene	ND		1.00	1	06/13/2025 00:31	WG2537452



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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	06/13/2025 00:31	WG2537452
1,1,2-Trichloroethane	ND		1.00	1	06/13/2025 00:31	WG2537452
Trichloroethene	ND		1.00	1	06/13/2025 00:31	WG2537452
Trichlorofluoromethane	ND		5.00	1	06/13/2025 00:31	WG2537452
1,2,3-Trichloropropane	ND		2.50	1	06/13/2025 00:31	WG2537452
1,2,4-Trimethylbenzene	ND		1.00	1	06/13/2025 00:31	WG2537452
1,2,3-Trimethylbenzene	ND		1.00	1	06/13/2025 00:31	WG2537452
1,3,5-Trimethylbenzene	ND		1.00	1	06/13/2025 00:31	WG2537452
Vinyl chloride	ND		1.00	1	06/13/2025 00:31	WG2537452
Xylenes, Total	ND		3.00	1	06/13/2025 00:31	WG2537452
(S) Toluene-d8	97.4		80.0-120		06/13/2025 00:31	WG2537452
(S) 4-Bromofluorobenzene	90.6		77.0-126		06/13/2025 00:31	WG2537452
(S) 1,2-Dichloroethane-d4	110		70.0-130		06/13/2025 00:31	WG2537452

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4229746-2 06/12/25 19:29

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 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
Hexachloro-1,3-butadiene	U		0.337	1.00

1
Cp

2
Tc

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Ss

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Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

Method Blank (MB)

(MB) R4229746-2 06/12/25 19:29

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
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	94.4			80.0-120
(S) 4-Bromofluorobenzene	89.2			77.0-126
(S) 1,2-Dichloroethane-d4	107			70.0-130

Laboratory Control Sample (LCS)

(LCS) R4229746-1 06/12/25 18:49

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	25.0	21.4	85.6	19.0-160	
Acrolein	25.0	29.3	117	10.0-160	
Acrylonitrile	25.0	28.4	114	55.0-149	
Benzene	5.00	5.14	103	70.0-123	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Laboratory Control Sample (LCS)

(LCS) R4229746-1 06/12/25 18:49

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromobenzene	5.00	5.24	105	73.0-121	
Bromodichloromethane	5.00	5.04	101	75.0-120	
Bromoform	5.00	4.61	92.2	68.0-132	
Bromomethane	5.00	3.46	69.2	10.0-160	
n-Butylbenzene	5.00	4.55	91.0	73.0-125	
sec-Butylbenzene	5.00	4.78	95.6	75.0-125	
tert-Butylbenzene	5.00	4.59	91.8	76.0-124	
Carbon tetrachloride	5.00	5.03	101	68.0-126	
Chlorobenzene	5.00	4.71	94.2	80.0-121	
Chlorodibromomethane	5.00	5.04	101	77.0-125	
Chloroethane	5.00	5.91	118	47.0-150	
Chloroform	5.00	5.07	101	73.0-120	
Chloromethane	5.00	3.82	76.4	41.0-142	
2-Chlorotoluene	5.00	5.21	104	76.0-123	
4-Chlorotoluene	5.00	5.00	100	75.0-122	
1,2-Dibromo-3-Chloropropane	5.00	4.43	88.6	58.0-134	
1,2-Dibromoethane	5.00	5.02	100	80.0-122	
Dibromomethane	5.00	4.91	98.2	80.0-120	
1,2-Dichlorobenzene	5.00	5.00	100	79.0-121	
1,3-Dichlorobenzene	5.00	5.09	102	79.0-120	
1,4-Dichlorobenzene	5.00	4.85	97.0	79.0-120	
Dichlorodifluoromethane	5.00	4.35	87.0	51.0-149	
1,1-Dichloroethane	5.00	5.45	109	70.0-126	
1,2-Dichloroethane	5.00	5.17	103	70.0-128	
1,1-Dichloroethene	5.00	4.87	97.4	71.0-124	
cis-1,2-Dichloroethene	5.00	5.10	102	73.0-120	
trans-1,2-Dichloroethene	5.00	5.18	104	73.0-120	
1,2-Dichloropropane	5.00	5.25	105	77.0-125	
1,1-Dichloropropene	5.00	4.89	97.8	74.0-126	
1,3-Dichloropropane	5.00	4.96	99.2	80.0-120	
cis-1,3-Dichloropropene	5.00	4.96	99.2	80.0-123	
trans-1,3-Dichloropropene	5.00	4.86	97.2	78.0-124	
2,2-Dichloropropane	5.00	5.37	107	58.0-130	
Di-isopropyl ether	5.00	5.35	107	58.0-138	
Ethylbenzene	5.00	4.83	96.6	79.0-123	
Hexachloro-1,3-butadiene	5.00	4.52	90.4	54.0-138	
Isopropylbenzene	5.00	4.44	88.8	76.0-127	
p-Isopropyltoluene	5.00	4.66	93.2	76.0-125	
2-Butanone (MEK)	25.0	22.9	91.6	44.0-160	
Methylene Chloride	5.00	5.20	104	67.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4229746-1 06/12/25 18:49

