

CTEH - ER

Sample Delivery Group: L1864773
Samples Received: 05/31/2025
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 National

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TABLE OF CONTENTS

Cp: Cover Page	1	
Tc: Table of Contents	2	
Ss: Sample Summary	3	
Cn: Case Narrative	4	
Sr: Sample Results	6	
GACO0530T165-1S001 L1864773-01	6	
Qc: Quality Control Summary	9	
Total Solids by Method 2540 G-2011	9	
Wet Chemistry by Method 350.1	10	
Wet Chemistry by Method 4500NOrg D-2021	12	
Wet Chemistry by Method 9056A	14	
Wet Chemistry by Method WALKLEY-BLACK	15	
Metals (ICP) by Method 6010D	16	
Volatile Organic Compounds (GC/MS) by Method 8260D	18	
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	22	
Gl: Glossary of Terms	27	
Al: Accreditations & Locations	28	
Sc: Sample Chain of Custody	29	

SAMPLE SUMMARY

GACO0530T165-1S001 L1864773-01

Collected by: Caleb Green
 Collected date/time: 05/30/25 14:30
 Received date/time: 05/31/25 11:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG2527947	1	05/31/25 16:54	06/05/25 16:36	CAT	Mt. Juliet, TN
Total Solids by Method 2540 G-2011	WG2527900	1	05/31/25 15:54	05/31/25 16:12	KDW	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG2528479	1	06/02/25 13:01	06/02/25 21:33	RTW	Mt. Juliet, TN
Wet Chemistry by Method 4500NOrg D-2021	WG2529798	5	06/03/25 21:58	06/05/25 16:36	CAT	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2527947	1.03	05/31/25 16:54	05/31/25 20:14	DLH	Mt. Juliet, TN
Wet Chemistry by Method WALKLEY-BLACK	WG2527930	19	05/31/25 15:49	06/01/25 20:51	DLS	Mt. Juliet, TN
Metals (ICP) by Method 6010D	WG2527941	1	05/31/25 16:05	05/31/25 21:33	BAG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2527866	1	05/31/25 12:35	05/31/25 14:28	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270E	WG2527926	2	05/31/25 15:45	06/01/25 02:53	LS	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 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



Wet Chemistry by Method 4500NOrg D-2021

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

Batch	Lab Sample ID	Analytes
WG2529798	(MS) R4226217-10	Kjeldahl Nitrogen, TKN
WG2529798	(MSD) R4226217-11	Kjeldahl Nitrogen, TKN
WG2529798	(MS) R4226217-12	Kjeldahl Nitrogen, TKN

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2529798	(MS) R4226217-10, (MSD) R4226217-11	Kjeldahl Nitrogen, TKN

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

Batch	Lab Sample ID	Analytes
WG2529798	(MS) R4226217-12	Kjeldahl Nitrogen, TKN

Metals (ICP) by Method 6010D

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

Batch	Lab Sample ID	Analytes
WG2527941	(MS) R4223575-11, (MSD) R4223575-12	Aluminum, Magnesium, Manganese and Potassium

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG2527941	(MS) R4223575-11, (MSD) R4223575-12	Calcium

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

Batch	Lab Sample ID	Analytes
WG2527941	(MS) R4223575-11, (MSD) R4223575-12	Iron

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG2527941	(MSD) R4223575-12	Calcium

CASE NARRATIVE

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
WG2527866	L1864773-01	Acetone

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

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
WG2527926	L1864773-01	2,4-Dimethylphenol and Benzidine

The initial calibration verification standard (SSCV) associated with this data responded high.

Batch	Lab Sample ID	Analytes
WG2527926	L1864773-01	Hexachlorocyclopentadiene

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

Batch	Lab Sample ID	Analytes
WG2527926	(MS) R4223641-3, (MSD) R4223641-4	Benzidine and Hexachlorocyclopentadiene

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Calculated Results

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Total Nitrogen	2660000		24600	1	06/05/2025 16:36	WG2527947

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	RDL (dry)	Dilution	Analysis date / time	Batch
Total Solids	83.8			1	05/31/2025 16:12	WG2527900

Wet Chemistry by Method 350.1

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	ND		11900	1	06/02/2025 21:33	WG2528479

Wet Chemistry by Method 4500N Org D-2021

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	2650000		119000	5	06/05/2025 16:36	WG2529798

Wet Chemistry by Method 9056A

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	ND		24600	1.03	05/31/2025 20:14	WG2527947

Wet Chemistry by Method WALKLEY-BLACK

Analyte	Result ug/kg	Qualifier	RDL ug/kg	Dilution	Analysis date / time	Batch
TOC By Walkley Black	20700000		1900000	19	06/01/2025 20:51	WG2527930

Metals (ICP) by Method 6010D

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Aluminum	2300000		23900	1	05/31/2025 21:33	WG2527941
Antimony	ND		2390	1	05/31/2025 21:33	WG2527941
Beryllium	313		239	1	05/31/2025 21:33	WG2527941
Calcium	3550000		119000	1	05/31/2025 21:33	WG2527941
Chromium	3010		1190	1	05/31/2025 21:33	WG2527941
Cobalt	2600		1190	1	05/31/2025 21:33	WG2527941
Iron	2710000		11900	1	05/31/2025 21:33	WG2527941
Magnesium	1020000		119000	1	05/31/2025 21:33	WG2527941
Manganese	169000		1190	1	05/31/2025 21:33	WG2527941
Potassium	768000		119000	1	05/31/2025 21:33	WG2527941
Sodium	ND		119000	1	05/31/2025 21:33	WG2527941
Thallium	ND		2390	1	05/31/2025 21:33	WG2527941
Vanadium	6530		2390	1	05/31/2025 21:33	WG2527941

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

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acetone	ND	C3	69.4	1	05/31/2025 14:28	WG2527866
Acrylonitrile	ND		17.3	1	05/31/2025 14:28	WG2527866
Bromobenzene	ND		17.3	1	05/31/2025 14:28	WG2527866
Bromodichloromethane	ND		3.47	1	05/31/2025 14:28	WG2527866
Bromoform	ND		34.7	1	05/31/2025 14:28	WG2527866

