

RECEIVED

By Mike Buchanan at 10:59 am, Oct 03, 2023

**Mudge B 012 R
NCS1528741396
30-045-10792
2022 Annual SVE Report**

SIMCOE LLC - Mudge B 012R

Summary SVE System Monitoring Data

Date	SVE Pt.	Exhaust OVM (ppm)	Exhaust Vacuum (in)	Generator Run Time	System Operational at Time of Arrival?	H ₂ O Drained from drum?	H ₂ O Amt. Drained (Gal.)?	Comments
5/9/2019	#1	2,467	30	-	NO	NO		Initial start up
5/13/2019	#1	-	NA	-	NO	NO		Generator not operational.
5/16/2019	#1	-	NA	-	NO	NO		Generator not operational (2nd visit)
5/16/2019	#1	-	NA	-	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	44	-	YES	NO		
5/29/2019	#1	2,658	44	-	YES	NO		
5/30/2019	#1	3,158	44	-	YES	NO		
5/31/2019	#1	4,736	44	-	YES	NO		
6/4/2019	#1	3,146	44	28,539.3	YES	NO		
6/12/2019	#1	2,510	45	28,726.2	YES	NO		Water level in drum not measured
6/20/2019	#1	1,970	44	28,922.3	YES	NO		
6/28/2019	#1	4,526	46	29,110.6	YES	NO		
7/5/2019	#1	-	44	29,278.0	YES	YES	9.50	
7/11/2019	#1	1,629	45	29,426.2	YES	NO		Water level below drain plug
7/18/2019	#1	1,503	45	29,591.5	YES	NO		Dry drum
7/27/2019	#1	1,114	46	29,806.8	YES	NO		Water level below drain plug
8/9/2019	#1	1,004	46	30,120.4	YES	NO		Dry drum
8/14/2019	#1	1,691	46	30,240.0	YES	NO		Water level below drain plug
8/23/2019	#1	4,851	45	30,368.7	NO	NO		Generator not operational at time of arrival (GNO); restarted, then collected readings, dry drum
8/28/2019	#1	886	45	30,422.1	YES	NO		Water level below drain plug
9/5/2019	#1	957	46	30,612.1	YES	NO		Water level below drain plug
9/12/2019	#1	1,200	46	30,725.9	NO	NO		GNO; restarted, then collected readings, water level below drain plug
9/18/2019	#1	1,437	46	30,731.8	NO	NO		GNO; restarted, then collected readings, water level below drain plug
9/25/2019	#1	3,242	46	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	46	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	46	31,064.5	YES	YES	10.50	
11/1/2019	#1	963	46	31,165.0	YES	YES	14.00	

SIMCOE LLC - Mudge B 012R

Summary SVE System Monitoring Data

Date	SVE Pt.	Exhaust OVM (ppm)	Exhaust Vacuum (in)	Generator Run Time	System Operational at Time of Arrival?	H ₂ O Drained from drum?	H ₂ O Amt. Drained (Gal.)?	Comments
11/7/2019	#1	823	46	31,306.9	YES	YES	13.00	
11/14/2019	#1	775	46	31,473.9	YES	YES	14.00	
11/22/2019	#1	653	46	31,666.5	YES	YES	15.50	
12/4/2019	#1	1,062	46	31,949.9	NO	YES	25.50	Drained, restarted, then collected data after 5 min. running
12/12/2019	#1	894	46	32,142.6	YES	YES	22.00	
12/19/2019	#1	837	46	32,313.8	YES	YES	23.00	Drained, restarted at 2pm after collecting water samples
12/24/2019	#1	892	46	32,430.4	YES	YES	14.00	Drained, restarted
12/30/2019	#1	NA	47	32,573.4	YES	YES	18.50	Drained, restarted
1/4/2020	#1	446	47	32,692.8	YES	YES	17.00	Drained, restarted
1/9/2020	#1	NA	46	32,814.4	YES	YES	14.50	Drained, restarted
1/10/2020	#1	NA	NA	NA	YES	NO		Unintentionally left inlet valve open, did not measure water in drum
1/15/2020	#1	NA	46	32,959.5	YES	YES	17.00	Drained, restarted
1/25/2020	#1	834	48	33,200.6	NO	YES	26.00	Drained, restarted, then collected data after 12 min. running
1/30/2020	#1	683	46	33,322.0	YES	YES	14.00	Drained, restarted
2/5/2020	#1	NA	46	33,462.4	YES	YES	17.00	Drained, restarted
2/13/2020	#1	NA	NA	33,631.0	NO	YES	15.50	GNO; could not restart generator
2/26/2020	#1	NA	NA	33,653.0	NO	NO		GNO; water below drain port, could not restart
2/28/2020	#1	903	46	33,674.3	YES	YES	4.00	Drained, restarted
3/5/2020	#1	656	46	33,818.1	YES	NO		Drained, restarted
3/12/2020	#1	NA	48	33,985.1	YES	NO		Unintentionally left inlet valve open
3/25/2020	#1	NA	46	34,297.5	YES	YES	23.50	Drained, restarted
3/31/2020	#1	560	46	34,440.1	YES	YES	9.50	Drained, restarted
4/14/2020	#1	512	46	34,778.8	YES	YES	15.50	Drained, restarted
4/29/2020	#1	NA	46	35,027.0	YES	YES	8.00	Drained, restarted
5/8/2020	#1	NA	46	35,240.6	YES	NO		Dry drum
5/22/2020	#1	431	46	35,576.7	YES	YES	5.50	Drained, restarted
5/28/2020	#1	364	46	35,721.0	YES	NO		Water in drum not measured
6/25/2020	#1	266	45	-	YES	NO		Water in drum below drain port
7/30/2020	#1	NA	NA	-	NO	NO		GNO; water below drain port, could not restart
8/25/2020	#1	NA	NA	-	NO	NO		GNO; could not restart generator
8/31/2020	#1	NA	NA	-	NO	NO		GNO; could not restart generator
9/17/2020	#1	NA	NA	-	NO	NO		GNO; could not restart generator
9/23/2020	#1	1,506	46	36,781.5	NO	NO		GNO; restarted, then collected readings, dry drum

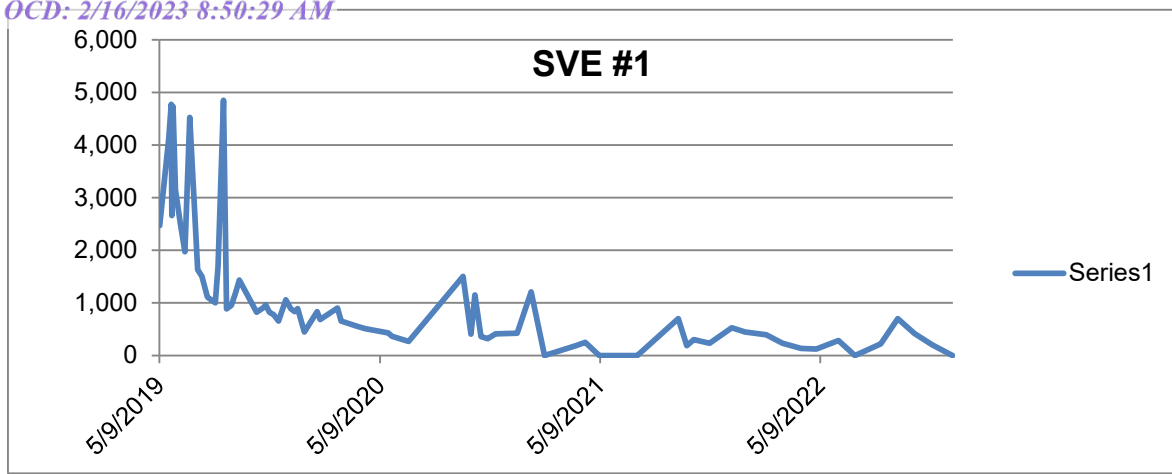
SIMCOE LLC - Mudge B 012R

Summary SVE System Monitoring Data

Date	SVE Pt.	Exhaust OVM (ppm)	Exhaust Vacuum (in)	Generator Run Time	System Operational at Time of Arrival?	H ₂ O Drained from drum?	H ₂ O Amt. Drained (Gal.)?	Comments
9/29/2020	#1	NA	NA	-	NO	NO		GNO; restarted, generator shut down < 5 minutes after restart
10/6/2020	#1	409	45	36,946.0	YES	NO		Water in drum below drain port
10/13/2020	#1	1,151	46	37,113.3	YES	NO	2.00	
10/23/2020	#1	363	45	37,356.8	YES	YES	5.50	
11/3/2020	#1	320	46	37,617.7	YES	NO		Water in drum just above drain port
11/12/2020	#1	NA	46	37,832.3	YES	YES	15.50	
11/16/2020	#1	412	46	37,931.9	YES	YES	6.50	
11/23/2020	#1	NA	46	38,100.4	YES	YES	7.00	
12/2/2020	#1	NA	47	38,317.7	YES	YES	21.00	
12/10/2020	#1	NA	46	38,503.9	YES	YES	20.50	
12/16/2020	#1	NA	48	38,650.3	YES	YES	18.50	
12/22/2020	#1	425	47	38,792.6	YES	YES	16.00	
1/14/2021	#1	1,210	-	-	YES	NO	-	
2/5/2021	#1	-	-	-	NO	NO	-	System not operational
3/29/2021	#1	186	-	-	YES	NO	-	
4/14/2021	#1	253	-	-	YES	NO	-	
5/7/2021	#1	-	-	-	NO	NO	-	System not operational
6/8/2021	#1	-	-	-	NO	NO	-	System not operational
7/9/2021	#1	-	-	-	NO	NO	-	System not operational
9/15/2021	#1	700	44	-	YES	NO	-	Dry drum, mechanic on site to repair generator
9/29/2021	#1	185	44	-	YES	NO	-	Water in drum below drain port
10/11/2021	#1	302	44	-	YES	YES	2.47	
11/6/2021	#1	233	44	-	YES	YES	2.47	
12/13/2021	#1	530	44	-	YES	YES	13.16	
1/4/2022	#1	449	47	-	NO	YES	27.14	Drained drum into buckets transferred to pit
2/8/2022	#1	397	46	-	YES	YES	15.63	
3/7/2022	#1	232	46	-	YES	NO	0.00	Drum appeared to have been drained prior to arrival
4/7/2022	#1	136	46	-	YES	YES	1.00	
5/2/2022	#1	121	54	-	YES	NO	0.00	Dry
6/8/2022	#1	284	45	-	YES	NO	0.00	Dry
7/5/2022	#1	-	-	-	NO	NO	0.00	Below the port / generator down
8/17/2022	#1	220	-46	-29.0	YES	NO	0.00	Dry
9/14/2022	#1	704	47	30.0	YES	NO	0.00	Below the port

SIMCOE LLC - Mudge B 012R**Summary SVE System Monitoring Data**

Date	SVE Pt.	Exhaust OVM (ppm)	Exhaust Vacuum (in)	Generator Run Time	System Operational at Time of Arrival?	H ₂ O Drained from drum?	H ₂ O Amt. Drained (Gal.)?	Comments
10/12/2022	#1	421	-46	-29.0	YES	NO	0.00	Below the port
11/10/2022	#1	204	-47	30.0	YES	YES	49.35	
12/14/2022	#1	-	-	-	NO	YES	51.82	SVE won't turn on Generator not running



BPX Energy Inc. - Mudge B 12R

SVE - #1 OVM Data

Date	Exhaust OVM (ppm)
------	----------------------

5/9/2019	2,467
5/24/2019	4,133
5/28/2019	4,776
5/29/2019	2,658
5/30/2019	3,158
5/31/2019	4,736
6/4/2019	3,146
6/12/2019	2,510
6/20/2019	1,970
6/28/2019	4,526
7/11/2019	1,629
7/18/2019	1,503
7/27/2019	1,114
8/9/2019	1,004
8/14/2019	1,691
8/23/2019	4,851
8/28/2019	886
9/5/2019	957
9/12/2019	1,200
9/18/2019	1,437
10/17/2019	822
10/28/2019	912
11/1/2019	963
11/7/2019	823
11/14/2019	775
11/22/2019	653
12/4/2019	1062
12/12/2019	894
12/19/2019	837
12/24/2019	892
1/4/2020	446
1/25/2020	834
1/30/2020	683.0
2/28/2020	903.0
3/5/2020	656.0
3/31/2020	560.0
4/14/2020	512.0
5/22/2020	431.0
5/28/2020	364.0
6/25/2020	266.0
9/23/2020	1506.0
10/6/2020	409.0
10/13/2020	1151.0
10/23/2020	363.0

Date	Exhaust OVM (ppm)
------	----------------------

[illegible]

COTTONWOOD CONSULTING LLC

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : SIMCOE LLC

CHAIN-OF-CUSTODY # :

N/A

MUDGE B # 12R
 UNIT A, SEC. 17, T31N, R11W

LABORATORY (S) USED :

GAL

Date :

3/17/22

DEVELOPER / SAMPLER :

K. Sieser
E. Millar/J. Harter

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	-	-	43.61	49.90	-	-	-	-	-
2	-	-	42.16	46.40	1145	7.93	9100	15.8	~2gal
3	-	-	42.31	44.00	-	-	-	-	-

DATE & TIME -

4.01/7.00/10.00	1,413
3/15/22	0800

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
 (i.e. 2" MW $r = (1/12) \text{ ft}$. $h = 1 \text{ ft}$.) (i.e. 4" MW $r = (2/12) \text{ ft}$. $h = 1 \text{ ft}$.)

Ideally a minimum of three (3) wellbore volumes:

1.50" well diameter = 0.30 gal./ft. of water.

2.00" well diameter = 0.49 gal./ft. of water.

Comments or note well diameter if not standard 2".

Water grey tint, no odor, no sheen.Hooked up pump to well & pumped water into tubing; sampled water out of clean tubing.

Top of casing MW # 1 ~ 3.00 ft., MW # 2 ~ 3.04 ft., MW # 3 ~ 3.00 ft. above grade.

on-site	1100	temp	~50°F
off-site	1220	temp	~50°F
sky cond.	clear		
wind speed	5-10 mph direct.		N



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
970.247.4227 Fax
www.greenanalytical.com

25 March 2022

Kyle Siesser
Cottonwood Consulting
PO Box 1653
Durango, CO 81302
RE: VOC 8260

Enclosed are the results of analyses for samples received by the laboratory on 03/17/22 15:00. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'. The script is cursive and fluid.