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
4-Methyl-2-pentanone (MIBK)	25.0	28.6	114	68.0-142	
Methyl tert-butyl ether	5.00	5.02	100	68.0-125	
Naphthalene	5.00	4.58	91.6	54.0-135	
n-Propylbenzene	5.00	4.72	94.4	77.0-124	
Styrene	5.00	5.15	103	73.0-130	
1,1,1,2-Tetrachloroethane	5.00	5.29	106	75.0-125	
1,1,2,2-Tetrachloroethane	5.00	5.47	109	65.0-130	
1,1,2-Trichlorotrifluoroethane	5.00	5.25	105	69.0-132	
Tetrachloroethene	5.00	4.95	99.0	72.0-132	
Toluene	5.00	4.71	94.2	79.0-120	
1,2,3-Trichlorobenzene	5.00	4.94	98.8	50.0-138	
1,2,4-Trichlorobenzene	5.00	4.40	88.0	57.0-137	
1,1,1-Trichloroethane	5.00	5.05	101	73.0-124	
1,1,2-Trichloroethane	5.00	5.24	105	80.0-120	
Trichloroethene	5.00	4.67	93.4	78.0-124	
Trichlorofluoromethane	5.00	5.68	114	59.0-147	
1,2,3-Trichloropropane	5.00	4.94	98.8	73.0-130	
1,2,4-Trimethylbenzene	5.00	4.61	92.2	76.0-121	
1,2,3-Trimethylbenzene	5.00	4.98	99.6	77.0-120	
1,3,5-Trimethylbenzene	5.00	4.64	92.8	76.0-122	
Vinyl chloride	5.00	4.78	95.6	67.0-131	
Xylenes, Total	15.0	14.0	93.3	79.0-123	
(S) Toluene-d8			98.1	80.0-120	
(S) 4-Bromofluorobenzene			94.9	77.0-126	
(S) 1,2-Dichloroethane-d4			105	70.0-130	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1868893-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1868893-09 06/13/25 03:36 • (MS) R4229746-3 06/13/25 04:55 • (MSD) R4229746-4 06/13/25 05:15

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acetone	25.0	ND	ND	ND	115	108	1	10.0-160			6.45	35
Acrolein	25.0	ND	ND	ND	177	162	1	10.0-160	J5	J5	8.72	39
Acrylonitrile	25.0	ND	36.6	32.8	146	131	1	21.0-160			11.0	32
Benzene	5.00	ND	5.87	5.85	117	117	1	17.0-158			0.341	27
Bromobenzene	5.00	ND	6.04	5.96	121	119	1	30.0-149			1.33	28
Bromodichloromethane	5.00	ND	6.22	6.14	124	123	1	31.0-150			1.29	27
Bromoform	5.00	ND	5.88	5.39	118	108	1	29.0-150			8.70	29
Bromomethane	5.00	ND	ND	ND	78.2	77.0	1	10.0-160			1.55	38

