Cottonwood CONSULTING

P.O. Box 1653
Durango, Colorado 81302
(970) 764-7356
www.cottonwoodconsulting.com

September 2, 2025

Jerrid Brann
Simcoe LLC
1199 Main Ave Suite 101
Durango, CO 81301

RE: Mudge B #012R
2025 Biannual Monitoring Report

Dear Mr. Brann,

Cottonwood Consulting LLC (Cottonwood) is pleased to provide Simcoe LLC (Simcoe) with the results of the soil vapor extraction (SVE) monitoring conducted at the Mudge B #012R well site (API 30-045-10948). Groundwater monitoring is also conducted at the Mudge B #012R and groundwater monitoring results will be provided in the annual monitoring report. Details regarding the SVE methodology and associated results are summarized below.

Background

In September 2015, a historical production pit was discovered on the Mudge B #012R well site during a below-grade tank (BGT) replacement project. Soil boring results confirmed the presence of impacted soils at the location of the former pit. Three groundwater monitoring wells, MW #1, MW #2, and MW #3, were installed in areas upgradient of impacts, downgradient of impacts, and at the source of impacts, respectively, within the project area.

In May 2019, an SVE system was installed at the Mudge B #012R. The system has been extracting from SVE Point #1 since it commenced operation.

See Figure 1 for a site map showing the locations of all groundwater monitoring wells and SVE points.

Methodology

The soil vapor extraction system (SVE) was installed and commenced operation in December 2016. Weekly to monthly monitoring has been ongoing since then. During the regular monitoring, observations are made about the SVE system operation and general condition, organic vapor meter (OVM) readings are collected from the exhaust of the SVE unit, vacuum pressure on the unit is noted, and the quantity of water within the drum located on the unit is noted and the drum drained, if required.

Annual gas samples are also collected from the SVE unit and analyzed for volatile organic compounds (VOCs) by EPA Method 8260 and carbon dioxide and oxygen.

Monitoring Results

OVM readings collected during 2025 ranged from 5.3 parts per million (ppm) to 33.5 ppm. See Figure 2 for OVM reading results and Attachment 1 for a summary of the SVE system monitoring data.

No VOCs were detected in the gas sample collected from the SVE system. The HEAL gas sample laboratory report from the 2025 gas sampling event is included as Attachment 2.

The system was not operational upon arrival at four of the 2025 monitoring events, indicating that the system has been operational approximately 50 percent of the year to date.

Conclusion

Simcoe will continue to conduct regular monitoring and sampling at the Mudge B #012R SVE system. In the future, Simcoe may advance subsurface soil borings to verify closure standards are met.

Should you have any questions, please do not hesitate to contact me at 970-764-7356. Cottonwood appreciates the opportunity to provide services to Simcoe.

Sincerely,

Kyle D. Siesser

Kyle Siesser, P.G.
Cottonwood Consulting LLC

Attachments: Figure 1 – Site Map
Figure 2 – OVM Reading Results
Attachment 1 – SVE System Monitoring Data
Attachment 2 – HEAL Gas Sampling Laboratory Report