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 (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Bromomethane	ND		17.3	1	05/31/2025 14:28	WG2527866
n-Butylbenzene	ND		17.3	1	05/31/2025 14:28	WG2527866
sec-Butylbenzene	ND		17.3	1	05/31/2025 14:28	WG2527866
tert-Butylbenzene	ND		6.94	1	05/31/2025 14:28	WG2527866
Carbon tetrachloride	ND		6.94	1	05/31/2025 14:28	WG2527866
Chlorobenzene	ND		3.47	1	05/31/2025 14:28	WG2527866
Chlorodibromomethane	ND		3.47	1	05/31/2025 14:28	WG2527866
Chloroethane	ND		6.94	1	05/31/2025 14:28	WG2527866
Chloroform	ND		3.47	1	05/31/2025 14:28	WG2527866
Chloromethane	ND		17.3	1	05/31/2025 14:28	WG2527866
2-Chlorotoluene	ND		3.47	1	05/31/2025 14:28	WG2527866
4-Chlorotoluene	ND		6.94	1	05/31/2025 14:28	WG2527866
1,2-Dibromo-3-Chloropropane	ND		34.7	1	05/31/2025 14:28	WG2527866
1,2-Dibromoethane	ND		3.47	1	05/31/2025 14:28	WG2527866
Dibromomethane	ND		6.94	1	05/31/2025 14:28	WG2527866
1,2-Dichlorobenzene	ND		6.94	1	05/31/2025 14:28	WG2527866
1,3-Dichlorobenzene	ND		6.94	1	05/31/2025 14:28	WG2527866
1,4-Dichlorobenzene	ND		6.94	1	05/31/2025 14:28	WG2527866
Dichlorodifluoromethane	ND		6.94	1	05/31/2025 14:28	WG2527866
1,1-Dichloroethane	ND		3.47	1	05/31/2025 14:28	WG2527866
1,2-Dichloroethane	ND		3.47	1	05/31/2025 14:28	WG2527866
1,1-Dichloroethene	ND		3.47	1	05/31/2025 14:28	WG2527866
cis-1,2-Dichloroethene	ND		3.47	1	05/31/2025 14:28	WG2527866
trans-1,2-Dichloroethene	ND		6.94	1	05/31/2025 14:28	WG2527866
1,2-Dichloropropane	ND		6.94	1	05/31/2025 14:28	WG2527866
1,1-Dichloropropene	ND		3.47	1	05/31/2025 14:28	WG2527866
1,3-Dichloropropane	ND		6.94	1	05/31/2025 14:28	WG2527866
cis-1,3-Dichloropropene	ND		3.47	1	05/31/2025 14:28	WG2527866
trans-1,3-Dichloropropene	ND		6.94	1	05/31/2025 14:28	WG2527866
2,2-Dichloropropane	ND		3.47	1	05/31/2025 14:28	WG2527866
Di-isopropyl ether	ND		1.39	1	05/31/2025 14:28	WG2527866
Hexachloro-1,3-butadiene	ND		34.7	1	05/31/2025 14:28	WG2527866
Isopropylbenzene	ND		3.47	1	05/31/2025 14:28	WG2527866
p-Isopropyltoluene	ND		6.94	1	05/31/2025 14:28	WG2527866
2-Butanone (MEK)	ND		139	1	05/31/2025 14:28	WG2527866
Methylene Chloride	ND		34.7	1	05/31/2025 14:28	WG2527866
4-Methyl-2-pentanone (MIBK)	ND		34.7	1	05/31/2025 14:28	WG2527866
Methyl tert-butyl ether	ND		1.39	1	05/31/2025 14:28	WG2527866
n-Propylbenzene	ND		6.94	1	05/31/2025 14:28	WG2527866
Styrene	ND		17.3	1	05/31/2025 14:28	WG2527866
1,1,1,2-Tetrachloroethane	ND		3.47	1	05/31/2025 14:28	WG2527866
1,1,2,2-Tetrachloroethane	ND		3.47	1	05/31/2025 14:28	WG2527866
1,1,2-Trichlorotrifluoroethane	ND		3.47	1	05/31/2025 14:28	WG2527866
Tetrachloroethene	ND		3.47	1	05/31/2025 14:28	WG2527866
1,2,3-Trichlorobenzene	ND		17.3	1	05/31/2025 14:28	WG2527866
1,2,4-Trichlorobenzene	ND		17.3	1	05/31/2025 14:28	WG2527866
1,1,1-Trichloroethane	ND		3.47	1	05/31/2025 14:28	WG2527866
1,1,2-Trichloroethane	ND		3.47	1	05/31/2025 14:28	WG2527866
Trichloroethene	ND		1.39	1	05/31/2025 14:28	WG2527866
Trichlorofluoromethane	ND		3.47	1	05/31/2025 14:28	WG2527866
1,2,3-Trichloropropane	ND		17.3	1	05/31/2025 14:28	WG2527866
1,2,3-Trimethylbenzene	ND		6.94	1	05/31/2025 14:28	WG2527866
Vinyl chloride	ND		3.47	1	05/31/2025 14:28	WG2527866
(S) Toluene-d8	105		75.0-131		05/31/2025 14:28	WG2527866
(S) 4-Bromofluorobenzene	96.8		67.0-138		05/31/2025 14:28	WG2527866
(S) 1,2-Dichloroethane-d4	92.5		70.0-130		05/31/2025 14:28	WG2527866