Debbie Zufelt
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-22-13

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-21-14



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
03/25/22 13:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #2	2203171-01	Water	03/17/22 11:45	03/17/22 15:00	

Green Analytical Laboratories

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

Page 2 of 13 2203171 GAL FINAL 03 25 22 1315 03/25/22 13:16:35



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
03/25/22 13:15

MW #2

2203171-01 (Ground Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Dichlorodifluoromethane*	<0.0005	0.0005	0.00009	mg/L	1	03/23/22 18:46	8260B		MS
Chloromethane*	<0.0005	0.0005	0.00006	mg/L	1	03/23/22 18:46	8260B		MS
Vinyl chloride*	<0.0005	0.0005	0.00005	mg/L	1	03/23/22 18:46	8260B		MS
Bromomethane*	<0.0005	0.0005	0.00005	mg/L	1	03/23/22 18:46	8260B		MS
Chloroethane*	<0.0005	0.0005	0.0001	mg/L	1	03/23/22 18:46	8260B		MS
Trichlorofluoromethane*	<0.0005	0.0005	0.00003	mg/L	1	03/23/22 18:46	8260B		MS
1,1-Dichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	03/23/22 18:46	8260B		MS
Carbon disulfide*	<0.001	0.001	0.0003	mg/L	1	03/23/22 18:46	8260B		MS
Iodomethane	<0.001	0.001	0.0001	mg/L	1	03/23/22 18:46	8260B		MS
Acrolein*	<0.005	0.005	0.0007	mg/L	1	03/23/22 18:46	8260B		MS
Methylene chloride*	<0.0005	0.0005	0.0003	mg/L	1	03/23/22 18:46	8260B		MS
Acetone*	<0.010	0.010	0.006	mg/L	1	03/23/22 18:46	8260B		MS
trans-1,2-Dichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	03/23/22 18:46	8260B		MS
Methyl t-Butyl Ether*	<0.001	0.001	0.0003	mg/L	1	03/23/22 18:46	8260B		MS
1,1-Dichloroethane*	<0.0005	0.0005	0.00008	mg/L	1	03/23/22 18:46	8260B		MS
Acrylonitrile*	<0.002	0.002	0.002	mg/L	1	03/23/22 18:46	8260B		MS
Vinyl acetate*	<0.0005	0.0005	0.0004	mg/L	1	03/23/22 18:46	8260B		MS
cis-1,2-Dichloroethene*	<0.0005	0.0005	0.0001	mg/L	1	03/23/22 18:46	8260B		MS
2,2-Dichloropropane*	<0.0005	0.0005	0.0003	mg/L	1	03/23/22 18:46	8260B		MS
Bromochloromethane*	<0.0005	0.0005	0.00007	mg/L	1	03/23/22 18:46	8260B		MS
Chloroform*	<0.0005	0.0005	0.00005	mg/L	1	03/23/22 18:46	8260B		MS
Carbon tetrachloride*	<0.0005	0.0005	0.0001	mg/L	1	03/23/22 18:46	8260B		MS
1,1,1-Trichloroethane*	<0.0005	0.0005	0.0001	mg/L	1	03/23/22 18:46	8260B		MS
1,1-Dichloropropene*	<0.0005	0.0005	0.00007	mg/L	1	03/23/22 18:46	8260B		MS
2-Butanone*	<0.002	0.002	0.002	mg/L	1	03/23/22 18:46	8260B		MS
Benzene*	0.004	0.0005	0.00009	mg/L	1	03/23/22 18:46	8260B		MS
1,2-Dichloroethane*	<0.0005	0.0005	0.0001	mg/L	1	03/23/22 18:46	8260B		MS
Trichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	03/23/22 18:46	8260B		MS
Dibromomethane*	<0.0005	0.0005	0.0002	mg/L	1	03/23/22 18:46	8260B		MS
1,2-Dichloropropane*	<0.0005	0.0005	0.0001	mg/L	1	03/23/22 18:46	8260B		MS
Bromodichloromethane*	<0.0005	0.0005	0.00007	mg/L	1	03/23/22 18:46	8260B		MS
cis-1,3-Dichloropropene*	<0.0005	0.0005	0.00006	mg/L	1	03/23/22 18:46	8260B		MS

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
03/25/22 13:15

MW #2

2203171-01 (Ground Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Toluene*	<0.0005	0.0005	0.00007	mg/L	1	03/23/22 18:46	8260B		MS
4-Methyl-2-pentanone*	<0.001	0.001	0.0001	mg/L	1	03/23/22 18:46	8260B		MS
Tetrachloroethene*	<0.0005	0.0005	0.0001	mg/L	1	03/23/22 18:46	8260B		MS
trans-1,3-Dichloropropene*	<0.0005	0.0005	0.00008	mg/L	1	03/23/22 18:46	8260B		MS
1,1,2-Trichloroethane*	<0.0005	0.0005	0.00006	mg/L	1	03/23/22 18:46	8260B		MS
Dibromochloromethane*	<0.0005	0.0005	0.00006	mg/L	1	03/23/22 18:46	8260B		MS
1,3-Dichloropropane*	<0.0005	0.0005	0.00001	mg/L	1	03/23/22 18:46	8260B		MS
1,2-Dibromoethane*	<0.0005	0.0005	0.0001	mg/L	1	03/23/22 18:46	8260B		MS
2-Hexanone*	<0.001	0.001	0.0001	mg/L	1	03/23/22 18:46	8260B		MS
Chlorobenzene*	<0.0005	0.0005	0.00002	mg/L	1	03/23/22 18:46	8260B		MS
Ethylbenzene*	<0.0005	0.0005	0.00009	mg/L	1	03/23/22 18:46	8260B		MS
1,1,1,2-Tetrachloroethane*	<0.0005	0.0005	0.00006	mg/L	1	03/23/22 18:46	8260B		MS
m+p - Xylene*	<0.001	0.001	0.0005	mg/L	1	03/23/22 18:46	8260B		MS
o-Xylene*	<0.0005	0.0005	0.00007	mg/L	1	03/23/22 18:46	8260B		MS
Total Xylenes*	<0.001	0.001	0.0005	mg/L	1	03/23/22 18:46	8260B		MS
Bromoform*	<0.0005	0.0005	0.00006	mg/L	1	03/23/22 18:46	8260B		MS
Styrene*	<0.0005	0.0005	0.00002	mg/L	1	03/23/22 18:46	8260B		MS
Isopropylbenzene*	<0.0005	0.0005	0.00002	mg/L	1	03/23/22 18:46	8260B		MS
Bromobenzene*	<0.0005	0.0005	0.00003	mg/L	1	03/23/22 18:46	8260B		MS
n-Propylbenzene*	<0.0005	0.0005	0.00001	mg/L	1	03/23/22 18:46	8260B		MS
1,1,2,2-Tetrachloroethane*	<0.0005	0.0005	0.00006	mg/L	1	03/23/22 18:46	8260B		MS
2-Chlorotoluene*	<0.0005	0.0005	0.00004	mg/L	1	03/23/22 18:46	8260B		MS
1,2,3-trichloropropane*	<0.0005	0.0005	0.00005	mg/L	1	03/23/22 18:46	8260B		MS
1,3,5-Trimethylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	03/23/22 18:46	8260B		MS
trans-1,4-Dichloro-2-butene	<0.010	0.010	0.006	mg/L	1	03/23/22 18:46	8260B		MS
4-Chlorotoluene*	<0.0005	0.0005	0.00003	mg/L	1	03/23/22 18:46	8260B		MS
tert-Butylbenzene*	<0.0005	0.0005	0.00006	mg/L	1	03/23/22 18:46	8260B		MS
1,2,4-Trimethylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	03/23/22 18:46	8260B		MS
sec-Butylbenzene*	<0.0005	0.0005	0.00002	mg/L	1	03/23/22 18:46	8260B		MS
p-Isopropyltoluene*	<0.0005	0.0005	0.00003	mg/L	1	03/23/22 18:46	8260B		MS
1,3-Dichlorobenzene*	<0.0005	0.0005	0.00004	mg/L	1	03/23/22 18:46	8260B		MS
1,4 Dichlorobenzene*	<0.0005	0.0005	0.00004	mg/L	1	03/23/22 18:46	8260B		MS

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
03/25/22 13:15

MW #2

2203171-01 (Ground Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

n-Butylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	03/23/22 18:46	8260B		MS
1,2-Dichlorobenzene*	<0.0005	0.0005	0.00006	mg/L	1	03/23/22 18:46	8260B		MS
1,2-Dibromo-3-chloropropane*	<0.0005	0.0005	0.0002	mg/L	1	03/23/22 18:46	8260B		MS
Hexachlorobutadiene*	<0.0005	0.0005	0.0001	mg/L	1	03/23/22 18:46	8260B		MS
1,2,4-Trichlorobenzene*	<0.0005	0.0005	0.00009	mg/L	1	03/23/22 18:46	8260B		MS
Naphthalene*	<0.0005	0.0005	0.00004	mg/L	1	03/23/22 18:46	8260B		MS
1,2,3-Trichlorobenzene*	<0.0005	0.0005	0.0001	mg/L	1	03/23/22 18:46	8260B		MS
1,4-Dioxane	<0.100	0.100	0.029	mg/L	1	03/23/22 18:46	8260B		MS
Surrogate: Dibromofluoromethane			102 %	82.4-141		03/23/22 18:46	8260B		MS
Surrogate: Toluene-d8			103 %	87.1-110		03/23/22 18:46	8260B		MS
Surrogate: 4-Bromofluorobenzene			88.9 %	76.4-114		03/23/22 18:46	8260B		MS

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
03/25/22 13:15

VOLATILES BY GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2032212 - Volatiles

Blank (2032212-BLK1)

Prepared: 03/22/22 Analyzed: 03/23/22

1,1,1,2-Tetrachloroethane	ND	0.0005	mg/L
1,1,1-Trichloroethane	ND	0.0005	mg/L
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L
1,1,2-Trichloroethane	ND	0.0005	mg/L
1,1-Dichloroethane	ND	0.0005	mg/L
1,1-Dichloroethene	ND	0.0005	mg/L
1,1-Dichloropropene	ND	0.0005	mg/L
1,2,3-Trichlorobenzene	ND	0.0005	mg/L
1,2,4-Trichlorobenzene	ND	0.0005	mg/L
1,2,4-Trimethylbenzene	ND	0.0005	mg/L
1,2-Dibromo-3-chloropropane	ND	0.0005	mg/L
1,2-Dibromoethane	ND	0.0005	mg/L
1,2-Dichlorobenzene	ND	0.0005	mg/L
1,2-Dichloroethane	ND	0.0005	mg/L
1,2-Dichloropropane	ND	0.0005	mg/L
1,3,5-Trimethylbenzene	ND	0.0005	mg/L
1,3-Dichlorobenzene	ND	0.0005	mg/L
1,3-Dichloropropane	ND	0.0005	mg/L
1,4-Dichlorobenzene	ND	0.0005	mg/L
1,4-Dioxane	ND	0.100	mg/L
1,2,3-trichloropropane	ND	0.0005	mg/L
2,2-Dichloropropane	ND	0.0005	mg/L
2-Butanone	ND	0.002	mg/L
2-Chlorotoluene	ND	0.0005	mg/L
2-Hexanone	ND	0.001	mg/L

Surrogate: 4-Bromofluorobenzene	0.0229		mg/L	0.0250	91.4	76.4-114
4-Chlorotoluene	ND	0.0005	mg/L			
4-Methyl-2-pentanone	ND	0.001	mg/L			
Acetone	ND	0.010	mg/L			
Acrolein	ND	0.005	mg/L			
Acrylonitrile	ND	0.002	mg/L			
Benzene	ND	0.0005	mg/L			
Bromobenzene	ND	0.0005	mg/L			
Bromochloromethane	ND	0.0005	mg/L			
Bromodichloromethane	ND	0.0005	mg/L			
Bromoform	ND	0.0005	mg/L			

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
03/25/22 13:15

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2032212 - Volatiles (Continued)

Blank (2032212-BLK1) (Continued)

Prepared: 03/22/22 Analyzed: 03/23/22

Bromomethane	ND	0.0005	mg/L							
Carbon disulfide	ND	0.001	mg/L							
Carbon tetrachloride	ND	0.0005	mg/L							
Chlorobenzene	ND	0.0005	mg/L							
Chloroethane	ND	0.0005	mg/L							
Chloroform	ND	0.0005	mg/L							
Chloromethane	ND	0.0005	mg/L							
cis-1,2-Dichloroethene	ND	0.0005	mg/L							
cis-1,3-Dichloropropene	ND	0.0005	mg/L							
Dibromochloromethane	ND	0.0005	mg/L							
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0254</i>		mg/L	<i>0.0250</i>		<i>101</i>	<i>82.4-141</i>			
Dibromomethane	ND	0.0005	mg/L							
Dichlorodifluoromethane	ND	0.0005	mg/L							
Ethylbenzene	ND	0.0005	mg/L							
Hexachlorobutadiene	ND	0.0005	mg/L							
Iodomethane	ND	0.001	mg/L							
Isopropylbenzene	ND	0.0005	mg/L							
m+p - Xylene	ND	0.001	mg/L							
Methyl t-Butyl Ether	ND	0.001	mg/L							
Methylene chloride	ND	0.0005	mg/L							
Naphthalene	ND	0.0005	mg/L							
n-Butylbenzene	ND	0.0005	mg/L							
n-Propylbenzene	ND	0.0005	mg/L							
o-Xylene	ND	0.0005	mg/L							
p-Isopropyltoluene	ND	0.0005	mg/L							
sec-Butylbenzene	ND	0.0005	mg/L							
Styrene	ND	0.0005	mg/L							
tert-Butylbenzene	ND	0.0005	mg/L							
Tetrachloroethene	ND	0.0005	mg/L							
Toluene	ND	0.0005	mg/L							
<i>Surrogate: Toluene-d8</i>	<i>0.0256</i>		mg/L	<i>0.0250</i>		<i>102</i>	<i>87.1-110</i>			
Total Xylenes	ND	0.001	mg/L							
trans-1,2-Dichloroethene	ND	0.0005	mg/L							
trans-1,3-Dichloropropene	ND	0.0005	mg/L							
trans-1,4-Dichloro-2-butene	ND	0.010	mg/L							
Trichloroethene	ND	0.0005	mg/L							
Trichlorofluoromethane	ND	0.0005	mg/L							
Vinyl acetate	ND	0.0005	mg/L							
Vinyl chloride	ND	0.0005	mg/L							

