

Phillips 66 - Tasman

Sample Delivery Group: L1826379

Samples Received: 02/13/2025

Project Number:

Description: Parmlee #4 (H-6-9)

Report To: S. Weathers, B. Humphrey, J. Watts
6899 Pecos St., Unit C
Denver, CO 80221

Entire Report Reviewed By:



Shane Gambill
Project Manager

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SAMPLE SUMMARY

MW06 L1826379-01 GW

Collected by

Collected date/time

Received date/time

02/11/25 14:28

02/13/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2451574	1	02/14/25 08:30	02/14/25 11:26	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2451284	1	02/16/25 05:02	02/16/25 05:02	AJC	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2452798	1	02/17/25 00:08	02/17/25 00:08	DYW	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

MW07 L1826379-02 GW

Collected by

Collected date/time

Received date/time

02/11/25 13:27

02/13/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2451574	1	02/14/25 08:30	02/14/25 11:26	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2451284	1	02/16/25 05:16	02/16/25 05:16	AJC	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2452798	1	02/17/25 00:27	02/17/25 00:27	DYW	Mt. Juliet, TN

MW08 L1826379-03 GW

Collected by

Collected date/time

Received date/time

02/11/25 14:27

02/13/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2451574	1	02/14/25 08:30	02/14/25 11:26	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2451284	1	02/16/25 05:29	02/16/25 05:29	AJC	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2452798	1	02/17/25 00:46	02/17/25 00:46	DYW	Mt. Juliet, TN

MW09 L1826379-04 GW

Collected by

Collected date/time

Received date/time

02/11/25 12:32

02/13/25 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Gravimetric Analysis by Method 2540 C-2011	WG2451574	1	02/14/25 08:30	02/14/25 11:26	MMF	Mt. Juliet, TN
Wet Chemistry by Method 9056A	WG2451284	1	02/16/25 06:10	02/16/25 06:10	AJC	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2452798	1	02/17/25 01:05	02/17/25 01:05	DYW	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.



Shane Gambill
Project Manager



Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	488		10.0	1	02/14/2025 11:26	WG2451574

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	3.73		0.547	1.00	1	02/16/2025 05:02	WG2451284
Sulfate	67.7		0.637	5.00	1	02/16/2025 05:02	WG2451284

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	0.343	J	0.0941	1.00	1	02/17/2025 00:08	WG2452798
Toluene	U		0.278	1.00	1	02/17/2025 00:08	WG2452798
Ethylbenzene	2.15		0.137	1.00	1	02/17/2025 00:08	WG2452798
Xylenes, Total	1.28	J	0.174	3.00	1	02/17/2025 00:08	WG2452798
Naphthalene	U		1.00	5.00	1	02/17/2025 00:08	WG2452798
1,2,4-Trimethylbenzene	0.351	J	0.322	1.00	1	02/17/2025 00:08	WG2452798
1,2,3-Trimethylbenzene	U		0.104	1.00	1	02/17/2025 00:08	WG2452798
1,3,5-Trimethylbenzene	0.360	J	0.104	1.00	1	02/17/2025 00:08	WG2452798
(S) Toluene-d8	95.3			80.0-120		02/17/2025 00:08	WG2452798
(S) 4-Bromofluorobenzene	98.8			77.0-126		02/17/2025 00:08	WG2452798
(S) 1,2-Dichloroethane-d4	104			70.0-130		02/17/2025 00:08	WG2452798

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	517		10.0	1	02/14/2025 11:26	WG2451574

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2.52		0.547	1.00	1	02/16/2025 05:16	WG2451284
Sulfate	41.0		0.637	5.00	1	02/16/2025 05:16	WG2451284

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	81.7		0.0941	1.00	1	02/17/2025 00:27	WG2452798
Toluene	95.0		0.278	1.00	1	02/17/2025 00:27	WG2452798
Ethylbenzene	14.7		0.137	1.00	1	02/17/2025 00:27	WG2452798
Xylenes, Total	86.8		0.174	3.00	1	02/17/2025 00:27	WG2452798
Naphthalene	U		1.00	5.00	1	02/17/2025 00:27	WG2452798
1,2,4-Trimethylbenzene	4.34		0.322	1.00	1	02/17/2025 00:27	WG2452798
1,2,3-Trimethylbenzene	1.64		0.104	1.00	1	02/17/2025 00:27	WG2452798
1,3,5-Trimethylbenzene	5.25		0.104	1.00	1	02/17/2025 00:27	WG2452798
(S) Toluene-d8	93.1			80.0-120		02/17/2025 00:27	WG2452798
(S) 4-Bromofluorobenzene	91.9			77.0-126		02/17/2025 00:27	WG2452798
(S) 1,2-Dichloroethane-d4	99.7			70.0-130		02/17/2025 00:27	WG2452798

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	470		50.0	1	02/14/2025 11:26	WG2451574

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	3.89		0.547	1.00	1	02/16/2025 05:29	WG2451284
Sulfate	42.6		0.637	5.00	1	02/16/2025 05:29	WG2451284