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

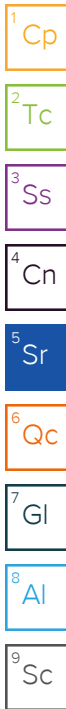
7 Gl

8 Al

9 Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270E

Analyte	Result (dry) ug/kg	Qualifier	RDL (dry) ug/kg	Dilution	Analysis date / time	Batch
Acenaphthylene	ND		79.5	2	06/01/2025 02:53	WG2527926
Benzidine	ND	C3	3990	2	06/01/2025 02:53	WG2527926
Benzo(g,h,i)perylene	ND		79.5	2	06/01/2025 02:53	WG2527926
Bis(2-chlorethoxy)methane	ND		795	2	06/01/2025 02:53	WG2527926
Bis(2-chloroethyl)ether	ND		795	2	06/01/2025 02:53	WG2527926
2,2-Oxybis(1-Chloropropane)	ND		795	2	06/01/2025 02:53	WG2527926
4-Bromophenyl-phenylether	ND		795	2	06/01/2025 02:53	WG2527926
2-Chloronaphthalene	ND		79.5	2	06/01/2025 02:53	WG2527926
4-Chlorophenyl-phenylether	ND		795	2	06/01/2025 02:53	WG2527926
1,2-Dichlorobenzene	ND		795	2	06/01/2025 02:53	WG2527926
1,3-Dichlorobenzene	ND		795	2	06/01/2025 02:53	WG2527926
1,4-Dichlorobenzene	ND		795	2	06/01/2025 02:53	WG2527926
3,3-Dichlorobenzidine	ND		795	2	06/01/2025 02:53	WG2527926
2,4-Dinitrotoluene	ND		795	2	06/01/2025 02:53	WG2527926
2,6-Dinitrotoluene	ND		795	2	06/01/2025 02:53	WG2527926
Hexachlorobenzene	ND		795	2	06/01/2025 02:53	WG2527926
Hexachloro-1,3-butadiene	ND		795	2	06/01/2025 02:53	WG2527926
Hexachlorocyclopentadiene	ND	C7	795	2	06/01/2025 02:53	WG2527926
Hexachloroethane	ND		795	2	06/01/2025 02:53	WG2527926
Isophorone	ND		795	2	06/01/2025 02:53	WG2527926
Nitrobenzene	ND		795	2	06/01/2025 02:53	WG2527926
n-Nitrosodimethylamine	ND		795	2	06/01/2025 02:53	WG2527926
n-Nitrosodiphenylamine	ND		795	2	06/01/2025 02:53	WG2527926
n-Nitrosodi-n-propylamine	ND		795	2	06/01/2025 02:53	WG2527926
Phenanthrene	ND		79.5	2	06/01/2025 02:53	WG2527926
Benzylbutyl phthalate	ND		795	2	06/01/2025 02:53	WG2527926
Bis(2-ethylhexyl)phthalate	ND		795	2	06/01/2025 02:53	WG2527926
Di-n-butyl phthalate	ND		795	2	06/01/2025 02:53	WG2527926
Diethyl phthalate	ND		795	2	06/01/2025 02:53	WG2527926
Dimethyl phthalate	ND		795	2	06/01/2025 02:53	WG2527926
Di-n-octyl phthalate	ND		795	2	06/01/2025 02:53	WG2527926
1,2,4-Trichlorobenzene	ND		795	2	06/01/2025 02:53	WG2527926
4-Chloro-3-methylphenol	ND		795	2	06/01/2025 02:53	WG2527926
2-Chlorophenol	ND		795	2	06/01/2025 02:53	WG2527926
2,4-Dichlorophenol	ND		795	2	06/01/2025 02:53	WG2527926
2,4-Dimethylphenol	ND	C3	795	2	06/01/2025 02:53	WG2527926
4,6-Dinitro-2-methylphenol	ND		795	2	06/01/2025 02:53	WG2527926
2,4-Dinitrophenol	ND		795	2	06/01/2025 02:53	WG2527926
2-Nitrophenol	ND		795	2	06/01/2025 02:53	WG2527926
4-Nitrophenol	ND		795	2	06/01/2025 02:53	WG2527926
Pentachlorophenol	ND		795	2	06/01/2025 02:53	WG2527926
Phenol	ND		795	2	06/01/2025 02:53	WG2527926
2,4,6-Trichlorophenol	ND		795	2	06/01/2025 02:53	WG2527926
(S) 2-Fluorophenol	69.3		12.0-120		06/01/2025 02:53	WG2527926
(S) Phenol-d5	64.4		10.0-120		06/01/2025 02:53	WG2527926
(S) Nitrobenzene-d5	59.9		10.0-122		06/01/2025 02:53	WG2527926
(S) 2-Fluorobiphenyl	63.5		15.0-120		06/01/2025 02:53	WG2527926
(S) 2,4,6-Tribromophenol	76.4		10.0-127		06/01/2025 02:53	WG2527926
(S) p-Terphenyl-d14	66.6		10.0-120		06/01/2025 02:53	WG2527926



Sample Narrative:

L1864773-01 WG2527926: Dilution due to matrix impact during extract concentration procedure

Method Blank (MB)

(MB) R4223615-1 05/31/25 16:12

Analyte	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

¹Cp

²Tc

³Ss

L1864772-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1864772-01 05/31/25 16:12 • (DUP) R4223615-3 05/31/25 16:12

Analyte	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
	%	%		%		%
Total Solids	71.6	71.7	1	0.175		10

⁴Cn

⁵Sr

Laboratory Control Sample (LCS)

(LCS) R4223615-2 05/31/25 16:12

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
	%	%	%	%	
Total Solids	50.0	50.0	100	90.0-110	

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4224409-1 06/02/25 21:26

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Ammonia Nitrogen	U		7190	10000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1864784-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1864784-03 06/02/25 21:47 • (DUP) R4224409-5 06/02/25 21:48

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	38300	43800	1	13.3		20

L1864784-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1864784-12 06/02/25 22:05 • (DUP) R4224409-6 06/02/25 22:06

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Ammonia Nitrogen	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R4224409-2 06/02/25 21:27

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Ammonia Nitrogen	250000	251000	100	90.0-110	

L1864772-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1864772-01 06/02/25 21:29 • (MS) R4224409-3 06/02/25 21:30 • (MSD) R4224409-4 06/02/25 21:32

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Ammonia Nitrogen	349000	ND	383000	379000	110	109	1	90.0-110			0.998	20

L1864784-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1864784-18 06/02/25 22:12 • (MS) R4224409-7 06/02/25 22:14 • (MSD) R4224409-8 06/02/25 22:15

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ammonia Nitrogen	292000	ND	294000	302000	100	103	1	90.0-110			2.84	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4226217-1 06/05/25 15:54

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Kjeldahl Nitrogen, TKN	U		15200	20000

L1864260-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1864260-11 06/05/25 15:58 • (DUP) R4226217-3 06/05/25 16:00

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Kjeldahl Nitrogen, TKN	1610000	1590000	5	1.22		20