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
03/25/22 13:15

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2032212 - Volatiles (Continued)

LCS (2032212-BS1)

Prepared: 03/22/22 Analyzed: 03/23/22

1,1,1,2-Tetrachloroethane	0.020	0.0005	mg/L	0.0200		101	89.5-111			
1,1,1-Trichloroethane	0.020	0.0005	mg/L	0.0200		99.8	85.1-117			
1,1,2,2-Tetrachloroethane	0.020	0.0005	mg/L	0.0200		101	68.8-127			
1,1,2-Trichloroethane	0.020	0.0005	mg/L	0.0200		102	77.4-118			
1,1-Dichloroethane	0.020	0.0005	mg/L	0.0200		102	78.1-121			
1,1-Dichloroethene	0.020	0.0005	mg/L	0.0200		100	64-124			
1,1-Dichloropropene	0.020	0.0005	mg/L	0.0200		101	81-122			
1,2,3-Trichlorobenzene	0.021	0.0005	mg/L	0.0200		104	85.7-115			
1,2,4-Trichlorobenzene	0.021	0.0005	mg/L	0.0200		104	83.5-117			
1,2,4-Trimethylbenzene	0.022	0.0005	mg/L	0.0200		112	78.4-126			
1,2-Dibromo-3-chloropropane	0.020	0.0005	mg/L	0.0200		98.4	77.2-116			
1,2-Dibromoethane	0.021	0.0005	mg/L	0.0200		103	88.6-113			
1,2-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		102	86.5-111			
1,2-Dichloroethane	0.019	0.0005	mg/L	0.0200		93.3	75.6-120			
1,2-Dichloropropane	0.019	0.0005	mg/L	0.0200		95.6	76.8-121			
1,3,5-Trimethylbenzene	0.021	0.0005	mg/L	0.0200		107	79.2-127			
1,3-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		101	87.7-112			
1,3-Dichloropropane	0.020	0.0005	mg/L	0.0200		98.2	82.1-119			
1,4 Dichlorobenzene	0.019	0.0005	mg/L	0.0200		97.0	85.2-111			
1,4-Dioxane	0.393	0.100	mg/L	0.400		98.2	-34.9-102			
1,2,3-trichloropropane	0.030	0.0005	mg/L	0.0200		149	53.2-135			BS1
2,2-Dichloropropane	0.019	0.0005	mg/L	0.0200		95.0	74.3-136			
2-Butanone	0.039	0.002	mg/L	0.0400		96.7	65.6-132			
2-Chlorotoluene	0.021	0.0005	mg/L	0.0200		103	78.3-123			
2-Hexanone	0.042	0.001	mg/L	0.0400		104	66.6-126			
Surrogate: 4-Bromofluorobenzene	0.0237		mg/L	0.0250		94.9	76.4-114			
4-Chlorotoluene	0.021	0.0005	mg/L	0.0200		107	76.8-129			
4-Methyl-2-pentanone	0.043	0.001	mg/L	0.0400		107	67.7-128			
Acetone	0.040	0.010	mg/L	0.0400		99.2	54.3-140			
Acrolein	0.174	0.005	mg/L	0.200		87.1	29.4-149			
Acrylonitrile	0.046	0.002	mg/L	0.0400		115	60.8-143			
Benzene	0.020	0.0005	mg/L	0.0200		99.6	82.7-115			
Bromobenzene	0.020	0.0005	mg/L	0.0200		98.4	85.1-112			
Bromochloromethane	0.019	0.0005	mg/L	0.0200		94.1	77.8-118			
Bromodichloromethane	0.020	0.0005	mg/L	0.0200		98.5	82.7-118			
Bromoform	0.024	0.0005	mg/L	0.0200		119	76.1-133			
Bromomethane	0.019	0.0005	mg/L	0.0200		95.1	61.1-126			
Carbon disulfide	0.040	0.001	mg/L	0.0400		101	67.2-128			
Carbon tetrachloride	0.019	0.0005	mg/L	0.0200		97.0	89.7-117			

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
03/25/22 13:15

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2032212 - Volatiles (Continued)

LCS (2032212-BS1) (Continued)

Prepared: 03/22/22 Analyzed: 03/23/22

Chlorobenzene	0.020	0.0005	mg/L	0.0200		98.4	86.2-112			
Chloroethane	0.019	0.0005	mg/L	0.0200		93.1	62.4-125			
Chloroform	0.020	0.0005	mg/L	0.0200		98.0	86.7-115			
Chloromethane	0.022	0.0005	mg/L	0.0200		108	47.1-145			
cis-1,2-Dichloroethene	0.020	0.0005	mg/L	0.0200		99.8	76-117			
cis-1,3-Dichloropropene	0.021	0.0005	mg/L	0.0200		106	80.9-123			
Dibromochloromethane	0.023	0.0005	mg/L	0.0200		113	88.7-121			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0254</i>		mg/L	<i>0.0250</i>		<i>101</i>	<i>82.4-141</i>			
Dibromomethane	0.019	0.0005	mg/L	0.0200		92.8	86.4-114			
Dichlorodifluoromethane	0.021	0.0005	mg/L	0.0200		104	36.1-160			
Ethylbenzene	0.021	0.0005	mg/L	0.0200		104	84.3-117			
Hexachlorobutadiene	0.023	0.0005	mg/L	0.0200		116	94.3-116			
Iodomethane	0.043	0.001	mg/L	0.0400		108	77.4-124			
Isopropylbenzene	0.020	0.0005	mg/L	0.0200		99.8	88.1-114			
m+p - Xylene	0.042	0.001	mg/L	0.0400		105	85.9-122			
Methyl t-Butyl Ether	0.042	0.001	mg/L	0.0400		106	78.9-118			
Methylene chloride	0.021	0.0005	mg/L	0.0200		106	64.2-134			
Naphthalene	0.022	0.0005	mg/L	0.0200		111	80.6-121			
n-Butylbenzene	0.021	0.0005	mg/L	0.0200		106	82.2-123			
n-Propylbenzene	0.021	0.0005	mg/L	0.0200		106	78.9-125			
o-Xylene	0.021	0.0005	mg/L	0.0200		105	85.6-112			
p-Isopropyltoluene	0.022	0.0005	mg/L	0.0200		112	82.5-123			
sec-Butylbenzene	0.022	0.0005	mg/L	0.0200		111	82.1-128			
Styrene	0.020	0.0005	mg/L	0.0200		99.4	78.3-117			
tert-Butylbenzene	0.022	0.0005	mg/L	0.0200		109	79.5-129			
Tetrachloroethene	0.020	0.0005	mg/L	0.0200		99.4	86.6-110			
Toluene	0.020	0.0005	mg/L	0.0200		98.8	82.8-112			
<i>Surrogate: Toluene-d8</i>	<i>0.0254</i>		mg/L	<i>0.0250</i>		<i>102</i>	<i>87.1-110</i>			
Total Xylenes	0.063	0.001	mg/L	0.0600		105	86.5-118			
trans-1,2-Dichloroethene	0.021	0.0005	mg/L	0.0200		107	69.2-119			
trans-1,3-Dichloropropene	0.022	0.0005	mg/L	0.0200		108	77.4-131			
trans-1,4-Dichloro-2-butene	0.078	0.010	mg/L	0.0400		195	41.4-204			
Trichloroethene	0.018	0.0005	mg/L	0.0200		90.7	82.2-114			
Trichlorofluoromethane	0.020	0.0005	mg/L	0.0200		100	78.2-126			
Vinyl acetate	0.020	0.0005	mg/L	0.0200		101	56.2-148			
Vinyl chloride	0.021	0.0005	mg/L	0.0200		107	62-135			

LCS Dup (2032212-BSD1)

Prepared: 03/22/22 Analyzed: 03/23/22

1,1,1,2-Tetrachloroethane	0.020	0.0005	mg/L	0.0200		100	89.5-111	0.695	6.88	
---------------------------	-------	--------	------	--------	--	-----	----------	-------	------	--

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
03/25/22 13:15

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2032212 - Volatiles (Continued)

LCS Dup (2032212-BSD1) (Continued)

Prepared: 03/22/22 Analyzed: 03/23/22

1,1,1-Trichloroethane	0.019	0.0005	mg/L	0.0200		96.8	85.1-117	3.05	7.43	
1,1,2,2-Tetrachloroethane	0.020	0.0005	mg/L	0.0200		97.9	68.8-127	2.92	8.68	
1,1,2-Trichloroethane	0.020	0.0005	mg/L	0.0200		98.5	77.4-118	3.44	6.82	
1,1-Dichloroethane	0.020	0.0005	mg/L	0.0200		101	78.1-121	1.68	4.3	
1,1-Dichloroethene	0.018	0.0005	mg/L	0.0200		91.5	64-124	9.13	16.5	
1,1-Dichloropropene	0.020	0.0005	mg/L	0.0200		98.5	81-122	2.90	5.47	
1,2,3-Trichlorobenzene	0.019	0.0005	mg/L	0.0200		94.9	85.7-115	8.72	43	
1,2,4-Trichlorobenzene	0.020	0.0005	mg/L	0.0200		99.1	83.5-117	4.92	22.3	
1,2,4-Trimethylbenzene	0.021	0.0005	mg/L	0.0200		106	78.4-126	5.66	8.94	
1,2-Dibromo-3-chloropropane	0.019	0.0005	mg/L	0.0200		93.8	77.2-116	4.68	15.1	
1,2-Dibromoethane	0.020	0.0005	mg/L	0.0200		101	88.6-113	1.57	5.83	
1,2-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		99.4	86.5-111	2.78	8.72	
1,2-Dichloroethane	0.018	0.0005	mg/L	0.0200		89.9	75.6-120	3.71	8.94	
1,2-Dichloropropane	0.019	0.0005	mg/L	0.0200		93.9	76.8-121	1.79	5.51	
1,3,5-Trimethylbenzene	0.021	0.0005	mg/L	0.0200		104	79.2-127	3.17	16.5	
1,3-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		100	87.7-112	0.846	9	
1,3-Dichloropropane	0.020	0.0005	mg/L	0.0200		98.6	82.1-119	0.406	6.06	
1,4 Dichlorobenzene	0.019	0.0005	mg/L	0.0200		93.8	85.2-111	3.30	7.71	
1,4-Dioxane	0.385	0.100	mg/L	0.400		96.2	-34.9-102	2.02	35.2	
1,2,3-trichloropropane	0.022	0.0005	mg/L	0.0200		111	53.2-135	29.4	49.2	
2,2-Dichloropropane	0.018	0.0005	mg/L	0.0200		92.1	74.3-136	3.10	9.62	
2-Butanone	0.038	0.002	mg/L	0.0400		94.5	65.6-132	2.30	14.2	
2-Chlorotoluene	0.020	0.0005	mg/L	0.0200		99.0	78.3-123	3.67	8.62	
2-Hexanone	0.041	0.001	mg/L	0.0400		102	66.6-126	2.65	7.28	
Surrogate: 4-Bromofluorobenzene	0.0241		mg/L	0.0250		96.3	76.4-114			
4-Chlorotoluene	0.021	0.0005	mg/L	0.0200		103	76.8-129	3.38	15.5	
4-Methyl-2-pentanone	0.042	0.001	mg/L	0.0400		104	67.7-128	3.24	7.57	
Acetone	0.034	0.010	mg/L	0.0400		83.9	54.3-140	16.8	30.5	
Acrolein	0.159	0.005	mg/L	0.200		79.7	29.4-149	8.93	22.4	
Acrylonitrile	0.044	0.002	mg/L	0.0400		111	60.8-143	3.08	7.62	
Benzene	0.019	0.0005	mg/L	0.0200		97.0	82.7-115	2.65	4.16	
Bromobenzene	0.019	0.0005	mg/L	0.0200		95.0	85.1-112	3.52	8.41	
Bromochloromethane	0.019	0.0005	mg/L	0.0200		92.8	77.8-118	1.45	5.16	
Bromodichloromethane	0.019	0.0005	mg/L	0.0200		95.4	82.7-118	3.25	5.36	
Bromoform	0.022	0.0005	mg/L	0.0200		108	76.1-133	10.0	14.1	
Bromomethane	0.019	0.0005	mg/L	0.0200		93.3	61.1-126	1.96	21.5	
Carbon disulfide	0.037	0.001	mg/L	0.0400		93.5	67.2-128	7.31	20.3	
Carbon tetrachloride	0.019	0.0005	mg/L	0.0200		94.8	89.7-117	2.30	11.4	
Chlorobenzene	0.019	0.0005	mg/L	0.0200		96.8	86.2-112	1.69	5.18	

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
03/25/22 13:15

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2032212 - Volatiles (Continued)

LCS Dup (2032212-BSD1) (Continued)