FIGURE 1

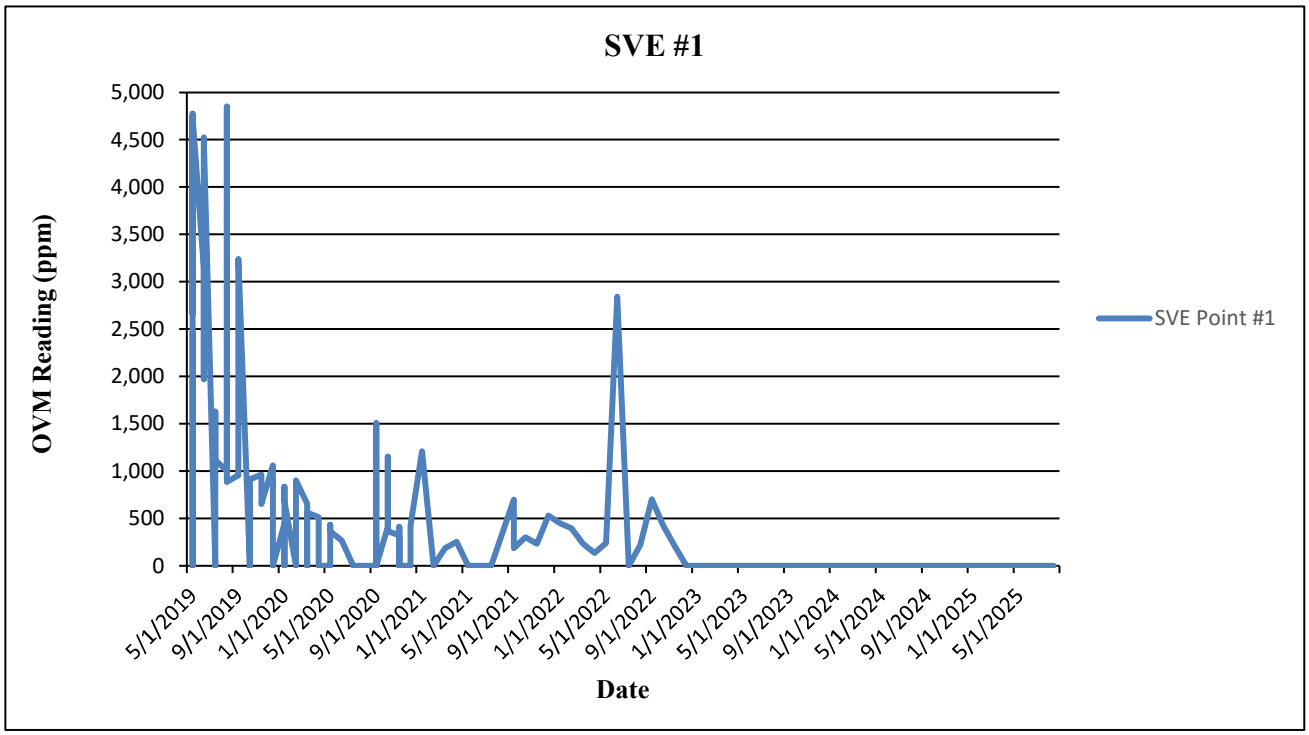
Mudge B 012R SVE Layout

API #30-045-10792
(A), S-17, T31N, R11W
SVE System GPS:
36.902742°, -108.008073°

FIGURE 2

Cottonwood CONSULTING

Mudge B #012R
SVE Monitoring Results
Simcoe LLC



Cottonwood CONSULTING

ATTACHMENT 1

Cottonwood CONSULTING

Mudge B #012R
SVE Monitoring Results
Simcoe LLC

Date	SVE Point	Exhaust OVM (ppm)	Vacuum Pressure Upstream of Drum (inHg)	Vacuum Pressure Downstream of Drum (inHg)	System Run Time	System Operational at Arrival	Water Drained	Water Drained (gal)	Comments
5/9/2019	#1	2,467	2.21	-	-	NO	NO	-	Initial start up
5/13/2019	#1	-	-	-	-	NO	NO	-	Generator not operational.
5/16/2019	#1	-	-	-	-	NO	NO	-	Generator not operational (2nd visit)
5/16/2019	#1	-	-	-	-	NO	NO	-	Generator not operational (2nd visit)
5/24/2019	#1	4,133	-	-	-	YES	NO	-	Water level in drum not measured
5/28/2019	#1	4,776	3.24	-	-	YES	NO	-	
5/29/2019	#1	2,658	3.24	-	-	YES	NO	-	
5/30/2019	#1	3,158	3.24	-	-	YES	NO	-	
5/31/2019	#1	4,736	3.24	-	-	YES	NO	-	
6/4/2019	#1	3,146	3.24	-	28,539.3	YES	NO	-	
6/12/2019	#1	2,510	3.31	-	28,726.2	YES	NO	-	Water level in drum not measured
6/20/2019	#1	1,970	3.24	-	28,922.3	YES	NO	-	
6/28/2019	#1	4,526	3.38	-	29,110.6	YES	NO	-	
7/5/2019	#1	-	3.24	-	29,278.0	YES	YES	9.50	
7/11/2019	#1	1,629	3.31	-	29,426.2	YES	NO	-	Water level below drain plug
7/18/2019	#1	1,503	3.31	-	29,591.5	YES	NO	-	Dry drum
7/27/2019	#1	1,114	3.38	-	29,806.8	YES	NO	-	Water level below drain plug
8/9/2019	#1	1,004	3.38	-	30,120.4	YES	NO	-	Dry drum
8/14/2019	#1	1,691	3.38	-	30,240.0	YES	NO	-	Water level below drain plug
8/23/2019	#1	4,851	3.31	-	30,368.7	NO	NO	-	Generator not operational (GNO) at arrival; restarted, then collected readings, dry drum
8/28/2019	#1	886	3.31	-	30,422.1	YES	NO	-	Water level below drain plug
9/5/2019	#1	957	3.38	-	30,612.1	YES	NO	-	Water level below drain plug
9/12/2019	#1	1,200	3.38	-	30,725.9	NO	NO	-	GNO; restarted, then collected readings, water level below drain plug
9/18/2019	#1	1,437	3.38	-	30,731.8	NO	NO	-	GNO; restarted, then collected readings, water level below drain plug
9/25/2019	#1	3,242	3.38	-	NA	YES	NO	-	GNO 45 min. prior to arrival, system shut down after readings
10/1/2019	#1	-	-	-	NA	NO	NO	-	GNO; did not measure water in drum or restarted generator
10/8/2019	#1	-	-	-	30,733.9	NO	NO	-	GNO; restart only lasted 15 sec.; water level below drain plug
10/17/2019	#1	822	3.38	-	30,900.1	YES	YES	9.50	
10/23/2019	#1	-	-	-	30,991.7	NO	NO	-	GNO; did not measure water in drum or restarted generator
10/28/2019	#1	912	3.38	-	31,064.5	YES	YES	10.50	
11/1/2019	#1	963	3.38	-	31,165.0	YES	YES	14.00	
11/7/2019	#1	823	3.38	-	31,306.9	YES	YES	13.00	
11/14/2019	#1	775	3.38	-	31,473.9	YES	YES	14.00	
11/22/2019	#1	653	3.38	-	31,666.5	YES	YES	15.50	
12/4/2019	#1	1,062	3.38	-	31,949.9	NO	YES	25.50	Drained, restarted, then collected data after 5 min. running
12/12/2019	#1	894	3.38	-	32,142.6	YES	YES	22.00	
12/19/2019	#1	837	3.38	-	32,313.8	YES	YES	23.00	Drained, restarted at 2pm after collecting water samples
12/24/2019	#1	892	3.38	-	32,430.4	YES	YES	14.00	Drained, restarted
12/30/2019	#1	NA	3.46	-	32,573.4	YES	YES	18.50	Drained, restarted
1/4/2020	#1	446	3.46	-	32,692.8	YES	YES	17.00	Drained, restarted
1/9/2020	#1	NA	3.38	-	32,814.4	YES	YES	14.50	Drained, restarted
1/10/2020	#1	NA	-	-	NA	YES	NO	-	Unintentionally left inlet valve open, did not measure water in drum
1/15/2020	#1	NA	3.38	-	32,959.5	YES	YES	17.00	Drained, restarted
1/25/2020	#1	834	3.53	-	33,200.6	NO	YES	26.00	Drained, restarted, then collected data after 12 min. running
1/30/2020	#1	683	3.38	-	33,322.0	YES	YES	14.00	Drained, restarted
2/5/2020	#1	NA	3.38	-	33,462.4	YES	YES	17.00	Drained, restarted
2/13/2020	#1	NA	-	-	33,631.0	NO	YES	15.50	GNO; could not restart generator
2/26/2020	#1	NA	-	-	33,653.0	NO	NO	-	GNO; water below drain port, could not restrart
2/28/2020	#1	903	3.38	-	33,674.3	YES	YES	4.00	Drained, restarted
3/5/2020	#1	656	3.38	-	33,818.1	YES	NO	-	Drained, restarted