L1864775-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1864775-01 06/05/25 16:40 • (DUP) R4226217-13 06/05/25 16:41

Analyte	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Kjeldahl Nitrogen, TKN	104000	105000	1	0.650		20

Laboratory Control Sample (LCS)

(LCS) R4226217-2 06/05/25 15:56

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Kjeldahl Nitrogen, TKN	624000	629000	101	81.7-124	

L1864260-15 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1864260-15 06/05/25 16:07 • (MS) R4226217-10 06/05/25 16:05 • (MSD) R4226217-11 06/05/25 16:09

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Kjeldahl Nitrogen, TKN	446000	2440000	2570000	2560000	30.5	26.8	1	81.7-124	<u>E V</u>	<u>E V</u>	0.641	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1864260-19 Original Sample (OS) • Matrix Spike (MS)

(OS) L1864260-19 06/05/25 16:17 • (MS) R4226217-12 06/05/25 16:19

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Kjeldahl Nitrogen, TKN	454000	1190000	1330000	30.4	1	81.7-124	<u>E J6</u>

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R4223643-1 05/31/25 19:34

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Nitrate-Nitrite	682	⬇	606	20000

1 Cp

2 Tc

3 Ss

Laboratory Control Sample (LCS)

(LCS) R4223643-2 05/31/25 19:47

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Nitrate-Nitrite	40000	40400	101	80.0-120	

4 Cn

5 Sr

L1864775-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1864775-01 05/31/25 20:41 • (MS) R4223643-3 05/31/25 20:54 • (MSD) R4223643-4 05/31/25 21:08

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Nitrate-Nitrite	45100	43400	92800	89500	109	102	1.04	80.0-120			3.53	15

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4223805-1 06/01/25 20:51

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC By Walkley Black	U		25500	100000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1864774-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1864774-01 06/01/25 20:51 • (DUP) R4223805-3 06/01/25 20:52

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC By Walkley Black	24700000	24300000	14	1.70		20

L1864784-27 Original Sample (OS) • Duplicate (DUP)

(OS) L1864784-27 06/01/25 20:59 • (DUP) R4223805-6 06/01/25 20:59

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC By Walkley Black	9200000	9580000	9	4.09		20

Laboratory Control Sample (LCS)

(LCS) R4223805-2 06/01/25 20:51

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC By Walkley Black	3230000	3400000	105	75.0-144	

L1864784-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1864784-18 06/01/25 20:56 • (MS) R4223805-4 06/01/25 20:57 • (MSD) R4223805-5 06/01/25 20:57

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC By Walkley Black	20000000	4230000	21200000	20900000	84.9	83.5	5	80.0-120			1.29	20

Method Blank (MB)

(MB) R4223575-7 05/31/25 21:19

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/kg		ug/kg	ug/kg
Aluminum	U		6080	20000
Antimony	U		691	2000
Beryllium	U		47.7	200
Calcium	U		19000	100000
Chromium	U		214	1000
Cobalt	U		177	1000
Iron	3670	U	2240	10000
Magnesium	U		19900	100000
Manganese	U		173	1000
Potassium	U		20900	100000
Sodium	U		41200	100000
Thallium	U		518	2000
Vanadium	U		383	2000

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4223575-8 05/31/25 21:21

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/kg	ug/kg	%	%	
Aluminum	1000000	996000	99.6	80.0-120	
Antimony	100000	97400	97.4	80.0-120	
Beryllium	100000	98700	98.7	80.0-120	
Calcium	1000000	982000	98.2	80.0-120	
Chromium	100000	95100	95.1	80.0-120	
Cobalt	100000	94200	94.2	80.0-120	
Iron	1000000	968000	96.8	80.0-120	
Magnesium	1000000	1010000	101	80.0-120	
Manganese	100000	98500	98.5	80.0-120	
Potassium	1000000	1010000	101	80.0-120	
Sodium	1000000	991000	99.1	80.0-120	
Thallium	100000	99100	99.1	80.0-120	
Vanadium	100000	96500	96.5	80.0-120	

L1864784-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1864784-01 05/31/25 21:23 • (MS) R4223575-11 05/31/25 21:28 • (MSD) R4223575-12 05/31/25 21:29

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Aluminum	1190000	1710000	3610000	3630000	160	163	1	75.0-125	<u>J5</u>	<u>J5</u>	0.666	20
Antimony	119000	ND	99800	97300	84.1	82.0	1	75.0-125			2.57	20
Beryllium	119000	481	118000	116000	99.2	97.1	1	75.0-125			2.16	20
Calcium	1190000	5460000	11400000	18000000	501	1060	1	75.0-125	<u>V</u>	<u>J3 V</u>	44.8	20
Chromium	119000	1990	121000	119000	100	98.7	1	75.0-125			1.49	20
Cobalt	119000	1860	119000	118000	98.6	97.7	1	75.0-125			0.945	20
Iron	1190000	4250000	3670000	3840000	0.000	0.000	1	75.0-125	<u>J6</u>	<u>J6</u>	4.61	20
Magnesium	1190000	1140000	2860000	2930000	146	152	1	75.0-125	<u>J5</u>	<u>J5</u>	2.47	20
Manganese	119000	161000	308000	364000	124	171	1	75.0-125		<u>J5</u>	16.7	20
Potassium	1190000	1170000	2890000	2890000	145	144	1	75.0-125	<u>J5</u>	<u>J5</u>	0.0544	20
Sodium	1190000	ND	1250000	1220000	100	98.2	1	75.0-125			1.85	20
Thallium	119000	ND	116000	113000	98.1	95.5	1	75.0-125			2.77	20
Vanadium	119000	8060	120000	119000	94.6	93.5	1	75.0-125			1.08	20