Prepared: 03/22/22 Analyzed: 03/23/22

Chloroethane	0.018	0.0005	mg/L	0.0200		89.6	62.4-125	3.78	24.1	
Chloroform	0.019	0.0005	mg/L	0.0200		96.6	86.7-115	1.44	5.15	
Chloromethane	0.021	0.0005	mg/L	0.0200		107	47.1-145	1.02	27	
cis-1,2-Dichloroethene	0.020	0.0005	mg/L	0.0200		100	76-117	0.600	5.73	
cis-1,3-Dichloropropene	0.021	0.0005	mg/L	0.0200		106	80.9-123	0.0944	6.09	
Dibromochloromethane	0.021	0.0005	mg/L	0.0200		106	88.7-121	5.71	7.24	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0253</i>		mg/L	<i>0.0250</i>		<i>101</i>	<i>82.4-141</i>			
Dibromomethane	0.019	0.0005	mg/L	0.0200		93.3	86.4-114	0.483	5.75	
Dichlorodifluoromethane	0.020	0.0005	mg/L	0.0200		102	36.1-160	2.63	22.6	
Ethylbenzene	0.021	0.0005	mg/L	0.0200		103	84.3-117	0.819	4.83	
Hexachlorobutadiene	0.021	0.0005	mg/L	0.0200		106	94.3-116	9.03	18.4	
Iodomethane	0.040	0.001	mg/L	0.0400		101	77.4-124	6.39	24.3	
Isopropylbenzene	0.020	0.0005	mg/L	0.0200		98.4	88.1-114	1.41	6.25	
m+p - Xylene	0.042	0.001	mg/L	0.0400		104	85.9-122	1.46	5.77	
Methyl t-Butyl Ether	0.042	0.001	mg/L	0.0400		104	78.9-118	1.76	12.8	
Methylene chloride	0.020	0.0005	mg/L	0.0200		101	64.2-134	5.16	19.7	
Naphthalene	0.021	0.0005	mg/L	0.0200		103	80.6-121	7.21	33.5	
n-Butylbenzene	0.020	0.0005	mg/L	0.0200		101	82.2-123	5.25	10.1	
n-Propylbenzene	0.020	0.0005	mg/L	0.0200		101	78.9-125	4.29	9.09	
o-Xylene	0.021	0.0005	mg/L	0.0200		103	85.6-112	1.68	6.29	
p-Isopropyltoluene	0.021	0.0005	mg/L	0.0200		107	82.5-123	4.39	9.26	
sec-Butylbenzene	0.021	0.0005	mg/L	0.0200		107	82.1-128	3.95	9.85	
Styrene	0.019	0.0005	mg/L	0.0200		96.2	78.3-117	3.22	7.55	
tert-Butylbenzene	0.021	0.0005	mg/L	0.0200		104	79.5-129	4.79	18.6	
Tetrachloroethene	0.020	0.0005	mg/L	0.0200		97.7	86.6-110	1.73	6.38	
Toluene	0.019	0.0005	mg/L	0.0200		96.8	82.8-112	2.10	5.67	
<i>Surrogate: Toluene-d8</i>	<i>0.0254</i>		mg/L	<i>0.0250</i>		<i>102</i>	<i>87.1-110</i>			
Total Xylenes	0.062	0.001	mg/L	0.0600		104	86.5-118	1.53	5.83	
trans-1,2-Dichloroethene	0.021	0.0005	mg/L	0.0200		104	69.2-119	2.55	19.1	
trans-1,3-Dichloropropene	0.021	0.0005	mg/L	0.0200		105	77.4-131	3.11	6.26	
trans-1,4-Dichloro-2-butene	0.066	0.010	mg/L	0.0400		166	41.4-204	16.2	92.8	
Trichloroethene	0.018	0.0005	mg/L	0.0200		91.6	82.2-114	0.987	4.92	
Trichlorofluoromethane	0.019	0.0005	mg/L	0.0200		95.6	78.2-126	5.05	19.8	
Vinyl acetate	0.020	0.0005	mg/L	0.0200		99.1	56.2-148	1.60	7.84	
Vinyl chloride	0.021	0.0005	mg/L	0.0200		105	62-135	2.50	23	

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
03/25/22 13:15

Notes and Definitions

BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.

RPD Relative Percent Difference

LCS Laboratory Control Sample (Blank Spike)

RL Report Limit

MDL Method Detection Limit

Green Analytical Laboratories

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



(970) 247-4220
Fax: (970) 247-4227

service@greenanalytical.com or dzufelt@greenanalytical.com
75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

COTTONWOOD CONSULTING LLC

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : SIMCOE LLC

MUDGE B # 12R
 UNIT A, SEC. 17, T31N, R11W

LABORATORY (S) USED :

GAL

Date :

6/9/22

DEVELOPER / SAMPLER :

EM

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	-	-	43.78	49.90	-	-	-	-	-
2	-	-	42.49	46.40	1325	7.68	8440	32.1	1.91
3	-	-	42.22	44.00	-	-	-	-	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
 (i.e. 2" MW $r = (1/12) \text{ ft}$. $h = 1 \text{ ft}$.) (i.e. 4" MW $r = (2/12) \text{ ft}$. $h = 1 \text{ ft}$.)

Ideally a minimum of three (3) wellbore volumes:

1.50" well diameter = 0.28 gal./ft. of water.

2.00" well diameter = 0.49 gal./ft. of water.

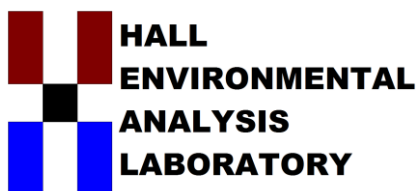
Comments or note well diameter if not standard 2".

Purged available water in MW #2 using 1.5 inch submersible electrical pump and new / clear vinyl tubing.

shut down SVE during samplingwater grey, no odor, no sheen

Top of casing MW #1 ~ 3.00 ft. , MW #2 ~ 3.04 ft. , MW #3 ~ 3.00 ft. above grade .

on-site	<u>1245</u>	temp	<u>~90°F</u>
off-site	<u>1335</u>	temp	<u>~90°F</u>
sky cond.	<u>clear</u>		
wind speed	<u>-</u>	direct.	<u>-</u>



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 16, 2022

Kyle Siesser
Cottonwood Consulting LLC
PO BOX 1653
Durango, CO 81302
TEL: (970) 764-7356
FAX:

RE: Mudge B 012R

OrderNo.: 2206599

Dear Kyle Siesser:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/10/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2206599

Date Reported: 6/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Cottonwood Consulting LLC

Client Sample ID: SVE

Project: Mudge B 012R

Collection Date: 6/9/2022 12:45:00 PM

Lab ID: 2206599-001

Matrix: AIR

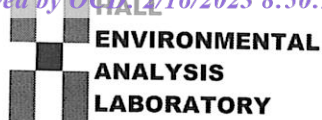
Received Date: 6/10/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: CCM
Benzene	ND	0.20		µg/L	2	6/14/2022 5:02:00 PM
Toluene	ND	0.20		µg/L	2	6/14/2022 5:02:00 PM
Ethylbenzene	0.24	0.20		µg/L	2	6/14/2022 5:02:00 PM
Xylenes, Total	10	0.30		µg/L	2	6/14/2022 5:02:00 PM
Surr: 1,2-Dichloroethane-d4	91.2	70-130		%Rec	2	6/14/2022 5:02:00 PM
Surr: Dibromofluoromethane	103	70-130		%Rec	2	6/14/2022 5:02:00 PM
Surr: Toluene-d8	115	70-130		%Rec	2	6/14/2022 5:02:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	580	10		µg/L	2	6/14/2022 5:02:00 PM
Surr: BFB	101	70-130		%Rec	2	6/14/2022 5:02:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 1 of 1



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Cottonwood Consulting
LLC

Work Order Number: 2206599

RcptNo: 1

Received By: Cheyenne Cason 6/10/2022 7:05:00 AM

Completed By: Tracy Casarrubias 6/10/2022 9:11:12 AM

Reviewed By: *KPG 6.10.22*

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☐ NA ☒
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *CMC 6/10/22*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	N/A	Good	Not Present			



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
970.247.4227 Fax
www.greenanalytical.com

21 June 2022

Kyle Siesser
Cottonwood Consulting
PO Box 1653
Durango, CO 81302
RE: VOC 8260

Enclosed are the results of analyses for samples received by the laboratory on 06/09/22 16:45. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Brenna Kampf'. The signature is written in a cursive, flowing style.

Brenna Kampf
Project Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-22-14

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-22-15



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
06/21/22 16:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #2	2206125-01	Water	06/09/22 13:25	06/09/22 16:45	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Brenna Kampf'.

Brenna Kampf, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

Page 2 of 13 2206125 GAL FINAL 06 21 22 1606 06/21/22 16:06:22



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
06/21/22 16:06

MW #2

2206125-01 (Ground Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Dichlorodifluoromethane*	<0.0005	0.0005	0.00009	mg/L	1	06/17/22 18:43	8260B		MS
Chloromethane*	<0.0005	0.0005	0.00006	mg/L	1	06/17/22 18:43	8260B		MS
Vinyl chloride*	<0.0005	0.0005	0.00005	mg/L	1	06/17/22 18:43	8260B		MS
Bromomethane*	<0.0005	0.0005	0.00005	mg/L	1	06/17/22 18:43	8260B		MS
Chloroethane*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:43	8260B		MS
Trichlorofluoromethane*	<0.0005	0.0005	0.00003	mg/L	1	06/17/22 18:43	8260B		MS
1,1-Dichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	06/17/22 18:43	8260B		MS
Carbon disulfide*	<0.001	0.001	0.0003	mg/L	1	06/17/22 18:43	8260B		MS
Iodomethane	<0.001	0.001	0.0001	mg/L	1	06/17/22 18:43	8260B		MS
Acrolein*	<0.005	0.005	0.0007	mg/L	1	06/17/22 18:43	8260B		MS
Methylene chloride*	<0.0005	0.0005	0.0003	mg/L	1	06/17/22 18:43	8260B		MS
Acetone*	<0.010	0.010	0.006	mg/L	1	06/17/22 18:43	8260B		MS
trans-1,2-Dichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	06/17/22 18:43	8260B		MS
Methyl t-Butyl Ether*	<0.001	0.001	0.0003	mg/L	1	06/17/22 18:43	8260B		MS
1,1-Dichloroethane*	<0.0005	0.0005	0.00008	mg/L	1	06/17/22 18:43	8260B		MS
Acrylonitrile*	<0.002	0.002	0.002	mg/L	1	06/17/22 18:43	8260B		MS
Vinyl acetate*	<0.0005	0.0005	0.0004	mg/L	1	06/17/22 18:43	8260B		MS
cis-1,2-Dichloroethene*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:43	8260B		MS
2,2-Dichloropropane*	<0.0005	0.0005	0.0003	mg/L	1	06/17/22 18:43	8260B		MS
Bromochloromethane*	<0.0005	0.0005	0.00007	mg/L	1	06/17/22 18:43	8260B		MS
Chloroform*	<0.0005	0.0005	0.00005	mg/L	1	06/17/22 18:43	8260B		MS
Carbon tetrachloride*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:43	8260B		MS
1,1,1-Trichloroethane*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:43	8260B		MS
1,1-Dichloropropene*	<0.0005	0.0005	0.00007	mg/L	1	06/17/22 18:43	8260B		MS
2-Butanone*	<0.002	0.002	0.002	mg/L	1	06/17/22 18:43	8260B		MS
Benzene*	0.001	0.0005	0.00009	mg/L	1	06/17/22 18:43	8260B		MS
1,2-Dichloroethane*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:43	8260B		MS
Trichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	06/17/22 18:43	8260B		MS
Dibromomethane*	<0.0005	0.0005	0.0002	mg/L	1	06/17/22 18:43	8260B		MS
1,2-Dichloropropane*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:43	8260B		MS
Bromodichloromethane*	<0.0005	0.0005	0.00007	mg/L	1	06/17/22 18:43	8260B		MS
cis-1,3-Dichloropropene*	<0.0005	0.0005	0.00006	mg/L	1	06/17/22 18:43	8260B		MS

Green Analytical Laboratories

Brenna Kampf, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
06/21/22 16:06

MW #2

2206125-01 (Ground Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Toluene*	<0.0005	0.0005	0.00007	mg/L	1	06/17/22 18:43	8260B		MS
4-Methyl-2-pentanone*	<0.001	0.001	0.0001	mg/L	1	06/17/22 18:43	8260B		MS
Tetrachloroethene*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:43	8260B		MS
trans-1,3-Dichloropropene*	<0.0005	0.0005	0.00008	mg/L	1	06/17/22 18:43	8260B		MS
1,1,2-Trichloroethane*	<0.0005	0.0005	0.00006	mg/L	1	06/17/22 18:43	8260B		MS
Dibromochloromethane*	<0.0005	0.0005	0.00006	mg/L	1	06/17/22 18:43	8260B		MS
1,3-Dichloropropane*	<0.0005	0.0005	0.00001	mg/L	1	06/17/22 18:43	8260B		MS
1,2-Dibromoethane*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:43	8260B		MS
2-Hexanone*	<0.001	0.001	0.0001	mg/L	1	06/17/22 18:43	8260B		MS
Chlorobenzene*	<0.0005	0.0005	0.00002	mg/L	1	06/17/22 18:43	8260B		MS
Ethylbenzene*	<0.0005	0.0005	0.00009	mg/L	1	06/17/22 18:43	8260B		MS
1,1,1,2-Tetrachloroethane*	<0.0005	0.0005	0.00006	mg/L	1	06/17/22 18:43	8260B		MS
m+p - Xylene*	<0.001	0.001	0.0005	mg/L	1	06/17/22 18:43	8260B		MS
o-Xylene*	<0.0005	0.0005	0.00007	mg/L	1	06/17/22 18:43	8260B		MS
Total Xylenes*	<0.001	0.001	0.0005	mg/L	1	06/17/22 18:43	8260B		MS
Bromoform*	<0.0005	0.0005	0.00006	mg/L	1	06/17/22 18:43	8260B		MS
Styrene*	<0.0005	0.0005	0.00002	mg/L	1	06/17/22 18:43	8260B		MS
Isopropylbenzene*	<0.0005	0.0005	0.00002	mg/L	1	06/17/22 18:43	8260B		MS
Bromobenzene*	<0.0005	0.0005	0.00003	mg/L	1	06/17/22 18:43	8260B		MS
n-Propylbenzene*	<0.0005	0.0005	0.00001	mg/L	1	06/17/22 18:43	8260B		MS
1,1,2,2-Tetrachloroethane*	<0.0005	0.0005	0.00006	mg/L	1	06/17/22 18:43	8260B		MS
2-Chlorotoluene*	<0.0005	0.0005	0.00004	mg/L	1	06/17/22 18:43	8260B		MS
1,2,3-trichloropropane*	<0.0005	0.0005	0.00005	mg/L	1	06/17/22 18:43	8260B		MS
1,3,5-Trimethylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	06/17/22 18:43	8260B		MS
trans-1,4-Dichloro-2-butene	<0.010	0.010	0.006	mg/L	1	06/17/22 18:43	8260B		MS
4-Chlorotoluene*	<0.0005	0.0005	0.00003	mg/L	1	06/17/22 18:43	8260B		MS
tert-Butylbenzene*	<0.0005	0.0005	0.00006	mg/L	1	06/17/22 18:43	8260B		MS
1,2,4-Trimethylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	06/17/22 18:43	8260B		MS
sec-Butylbenzene*	<0.0005	0.0005	0.00002	mg/L	1	06/17/22 18:43	8260B		MS
p-Isopropyltoluene*	<0.0005	0.0005	0.00003	mg/L	1	06/17/22 18:43	8260B		MS
1,3-Dichlorobenzene*	<0.0005	0.0005	0.00004	mg/L	1	06/17/22 18:43	8260B		MS
1,4 Dichlorobenzene*	<0.0005	0.0005	0.00004	mg/L	1	06/17/22 18:43	8260B		MS