Cottonwood CONSULTING

Mudge B #012R
SVE Monitoring Results
Simcoe LLC

Date	SVE Point	Exhaust OVM (ppm)	Vacuum Pressure Upstream of Drum (inHg)	Vacuum Pressure Downstream of Drum (inHg)	System Run Time	System Operational at Arrival	Water Drained	Water Drained (gal)	Comments
3/12/2020	#1	NA	3.53	-	33,985.1	YES	NO	-	Unintentionally left inlet valve open
3/25/2020	#1	NA	3.38	-	34,297.5	YES	YES	23.50	Drained, restarted
3/31/2020	#1	560	3.38	-	34,440.1	YES	YES	9.50	Drained, restarted
4/14/2020	#1	512	3.38	-	34,778.8	YES	YES	15.50	Drained, restarted
4/29/2020	#1	NA	3.38	-	35,027.0	YES	YES	8.00	Drained, restarted
5/8/2020	#1	NA	3.38	-	35,240.6	YES	NO	-	Dry drum
5/22/2020	#1	431	3.38	-	35,576.7	YES	YES	5.50	Drained, restarted
5/28/2020	#1	364	3.38	-	35,721.0	YES	NO	-	Water in drum not measured
6/25/2020	#1	266	3.31	-	-	YES	NO	-	Water in drum below drain port
7/30/2020	#1	NA	-	-	-	NO	NO	-	GNO; water below drain port, could not restrart
8/25/2020	#1	NA	-	-	-	NO	NO	-	GNO; could not restart generator
8/31/2020	#1	NA	-	-	-	NO	NO	-	GNO; could not restart generator
9/17/2020	#1	NA	-	-	-	NO	NO	-	GNO; could not restart generator
9/23/2020	#1	1,506	3.38	-	36,781.5	NO	NO	-	GNO; restarted, then collected readings, dry drum
9/29/2020	#1	NA	-	-	-	NO	NO	-	GNO; restarted, generator shut down < 5 minutes after restart
10/6/2020	#1	409	3.31	-	36,946.0	YES	NO	-	Water in drum below drain port
10/13/2020	#1	1,151	3.38	-	37,113.3	YES	NO	2.00	
10/23/2020	#1	363	3.31	-	37,356.8	YES	YES	5.50	
11/3/2020	#1	320	3.38	-	37,617.7	YES	NO	-	Water in drum just above drain port
11/12/2020	#1	NA	3.38	-	37,832.3	YES	YES	15.50	
11/16/2020	#1	412	3.38	-	37,931.9	YES	YES	6.50	
11/23/2020	#1	NA	3.38	-	38,100.4	YES	YES	7.00	
12/2/2020	#1	NA	3.46	-	38,317.7	YES	YES	21.00	
12/10/2020	#1	NA	3.38	-	38,503.9	YES	YES	20.50	
12/16/2020	#1	NA	3.53	-	38,650.3	YES	YES	18.50	
12/22/2020	#1	425	3.46	-	38,792.6	YES	YES	16.00	
1/14/2021	#1	1210	-	-	-	YES	-	-	
2/5/2021	#1	-	-	-	-	NO	-	-	System not operational
3/29/2021	#1	185.6	-	-	-	YES	-	-	
4/14/2021	#1	253.2	-	-	-	YES	-	-	
5/7/2021	#1	-	-	-	-	NO	-	-	System not operational
6/8/2021	#1	-	-	-	-	NO	-	-	System not operational
7/9/2021	#1	-	-	-	-	NO	-	-	System not operational
9/15/2021	#1	699.8	3.24	1.4	-	YES	NO	-	Dry drum; mechanic on site to repair generator
9/29/2021	#1	185.2	3.24	1.7	-	YES	NO	-	Water in drum below drain port
10/11/2021	#1	301.6	3.24	1.8	-	YES	YES	2.47	
11/6/2021	#1	232.6	3.24	1.7	-	YES	YES	2.47	
12/13/2021	#1	530.0	3.24	1.7	-	YES	YES	13.16	
1/4/2022	#1	448.5	3.46	2.1	-	NO	YES	27.15	Drained drum into buckets. Transferred to pit.
2/8/2022	#1	396.5	3.38	2.0	-	YES	YES	15.60	
3/7/2022	#1	231.8	3.38	1.9	-	YES	NO	-	Drum appeared to have been drained prior to arrived
4/7/2022	#1	136.4	3.38	2.2	-	YES	YES	0.82	
5/2/2022	#1	240.6	3.38	2.0	-	YES	YES	1.65	
6/9/2022	#1	2,841.0	3.31	2.0	-	YES	NO	-	
7/5/2022	#1	-	-	-	-	NO	NO	-	Generator down
8/17/2022	#1	219.5	3.38	2.1	-	YES	NO	-	
9/15/2022	#1	703.5	3.46	2.2	-	YES	NO	-	
10/12/2022	#1	420.7	3.38	2.1	-	YES	NO	-	
11/10/2022	#1	204.1	3.46	2.2	-	YES	YES	3.29	
12/15/2022	#1	-	-	-	-	NO	YES	0.82	SVE wont turn on. Generator not running.

Cottonwood CONSULTING

Mudge B #012R
SVE Monitoring Results
Simcoe LLC

Date	SVE Point	Exhaust OVM (ppm)	Vacuum Pressure Upstream of Drum (inHg)	Vacuum Pressure Downstream of Drum (inHg)	System Run Time	System Operational at Arrival	Water Drained	Water Drained (gal)	Comments
1/12/2023	#1	-	-	-	-	NO	NO	-	Drain frozen, unable to drain. SVE not operational.
2/9/2023	#1	0.2	-	-	-	NO	NO	-	Attemped to restart system. System wont start, drum frozen.
3/10/2023	#1	-	-	-	-	-	-	-	Unable to access site
4/6/2023	#1	204.7	3.24	2.2	-	YES	YES	2.47	
5/3/2023	#1	122.3	3.24	2.1	-	YES	YES	0.82	
6/6/2023	#1	101.1	3.24	2.1	-	YES	NO	-	
7/7/2023	#1	99.3	3.24	2.2	-	YES	NO	-	
8/9/2023	#1	75.9	3.24	2.2	-	YES	NO	-	
9/7/2023	#1	42.8	3.24	2.2	-	YES	NO	-	
10/18/2023	#1	103.6	3.31	2.2	-	YES	YES	3.70	
11/14/2023	#1	35.7	3.38	0.9	-	YES	YES	18.10	Drum is leaking at PVC connection.
12/14/2023	#1	180.6	2.94	0.7	-	YES	YES	3.29	
1/15/2024	#1	84.4	2.06	0.6	-	NO	NO	-	Restarted system, drum was frozen.
2/14/2024	#1	36.7	2.5	2.5	-	YES	NO	-	Drum was frozen
3/11/2024	#1	41.3	2.5	2.5	-	YES	YES	11.93	Drum has hole, needs to be replaced.
4/8/2024	#1	256.3	2.5	2.5	-	YES	YES	5.76	Small leak when system is off.
5/6/2024	#1	26.7	2.5	2.5	-	YES	YES	7.41	Tightened gasket, gasket is cracked. Minor condensation observed after tightening.
6/12/2024	#1	36.7	2.5	2.5	-	YES	NO	-	
7/5/2024	#1	25.3	2.5	2.5	-	YES	NO	-	Drum dry
8/7/2024	#1	19.5	2.5	2.5	-	YES	NO	-	Drum dry
9/17/2024	#1	19.9	2.5	2.5	-	YES	NO	-	
10/3/2024	#1	7.6	2.5	2.5	-	YES	NO	-	
11/11/2024	#1	19.8	2.5	2.5	-	NO	YES	26.33	
12/10/2024	#1	30.0	2.5	2.5	-	YES	YES	4.94	
1/7/2025	#1	25.5	3.5	3.5	-	NO	YES	29.21	Drum was partially frozen, could only drain 50%.
2/19/2025	#1	27.3	3.5	3.5	-	NO	NO	-	Frozen completely solid.
3/25/2025	#1	9.2	2.5	2.5	-	NO	YES	17.69	System not operational on arrival, system restarted.
4/8/2025	#1	5.3	2.5	2.5	-	YES	YES	5.76	
5/13/2025	#1	33.5	2.5	2.5	-	YES	YES	4.94	
6/17/2025	#1	29.2	2.5	2.5	-	YES	NO	-	
7/21/2025	#1	-	0.00	0	-	NO	NO	-	System off on arrival, could not restart system.
8/11/2025	#1	27.0	2.5	2.5	-	YES	NO	-	