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R4223621-3 05/31/25 12:21

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Acetone	U		36.5	50.0
Acrylonitrile	U		3.61	12.5
Bromobenzene	U		0.900	12.5
Bromodichloromethane	U		0.725	2.50
Bromoform	U		1.17	25.0
Bromomethane	U		1.97	12.5
n-Butylbenzene	U		5.25	12.5
sec-Butylbenzene	U		2.88	12.5
tert-Butylbenzene	U		1.95	5.00
Carbon tetrachloride	U		0.898	5.00
Chlorobenzene	U		0.210	2.50
Chlorodibromomethane	U		0.612	2.50
Chloroethane	U		1.70	5.00
Chloroform	U		1.03	2.50
Chloromethane	U		4.35	12.5
2-Chlorotoluene	U		0.865	2.50
4-Chlorotoluene	U		0.450	5.00
1,2-Dibromo-3-Chloropropane	U		3.90	25.0
1,2-Dibromoethane	U		0.648	2.50
Dibromomethane	U		0.750	5.00
1,2-Dichlorobenzene	U		0.425	5.00
1,3-Dichlorobenzene	U		0.600	5.00
1,4-Dichlorobenzene	U		0.700	5.00
Dichlorodifluoromethane	U		1.61	5.00
1,1-Dichloroethane	U		0.491	2.50
1,2-Dichloroethane	U		0.649	2.50
1,1-Dichloroethene	U		0.606	2.50
cis-1,2-Dichloroethene	U		0.734	2.50
trans-1,2-Dichloroethene	U		1.04	5.00
1,2-Dichloropropane	U		1.42	5.00
1,1-Dichloropropene	U		0.809	2.50
1,3-Dichloropropane	U		0.501	5.00
cis-1,3-Dichloropropene	U		0.757	2.50
trans-1,3-Dichloropropene	U		1.14	5.00
2,2-Dichloropropane	U		1.38	2.50
Di-isopropyl ether	U		0.410	1.00
Hexachloro-1,3-butadiene	U		6.00	25.0
Isopropylbenzene	U		0.425	2.50
p-Isopropyltoluene	U		2.55	5.00
2-Butanone (MEK)	U		63.5	100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4223621-3 05/31/25 12:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/kg		ug/kg	ug/kg
Methylene Chloride	U		6.64	25.0
4-Methyl-2-pentanone (MIBK)	U		2.28	25.0
Methyl tert-butyl ether	U		0.350	1.00
n-Propylbenzene	U		0.950	5.00
Styrene	U		0.229	12.5
1,1,1,2-Tetrachloroethane	U		0.948	2.50
1,1,2,2-Tetrachloroethane	U		0.695	2.50
1,1,2-Trichlorotrifluoroethane	U		0.754	2.50
Tetrachloroethene	U		0.896	2.50
1,2,3-Trichlorobenzene	U		7.33	12.5
1,2,4-Trichlorobenzene	U		4.40	12.5
1,1,1-Trichloroethane	U		0.923	2.50
1,1,2-Trichloroethane	U		0.597	2.50
Trichloroethene	U		0.584	1.00
Trichlorofluoromethane	U		0.827	2.50
1,2,3-Trichloropropane	U		1.62	12.5
1,2,3-Trimethylbenzene	U		1.58	5.00
Vinyl chloride	U		1.16	2.50
(S) Toluene-d8	105			75.0-131
(S) 4-Bromofluorobenzene	96.6			67.0-138
(S) 1,2-Dichloroethane-d4	97.1			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) R4223621-1 05/31/25 10:47 • (LCSD) R4223621-2 05/31/25 11:06

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/kg	ug/kg	ug/kg	%	%	%			%	%
Acetone	625	378	296	60.5	47.4	10.0-160			24.3	31
Acrylonitrile	625	726	671	116	107	45.0-153			7.87	22
Bromobenzene	125	123	117	98.4	93.6	73.0-121			5.00	20
Bromodichloromethane	125	124	116	99.2	92.8	73.0-121			6.67	20
Bromoform	125	108	102	86.4	81.6	64.0-132			5.71	20
Bromomethane	125	132	116	106	92.8	56.0-147			12.9	20
n-Butylbenzene	125	133	122	106	97.6	68.0-135			8.63	20
sec-Butylbenzene	125	127	123	102	98.4	74.0-130			3.20	20
tert-Butylbenzene	125	128	123	102	98.4	75.0-127			3.98	20
Carbon tetrachloride	125	128	116	102	92.8	66.0-128			9.84	20
Chlorobenzene	125	125	117	100	93.6	76.0-128			6.61	20
Chlorodibromomethane	125	122	114	97.6	91.2	74.0-127			6.78	20

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

(LCS) R4223621-1 05/31/25 10:47 • (LCSD) R4223621-2 05/31/25 11:06

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCSD Result ug/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Chloroethane	125	134	125	107	100	61.0-134			6.95	20
Chloroform	125	132	120	106	96.0	72.0-123			9.52	20
Chloromethane	125	121	112	96.8	89.6	51.0-138			7.73	20
2-Chlorotoluene	125	132	127	106	102	75.0-124			3.86	20
4-Chlorotoluene	125	133	124	106	99.2	75.0-124			7.00	20
1,2-Dibromo-3-Chloropropane	125	108	100	86.4	80.0	59.0-130			7.69	20
1,2-Dibromoethane	125	127	121	102	96.8	74.0-128			4.84	20
Dibromomethane	125	128	120	102	96.0	75.0-122			6.45	20
1,2-Dichlorobenzene	125	134	127	107	102	76.0-124			5.36	20
1,3-Dichlorobenzene	125	131	123	105	98.4	76.0-125			6.30	20
1,4-Dichlorobenzene	125	132	121	106	96.8	77.0-121			8.70	20
Dichlorodifluoromethane	125	129	119	103	95.2	43.0-156			8.06	20
1,1-Dichloroethane	125	122	113	97.6	90.4	70.0-127			7.66	20
1,2-Dichloroethane	125	140	126	112	101	65.0-131			10.5	20
1,1-Dichloroethene	125	110	102	88.0	81.6	65.0-131			7.55	20
cis-1,2-Dichloroethene	125	124	116	99.2	92.8	73.0-125			6.67	20
trans-1,2-Dichloroethene	125	112	114	89.6	91.2	71.0-125			1.77	20
1,2-Dichloropropane	125	127	117	102	93.6	74.0-125			8.20	20
1,1-Dichloropropene	125	125	114	100	91.2	73.0-125			9.21	20
1,3-Dichloropropane	125	129	121	103	96.8	80.0-125			6.40	20
cis-1,3-Dichloropropene	125	124	117	99.2	93.6	76.0-127			5.81	20
trans-1,3-Dichloropropene	125	133	127	106	102	73.0-127			4.62	20
2,2-Dichloropropane	125	155	141	124	113	59.0-135			9.46	20
Di-isopropyl ether	125	118	117	94.4	93.6	60.0-136			0.851	20
Hexachloro-1,3-butadiene	125	106	98.8	84.8	79.0	57.0-150			7.03	20
Isopropylbenzene	125	131	121	105	96.8	72.0-127			7.94	20
p-Isopropyltoluene	125	137	128	110	102	72.0-133			6.79	20
2-Butanone (MEK)	625	701	619	112	99.0	30.0-160			12.4	24
Methylene Chloride	125	126	117	101	93.6	68.0-123			7.41	20
4-Methyl-2-pentanone (MIBK)	625	716	674	115	108	56.0-143			6.04	20
Methyl tert-butyl ether	125	132	121	106	96.8	66.0-132			8.70	20
n-Propylbenzene	125	131	123	105	98.4	74.0-126			6.30	20
Styrene	125	131	122	105	97.6	72.0-127			7.11	20
1,1,1,2-Tetrachloroethane	125	131	127	105	102	74.0-129			3.10	20
1,1,2,2-Tetrachloroethane	125	140	130	112	104	68.0-128			7.41	20
1,1,2-Trichlorotrifluoroethane	125	125	116	100	92.8	61.0-139			7.47	20
Tetrachloroethene	125	129	122	103	97.6	70.0-136			5.58	20
1,2,3-Trichlorobenzene	125	129	117	103	93.6	59.0-139			9.76	20
1,2,4-Trichlorobenzene	125	133	125	106	100	62.0-137			6.20	20
1,1,1-Trichloroethane	125	137	124	110	99.2	69.0-126			9.96	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) R4223621-1 05/31/25 10:47 • (LCSD) R4223621-2 05/31/25 11:06