Green Analytical Laboratories

Brenna Kampf, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
06/21/22 16:06

MW #2

2206125-01 (Ground Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

n-Butylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	06/17/22 18:43	8260B		MS
1,2-Dichlorobenzene*	<0.0005	0.0005	0.00006	mg/L	1	06/17/22 18:43	8260B		MS
1,2-Dibromo-3-chloropropane*	<0.0005	0.0005	0.0002	mg/L	1	06/17/22 18:43	8260B		MS
Hexachlorobutadiene*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:43	8260B		MS
1,2,4-Trichlorobenzene*	<0.0005	0.0005	0.00009	mg/L	1	06/17/22 18:43	8260B		MS
Naphthalene*	<0.0005	0.0005	0.00004	mg/L	1	06/17/22 18:43	8260B		MS
1,2,3-Trichlorobenzene*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:43	8260B		MS
1,4-Dioxane	<0.100	0.100	0.029	mg/L	1	06/17/22 18:43	8260B		MS

Surrogate: Dibromofluoromethane	102 %	82.4-141		06/17/22 18:43	8260B		MS
Surrogate: Toluene-d8	99.6 %	87.1-110		06/17/22 18:43	8260B		MS
Surrogate: 4-Bromofluorobenzene	99.5 %	76.4-114		06/17/22 18:43	8260B		MS

Green Analytical Laboratories

Brenna Kampf, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
06/21/22 16:06

VOLATILES BY GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2061717 - Volatiles

Blank (2061717-BLK1)

Prepared & Analyzed: 06/17/22

1,1,1,2-Tetrachloroethane	ND	0.0005	mg/L
1,1,1-Trichloroethane	ND	0.0005	mg/L
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L
1,1,2-Trichloroethane	ND	0.0005	mg/L
1,1-Dichloroethane	ND	0.0005	mg/L
1,1-Dichloroethene	ND	0.0005	mg/L
1,1-Dichloropropene	ND	0.0005	mg/L
1,2,3-Trichlorobenzene	ND	0.0005	mg/L
1,2,4-Trichlorobenzene	ND	0.0005	mg/L
1,2,4-Trimethylbenzene	ND	0.0005	mg/L
1,2-Dibromo-3-chloropropane	ND	0.0005	mg/L
1,2-Dibromoethane	ND	0.0005	mg/L
1,2-Dichlorobenzene	ND	0.0005	mg/L
1,2-Dichloroethane	ND	0.0005	mg/L
1,2-Dichloropropane	ND	0.0005	mg/L
1,3,5-Trimethylbenzene	ND	0.0005	mg/L
1,3-Dichlorobenzene	ND	0.0005	mg/L
1,3-Dichloropropane	ND	0.0005	mg/L
1,4-Dichlorobenzene	ND	0.0005	mg/L
1,4-Dioxane	ND	0.100	mg/L
1,2,3-trichloropropane	ND	0.0005	mg/L
2,2-Dichloropropane	ND	0.0005	mg/L
2-Butanone	ND	0.002	mg/L
2-Chlorotoluene	ND	0.0005	mg/L
2-Hexanone	ND	0.001	mg/L

Surrogate: 4-Bromofluorobenzene	0.0249		mg/L	0.0250	99.4	76.4-114
4-Chlorotoluene	ND	0.0005	mg/L			
4-Methyl-2-pentanone	ND	0.001	mg/L			
Acetone	ND	0.010	mg/L			
Acrolein	ND	0.005	mg/L			
Acrylonitrile	ND	0.002	mg/L			
Benzene	ND	0.0005	mg/L			
Bromobenzene	ND	0.0005	mg/L			
Bromochloromethane	ND	0.0005	mg/L			
Bromodichloromethane	ND	0.0005	mg/L			
Bromoform	ND	0.0005	mg/L			

Green Analytical Laboratories

Brenna Kampf, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
06/21/22 16:06

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2061717 - Volatiles (Continued)

Blank (2061717-BLK1) (Continued)

Prepared & Analyzed: 06/17/22

Bromomethane	ND	0.0005	mg/L
Carbon disulfide	ND	0.001	mg/L
Carbon tetrachloride	ND	0.0005	mg/L
Chlorobenzene	ND	0.0005	mg/L
Chloroethane	ND	0.0005	mg/L
Chloroform	ND	0.0005	mg/L
Chloromethane	ND	0.0005	mg/L
cis-1,2-Dichloroethene	ND	0.0005	mg/L
cis-1,3-Dichloropropene	ND	0.0005	mg/L
Dibromochloromethane	ND	0.0005	mg/L

Surrogate: Dibromofluoromethane 0.0263 mg/L 0.0250 105 82.4-141

Dibromomethane	ND	0.0005	mg/L
Dichlorodifluoromethane	ND	0.0005	mg/L
Ethylbenzene	ND	0.0005	mg/L
Hexachlorobutadiene	ND	0.0005	mg/L
Iodomethane	ND	0.001	mg/L
Isopropylbenzene	ND	0.0005	mg/L
m+p - Xylene	ND	0.001	mg/L
Methyl t-Butyl Ether	ND	0.001	mg/L
Methylene chloride	ND	0.0005	mg/L
Naphthalene	ND	0.0005	mg/L
n-Butylbenzene	ND	0.0005	mg/L
n-Propylbenzene	ND	0.0005	mg/L
o-Xylene	ND	0.0005	mg/L
p-Isopropyltoluene	ND	0.0005	mg/L
sec-Butylbenzene	ND	0.0005	mg/L
Styrene	ND	0.0005	mg/L
tert-Butylbenzene	ND	0.0005	mg/L
Tetrachloroethene	ND	0.0005	mg/L
Toluene	ND	0.0005	mg/L

Surrogate: Toluene-d8 0.0250 mg/L 0.0250 100 87.1-110

Total Xylenes	ND	0.001	mg/L
trans-1,2-Dichloroethene	ND	0.0005	mg/L
trans-1,3-Dichloropropene	ND	0.0005	mg/L
trans-1,4-Dichloro-2-butene	ND	0.010	mg/L
Trichloroethene	ND	0.0005	mg/L
Trichlorofluoromethane	ND	0.0005	mg/L
Vinyl acetate	ND	0.0005	mg/L
Vinyl chloride	ND	0.0005	mg/L

Green Analytical Laboratories

Brenna Kampf, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
06/21/22 16:06

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2061717 - Volatiles (Continued)

LCS (2061717-BS1)

Prepared: 06/17/22 Analyzed: 06/20/22

1,1,1,2-Tetrachloroethane	0.021	0.0005	mg/L	0.0200		106	89.5-111			
1,1,1-Trichloroethane	0.021	0.0005	mg/L	0.0200		104	85.1-117			
1,1,2,2-Tetrachloroethane	0.020	0.0005	mg/L	0.0200		99.3	68.8-127			
1,1,2-Trichloroethane	0.021	0.0005	mg/L	0.0200		104	77.4-118			
1,1-Dichloroethane	0.019	0.0005	mg/L	0.0200		96.2	78.1-121			
1,1-Dichloroethene	0.022	0.0005	mg/L	0.0200		110	64-124			
1,1-Dichloropropene	0.020	0.0005	mg/L	0.0200		97.7	81-122			
1,2,3-Trichlorobenzene	0.022	0.0005	mg/L	0.0200		108	85.7-115			
1,2,4-Trichlorobenzene	0.022	0.0005	mg/L	0.0200		111	83.5-117			
1,2,4-Trimethylbenzene	0.020	0.0005	mg/L	0.0200		101	78.4-126			
1,2-Dibromo-3-chloropropane	0.021	0.0005	mg/L	0.0200		106	77.2-116			
1,2-Dibromoethane	0.020	0.0005	mg/L	0.0200		101	88.6-113			
1,2-Dichlorobenzene	0.019	0.0005	mg/L	0.0200		94.8	86.5-111			
1,2-Dichloroethane	0.021	0.0005	mg/L	0.0200		105	75.6-120			
1,2-Dichloropropane	0.020	0.0005	mg/L	0.0200		98.4	76.8-121			
1,3,5-Trimethylbenzene	0.020	0.0005	mg/L	0.0200		101	79.2-127			
1,3-Dichlorobenzene	0.021	0.0005	mg/L	0.0200		106	87.7-112			
1,3-Dichloropropane	0.020	0.0005	mg/L	0.0200		98.0	82.1-119			
1,4 Dichlorobenzene	0.021	0.0005	mg/L	0.0200		106	85.2-111			
1,4-Dioxane	0.466	0.100	mg/L	0.400		117	-34.9-102			BS1
1,2,3-trichloropropane	0.025	0.0005	mg/L	0.0200		125	53.2-135			
2,2-Dichloropropane	0.021	0.0005	mg/L	0.0200		104	74.3-136			
2-Butanone	0.044	0.002	mg/L	0.0400		110	65.6-132			
2-Chlorotoluene	0.020	0.0005	mg/L	0.0200		97.6	78.3-123			
2-Hexanone	0.040	0.001	mg/L	0.0400		101	66.6-126			
Surrogate: 4-Bromofluorobenzene	0.0253		mg/L	0.0250		101	76.4-114			
4-Chlorotoluene	0.020	0.0005	mg/L	0.0200		98.7	76.8-129			
4-Methyl-2-pentanone	0.040	0.001	mg/L	0.0400		100	67.7-128			
Acetone	0.048	0.010	mg/L	0.0400		120	54.3-140			
Acrolein	0.175	0.005	mg/L	0.200		87.7	29.4-149			
Acrylonitrile	0.041	0.002	mg/L	0.0400		103	60.8-143			
Benzene	0.020	0.0005	mg/L	0.0200		101	82.7-115			
Bromobenzene	0.019	0.0005	mg/L	0.0200		96.7	85.1-112			
Bromochloromethane	0.019	0.0005	mg/L	0.0200		95.6	77.8-118			
Bromodichloromethane	0.021	0.0005	mg/L	0.0200		105	82.7-118			
Bromoform	0.024	0.0005	mg/L	0.0200		121	76.1-133			
Bromomethane	0.020	0.0005	mg/L	0.0200		98.8	61.1-126			
Carbon disulfide	0.038	0.001	mg/L	0.0400		94.6	67.2-128			
Carbon tetrachloride	0.022	0.0005	mg/L	0.0200		109	89.7-117			

Green Analytical Laboratories

Brenna Kampf, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
06/21/22 16:06

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2061717 - Volatiles (Continued)

LCS (2061717-BS1) (Continued)

Prepared: 06/17/22 Analyzed: 06/20/22

Chlorobenzene	0.019	0.0005	mg/L	0.0200		97.0	86.2-112			
Chloroethane	0.018	0.0005	mg/L	0.0200		89.7	62.4-125			
Chloroform	0.021	0.0005	mg/L	0.0200		104	86.7-115			
Chloromethane	0.017	0.0005	mg/L	0.0200		82.7	47.1-145			
cis-1,2-Dichloroethene	0.020	0.0005	mg/L	0.0200		102	76-117			
cis-1,3-Dichloropropene	0.021	0.0005	mg/L	0.0200		107	80.9-123			
Dibromochloromethane	0.022	0.0005	mg/L	0.0200		108	88.7-121			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0264</i>		mg/L	<i>0.0250</i>		<i>105</i>	<i>82.4-141</i>			
Dibromomethane	0.021	0.0005	mg/L	0.0200		107	86.4-114			
Dichlorodifluoromethane	0.013	0.0005	mg/L	0.0200		63.0	36.1-160			
Ethylbenzene	0.019	0.0005	mg/L	0.0200		95.4	84.3-117			
Hexachlorobutadiene	0.025	0.0005	mg/L	0.0200		126	94.3-116			BS1
Iodomethane	0.040	0.001	mg/L	0.0400		100	77.4-124			
Isopropylbenzene	0.021	0.0005	mg/L	0.0200		105	88.1-114			
m+p - Xylene	0.042	0.001	mg/L	0.0400		105	85.9-122			
Methyl t-Butyl Ether	0.039	0.001	mg/L	0.0400		97.4	78.9-118			
Methylene chloride	0.016	0.0005	mg/L	0.0200		77.8	64.2-134			
Naphthalene	0.021	0.0005	mg/L	0.0200		106	80.6-121			
n-Butylbenzene	0.021	0.0005	mg/L	0.0200		107	82.2-123			
n-Propylbenzene	0.019	0.0005	mg/L	0.0200		96.4	78.9-125			
o-Xylene	0.020	0.0005	mg/L	0.0200		102	85.6-112			
p-Isopropyltoluene	0.020	0.0005	mg/L	0.0200		99.0	82.5-123			
sec-Butylbenzene	0.020	0.0005	mg/L	0.0200		99.1	82.1-128			
Styrene	0.020	0.0005	mg/L	0.0200		99.9	78.3-117			
tert-Butylbenzene	0.021	0.0005	mg/L	0.0200		104	79.5-129			
Tetrachloroethene	0.021	0.0005	mg/L	0.0200		107	86.6-110			
Toluene	0.020	0.0005	mg/L	0.0200		102	82.8-112			
<i>Surrogate: Toluene-d8</i>	<i>0.0251</i>		mg/L	<i>0.0250</i>		<i>100</i>	<i>87.1-110</i>			
Total Xylenes	0.063	0.001	mg/L	0.0600		104	86.5-118			
trans-1,2-Dichloroethene	0.022	0.0005	mg/L	0.0200		109	69.2-119			
trans-1,3-Dichloropropene	0.021	0.0005	mg/L	0.0200		106	77.4-131			
trans-1,4-Dichloro-2-butene	0.035	0.010	mg/L	0.0400		88.4	41.4-204			
Trichloroethene	0.020	0.0005	mg/L	0.0200		102	82.2-114			
Trichlorofluoromethane	0.018	0.0005	mg/L	0.0200		89.8	78.2-126			
Vinyl acetate	0.018	0.0005	mg/L	0.0200		89.6	56.2-148			
Vinyl chloride	0.016	0.0005	mg/L	0.0200		78.8	62-135			

LCS Dup (2061717-BSD1)

Prepared: 06/17/22 Analyzed: 06/20/22

1,1,1,2-Tetrachloroethane	0.020	0.0005	mg/L	0.0200		102	89.5-111	4.33	6.88	
---------------------------	-------	--------	------	--------	--	-----	----------	------	------	--