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	0.258	J	0.0941	1.00	1	02/17/2025 00:46	WG2452798
Toluene	0.910	J	0.278	1.00	1	02/17/2025 00:46	WG2452798
Ethylbenzene	U		0.137	1.00	1	02/17/2025 00:46	WG2452798
Xylenes, Total	U		0.174	3.00	1	02/17/2025 00:46	WG2452798
Naphthalene	U		1.00	5.00	1	02/17/2025 00:46	WG2452798
1,2,4-Trimethylbenzene	U		0.322	1.00	1	02/17/2025 00:46	WG2452798
1,2,3-Trimethylbenzene	U		0.104	1.00	1	02/17/2025 00:46	WG2452798
1,3,5-Trimethylbenzene	U		0.104	1.00	1	02/17/2025 00:46	WG2452798
(S) Toluene-d8	100			80.0-120		02/17/2025 00:46	WG2452798
(S) 4-Bromofluorobenzene	95.3			77.0-126		02/17/2025 00:46	WG2452798
(S) 1,2-Dichloroethane-d4	103			70.0-130		02/17/2025 00:46	WG2452798

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	mg/l		mg/l		date / time	
Dissolved Solids	456		10.0	1	02/14/2025 11:26	WG2451574

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2.95		0.547	1.00	1	02/16/2025 06:10	WG2451284
Sulfate	50.1		0.637	5.00	1	02/16/2025 06:10	WG2451284

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Benzene	0.105	J	0.0941	1.00	1	02/17/2025 01:05	WG2452798
Toluene	U		0.278	1.00	1	02/17/2025 01:05	WG2452798
Ethylbenzene	U		0.137	1.00	1	02/17/2025 01:05	WG2452798
Xylenes, Total	U		0.174	3.00	1	02/17/2025 01:05	WG2452798
Naphthalene	U		1.00	5.00	1	02/17/2025 01:05	WG2452798
1,2,4-Trimethylbenzene	U		0.322	1.00	1	02/17/2025 01:05	WG2452798
1,2,3-Trimethylbenzene	U		0.104	1.00	1	02/17/2025 01:05	WG2452798
1,3,5-Trimethylbenzene	U		0.104	1.00	1	02/17/2025 01:05	WG2452798
(S) Toluene-d8	101			80.0-120		02/17/2025 01:05	WG2452798
(S) 4-Bromofluorobenzene	94.1			77.0-126		02/17/2025 01:05	WG2452798
(S) 1,2-Dichloroethane-d4	103			70.0-130		02/17/2025 01:05	WG2452798

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4177514-1 02/14/25 11:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		10.0	10.0

L1826229-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1826229-01 02/14/25 11:26 • (DUP) R4177514-3 02/14/25 11:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	458	467	1	1.95		10

L1826613-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1826613-02 02/14/25 11:26 • (DUP) R4177514-4 02/14/25 11:26

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	14500	15200	1	4.45		10

Laboratory Control Sample (LCS)

(LCS) R4177514-2 02/14/25 11:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dissolved Solids	8800	8700	98.9	90.0-110	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4177402-1 02/16/25 01:26

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Chloride	U		0.547	1.00
Sulfate	U		0.637	5.00

L1826212-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1826212-01 02/16/25 02:34 • (DUP) R4177402-3 02/16/25 02:47

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Chloride	21.2	20.9	1	1.45		15

L1826242-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1826242-01 02/16/25 03:28 • (DUP) R4177402-6 02/16/25 03:41

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Sulfate	92.6	93.0	1	0.413		15

Laboratory Control Sample (LCS)

(LCS) R4177402-2 02/16/25 01:40

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/l	mg/l	%	%	
Chloride	40.0	39.1	97.8	80.0-120	
Sulfate	40.0	39.7	99.2	80.0-120	

L1826212-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1826212-01 02/16/25 02:34 • (MS) R4177402-4 02/16/25 03:01 • (MSD) R4177402-5 02/16/25 03:14

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	40.0	21.2	55.3	59.9	85.2	96.9	1	80.0-120			8.08	15

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

L1826242-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1826242-01 02/16/25 03:28 • (MS) R4177402-7 02/16/25 03:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Sulfate	40.0	92.6	109	42.0	1	80.0-120	<u>E J6</u>

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4178289-3 02/16/25 22:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0941	1.00
Toluene	U		0.278	1.00
Ethylbenzene	U		0.137	1.00
Xylenes, Total	U		0.174	3.00
Naphthalene	U		1.00	5.00
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
(S) Toluene-d8	102			80.0-120
(S) 4-Bromofluorobenzene	93.9			77.0-126
(S) 1,2-Dichloroethane-d4	105			70.0-130

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

(LCS) R4178289-1 02/16/25 21:52 • (LCSD) R4178289-2 02/16/25 22:11

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	5.00	5.04	5.04	101	101	70.0-123			0.000	20
Toluene	5.00	4.85	4.84	97.0	96.8	79.0-120			0.206	20
Ethylbenzene	5.00	4.75	4.71	95.0	94.2	79.0-123			0.846	20
Xylenes, Total	15.0	14.4	14.1	96.0	94.0	79.0-123			2.11	20
Naphthalene	5.00	4.64	4.86	92.8	97.2	54.0-135	J	J	4.63	20
1,2,4-Trimethylbenzene	5.00	5.16	5.09	103	102	76.0-121			1.37	20
1,2,3-Trimethylbenzene	5.00	5.49	5.31	110	106	77.0-120			3.33	20
1,3,5-Trimethylbenzene	5.00	5.08	5.12	102	102	76.0-122			0.784	20
(S) Toluene-d8				98.3	96.6	80.0-120				
(S) 4-Bromofluorobenzene				95.1	94.5	77.0-126				
(S) 1,2-Dichloroethane-d4				102	102	70.0-130				

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

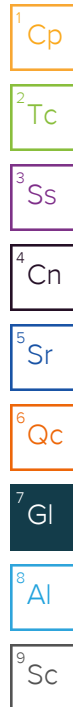
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

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.
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
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.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.



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.