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCSD Result ug/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
1,1,2-Trichloroethane	125	133	123	106	98.4	78.0-123			7.81	20
Trichloroethene	125	124	118	99.2	94.4	76.0-126			4.96	20
Trichlorofluoromethane	125	135	117	108	93.6	61.0-142			14.3	20
1,2,3-Trichloropropane	125	123	117	98.4	93.6	67.0-129			5.00	20
1,2,3-Trimethylbenzene	125	128	121	102	96.8	74.0-124			5.62	20
Vinyl chloride	125	126	118	101	94.4	63.0-134			6.56	20
(S) Toluene-d8				103	101	75.0-131				
(S) 4-Bromofluorobenzene				100	98.7	67.0-138				
(S) 1,2-Dichloroethane-d4				102	98.6	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) R4223641-2 05/31/25 19:29

Analyte	MB Result ug/kg	MB Qualifier	MB MDL ug/kg	MB RDL ug/kg
Acenaphthylene	U		4.69	33.3
Benzidine	U		62.6	1670
Benzo(g,h,i)perylene	U		6.09	33.3
Bis(2-chlorethoxy)methane	U		10.0	333
Bis(2-chloroethyl)ether	U		11.0	333
2,2-Oxybis(1-Chloropropane)	U		14.4	333
4-Bromophenyl-phenylether	U		11.7	333
2-Chloronaphthalene	U		5.85	33.3
4-Chlorophenyl-phenylether	U		11.6	333
1,2-Dichlorobenzene	U		9.87	333
1,3-Dichlorobenzene	U		10.1	333
1,4-Dichlorobenzene	U		9.91	333
3,3-Dichlorobenzidine	U		12.3	333
2,4-Dinitrotoluene	U		9.55	333
2,6-Dinitrotoluene	U		10.9	333
Hexachlorobenzene	U		11.8	333
Hexachloro-1,3-butadiene	U		11.2	333
Hexachlorocyclopentadiene	U		17.5	333
Hexachloroethane	U		13.1	333
Isophorone	U		10.2	333
Nitrobenzene	U		11.6	333
n-Nitrosodimethylamine	U		49.4	333
n-Nitrosodiphenylamine	U		25.2	333
n-Nitrosodi-n-propylamine	U		11.1	333
Phenanthrene	U		6.61	33.3
Benzylbutyl phthalate	U		10.4	333
Bis(2-ethylhexyl)phthalate	U		42.2	333
Di-n-butyl phthalate	U		11.4	333
Diethyl phthalate	U		11.0	333
Dimethyl phthalate	U		70.6	333
Di-n-octyl phthalate	U		22.5	333
1,2,4-Trichlorobenzene	U		10.4	333
4-Chloro-3-methylphenol	U		10.8	333
2-Chlorophenol	U		11.0	333
2,4-Dichlorophenol	U		9.70	333
2,4-Dimethylphenol	U		8.70	333
4,6-Dinitro-2-methylphenol	U		75.5	333
2,4-Dinitrophenol	U		77.9	333
2-Nitrophenol	U		11.9	333
4-Nitrophenol	U		10.4	333

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4223641-2 05/31/25 19:29

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/kg		ug/kg	ug/kg
Pentachlorophenol	U		8.96	333
Phenol	U		13.4	333
2,4,6-Trichlorophenol	U		10.7	333
(S) 2-Fluorophenol	60.2			12.0-120
(S) Phenol-d5	54.5			10.0-120
(S) Nitrobenzene-d5	48.0			10.0-122
(S) 2-Fluorobiphenyl	55.6			15.0-120
(S) 2,4,6-Tribromophenol	50.8			10.0-127
(S) p-Terphenyl-d14	60.1			10.0-120

Laboratory Control Sample (LCS)