L1868893-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1868893-09 06/13/25 03:36 • (MS) R4229746-3 06/13/25 04:55 • (MSD) R4229746-4 06/13/25 05:15

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
n-Butylbenzene	5.00	ND	4.84	4.99	96.8	99.8	1	31.0-150			3.05	30
sec-Butylbenzene	5.00	ND	5.49	5.72	110	114	1	33.0-155			4.10	29
tert-Butylbenzene	5.00	ND	5.58	5.78	112	116	1	34.0-153			3.52	28
Carbon tetrachloride	5.00	ND	5.72	6.10	114	122	1	23.0-159			6.43	28
Chlorobenzene	5.00	ND	5.84	5.70	117	114	1	33.0-152			2.43	27
Chlorodibromomethane	5.00	ND	6.14	5.90	123	118	1	37.0-149			3.99	27
Chloroethane	5.00	ND	6.26	6.80	125	136	1	10.0-160			8.27	30
Chloroform	5.00	ND	6.35	6.24	127	125	1	29.0-154			1.75	28
Chloromethane	5.00	ND	3.57	3.63	71.4	72.6	1	10.0-160			1.67	29
2-Chlorotoluene	5.00	ND	5.98	6.03	120	121	1	32.0-153			0.833	28
4-Chlorotoluene	5.00	ND	5.69	5.46	114	109	1	32.0-150			4.13	28
1,2-Dibromo-3-Chloropropane	5.00	ND	5.59	5.35	112	107	1	22.0-151			4.39	34
1,2-Dibromoethane	5.00	ND	5.65	5.84	113	117	1	34.0-147			3.31	27
Dibromomethane	5.00	ND	6.23	6.11	125	122	1	30.0-151			1.94	27
1,2-Dichlorobenzene	5.00	ND	5.98	5.77	120	115	1	34.0-149			3.57	28
1,3-Dichlorobenzene	5.00	ND	5.75	5.86	115	117	1	36.0-146			1.89	27
1,4-Dichlorobenzene	5.00	ND	5.47	5.59	109	112	1	35.0-142			2.17	27
Dichlorodifluoromethane	5.00	ND	ND	ND	71.4	74.8	1	10.0-160			4.65	29
1,1-Dichloroethane	5.00	ND	6.54	6.56	131	131	1	25.0-158			0.305	27
1,2-Dichloroethane	5.00	ND	6.04	6.45	121	129	1	29.0-151			6.57	27
1,1-Dichloroethene	5.00	ND	5.36	5.45	107	109	1	11.0-160			1.67	29
cis-1,2-Dichloroethene	5.00	ND	5.93	5.88	119	118	1	10.0-160			0.847	27
trans-1,2-Dichloroethene	5.00	ND	5.10	5.90	102	118	1	17.0-153			14.5	27
1,2-Dichloropropane	5.00	ND	6.00	5.82	120	116	1	30.0-156			3.05	27
1,1-Dichloropropene	5.00	ND	5.32	5.53	106	111	1	25.0-158			3.87	27
1,3-Dichloropropane	5.00	ND	6.16	6.14	123	123	1	38.0-147			0.325	27
cis-1,3-Dichloropropene	5.00	ND	5.15	5.16	103	103	1	34.0-149			0.194	28
trans-1,3-Dichloropropene	5.00	ND	5.77	5.75	115	115	1	32.0-149			0.347	28
2,2-Dichloropropane	5.00	ND	6.03	5.88	121	118	1	24.0-152			2.52	29
Di-isopropyl ether	5.00	ND	6.32	6.40	126	128	1	21.0-160			1.26	28
Ethylbenzene	5.00	ND	5.41	5.79	108	116	1	30.0-155			6.79	27
Hexachloro-1,3-butadiene	5.00	ND	5.18	4.79	104	95.8	1	20.0-154			7.82	34
Isopropylbenzene	5.00	ND	5.35	5.37	107	107	1	28.0-157			0.373	27
p-Isopropyltoluene	5.00	ND	5.26	5.32	105	106	1	30.0-154			1.13	29
2-Butanone (MEK)	25.0	ND	30.6	27.3	122	109	1	10.0-160			11.4	32
Methylene Chloride	5.00	ND	5.82	6.01	116	120	1	23.0-144			3.21	28
4-Methyl-2-pentanone (MIBK)	25.0	ND	37.3	34.0	149	136	1	29.0-160			9.26	29
Methyl tert-butyl ether	5.00	ND	5.93	5.86	119	117	1	28.0-150			1.19	29
Naphthalene	5.00	ND	5.06	ND	101	95.4	1	12.0-156			5.90	35
n-Propylbenzene	5.00	ND	5.40	5.52	108	110	1	31.0-154			2.20	28