Notes:
SVE - soil vapor extraction
OVM - organic vapor meter
ppm - parts per million
in - inches
cfm - cubic feet per minute
gal - gallons
NA - Not Applicable

Cottonwood CONSULTING

ATTACHMENT 2

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Kyle Siesser
Cottonwood Consulting LLC
PO BOX 1653
Durango, Colorado 81302

Generated 6/26/2025 2:08:57 PM

JOB DESCRIPTION

Mudge A #2

JOB NUMBER

885-27099-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
6/26/2025 2:08:57 PM

Authorized for release by
Cheyenne Cason, Project Manager
cheyenne.cason@et.eurofinsus.com
(505)338-8812

Client: Cottonwood Consulting LLC
Project/Site: Mudge A #2

Laboratory Job ID: 885-27099-1

Table of Contents

Definitions/Glossary

Client: Cottonwood Consulting LLC Job ID: 885-27099-1
Project/Site: Mudge A #2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Cottonwood Consulting LLC
Project: Mudge A #2

Job ID: 885-27099-1

Job ID: 885-27099-1 Eurofins Albuquerque

Job Narrative
885-27099-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 6/19/2025 6:45 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice.

Subcontract Work
Method Natural Gases O2, CO2: This method was subcontracted to Energy Laboratories, Inc. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

GC/MS VOA
Method 8260B: The following sample was diluted due to the nature of the sample matrix: SVE (885-27099-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Cottonwood Consulting LLC

Job ID: 885-27099-1

Project/Site: Mudge A #2

Client Sample ID: SVE

Lab Sample ID: 885-27099-1

Date Collected: 06/18/25 09:45

Matrix: Air

Date Received: 06/19/25 06:45

Sample Container: Tedlar Bag 1L

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.20		ug/L			06/25/25 14:50	2
1,1,1-Trichloroethane	ND		0.20		ug/L			06/25/25 14:50	2
1,1,2,2-Tetrachloroethane	ND		0.40		ug/L			06/25/25 14:50	2
1,1,2-Trichloroethane	ND		0.20		ug/L			06/25/25 14:50	2
1,1-Dichloroethane	ND		0.20		ug/L			06/25/25 14:50	2
1,1-Dichloroethene	ND		0.20		ug/L			06/25/25 14:50	2
1,1-Dichloropropene	ND		0.20		ug/L			06/25/25 14:50	2
1,2,3-Trichlorobenzene	ND		0.20		ug/L			06/25/25 14:50	2
1,2,3-Trichloropropane	ND		0.40		ug/L			06/25/25 14:50	2
1,2,4-Trichlorobenzene	ND		0.20		ug/L			06/25/25 14:50	2
1,2,4-Trimethylbenzene	ND		0.20		ug/L			06/25/25 14:50	2
1,2-Dibromo-3-Chloropropane	ND		0.40		ug/L			06/25/25 14:50	2
1,2-Dibromoethane (EDB)	ND		0.20		ug/L			06/25/25 14:50	2
1,2-Dichlorobenzene	ND		0.20		ug/L			06/25/25 14:50	2
1,2-Dichloroethane (EDC)	ND		0.20		ug/L			06/25/25 14:50	2
1,2-Dichloropropane	ND		0.20		ug/L			06/25/25 14:50	2
1,3,5-Trimethylbenzene	ND		0.20		ug/L			06/25/25 14:50	2
1,3-Dichlorobenzene	ND		0.20		ug/L			06/25/25 14:50	2
1,3-Dichloropropane	ND		0.20		ug/L			06/25/25 14:50	2
1,4-Dichlorobenzene	ND		0.20		ug/L			06/25/25 14:50	2
1-Methylnaphthalene	ND		0.80		ug/L			06/25/25 14:50	2
2,2-Dichloropropane	ND		0.40		ug/L			06/25/25 14:50	2
2-Butanone	ND		2.0		ug/L			06/25/25 14:50	2
2-Chlorotoluene	ND		0.20		ug/L			06/25/25 14:50	2
2-Hexanone	ND		2.0		ug/L			06/25/25 14:50	2
2-Methylnaphthalene	ND		0.80		ug/L			06/25/25 14:50	2
4-Chlorotoluene	ND		0.20		ug/L			06/25/25 14:50	2
4-Isopropyltoluene	ND		0.20		ug/L			06/25/25 14:50	2
4-Methyl-2-pentanone	ND		2.0		ug/L			06/25/25 14:50	2
Acetone	ND		2.0		ug/L			06/25/25 14:50	2
Benzene	ND		0.20		ug/L			06/25/25 14:50	2
Bromobenzene	ND		0.20		ug/L			06/25/25 14:50	2
Bromodichloromethane	ND		0.20		ug/L			06/25/25 14:50	2
Dibromochloromethane	ND		0.20		ug/L			06/25/25 14:50	2
Bromoform	ND		0.20		ug/L			06/25/25 14:50	2
Bromomethane	ND		0.60		ug/L			06/25/25 14:50	2
Carbon disulfide	ND		2.0		ug/L			06/25/25 14:50	2
Carbon tetrachloride	ND		0.20		ug/L			06/25/25 14:50	2
Chlorobenzene	ND		0.20		ug/L			06/25/25 14:50	2
Chloroethane	ND		0.40		ug/L			06/25/25 14:50	2
Chloroform	ND		0.20		ug/L			06/25/25 14:50	2
Chloromethane	ND		0.60		ug/L			06/25/25 14:50	2
cis-1,2-Dichloroethene	ND		0.20		ug/L			06/25/25 14:50	2
cis-1,3-Dichloropropene	ND		0.20		ug/L			06/25/25 14:50	2
Dibromomethane	ND		0.20		ug/L			06/25/25 14:50	2
Dichlorodifluoromethane	ND		0.20		ug/L			06/25/25 14:50	2
Ethylbenzene	ND		0.20		ug/L			06/25/25 14:50	2
Hexachlorobutadiene	ND		0.20		ug/L			06/25/25 14:50	2