(LCS) R4223641-1 05/31/25 19:07

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/kg	ug/kg	%	%	
Acenaphthylene	666	434	65.2	40.0-120	
Benzdine	1330	355	26.7	10.0-120	
Benzo(g,h,i)perylene	666	414	62.2	43.0-120	
Bis(2-chlorethoxy)methane	666	307	46.1	20.0-120	
Bis(2-chloroethyl)ether	666	315	47.3	16.0-120	
2,2-Oxybis(1-Chloropropane)	666	320	48.0	23.0-120	
4-Bromophenyl-phenylether	666	462	69.4	40.0-120	
2-Chloronaphthalene	666	395	59.3	35.0-120	
4-Chlorophenyl-phenylether	666	436	65.5	40.0-120	
1,2-Dichlorobenzene	666	361	54.2	32.0-120	
1,3-Dichlorobenzene	666	357	53.6	30.0-120	
1,4-Dichlorobenzene	666	383	57.5	31.0-120	
3,3-Dichlorobenzidine	1330	882	66.3	28.0-120	
2,4-Dinitrotoluene	666	433	65.0	45.0-120	
2,6-Dinitrotoluene	666	423	63.5	42.0-120	
Hexachlorobenzene	666	468	70.3	39.0-120	
Hexachloro-1,3-butadiene	666	317	47.6	15.0-120	
Hexachlorocyclopentadiene	666	244	36.6	15.0-120	
Hexachloroethane	666	342	51.4	17.0-120	
Isophorone	666	299	44.9	23.0-120	
Nitrobenzene	666	298	44.7	17.0-120	
n-Nitrosodimethylamine	666	372	55.9	10.0-125	
n-Nitrosodiphenylamine	666	446	67.0	40.0-120	
n-Nitrosodi-n-propylamine	666	349	52.4	26.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R4223641-1 05/31/25 19:07

Analyte	Spike Amount ug/kg	LCS Result ug/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Phenanthrene	666	421	63.2	42.0-120	
Benzylbutyl phthalate	666	402	60.4	40.0-120	
Bis(2-ethylhexyl)phthalate	666	411	61.7	41.0-120	
Di-n-butyl phthalate	666	432	64.9	43.0-120	
Diethyl phthalate	666	421	63.2	43.0-120	
Dimethyl phthalate	666	440	66.1	43.0-120	
Di-n-octyl phthalate	666	387	58.1	40.0-120	
1,2,4-Trichlorobenzene	666	343	51.5	17.0-120	
4-Chloro-3-methylphenol	666	341	51.2	28.0-120	
2-Chlorophenol	666	369	55.4	28.0-120	
2,4-Dichlorophenol	666	358	53.8	25.0-120	
2,4-Dimethylphenol	666	325	48.8	15.0-120	
4,6-Dinitro-2-methylphenol	666	379	56.9	16.0-120	
2,4-Dinitrophenol	666	267	40.1	10.0-120	
2-Nitrophenol	666	356	53.5	20.0-120	
4-Nitrophenol	666	435	65.3	27.0-120	
Pentachlorophenol	666	339	50.9	29.0-120	
Phenol	666	369	55.4	28.0-120	
2,4,6-Trichlorophenol	666	413	62.0	37.0-120	
(S) 2-Fluorophenol			64.7	12.0-120	
(S) Phenol-d5			61.1	10.0-120	
(S) Nitrobenzene-d5			46.8	10.0-122	
(S) 2-Fluorobiphenyl			61.6	15.0-120	
(S) 2,4,6-Tribromophenol			73.6	10.0-127	
(S) p-Terphenyl-d14			65.8	10.0-120	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

L1864776-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1864776-01 05/31/25 23:33 • (MS) R4223641-3 05/31/25 23:55 • (MSD) R4223641-4 06/01/25 00:18

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acenaphthylene	781	ND	536	466	68.6	61.0	2	25.0-120			13.9	32
Benzidine	1560	ND	ND	ND	0.000	0.000	2	10.0-120	J6	J6	0.000	40
Benzo(g,h,i)perylene	781	ND	441	386	56.4	50.5	2	10.0-120			13.3	33
Bis(2-chlorethoxy)methane	781	ND	ND	ND	52.6	45.8	2	10.0-120			16.1	34
Bis(2-chloroethyl)ether	781	ND	ND	ND	53.8	48.1	2	10.0-120			13.4	40
2,2-Oxybis(1-Chloropropane)	781	ND	ND	ND	59.4	49.7	2	10.0-120			19.9	40
4-Bromophenyl-phenylether	781	ND	ND	ND	69.2	62.1	2	27.0-120			13.0	30
2-Chloronaphthalene	781	ND	487	413	62.3	54.1	2	20.0-120			16.2	32

L1864776-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1864776-01 05/31/25 23:33 • (MS) R4223641-3 05/31/25 23:55 • (MSD) R4223641-4 06/01/25 00:18