Green Analytical Laboratories

Brenna Kampf, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
06/21/22 16:06

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2061717 - Volatiles (Continued)

LCS Dup (2061717-BSD1) (Continued)

Prepared: 06/17/22 Analyzed: 06/20/22

1,1,1-Trichloroethane	0.020	0.0005	mg/L	0.0200		102	85.1-117	2.33	7.43	
1,1,2,2-Tetrachloroethane	0.019	0.0005	mg/L	0.0200		96.8	68.8-127	2.50	8.68	
1,1,2-Trichloroethane	0.021	0.0005	mg/L	0.0200		105	77.4-118	0.575	6.82	
1,1-Dichloroethane	0.019	0.0005	mg/L	0.0200		93.4	78.1-121	2.90	4.3	
1,1-Dichloroethene	0.022	0.0005	mg/L	0.0200		109	64-124	1.24	16.5	
1,1-Dichloropropene	0.020	0.0005	mg/L	0.0200		99.8	81-122	2.13	5.47	
1,2,3-Trichlorobenzene	0.021	0.0005	mg/L	0.0200		105	85.7-115	2.48	43	
1,2,4-Trichlorobenzene	0.022	0.0005	mg/L	0.0200		109	83.5-117	2.14	22.3	
1,2,4-Trimethylbenzene	0.020	0.0005	mg/L	0.0200		100	78.4-126	1.19	8.94	
1,2-Dibromo-3-chloropropane	0.021	0.0005	mg/L	0.0200		106	77.2-116	0.236	15.1	
1,2-Dibromoethane	0.020	0.0005	mg/L	0.0200		101	88.6-113	0.0494	5.83	
1,2-Dichlorobenzene	0.019	0.0005	mg/L	0.0200		97.4	86.5-111	2.65	8.72	
1,2-Dichloroethane	0.022	0.0005	mg/L	0.0200		108	75.6-120	3.33	8.94	
1,2-Dichloropropane	0.020	0.0005	mg/L	0.0200		99.7	76.8-121	1.26	5.51	
1,3,5-Trimethylbenzene	0.020	0.0005	mg/L	0.0200		99.7	79.2-127	0.849	16.5	
1,3-Dichlorobenzene	0.021	0.0005	mg/L	0.0200		105	87.7-112	0.332	9	
1,3-Dichloropropane	0.020	0.0005	mg/L	0.0200		98.6	82.1-119	0.560	6.06	
1,4 Dichlorobenzene	0.021	0.0005	mg/L	0.0200		103	85.2-111	2.25	7.71	
1,4-Dioxane	0.408	0.100	mg/L	0.400		102	-34.9-102	13.4	35.2	
1,2,3-trichloropropane	0.020	0.0005	mg/L	0.0200		99.6	53.2-135	22.8	49.2	
2,2-Dichloropropane	0.020	0.0005	mg/L	0.0200		102	74.3-136	1.36	9.62	
2-Butanone	0.041	0.002	mg/L	0.0400		102	65.6-132	7.82	14.2	
2-Chlorotoluene	0.020	0.0005	mg/L	0.0200		100	78.3-123	2.93	8.62	
2-Hexanone	0.039	0.001	mg/L	0.0400		98.6	66.6-126	2.06	7.28	
Surrogate: 4-Bromofluorobenzene	0.0252		mg/L	0.0250		101	76.4-114			
4-Chlorotoluene	0.020	0.0005	mg/L	0.0200		98.8	76.8-129	0.152	15.5	
4-Methyl-2-pentanone	0.039	0.001	mg/L	0.0400		98.4	67.7-128	1.59	7.57	
Acetone	0.043	0.010	mg/L	0.0400		108	54.3-140	10.1	30.5	
Acrolein	0.171	0.005	mg/L	0.200		85.7	29.4-149	2.27	22.4	
Acrylonitrile	0.040	0.002	mg/L	0.0400		100	60.8-143	3.25	7.62	
Benzene	0.021	0.0005	mg/L	0.0200		103	82.7-115	2.02	4.16	
Bromobenzene	0.020	0.0005	mg/L	0.0200		100	85.1-112	3.70	8.41	
Bromochloromethane	0.019	0.0005	mg/L	0.0200		94.0	77.8-118	1.63	5.16	
Bromodichloromethane	0.020	0.0005	mg/L	0.0200		102	82.7-118	2.89	5.36	
Bromoform	0.024	0.0005	mg/L	0.0200		118	76.1-133	2.60	14.1	
Bromomethane	0.019	0.0005	mg/L	0.0200		94.1	61.1-126	4.87	21.5	
Carbon disulfide	0.037	0.001	mg/L	0.0400		93.7	67.2-128	0.956	20.3	
Carbon tetrachloride	0.022	0.0005	mg/L	0.0200		108	89.7-117	0.601	11.4	
Chlorobenzene	0.019	0.0005	mg/L	0.0200		97.2	86.2-112	0.257	5.18	

Green Analytical Laboratories

Brenna Kampf, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
06/21/22 16:06

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2061717 - Volatiles (Continued)

LCS Dup (2061717-BSD1) (Continued)

Prepared: 06/17/22 Analyzed: 06/20/22

Chloroethane	0.017	0.0005	mg/L	0.0200		85.3	62.4-125	5.03	24.1	
Chloroform	0.021	0.0005	mg/L	0.0200		104	86.7-115	0.0959	5.15	
Chloromethane	0.018	0.0005	mg/L	0.0200		91.1	47.1-145	9.67	27	
cis-1,2-Dichloroethene	0.020	0.0005	mg/L	0.0200		102	76-117	0.932	5.73	
cis-1,3-Dichloropropene	0.021	0.0005	mg/L	0.0200		104	80.9-123	3.04	6.09	
Dibromochloromethane	0.022	0.0005	mg/L	0.0200		109	88.7-121	0.369	7.24	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0259</i>		mg/L	<i>0.0250</i>		<i>104</i>	<i>82.4-141</i>			
Dibromomethane	0.021	0.0005	mg/L	0.0200		107	86.4-114	0.0466	5.75	
Dichlorodifluoromethane	0.012	0.0005	mg/L	0.0200		61.9	36.1-160	1.68	22.6	
Ethylbenzene	0.019	0.0005	mg/L	0.0200		95.0	84.3-117	0.525	4.83	
Hexachlorobutadiene	0.026	0.0005	mg/L	0.0200		130	94.3-116	2.77	18.4	BS1
Iodomethane	0.040	0.001	mg/L	0.0400		100	77.4-124	0.0749	24.3	
Isopropylbenzene	0.020	0.0005	mg/L	0.0200		102	88.1-114	2.91	6.25	
m+p - Xylene	0.042	0.001	mg/L	0.0400		106	85.9-122	1.11	5.77	
Methyl t-Butyl Ether	0.039	0.001	mg/L	0.0400		97.8	78.9-118	0.410	12.8	
Methylene chloride	0.015	0.0005	mg/L	0.0200		73.8	64.2-134	5.34	19.7	
Naphthalene	0.021	0.0005	mg/L	0.0200		107	80.6-121	0.798	33.5	
n-Butylbenzene	0.021	0.0005	mg/L	0.0200		107	82.2-123	0.328	10.1	
n-Propylbenzene	0.019	0.0005	mg/L	0.0200		96.4	78.9-125	0.104	9.09	
o-Xylene	0.020	0.0005	mg/L	0.0200		101	85.6-112	1.28	6.29	
p-Isopropyltoluene	0.020	0.0005	mg/L	0.0200		99.0	82.5-123	0.0505	9.26	
sec-Butylbenzene	0.019	0.0005	mg/L	0.0200		97.1	82.1-128	2.04	9.85	
Styrene	0.020	0.0005	mg/L	0.0200		102	78.3-117	1.74	7.55	
tert-Butylbenzene	0.019	0.0005	mg/L	0.0200		92.9	79.5-129	11.5	18.6	
Tetrachloroethene	0.021	0.0005	mg/L	0.0200		106	86.6-110	0.470	6.38	
Toluene	0.020	0.0005	mg/L	0.0200		97.7	82.8-112	4.31	5.67	
<i>Surrogate: Toluene-d8</i>	<i>0.0247</i>		mg/L	<i>0.0250</i>		<i>99.0</i>	<i>87.1-110</i>			
Total Xylenes	0.063	0.001	mg/L	0.0600		105	86.5-118	0.335	5.83	
trans-1,2-Dichloroethene	0.022	0.0005	mg/L	0.0200		111	69.2-119	1.78	19.1	
trans-1,3-Dichloropropene	0.020	0.0005	mg/L	0.0200		102	77.4-131	3.42	6.26	
trans-1,4-Dichloro-2-butene	0.023	0.010	mg/L	0.0400		58.6	41.4-204	40.6	92.8	
Trichloroethene	0.021	0.0005	mg/L	0.0200		105	82.2-114	2.18	4.92	
Trichlorofluoromethane	0.018	0.0005	mg/L	0.0200		91.8	78.2-126	2.15	19.8	
Vinyl acetate	0.017	0.0005	mg/L	0.0200		86.5	56.2-148	3.52	7.84	
Vinyl chloride	0.016	0.0005	mg/L	0.0200		78.3	62-135	0.700	23	

Green Analytical Laboratories

Brenna Kampf, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
06/21/22 16:06

Notes and Definitions

BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.

RPD Relative Percent Difference

LCS Laboratory Control Sample (Blank Spike)

RL Report Limit

MDL Method Detection Limit

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Brenna Kampf'.

Brenna Kampf, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



(970) 247-4220
Fax: (970) 247-4227

service@greenanalytical.com or dzufelt@greenanalytical.com
75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

COTTONWOOD CONSULTING LLC

MONITOR WELL DEVELOPMENT & /OR SAMPLING DATA

CLIENT : SIMCOE LLC

MUDGE B # 12R
 UNIT A, SEC. 17, T31N, R11W

LABORATORY (S) USED :

GAL

Date :

9/15/22

DEVELOPER / SAMPLER :

EM/KO

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	-	-	44.02	49.90	-	-	-	-	-
2	-	-	42.77	46.40	1205	7.79	8910	23.7	1.75
3	-	-	42.32	44.00	-	-	-	-	-

1.00

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
 (i.e. 2" MW $r = (1/12) \text{ ft}$. $h = 1 \text{ ft}$.) (i.e. 4" MW $r = (2/12) \text{ ft}$. $h = 1 \text{ ft}$.)

Ideally a minimum of three (3) wellbore volumes:

1.50" well diameter = 0.28 gal./ft. of water.

2.00" well diameter = 0.49 gal./ft. of water.

Comments or note well diameter if not standard 2".

Purged available water in MW #2 using 1.5 inch submersible electrical pump and new / clear vinyl tubing.

MW #2 collected at 1205, grey tint, no bubbles, very slight hydrocarbon odor, no sheen, no sediment.

Top of casing MW #1 ~ 3.00 ft. , MW #2 ~ 3.04 ft. , MW #3 ~ 3.00 ft. above grade .

on-site	<u>1140</u>	temp	<u>~75°</u>
off-site		temp	
sky cond.	<u>clear</u>		
wind speed	<u>none</u>	direct.	



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
970.247.4227 Fax
www.greenanalytical.com

27 September 2022

Kyle Siesser
Cottonwood Consulting
PO Box 1653
Durango, CO 81302
RE: VOC 8260

Enclosed are the results of analyses for samples received by the laboratory on 09/15/22 14:10. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, reading 'Jeremy D. Allen', is written in a cursive style.

Jeremy D Allen
Laboratory Director

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-22-15

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-22-15



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
09/27/22 09:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #2	2209198-01	Water	09/15/22 12:05	09/15/22 14:10	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

Page 2 of 13 2209198 GAL FINAL 09 27 22 0951 09/27/22 09:51:21



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
09/27/22 09:51

MW #2

2209198-01 (Ground Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Dichlorodifluoromethane*	<0.0005	0.0005	0.00009	mg/L	1	09/21/22 22:22	8260B		CK
Chloromethane*	<0.0005	0.0005	0.00006	mg/L	1	09/21/22 22:22	8260B		CK
Vinyl chloride*	<0.0005	0.0005	0.00005	mg/L	1	09/21/22 22:22	8260B		CK
Bromomethane*	<0.0005	0.0005	0.00005	mg/L	1	09/21/22 22:22	8260B		CK
Chloroethane*	<0.0005	0.0005	0.0001	mg/L	1	09/21/22 22:22	8260B		CK
Trichlorofluoromethane*	<0.0005	0.0005	0.00003	mg/L	1	09/21/22 22:22	8260B		CK
1,1-Dichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	09/21/22 22:22	8260B		CK
Carbon disulfide*	<0.001	0.001	0.0003	mg/L	1	09/21/22 22:22	8260B		CK
Iodomethane	<0.001	0.001	0.0001	mg/L	1	09/21/22 22:22	8260B		CK
Acrolein*	<0.005	0.005	0.0007	mg/L	1	09/21/22 22:22	8260B		CK
Methylene chloride*	<0.0005	0.0005	0.0003	mg/L	1	09/21/22 22:22	8260B		CK
Acetone*	<0.010	0.010	0.006	mg/L	1	09/21/22 22:22	8260B		CK
trans-1,2-Dichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	09/21/22 22:22	8260B		CK
Methyl t-Butyl Ether*	<0.001	0.001	0.0003	mg/L	1	09/21/22 22:22	8260B		CK
1,1-Dichloroethane*	<0.0005	0.0005	0.00008	mg/L	1	09/21/22 22:22	8260B		CK
Acrylonitrile*	<0.002	0.002	0.002	mg/L	1	09/21/22 22:22	8260B		CK
Vinyl acetate*	<0.0005	0.0005	0.0004	mg/L	1	09/21/22 22:22	8260B		CK
cis-1,2-Dichloroethene*	<0.0005	0.0005	0.0001	mg/L	1	09/21/22 22:22	8260B		CK
2,2-Dichloropropane*	<0.0005	0.0005	0.0003	mg/L	1	09/21/22 22:22	8260B		CK
Bromochloromethane*	<0.0005	0.0005	0.00007	mg/L	1	09/21/22 22:22	8260B		CK
Chloroform*	<0.0005	0.0005	0.00005	mg/L	1	09/21/22 22:22	8260B		CK
Carbon tetrachloride*	<0.0005	0.0005	0.0001	mg/L	1	09/21/22 22:22	8260B		CK
1,1,1-Trichloroethane*	<0.0005	0.0005	0.0001	mg/L	1	09/21/22 22:22	8260B		CK
1,1-Dichloropropene*	<0.0005	0.0005	0.00007	mg/L	1	09/21/22 22:22	8260B		CK
2-Butanone*	<0.002	0.002	0.002	mg/L	1	09/21/22 22:22	8260B		CK
Benzene*	0.004	0.0005	0.00009	mg/L	1	09/21/22 22:22	8260B		CK
1,2-Dichloroethane*	<0.0005	0.0005	0.0001	mg/L	1	09/21/22 22:22	8260B		CK
Trichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	09/21/22 22:22	8260B		CK
Dibromomethane*	<0.0005	0.0005	0.0002	mg/L	1	09/21/22 22:22	8260B		CK
1,2-Dichloropropane*	<0.0005	0.0005	0.0001	mg/L	1	09/21/22 22:22	8260B		CK
Bromodichloromethane*	<0.0005	0.0005	0.00007	mg/L	1	09/21/22 22:22	8260B		CK
cis-1,3-Dichloropropene*	<0.0005	0.0005	0.00006	mg/L	1	09/21/22 22:22	8260B		CK