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

L1868893-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1868893-09 06/13/25 03:36 • (MS) R4229746-3 06/13/25 04:55 • (MSD) R4229746-4 06/13/25 05:15

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Styrene	5.00	ND	5.95	6.10	119	122	1	33.0-155			2.49	28
1,1,1,2-Tetrachloroethane	5.00	ND	6.49	5.90	130	118	1	36.0-151			9.52	29
1,1,2,2-Tetrachloroethane	5.00	ND	7.03	6.56	141	131	1	33.0-150			6.92	28
1,1,2-Trichlorotrifluoroethane	5.00	ND	5.70	5.54	114	111	1	23.0-160			2.85	30
Tetrachloroethene	5.00	ND	5.32	5.40	106	108	1	10.0-160			1.49	27
Toluene	5.00	ND	5.47	5.73	109	115	1	26.0-154			4.64	28
1,2,3-Trichlorobenzene	5.00	ND	4.93	5.39	98.6	108	1	17.0-150			8.91	36
1,2,4-Trichlorobenzene	5.00	ND	4.73	4.96	94.6	99.2	1	24.0-150			4.75	33
1,1,1-Trichloroethane	5.00	ND	6.14	6.36	123	127	1	23.0-160			3.52	28
1,1,2-Trichloroethane	5.00	ND	6.37	6.20	127	124	1	35.0-147			2.70	27
Trichloroethene	5.00	ND	5.39	5.19	108	104	1	10.0-160			3.78	25
Trichlorofluoromethane	5.00	ND	5.98	6.15	120	123	1	17.0-160			2.80	31
1,2,3-Trichloropropane	5.00	ND	6.11	6.14	122	123	1	34.0-151			0.490	29
1,2,4-Trimethylbenzene	5.00	ND	5.47	5.48	109	110	1	26.0-154			0.183	27
1,2,3-Trimethylbenzene	5.00	ND	5.92	5.84	118	117	1	32.0-149			1.36	28
1,3,5-Trimethylbenzene	5.00	ND	5.59	5.43	112	109	1	28.0-153			2.90	27
Vinyl chloride	5.00	ND	4.39	4.72	87.8	94.4	1	10.0-160			7.24	27
Xylenes, Total	15.0	ND	15.9	16.7	106	111	1	29.0-154			4.91	28
(S) Toluene-d8					97.3	97.2		80.0-120				
(S) 4-Bromofluorobenzene					95.7	96.2		77.0-126				
(S) 1,2-Dichloroethane-d4					105	105		70.0-130				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

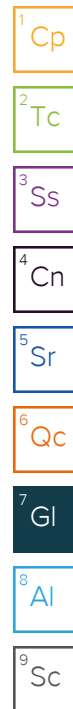
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
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.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.



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.