Client Sample Results

Client: Cottonwood Consulting LLC
Project/Site: Mudge A #2

Job ID: 885-27099-1

Client Sample ID: SVE

Lab Sample ID: 885-27099-1

Date Collected: 06/18/25 09:45
Date Received: 06/19/25 06:45
Sample Container: Tedlar Bag 1L

Matrix: Air

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.20		ug/L			06/25/25 14:50	2
Methyl-tert-butyl Ether (MTBE)	ND		0.20		ug/L			06/25/25 14:50	2
Methylene Chloride	ND		0.60		ug/L			06/25/25 14:50	2
n-Butylbenzene	ND		0.60		ug/L			06/25/25 14:50	2
N-Propylbenzene	ND		0.20		ug/L			06/25/25 14:50	2
Naphthalene	ND		0.40		ug/L			06/25/25 14:50	2
sec-Butylbenzene	ND		0.20		ug/L			06/25/25 14:50	2
Styrene	ND		0.20		ug/L			06/25/25 14:50	2
tert-Butylbenzene	ND		0.20		ug/L			06/25/25 14:50	2
Tetrachloroethene (PCE)	ND		0.20		ug/L			06/25/25 14:50	2
Toluene	ND		0.20		ug/L			06/25/25 14:50	2
trans-1,2-Dichloroethene	ND		0.20		ug/L			06/25/25 14:50	2
trans-1,3-Dichloropropene	ND		0.20		ug/L			06/25/25 14:50	2
Trichloroethene (TCE)	ND		0.20		ug/L			06/25/25 14:50	2
Trichlorofluoromethane	ND		0.20		ug/L			06/25/25 14:50	2
Vinyl chloride	ND		0.20		ug/L			06/25/25 14:50	2
Xylenes, Total	ND		0.30		ug/L			06/25/25 14:50	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*06/25/25 14:50*	*2*
Toluene-d8 (Surr)	*100*		*70 - 130*		*06/25/25 14:50*	*2*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*06/25/25 14:50*	*2*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*06/25/25 14:50*	*2*

QC Sample Results

Client: Cottonwood Consulting LLC

Job ID: 885-27099-1

Project/Site: Mudge A #2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 885-28974/5

Client Sample ID: Method Blank

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 28974

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			06/25/25 13:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			06/25/25 13:27	1
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			06/25/25 13:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			06/25/25 13:27	1
1,1-Dichloroethane	ND		1.0		ug/L			06/25/25 13:27	1
1,1-Dichloroethene	ND		1.0		ug/L			06/25/25 13:27	1
1,1-Dichloropropene	ND		1.0		ug/L			06/25/25 13:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			06/25/25 13:27	1
1,2,3-Trichloropropane	ND		2.0		ug/L			06/25/25 13:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			06/25/25 13:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			06/25/25 13:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0		ug/L			06/25/25 13:27	1
1,2-Dibromoethane (EDB)	ND		1.0		ug/L			06/25/25 13:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			06/25/25 13:27	1
1,2-Dichloroethane (EDC)	ND		1.0		ug/L			06/25/25 13:27	1
1,2-Dichloropropane	ND		1.0		ug/L			06/25/25 13:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			06/25/25 13:27	1
1,3-Dichlorobenzene	ND		1.0		ug/L			06/25/25 13:27	1
1,3-Dichloropropane	ND		1.0		ug/L			06/25/25 13:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			06/25/25 13:27	1
1-Methylnaphthalene	ND		4.0		ug/L			06/25/25 13:27	1
2,2-Dichloropropane	ND		2.0		ug/L			06/25/25 13:27	1
2-Butanone	ND		10		ug/L			06/25/25 13:27	1
2-Chlorotoluene	ND		1.0		ug/L			06/25/25 13:27	1
2-Hexanone	ND		10		ug/L			06/25/25 13:27	1
2-Methylnaphthalene	ND		4.0		ug/L			06/25/25 13:27	1
4-Chlorotoluene	ND		1.0		ug/L			06/25/25 13:27	1
4-Isopropyltoluene	ND		1.0		ug/L			06/25/25 13:27	1
4-Methyl-2-pentanone	ND		10		ug/L			06/25/25 13:27	1
Acetone	ND		10		ug/L			06/25/25 13:27	1
Benzene	ND		1.0		ug/L			06/25/25 13:27	1
Bromobenzene	ND		1.0		ug/L			06/25/25 13:27	1
Bromodichloromethane	ND		1.0		ug/L			06/25/25 13:27	1
Dibromochloromethane	ND		1.0		ug/L			06/25/25 13:27	1
Bromoform	ND		1.0		ug/L			06/25/25 13:27	1
Bromomethane	ND		3.0		ug/L			06/25/25 13:27	1
Carbon disulfide	ND		10		ug/L			06/25/25 13:27	1
Carbon tetrachloride	ND		1.0		ug/L			06/25/25 13:27	1
Chlorobenzene	ND		1.0		ug/L			06/25/25 13:27	1
Chloroethane	ND		2.0		ug/L			06/25/25 13:27	1
Chloroform	ND		1.0		ug/L			06/25/25 13:27	1
Chloromethane	ND		3.0		ug/L			06/25/25 13:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			06/25/25 13:27	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			06/25/25 13:27	1
Dibromomethane	ND		1.0		ug/L			06/25/25 13:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			06/25/25 13:27	1
Ethylbenzene	ND		1.0		ug/L			06/25/25 13:27	1
Hexachlorobutadiene	ND		1.0		ug/L			06/25/25 13:27	1