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	781	ND	ND	ND	67.5	59.9	2	24.0-120			14.1	29
1,2-Dichlorobenzene	781	ND	ND	ND	56.3	48.6	2	10.0-120			16.8	38
1,3-Dichlorobenzene	781	ND	ND	ND	55.1	46.7	2	10.0-120			18.6	40
1,4-Dichlorobenzene	781	ND	ND	ND	57.4	49.1	2	10.0-120			17.8	39
3,3-Dichlorobenzidine	1560	ND	ND	ND	39.8	42.0	2	10.0-120			3.98	34
2,4-Dinitrotoluene	781	ND	ND	ND	64.1	56.7	2	30.0-120			14.4	31
2,6-Dinitrotoluene	781	ND	ND	ND	64.0	58.6	2	25.0-120			10.9	31
Hexachlorobenzene	781	ND	ND	ND	67.0	60.2	2	27.0-120			12.9	28
Hexachloro-1,3-butadiene	781	ND	ND	ND	50.5	45.0	2	10.0-120			13.6	38
Hexachlorocyclopentadiene	781	ND	ND	ND	5.98	4.69	2	10.0-120	J6	J6	26.4	40
Hexachloroethane	781	ND	ND	ND	41.6	34.6	2	10.0-120			20.3	40
Isophorone	781	ND	ND	ND	53.1	45.3	2	13.0-120			18.0	34
Nitrobenzene	781	ND	ND	ND	52.3	45.1	2	10.0-120			16.9	36
n-Nitrosodimethylamine	781	ND	ND	ND	59.4	48.3	2	10.0-127			22.7	40
n-Nitrosodiphenylamine	781	ND	ND	ND	66.6	60.2	2	17.0-120			12.2	29
n-Nitrosodi-n-propylamine	781	ND	ND	ND	59.7	51.9	2	10.0-120			16.1	37
Phenanthrene	781	ND	496	434	63.5	56.7	2	17.0-120			13.4	31
Benzylbutyl phthalate	781	ND	ND	ND	68.7	60.8	2	23.0-120			14.4	30
Bis(2-ethylhexyl)phthalate	781	ND	ND	ND	66.6	58.9	2	17.0-126			14.3	30
Di-n-butyl phthalate	781	ND	ND	ND	67.8	61.3	2	30.0-120			12.2	29
Diethyl phthalate	781	ND	ND	ND	64.3	58.3	2	26.0-120			11.9	28
Dimethyl phthalate	781	ND	ND	ND	68.4	60.0	2	25.0-120			15.2	29
Di-n-octyl phthalate	781	ND	ND	ND	69.0	61.1	2	21.0-123			14.3	29
1,2,4-Trichlorobenzene	781	ND	ND	ND	56.7	48.4	2	12.0-120			18.0	37
4-Chloro-3-methylphenol	781	ND	ND	ND	57.5	52.8	2	15.0-120			10.7	30
2-Chlorophenol	781	ND	ND	ND	61.8	51.7	2	15.0-120			19.9	37
2,4-Dichlorophenol	781	ND	ND	ND	61.0	54.1	2	20.0-120			14.3	31
2,4-Dimethylphenol	781	ND	ND	ND	55.2	48.9	2	10.0-120			14.3	33
4,6-Dinitro-2-methylphenol	781	ND	ND	ND	60.6	55.2	2	10.0-120			11.5	39
2,4-Dinitrophenol	781	ND	ND	ND	54.9	52.2	2	10.0-121			7.24	40
2-Nitrophenol	781	ND	ND	ND	63.3	54.1	2	12.0-120			17.9	39
4-Nitrophenol	781	ND	ND	ND	71.0	64.4	2	10.0-137			11.9	32
Pentachlorophenol	781	ND	ND	ND	56.7	51.7	2	10.0-160			11.4	31
Phenol	781	ND	ND	ND	62.1	53.8	2	12.0-120			16.6	38
2,4,6-Trichlorophenol	781	ND	ND	ND	65.2	58.5	2	19.0-120			13.0	32
(S) 2-Fluorophenol					72.4	61.7		12.0-120				
(S) Phenol-d5					69.6	59.5		10.0-120				
(S) Nitrobenzene-d5					56.4	48.9		10.0-122				
(S) 2-Fluorobiphenyl					63.8	56.7		15.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1864776-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1864776-01 05/31/25 23:33 • (MS) R4223641-3 05/31/25 23:55 • (MSD) R4223641-4 06/01/25 00:18

Analyte	Spike Amount (dry) ug/kg	Original Result (dry) ug/kg	MS Result (dry) ug/kg	MSD Result (dry) ug/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
(S) 2,4,6-Tribromophenol					77.9	66.2		10.0-127				
(S) p-Terphenyl-d14					65.0	59.2		10.0-120				

Sample Narrative:

OS: Dilution due to matrix impact during extract concentration procedure

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

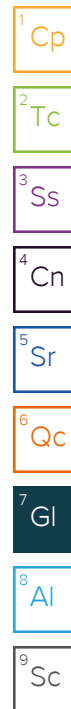
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	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.
C7	The initial calibration verification standard (SSCV) associated with this data responded high.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.



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

Pace® Location Requested (City/State):

CHAIN-OF-CUSTODY Analytical Request Document

LAB USE ONLY - Affix Workorder/Login Label Here

Pace National, 12065 Lebanon Road, Mt. Juliet, TN 37122

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields



A012

Scan QR Code for instructions

Handwritten signature/initials

Company Name: CTEH, LLC
Street Address: 5120 North Shore Drive, North Little Rock, AR 72118

Contact/Report To: Chevron-Bishop, Kyle Lawrence, Tami McMullin, Andy Henaull, Eric Catlin, Madelyn Klinkerman
Phone #:
E-Mail: chevron_bishop@cteh.com; kylelawrence@cteh.com; tmcnullin@cteh.com; ahenault@cteh.com
Cc E-Mail: ecattin@cteh.com; mlinkerman@cteh.com

Customer Project #: PROJ-054017

Invoice to: CTEH

Project Name: Bishop LOC

Invoice E-mail: ctehapp@montrose-env.com

Site Collection Info/Facility ID (as applicable): Galeton, CO

Purchase Order # (if applicable):

Quote #:

Time Zone Collected: [] AK [] PT [X] MT [] CT [] ET

County / State origin of sample(s): CO

Data Deliverables: [X] Level II [] Level III [] Level IV
[] EQUIS
[] Other

Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No

Rush (Pre-approval required): [] Same Day [] 1 Day [] 2 Day [] 3 Day Other: ASAP

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [] Yes [] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Specify Container Size and Identify Container Preservative Type tables

Analysis Requested table with columns for VOCs, SVOCs, Metals, etc.

Lab Use Only table with fields for Proj. Mgr, AcctNum, Table #, Profile, etc.

Main data table with columns for Customer Sample ID, Matrix, Comp/Grab, Composite Start, Collected or Composite End, # Cont., Residual Chlorine, and various analysis results.

Table for VOCs, SVOCs, Metals, and other analysis results with handwritten 'X' marks and 'MB' initials.

Sample Receipt Checklist with fields for COC Seal Present, Signed/Accurate, Bottles arrive intact, Correct bottles used, Sufficient volume sent, RA Screen, and Condition.

Additional Instructions from Pace: VOCs - full list minus BTEX, 1,2,4-TMB, 1,3,5-TMB; SVOCs - full list minus PAHs, 1-methylnaphthalene, 2-methylnaphthalene; Metals - TAL minus RCRA, Cu, Ni, Zn

Collected By: Printed Name Signature

Customer Remarks / Special Conditions / Possible Hazards: # Coolers, Thermometer ID, Correction Factor, Obs. Temp, Corrected Temp, On Ice

Relinquished by/Company: (Signature) Date/Time: 5-30-25 1800

Relinquished by/Company: (Signature) Date/Time:

Received by/Company: (Signature) Date/Time: 5-30-25 1130

Received by/Company: (Signature) Date/Time:

Tracking Number: Delivered by: [] In-Person [] Courier [] FedEx [] UPS [] Other Page: 1 of 1