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
09/27/22 09:51

MW #2

2209198-01 (Ground Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Toluene*	<0.0005	0.0005	0.00007	mg/L	1	09/21/22 22:22	8260B		CK
4-Methyl-2-pentanone*	<0.001	0.001	0.0001	mg/L	1	09/21/22 22:22	8260B		CK
Tetrachloroethene*	<0.0005	0.0005	0.0001	mg/L	1	09/21/22 22:22	8260B		CK
trans-1,3-Dichloropropene*	<0.0005	0.0005	0.00008	mg/L	1	09/21/22 22:22	8260B		CK
1,1,2-Trichloroethane*	<0.0005	0.0005	0.00006	mg/L	1	09/21/22 22:22	8260B		CK
Dibromochloromethane*	<0.0005	0.0005	0.00006	mg/L	1	09/21/22 22:22	8260B		CK
1,3-Dichloropropane*	<0.0005	0.0005	0.00001	mg/L	1	09/21/22 22:22	8260B		CK
1,2-Dibromoethane*	<0.0005	0.0005	0.0001	mg/L	1	09/21/22 22:22	8260B		CK
2-Hexanone*	<0.001	0.001	0.0001	mg/L	1	09/21/22 22:22	8260B		CK
Chlorobenzene*	<0.0005	0.0005	0.00002	mg/L	1	09/21/22 22:22	8260B		CK
Ethylbenzene*	<0.0005	0.0005	0.00009	mg/L	1	09/21/22 22:22	8260B		CK
1,1,1,2-Tetrachloroethane*	<0.0005	0.0005	0.00006	mg/L	1	09/21/22 22:22	8260B		CK
m+p - Xylene*	<0.001	0.001	0.0005	mg/L	1	09/21/22 22:22	8260B		CK
o-Xylene*	<0.0005	0.0005	0.00007	mg/L	1	09/21/22 22:22	8260B		CK
Total Xylenes*	<0.001	0.001	0.0005	mg/L	1	09/21/22 22:22	8260B		CK
Bromoform*	<0.0005	0.0005	0.00006	mg/L	1	09/21/22 22:22	8260B		CK
Styrene*	<0.0005	0.0005	0.00002	mg/L	1	09/21/22 22:22	8260B		CK
Isopropylbenzene*	<0.0005	0.0005	0.00002	mg/L	1	09/21/22 22:22	8260B		CK
Bromobenzene*	<0.0005	0.0005	0.00003	mg/L	1	09/21/22 22:22	8260B		CK
n-Propylbenzene*	<0.0005	0.0005	0.00001	mg/L	1	09/21/22 22:22	8260B		CK
1,1,2,2-Tetrachloroethane*	<0.0005	0.0005	0.00006	mg/L	1	09/21/22 22:22	8260B		CK
2-Chlorotoluene*	<0.0005	0.0005	0.00004	mg/L	1	09/21/22 22:22	8260B		CK
1,2,3-trichloropropane*	<0.0005	0.0005	0.00005	mg/L	1	09/21/22 22:22	8260B		CK
1,3,5-Trimethylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	09/21/22 22:22	8260B		CK
trans-1,4-Dichloro-2-butene	<0.010	0.010	0.006	mg/L	1	09/21/22 22:22	8260B		CK
4-Chlorotoluene*	<0.0005	0.0005	0.00003	mg/L	1	09/21/22 22:22	8260B		CK
tert-Butylbenzene*	<0.0005	0.0005	0.00006	mg/L	1	09/21/22 22:22	8260B		CK
1,2,4-Trimethylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	09/21/22 22:22	8260B		CK
sec-Butylbenzene*	<0.0005	0.0005	0.00002	mg/L	1	09/21/22 22:22	8260B		CK
p-Isopropyltoluene*	<0.0005	0.0005	0.00003	mg/L	1	09/21/22 22:22	8260B		CK
1,3-Dichlorobenzene*	<0.0005	0.0005	0.00004	mg/L	1	09/21/22 22:22	8260B		CK
1,4 Dichlorobenzene*	<0.0005	0.0005	0.00004	mg/L	1	09/21/22 22:22	8260B		CK

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
09/27/22 09:51

MW #2

2209198-01 (Ground Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

n-Butylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	09/21/22 22:22	8260B		CK
1,2-Dichlorobenzene*	<0.0005	0.0005	0.00006	mg/L	1	09/21/22 22:22	8260B		CK
1,2-Dibromo-3-chloropropane*	<0.0005	0.0005	0.0002	mg/L	1	09/21/22 22:22	8260B		CK
Hexachlorobutadiene*	<0.001	0.001	0.0001	mg/L	1	09/21/22 22:22	8260B		CK
1,2,4-Trichlorobenzene*	<0.0005	0.0005	0.00009	mg/L	1	09/21/22 22:22	8260B		CK
Naphthalene*	<0.0005	0.0005	0.00004	mg/L	1	09/21/22 22:22	8260B		CK
1,2,3-Trichlorobenzene*	<0.0005	0.0005	0.0001	mg/L	1	09/21/22 22:22	8260B		CK
1,4-Dioxane	<0.100	0.100	0.029	mg/L	1	09/21/22 22:22	8260B		CK
Surrogate: Dibromofluoromethane			98.2 %	82.4-141		09/21/22 22:22	8260B		CK
Surrogate: Toluene-d8			99.9 %	87.1-110		09/21/22 22:22	8260B		CK
Surrogate: 4-Bromofluorobenzene			104 %	76.4-114		09/21/22 22:22	8260B		CK

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
09/27/22 09:51

VOLATILES BY GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2091620 - Volatiles

Blank (2091620-BLK1)

Prepared & Analyzed: 09/21/22

1,1,1,2-Tetrachloroethane	ND	0.0005	mg/L
1,1,1-Trichloroethane	ND	0.0005	mg/L
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L
1,1,2-Trichloroethane	ND	0.0005	mg/L
1,1-Dichloroethane	ND	0.0005	mg/L
1,1-Dichloroethene	ND	0.0005	mg/L
1,1-Dichloropropene	ND	0.0005	mg/L
1,2,3-Trichlorobenzene	ND	0.0005	mg/L
1,2,4-Trichlorobenzene	ND	0.0005	mg/L
1,2,4-Trimethylbenzene	ND	0.0005	mg/L
1,2-Dibromo-3-chloropropane	ND	0.0005	mg/L
1,2-Dibromoethane	ND	0.0005	mg/L
1,2-Dichlorobenzene	ND	0.0005	mg/L
1,2-Dichloroethane	ND	0.0005	mg/L
1,2-Dichloropropane	ND	0.0005	mg/L
1,3,5-Trimethylbenzene	ND	0.0005	mg/L
1,3-Dichlorobenzene	ND	0.0005	mg/L
1,3-Dichloropropane	ND	0.0005	mg/L
1,4-Dichlorobenzene	ND	0.0005	mg/L
1,4-Dioxane	ND	0.100	mg/L
1,2,3-trichloropropane	ND	0.0005	mg/L
2,2-Dichloropropane	ND	0.0005	mg/L
2-Butanone	ND	0.002	mg/L
2-Chlorotoluene	ND	0.0005	mg/L
2-Hexanone	ND	0.001	mg/L

Surrogate: 4-Bromofluorobenzene	0.0264		mg/L	0.0250	106	76.4-114
4-Chlorotoluene	ND	0.0005	mg/L			
4-Methyl-2-pentanone	ND	0.001	mg/L			
Acetone	ND	0.010	mg/L			
Acrolein	ND	0.005	mg/L			
Acrylonitrile	ND	0.002	mg/L			
Benzene	ND	0.0005	mg/L			
Bromobenzene	ND	0.0005	mg/L			
Bromochloromethane	ND	0.0005	mg/L			
Bromodichloromethane	ND	0.0005	mg/L			
Bromoform	ND	0.0005	mg/L			

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
09/27/22 09:51

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2091620 - Volatiles (Continued)

Blank (2091620-BLK1) (Continued)

Prepared & Analyzed: 09/21/22

Bromomethane	ND	0.0005	mg/L							
Carbon disulfide	ND	0.001	mg/L							
Carbon tetrachloride	ND	0.0005	mg/L							
Chlorobenzene	ND	0.0005	mg/L							
Chloroethane	ND	0.0005	mg/L							
Chloroform	ND	0.0005	mg/L							
Chloromethane	ND	0.0005	mg/L							
cis-1,2-Dichloroethene	ND	0.0005	mg/L							
cis-1,3-Dichloropropene	ND	0.0005	mg/L							
Dibromochloromethane	ND	0.0005	mg/L							
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0243</i>		mg/L	<i>0.0250</i>		<i>97.1</i>	<i>82.4-141</i>			
Dibromomethane	ND	0.0005	mg/L							
Dichlorodifluoromethane	ND	0.0005	mg/L							
Ethylbenzene	ND	0.0005	mg/L							
Hexachlorobutadiene	0.0006	0.0005	mg/L							
Iodomethane	ND	0.001	mg/L							
Isopropylbenzene	ND	0.0005	mg/L							
m+p - Xylene	ND	0.001	mg/L							
Methyl t-Butyl Ether	ND	0.001	mg/L							
Methylene chloride	ND	0.0005	mg/L							
Naphthalene	ND	0.0005	mg/L							
n-Butylbenzene	ND	0.0005	mg/L							
n-Propylbenzene	ND	0.0005	mg/L							
o-Xylene	ND	0.0005	mg/L							
p-Isopropyltoluene	ND	0.0005	mg/L							
sec-Butylbenzene	ND	0.0005	mg/L							
Styrene	ND	0.0005	mg/L							
tert-Butylbenzene	ND	0.0005	mg/L							
Tetrachloroethene	ND	0.0005	mg/L							
Toluene	ND	0.0005	mg/L							
<i>Surrogate: Toluene-d8</i>	<i>0.0252</i>		mg/L	<i>0.0250</i>		<i>101</i>	<i>87.1-110</i>			
Total Xylenes	ND	0.001	mg/L							
trans-1,2-Dichloroethene	ND	0.0005	mg/L							
trans-1,3-Dichloropropene	ND	0.0005	mg/L							
trans-1,4-Dichloro-2-butene	ND	0.010	mg/L							
Trichloroethene	ND	0.0005	mg/L							
Trichlorofluoromethane	ND	0.0005	mg/L							
Vinyl acetate	ND	0.0005	mg/L							
Vinyl chloride	ND	0.0005	mg/L							

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

Page 7 of 13 2209198 GAL FINAL 09 27 22 0951 09/27/22 09:51:21



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
09/27/22 09:51

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2091620 - Volatiles (Continued)

LCS (2091620-BS1)

Prepared & Analyzed: 09/21/22

1,1,1,2-Tetrachloroethane	0.021	0.0005	mg/L	0.0200		105	77.2-132			
1,1,1-Trichloroethane	0.021	0.0005	mg/L	0.0200		103	84.9-121			
1,1,2,2-Tetrachloroethane	0.020	0.0005	mg/L	0.0200		102	83-118			
1,1,2-Trichloroethane	0.021	0.0005	mg/L	0.0200		103	85.8-121			
1,1-Dichloroethane	0.019	0.0005	mg/L	0.0200		95.2	82.3-134			
1,1-Dichloroethene	0.018	0.0005	mg/L	0.0200		89.8	69.4-135			
1,1-Dichloropropene	0.021	0.0005	mg/L	0.0200		105	79-126			
1,2,3-Trichlorobenzene	0.023	0.0005	mg/L	0.0200		117	66-144			
1,2,4-Trichlorobenzene	0.026	0.0005	mg/L	0.0200		130	66-139			
1,2,4-Trimethylbenzene	0.024	0.0005	mg/L	0.0200		118	85.2-120			
1,2-Dibromo-3-chloropropane	0.021	0.0005	mg/L	0.0200		104	85.9-113			
1,2-Dibromoethane	0.020	0.0005	mg/L	0.0200		99.8	84.9-118			
1,2-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		102	85.1-112			
1,2-Dichloroethane	0.018	0.0005	mg/L	0.0200		91.4	80.8-125			
1,2-Dichloropropane	0.020	0.0005	mg/L	0.0200		99.7	83.2-124			
1,3,5-Trimethylbenzene	0.023	0.0005	mg/L	0.0200		114	84.3-120			
1,3-Dichlorobenzene	0.021	0.0005	mg/L	0.0200		105	84.9-110			
1,3-Dichloropropane	0.020	0.0005	mg/L	0.0200		101	88.8-117			
1,4 Dichlorobenzene	0.020	0.0005	mg/L	0.0200		101	80.9-112			
1,4-Dioxane	0.389	0.100	mg/L	2.00		19.5	-99.5-195			
1,2,3-trichloropropane	0.030	0.0005	mg/L	0.0200		150	6.02-213			
2,2-Dichloropropane	0.021	0.0005	mg/L	0.0200		106	59.7-146			
2-Butanone	0.041	0.002	mg/L	0.0400		102	69.2-152			
2-Chlorotoluene	0.021	0.0005	mg/L	0.0200		107	84.7-117			
2-Hexanone	0.047	0.001	mg/L	0.0400		116	66-142			
Surrogate: 4-Bromofluorobenzene	0.0270		mg/L	0.0250		108	76.4-114			
4-Chlorotoluene	0.022	0.0005	mg/L	0.0200		112	81.8-122			
4-Methyl-2-pentanone	0.042	0.001	mg/L	0.0400		105	75.9-139			
Acetone	0.039	0.010	mg/L	0.0400		97.2	47.7-194			
Acrolein	0.170	0.005	mg/L	0.200		85.2	46.2-182			
Acrylonitrile	0.039	0.002	mg/L	0.0400		97.4	69.5-152			
Benzene	0.019	0.0005	mg/L	0.0200		96.0	85.9-114			
Bromobenzene	0.021	0.0005	mg/L	0.0200		105	85.7-113			
Bromochloromethane	0.018	0.0005	mg/L	0.0200		91.4	74.2-140			
Bromodichloromethane	0.019	0.0005	mg/L	0.0200		97.0	82-126			
Bromoform	0.020	0.0005	mg/L	0.0200		99.8	80.3-140			
Bromomethane	0.018	0.0005	mg/L	0.0200		89.2	69.3-136			
Carbon disulfide	0.038	0.001	mg/L	0.0400		96.1	74.2-141			
Carbon tetrachloride	0.022	0.0005	mg/L	0.0200		111	85.8-125			