QC Sample Results

Client: Cottonwood Consulting LLC

Job ID: 885-27099-1

Project/Site: Mudge A #2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 885-28974/5
Matrix: Air
Analysis Batch: 28974

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			06/25/25 13:27	1
Methyl-tert-butyl Ether (MTBE)	ND		1.0		ug/L			06/25/25 13:27	1
Methylene Chloride	ND		3.0		ug/L			06/25/25 13:27	1
n-Butylbenzene	ND		3.0		ug/L			06/25/25 13:27	1
N-Propylbenzene	ND		1.0		ug/L			06/25/25 13:27	1
Naphthalene	ND		2.0		ug/L			06/25/25 13:27	1
sec-Butylbenzene	ND		1.0		ug/L			06/25/25 13:27	1
Styrene	ND		1.0		ug/L			06/25/25 13:27	1
tert-Butylbenzene	ND		1.0		ug/L			06/25/25 13:27	1
Tetrachloroethene (PCE)	ND		1.0		ug/L			06/25/25 13:27	1
Toluene	ND		1.0		ug/L			06/25/25 13:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			06/25/25 13:27	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			06/25/25 13:27	1
Trichloroethene (TCE)	ND		1.0		ug/L			06/25/25 13:27	1
Trichlorofluoromethane	ND		1.0		ug/L			06/25/25 13:27	1
Vinyl chloride	ND		1.0		ug/L			06/25/25 13:27	1
Xylenes, Total	ND		1.5		ug/L			06/25/25 13:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*06/25/25 13:27*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*06/25/25 13:27*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*06/25/25 13:27*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*06/25/25 13:27*	*1*

Lab Sample ID: LCS 885-28974/4
Matrix: Air
Analysis Batch: 28974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			20.0	18.5		ug/L		92	70 - 130		
Benzene			20.0	24.1		ug/L		121	70 - 130		
Chlorobenzene			20.0	21.1		ug/L		105	70 - 130		
Toluene			20.0	20.9		ug/L		104	70 - 130		
Trichloroethene (TCE)			20.0	18.5		ug/L		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*97*		*70 - 130*

QC Association Summary

Client: Cottonwood Consulting LLC
Job ID: 885-27099-1
Project/Site: Mudge A #2

GC/MS VOA

Analysis Batch: 28974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-27099-1	SVE	Total/NA	Air	8260B	
MB 885-28974/5	Method Blank	Total/NA	Air	8260B	
LCS 885-28974/4	Lab Control Sample	Total/NA	Air	8260B	

Lab Chronicle

Client: Cottonwood Consulting LLC
Project/Site: Mudge A #2

Job ID: 885-27099-1

Client Sample ID: SVE

Lab Sample ID: 885-27099-1

Date Collected: 06/18/25 09:45
Date Received: 06/19/25 06:45

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260B		2	28974	JP	EET ALB	06/25/25 14:50

Laboratory References:

= , 1120 South 27th Street, Billings, MT 59101, TEL (406)252-6325

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Cottonwood Consulting LLC Job ID: 885-27099-1
Project/Site: Mudge A #2

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-27-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene
8260B		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane
8260B		Air	Dibromomethane

Accreditation/Certification Summary

Client: Cottonwood Consulting LLC Job ID: 885-27099-1
Project/Site: Mudge A #2

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Air	Dichlorodifluoromethane
8260B		Air	Ethylbenzene
8260B		Air	Hexachlorobutadiene
8260B		Air	Isopropylbenzene
8260B		Air	Methylene Chloride
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene
8260B		Air	n-Butylbenzene
8260B		Air	N-Propylbenzene
8260B		Air	sec-Butylbenzene
8260B		Air	Styrene
8260B		Air	tert-Butylbenzene
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene
8260B		Air	trans-1,2-Dichloroethene
8260B		Air	trans-1,3-Dichloropropene
8260B		Air	Trichloroethene (TCE)
8260B		Air	Trichlorofluoromethane
8260B		Air	Vinyl chloride
8260B		Air	Xylenes, Total

Oregon	NELAP	NM100001	02-26-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Air	1,1,1,2-Tetrachloroethane
8260B		Air	1,1,1-Trichloroethane
8260B		Air	1,1,2,2-Tetrachloroethane
8260B		Air	1,1,2-Trichloroethane
8260B		Air	1,1-Dichloroethane
8260B		Air	1,1-Dichloroethene
8260B		Air	1,1-Dichloropropene
8260B		Air	1,2,3-Trichlorobenzene
8260B		Air	1,2,3-Trichloropropane
8260B		Air	1,2,4-Trichlorobenzene
8260B		Air	1,2,4-Trimethylbenzene
8260B		Air	1,2-Dibromo-3-Chloropropane
8260B		Air	1,2-Dibromoethane (EDB)
8260B		Air	1,2-Dichlorobenzene
8260B		Air	1,2-Dichloroethane (EDC)
8260B		Air	1,2-Dichloropropane
8260B		Air	1,3,5-Trimethylbenzene
8260B		Air	1,3-Dichlorobenzene
8260B		Air	1,3-Dichloropropane
8260B		Air	1,4-Dichlorobenzene
8260B		Air	1-Methylnaphthalene
8260B		Air	2,2-Dichloropropane

Accreditation/Certification Summary

Client: Cottonwood Consulting LLC Job ID: 885-27099-1
Project/Site: Mudge A #2

Laboratory: Eurofins Albuquerque (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260B		Air	2-Butanone
8260B		Air	2-Chlorotoluene
8260B		Air	2-Hexanone
8260B		Air	2-Methylnaphthalene
8260B		Air	4-Chlorotoluene
8260B		Air	4-Isopropyltoluene
8260B		Air	4-Methyl-2-pentanone
8260B		Air	Acetone
8260B		Air	Benzene
8260B		Air	Bromobenzene
8260B		Air	Bromodichloromethane
8260B		Air	Bromoform
8260B		Air	Bromomethane
8260B		Air	Carbon disulfide
8260B		Air	Carbon tetrachloride
8260B		Air	Chlorobenzene
8260B		Air	Chloroethane
8260B		Air	Chloroform
8260B		Air	Chloromethane
8260B		Air	cis-1,2-Dichloroethene
8260B		Air	cis-1,3-Dichloropropene
8260B		Air	Dibromochloromethane
8260B		Air	Dibromomethane
8260B		Air	Dichlorodifluoromethane
8260B		Air	Ethylbenzene
8260B		Air	Hexachlorobutadiene
8260B		Air	Isopropylbenzene
8260B		Air	Methylene Chloride
8260B		Air	Methyl-tert-butyl Ether (MTBE)
8260B		Air	Naphthalene
8260B		Air	n-Butylbenzene
8260B		Air	N-Propylbenzene
8260B		Air	sec-Butylbenzene
8260B		Air	Styrene
8260B		Air	tert-Butylbenzene
8260B		Air	Tetrachloroethene (PCE)
8260B		Air	Toluene
8260B		Air	trans-1,2-Dichloroethene
8260B		Air	trans-1,3-Dichloropropene
8260B		Air	Trichloroethene (TCE)
8260B		Air	Trichlorofluoromethane
8260B		Air	Vinyl chloride
8260B		Air	Xylenes, Total

ENERGY LABORATORIES
Trust our People. Trust our Data.
www.energylab.com
Billings, MT 406.252.6325 • Casper, WY 307.235.0515
Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

ANALYTICAL SUMMARY REPORT

June 23, 2025

Eurofins TestAmerica - Albuquerque
4901 Hawkins St NE Ste D
Albuquerque, NM 87109-4372

Work Order: B25061898 Quote ID: B15626

Project Name: 88501577, Mudge A #2

Energy Laboratories Inc Billings MT received the following 1 sample for Eurofins TestAmerica - Albuquerque on 6/20/2025 for analysis.

Lab ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
B25061898-001	SVE (885-27099-1)	06/18/25 9:45	06/20/25	Air	Air Correction Calculations Appearance and Comments Calculated Properties GPM @ std cond,/1000 cu. ft., moist. Free Natural Gas Analysis Specific Gravity @ 60/60

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 So. 27th Street, Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

Energy Laboratories, Inc. verifies the reported results for the analysis has been technically reviewed and approved for release.

If you have any questions regarding these test results, please contact your Project Manager.

ENERGY LABORATORIES
Trust our People. Trust our Data.
www.energylab.com
Billings, MT 406.252.6325 • Casper, WY 307.235.0515
Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Eurofins TestAmerica - Albuquerque
Project: 88501577, Mudge A #2
Lab ID: B25061898-001
Client Sample ID: SVE (885-27099-1)

Report Date: 06/23/25
Collection Date: 06/18/25 09:45
DateReceived: 06/20/25
Matrix: Air

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
GAS CHROMATOGRAPHY ANALYSIS REPORT							
Oxygen	22.04	Mol %		0.01		GPA 2261-13	06/23/25 09:51 / jrj
Nitrogen	77.90	Mol %		0.01		GPA 2261-13	06/23/25 09:51 / jrj
Carbon Dioxide	0.06	Mol %		0.01		GPA 2261-13	06/23/25 09:51 / jrj
Hydrogen Sulfide	<0.01	Mol %		0.01		GPA 2261-13	06/23/25 09:51 / jrj
Methane	<0.01	Mol %		0.01		GPA 2261-13	06/23/25 09:51 / jrj
Ethane	<0.01	Mol %		0.01		GPA 2261-13	06/23/25 09:51 / jrj
Propane	<0.01	Mol %		0.01		GPA 2261-13	06/23/25 09:51 / jrj
Isobutane	<0.01	Mol %		0.01		GPA 2261-13	06/23/25 09:51 / jrj
n-Butane	<0.01	Mol %		0.01		GPA 2261-13	06/23/25 09:51 / jrj
Isopentane	<0.01	Mol %		0.01		GPA 2261-13	06/23/25 09:51 / jrj
n-Pentane	<0.01	Mol %		0.01		GPA 2261-13	06/23/25 09:51 / jrj
Hexanes plus	<0.01	Mol %		0.01		GPA 2261-13	06/23/25 09:51 / jrj
Propane	< 0.001	gpm		0.001		GPA 2261-13	06/23/25 09:51 / jrj
Isobutane	< 0.001	gpm		0.001		GPA 2261-13	06/23/25 09:51 / jrj
n-Butane	< 0.001	gpm		0.001		GPA 2261-13	06/23/25 09:51 / jrj
Isopentane	< 0.001	gpm		0.001		GPA 2261-13	06/23/25 09:51 / jrj
n-Pentane	< 0.001	gpm		0.001		GPA 2261-13	06/23/25 09:51 / jrj
Hexanes plus	< 0.001	gpm		0.001		GPA 2261-13	06/23/25 09:51 / jrj
GPM Total	< 0.001	gpm		0.001		GPA 2261-13	06/23/25 09:51 / jrj
GPM Pentanes plus	< 0.001	gpm		0.001		GPA 2261-13	06/23/25 09:51 / jrj
CALCULATED PROPERTIES							
Gross BTU per cu ft @ Std Cond. (HHV)	ND			1		GPA 2261-13	06/23/25 09:51 / jrj
Net BTU per cu ft @ std cond. (LHV)	ND			1		GPA 2261-13	06/23/25 09:51 / jrj
Pseudo-critical Pressure, psia	546			1		GPA 2261-13	06/23/25 09:51 / jrj
Pseudo-critical Temperature, deg R	239			1		GPA 2261-13	06/23/25 09:51 / jrj
Specific Gravity @ 60/60F	0.998			0.001		D3588-81	06/23/25 09:51 / jrj
Air, %	100.71			0.01		GPA 2261-13	06/23/25 09:51 / jrj
- The analysis was not corrected for air.							
COMMENTS							
-						-	06/23/25 09:51 / jrj

- BTU, GPM, and specific gravity are corrected for deviation from ideal gas behavior.
- GPM = gallons of liquid at standard conditions per 1000 cu. ft. of moisture free gas @ standard conditions.
- To convert BTU to a water-saturated basis @ standard conditions, multiply by 0.9825.
- Standard conditions: 60 F & 14.73 psi on a dry basis.

Report Definitions:
RL - Analyte Reporting Limit
QCL - Quality Control Limit
MCL - Maximum Contaminant Level
ND - Not detected at the Reporting Limit (RL)

ENERGY LABORATORIES
Trust our People. Trust our Data.
www.energylab.com
Billings, MT 406.252.6325 • Casper, WY 307.235.0515
Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

QA/QC Summary Report

Prepared by Billings, MT Branch

Work Order: B25061898 **Report Date:** 06/23/25

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: GPA 2261-13										Batch: R444612
Lab ID: B25061899-001ADUP	12	Sample Duplicate				Run: GC7890_250623A				06/23/25 11:30
Oxygen		21.9	Mol %	0.01				0.3	20	
Nitrogen		77.9	Mol %	0.01				0.1	20	
Carbon Dioxide		0.24	Mol %	0.01				0.0	20	
Hydrogen Sulfide		<0.01	Mol %	0.01					20	
Methane		<0.01	Mol %	0.01					20	
Ethane		<0.01	Mol %	0.01					20	
Propane		<0.01	Mol %	0.01					20	
Isobutane		<0.01	Mol %	0.01					20	
n-Butane		<0.01	Mol %	0.01					20	
Isopentane		<0.01	Mol %	0.01					20	
n-Pentane		<0.01	Mol %	0.01					20	
Hexanes plus		<0.01	Mol %	0.01					20	

Qualifiers:

RL - Analyte Reporting Limit

ND - Not detected at the Reporting Limit (RL)

ENERGY LABORATORIES Trust our People. Trust our Data. www.energylab.com
Billings, MT 406.252.6325 • Casper, WY 307.235.0515
Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

Work Order Receipt Checklist

Eurofins TestAmerica - Albuquerque B25061898

Login completed by: Natasha L. Anthony Date Received: 6/20/2025
Reviewed by: dharris Received by: ET
Reviewed Date: 6/23/2025 Carrier name: FedEx NDA

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all shipping container(s)/cooler(s)?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on all sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes ☑	No ☐	
Temp Blank received in all shipping container(s)/cooler(s)?	Yes ☐	No ☑	Not Applicable ☐
Container/Temp Blank temperature:	17.6°C No Ice		
Containers requiring zero headspace have no headspace or bubble that is <6mm (1/4").	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

The reference date for Radon analysis is the sample collection date. The reference date for all other Radiochemical analyses is the analysis date. Radiochemical precision results represent a 2-sigma Total Measurement Uncertainty.

For methods that require zero headspace or require preservation check at the time of analysis due to potential interference, the pH is verified at analysis. Nonconforming sample pH is documented as part of the analysis and included in the sample analysis comments.

Trip Blanks and/or Blind Duplicate samples are assigned the earliest collection time for the associated requested analysis in order to evaluate the holding time unless specifically indicated.

Contact and Corrective Action Comments:

None

ENERGY LABORATORIES
Trust our People. Trust our Data.
www.energylab.com
Billings, MT 406.252.6325 • Casper, WY 307.235.0515
Gillette, WY 307.686.7175 • Helena, MT 406.442.0711

Laboratory Certifications and Accreditations

Current certificates are available at www.energylab.com website:

	Agency	Number
Billings, MT	Alaska	17-023
	California	3087
	Colorado	MT00005
	Department of Defense (DoD)/ISO17025	ADE-2588
	Florida (Primary NELAP)	E87668
	Idaho	MT00005
	Louisiana	05079
	Montana	CERT0044
	Nebraska	NE-OS-13-04
	Nevada	NV-C24-00250
	North Dakota	R-007
	National Radon Proficiency	109383-RMP
	Oregon	4184
	South Dakota	ARSD 74:04:07
	Texas	TX-C24-00302
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00170
	Washington	C1039
Casper, WY	Alaska	20-006
	California	3021
	Colorado	WY00002
	Florida (Primary NELAP)	E87641
	Idaho	WY00002
	Louisiana	05083
	Montana	CERT0002
	Nebraska	NE-OS-08-04
	Nevada	NV-C24-00245
	North Dakota	R-125
	Oregon	WY200001
	South Dakota	WY00002
	Texas	T104704181-23-21
	US EPA Region VIII	WY00002
	USNRC License	49-26846-01
	Washington	C1012
Gillette, WY	US EPA Region VIII	WY00006
Helena, MT	Colorado	MT00945
	Montana	CERT0079
	Nevada	NV-C24-00119
	US EPA Region VIII	Reciprocal
	USDA Soil Permit	P330-20-00090

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque, NM 87109
Phone: 505-345-3975 Fax: 505-345-4107

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Cason, Cheyenne	Carrier Tracking No(s): N/A	COC No: 885-5407.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: cheyenne.cason@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Energy Laboratories, Inc.		Accreditations Required (See note): NELAP - Oregon; State - New Mexico		Job #: 885-27099-1
Address: 1120 South 27th Street, ,	Due Date Requested: 6/26/2025			Preservation Codes: -
City: Billings	TAT Requested (days): N/A			
State, Zip: MT, 59101				
Phone: 406-252-6325(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Mudge A #2	Project #: 88501577			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB - GPA-226195 - Natural Gases O2, CO2	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
SVE (885-27099-1)	6/18/25	09:45 Mountain	G	Air			X	1	See Attached Instructions B550618098

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		6/19/25 1335				
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by: Elly Thompson	Date/Time: 6/20/25 10:25	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

ICOC No:
885-5407

Containers

Count	Container Type	Preservative
1	Tedlar Bag 1L	None

Subcontract Method Instructions

Sample IDs	Method	Method Description	Method Comments
1	SUBCONTRACT	SUB - GPA-226195 - Natural Gases O2, CO2	Fixed Gases - Natural Gases O2, CO2
		CO2	

Chain-of-Custody Record

Client: Cottonwood Consulting LLC

Mailing Address: PO Box 1653
Durango, CO 81302

Phone #: 970-764-7356

email or Fax#: ksiesser@cottonwoodconsulting.com

QA/QC Package
■ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
■ Standard ☐ Rush

Project Name: Mudge A #2

Project #:

Project Manager: Kyle Siesser

Sampler: Kelsey O'Brien
On Ice: ☐ Yes ☑ No
# of Coolers: 1
Cooler Temp(including CF): –

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-27099 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	TPH (8015)	CO2	O2			
6/18/25	0945	AIR	SVE	tedlar bag - 2	NA									■				■	■			

Date: 6/18/25 Time: 1422 Relinquished by:
Received by: Via: Date: 6/18/25 Time: 1422

Date: 6/18/25 Time: 1900 Relinquished by:
Received by: Via: Courier Date: 6/19/25 Time: 0745

Remarks:
please cc emillar@cottonwoodconsulting.com
kobrien@cottonwoodconsulting.com
jlafortune@cottonwoodconsulting.com
dsonger@cottonwoodconsulting.com

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Cottonwood Consulting LLC Job Number: 885-27099-1

Login Number: 27099 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 503004
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Report accepted for record.	10/16/2025
amaxwell	Include in subsequent report what actions were taken to ensure the SVE system remained operational.	10/16/2025