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
09/27/22 09:51

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2091620 - Volatiles (Continued)

LCS (2091620-BS1) (Continued)

Prepared & Analyzed: 09/21/22

Chlorobenzene	0.020	0.0005	mg/L	0.0200		99.8	88.8-112			
Chloroethane	0.016	0.0005	mg/L	0.0200		81.5	73.8-135			
Chloroform	0.019	0.0005	mg/L	0.0200		95.5	88.1-124			
Chloromethane	0.018	0.0005	mg/L	0.0200		88.9	59.9-154			
cis-1,2-Dichloroethene	0.019	0.0005	mg/L	0.0200		96.8	85.8-117			
cis-1,3-Dichloropropene	0.021	0.0005	mg/L	0.0200		105	84.6-125			
Dibromochloromethane	0.020	0.0005	mg/L	0.0200		102	88.2-121			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0244</i>		mg/L	<i>0.0250</i>		<i>97.7</i>	<i>82.4-141</i>			
Dibromomethane	0.018	0.0005	mg/L	0.0200		91.1	73.5-132			
Dichlorodifluoromethane	0.018	0.0005	mg/L	0.0200		91.9	63.3-132			
Ethylbenzene	0.021	0.0005	mg/L	0.0200		105	81.8-127			
Hexachlorobutadiene	0.024	0.0005	mg/L	0.0200		122	52.9-152			
Iodomethane	0.039	0.001	mg/L	0.0400		98.5	72.5-133			
Isopropylbenzene	0.023	0.0005	mg/L	0.0200		114	75.7-136			
m+p - Xylene	0.042	0.001	mg/L	0.0400		106	72.4-134			
Methyl t-Butyl Ether	0.041	0.001	mg/L	0.0400		102	75.3-137			
Methylene chloride	0.020	0.0005	mg/L	0.0200		97.8	74.8-131			
Naphthalene	0.024	0.0005	mg/L	0.0200		119	59.3-140			
n-Butylbenzene	0.024	0.0005	mg/L	0.0200		119	70.1-136			
n-Propylbenzene	0.022	0.0005	mg/L	0.0200		112	83-121			
o-Xylene	0.021	0.0005	mg/L	0.0200		107	76.2-135			
p-Isopropyltoluene	0.025	0.0005	mg/L	0.0200		125	81.8-124			BS1
sec-Butylbenzene	0.024	0.0005	mg/L	0.0200		121	78.4-128			
Styrene	0.021	0.0005	mg/L	0.0200		106	75.7-128			
tert-Butylbenzene	0.023	0.0005	mg/L	0.0200		116	90.8-119			
Tetrachloroethene	0.022	0.0005	mg/L	0.0200		110	66.8-126			
Toluene	0.020	0.0005	mg/L	0.0200		99.6	78.8-121			
<i>Surrogate: Toluene-d8</i>	<i>0.0257</i>		mg/L	<i>0.0250</i>		<i>103</i>	<i>87.1-110</i>			
Total Xylenes	0.064	0.001	mg/L	0.0600		106	74.3-134			
trans-1,2-Dichloroethene	0.018	0.0005	mg/L	0.0200		91.8	80.4-125			
trans-1,3-Dichloropropene	0.021	0.0005	mg/L	0.0200		103	84-128			
trans-1,4-Dichloro-2-butene	0.033	0.010	mg/L	0.0400		83.2	18.7-238			
Trichloroethene	0.019	0.0005	mg/L	0.0200		97.4	73.1-117			
Trichlorofluoromethane	0.018	0.0005	mg/L	0.0200		90.4	71.9-138			
Vinyl acetate	0.017	0.0005	mg/L	0.0200		84.4	39.5-167			
Vinyl chloride	0.018	0.0005	mg/L	0.0200		90.6	73.4-137			

LCS Dup (2091620-BSD1)

Prepared & Analyzed: 09/21/22

1,1,1,2-Tetrachloroethane	0.021	0.0005	mg/L	0.0200		103	77.2-132	1.39	6.88	
---------------------------	-------	--------	------	--------	--	-----	----------	------	------	--

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
09/27/22 09:51

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2091620 - Volatiles (Continued)

LCS Dup (2091620-BSD1) (Continued)

Prepared & Analyzed: 09/21/22

1,1,1-Trichloroethane	0.020	0.0005	mg/L	0.0200		102	84.9-121	0.633	7.43	
1,1,2,2-Tetrachloroethane	0.019	0.0005	mg/L	0.0200		97.4	83-118	4.76	8.68	
1,1,2-Trichloroethane	0.020	0.0005	mg/L	0.0200		101	85.8-121	1.76	6.82	
1,1-Dichloroethane	0.019	0.0005	mg/L	0.0200		94.5	82.3-134	0.791	4.3	
1,1-Dichloroethene	0.018	0.0005	mg/L	0.0200		90.3	69.4-135	0.500	16.5	
1,1-Dichloropropene	0.021	0.0005	mg/L	0.0200		104	79-126	1.00	5.47	
1,2,3-Trichlorobenzene	0.021	0.0005	mg/L	0.0200		106	66-144	9.88	43	
1,2,4-Trichlorobenzene	0.023	0.0005	mg/L	0.0200		117	66-139	10.1	22.3	
1,2,4-Trimethylbenzene	0.022	0.0005	mg/L	0.0200		110	85.2-120	6.95	8.94	
1,2-Dibromo-3-chloropropane	0.020	0.0005	mg/L	0.0200		102	85.9-113	1.70	15.1	
1,2-Dibromoethane	0.020	0.0005	mg/L	0.0200		98.2	84.9-118	1.72	5.83	
1,2-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		99.0	85.1-112	3.33	8.72	
1,2-Dichloroethane	0.018	0.0005	mg/L	0.0200		91.0	80.8-125	0.439	8.94	
1,2-Dichloropropane	0.020	0.0005	mg/L	0.0200		97.7	83.2-124	2.03	5.51	
1,3,5-Trimethylbenzene	0.021	0.0005	mg/L	0.0200		104	84.3-120	9.63	16.5	
1,3-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		100	84.9-110	4.57	9	
1,3-Dichloropropane	0.020	0.0005	mg/L	0.0200		98.8	88.8-117	1.81	6.06	
1,4 Dichlorobenzene	0.019	0.0005	mg/L	0.0200		95.8	80.9-112	5.33	7.71	
1,4-Dioxane	0.416	0.100	mg/L	2.00		20.8	-99.5-195	6.73	35.2	
1,2,3-trichloropropane	0.028	0.0005	mg/L	0.0200		141	6.02-213	6.70	49.2	
2,2-Dichloropropane	0.021	0.0005	mg/L	0.0200		103	59.7-146	3.39	9.62	
2-Butanone	0.041	0.002	mg/L	0.0400		102	69.2-152	0.270	14.2	
2-Chlorotoluene	0.020	0.0005	mg/L	0.0200		102	84.7-117	4.41	8.62	
2-Hexanone	0.045	0.001	mg/L	0.0400		113	66-142	3.17	7.28	
Surrogate: 4-Bromofluorobenzene	0.0266		mg/L	0.0250		106	76.4-114			
4-Chlorotoluene	0.021	0.0005	mg/L	0.0200		106	81.8-122	5.72	15.5	
4-Methyl-2-pentanone	0.041	0.001	mg/L	0.0400		102	75.9-139	3.09	7.57	
Acetone	0.040	0.010	mg/L	0.0400		99.6	47.7-194	2.46	30.5	
Acrolein	0.170	0.005	mg/L	0.200		84.8	46.2-182	0.453	22.4	
Acrylonitrile	0.039	0.002	mg/L	0.0400		96.3	69.5-152	1.11	7.62	
Benzene	0.019	0.0005	mg/L	0.0200		96.4	85.9-114	0.364	4.16	
Bromobenzene	0.020	0.0005	mg/L	0.0200		101	85.7-113	3.89	8.41	
Bromochloromethane	0.018	0.0005	mg/L	0.0200		91.2	74.2-140	0.219	5.16	
Bromodichloromethane	0.020	0.0005	mg/L	0.0200		97.9	82-126	0.872	5.36	
Bromoform	0.019	0.0005	mg/L	0.0200		96.8	80.3-140	3.05	14.1	
Bromomethane	0.018	0.0005	mg/L	0.0200		89.7	69.3-136	0.559	21.5	
Carbon disulfide	0.038	0.001	mg/L	0.0400		95.7	74.2-141	0.417	20.3	
Carbon tetrachloride	0.022	0.0005	mg/L	0.0200		110	85.8-125	0.408	11.4	
Chlorobenzene	0.020	0.0005	mg/L	0.0200		98.1	88.8-112	1.72	5.18	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
09/27/22 09:51

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2091620 - Volatiles (Continued)

LCS Dup (2091620-BSD1) (Continued)

Prepared & Analyzed: 09/21/22

Chloroethane	0.016	0.0005	mg/L	0.0200		81.6	73.8-135	0.184	24.1	
Chloroform	0.019	0.0005	mg/L	0.0200		95.8	88.1-124	0.366	5.15	
Chloromethane	0.018	0.0005	mg/L	0.0200		89.5	59.9-154	0.673	27	
cis-1,2-Dichloroethene	0.019	0.0005	mg/L	0.0200		97.1	85.8-117	0.309	5.73	
cis-1,3-Dichloropropene	0.020	0.0005	mg/L	0.0200		102	84.6-125	2.99	6.09	
Dibromochloromethane	0.020	0.0005	mg/L	0.0200		99.0	88.2-121	2.59	7.24	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0246</i>		mg/L	<i>0.0250</i>		<i>98.6</i>	<i>82.4-141</i>			
Dibromomethane	0.018	0.0005	mg/L	0.0200		89.4	73.5-132	1.94	5.75	
Dichlorodifluoromethane	0.018	0.0005	mg/L	0.0200		92.2	63.3-132	0.380	22.6	
Ethylbenzene	0.021	0.0005	mg/L	0.0200		104	81.8-127	1.39	4.83	
Hexachlorobutadiene	0.023	0.0005	mg/L	0.0200		113	52.9-152	7.16	18.4	
Iodomethane	0.040	0.001	mg/L	0.0400		99.3	72.5-133	0.784	24.3	
Isopropylbenzene	0.022	0.0005	mg/L	0.0200		110	75.7-136	3.83	6.25	
m+p - Xylene	0.041	0.001	mg/L	0.0400		103	72.4-134	2.61	5.77	
Methyl t-Butyl Ether	0.041	0.001	mg/L	0.0400		102	75.3-137	0.245	12.8	
Methylene chloride	0.019	0.0005	mg/L	0.0200		96.5	74.8-131	1.29	19.7	
Naphthalene	0.021	0.0005	mg/L	0.0200		107	59.3-140	10.3	33.5	
n-Butylbenzene	0.021	0.0005	mg/L	0.0200		107	70.1-136	10.3	10.1	QR-04
n-Propylbenzene	0.021	0.0005	mg/L	0.0200		104	83-121	7.15	9.09	
o-Xylene	0.021	0.0005	mg/L	0.0200		104	76.2-135	2.09	6.29	
p-Isopropyltoluene	0.023	0.0005	mg/L	0.0200		114	81.8-124	9.28	9.26	QR-04
sec-Butylbenzene	0.022	0.0005	mg/L	0.0200		110	78.4-128	9.76	9.85	
Styrene	0.021	0.0005	mg/L	0.0200		103	75.7-128	2.67	7.55	
tert-Butylbenzene	0.019	0.0005	mg/L	0.0200		96.8	90.8-119	17.8	18.6	
Tetrachloroethene	0.021	0.0005	mg/L	0.0200		106	66.8-126	4.08	6.38	
Toluene	0.020	0.0005	mg/L	0.0200		97.7	78.8-121	1.93	5.67	
<i>Surrogate: Toluene-d8</i>	<i>0.0253</i>		mg/L	<i>0.0250</i>		<i>101</i>	<i>87.1-110</i>			
Total Xylenes	0.062	0.001	mg/L	0.0600		103	74.3-134	2.44	5.83	
trans-1,2-Dichloroethene	0.018	0.0005	mg/L	0.0200		91.6	80.4-125	0.164	19.1	
trans-1,3-Dichloropropene	0.020	0.0005	mg/L	0.0200		100	84-128	2.71	6.26	
trans-1,4-Dichloro-2-butene	0.028	0.010	mg/L	0.0400		69.8	18.7-238	17.5	92.8	
Trichloroethene	0.019	0.0005	mg/L	0.0200		95.8	73.1-117	1.66	4.92	
Trichlorofluoromethane	0.018	0.0005	mg/L	0.0200		90.3	71.9-138	0.0553	19.8	
Vinyl acetate	0.016	0.0005	mg/L	0.0200		82.4	39.5-167	2.34	7.84	
Vinyl chloride	0.018	0.0005	mg/L	0.0200		89.9	73.4-137	0.776	23	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
09/27/22 09:51

Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis
 *Results reported on as received basis unless designated as dry.

RPD Relative Percent Difference

LCS Laboratory Control Sample (Blank Spike)

RL Report Limit

MDL Method Detection Limit

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



(970) 247-4220 service@greenanalytical.com or dzufell@greenanalytical.com
Fax: (970) 247-4227 75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Cottonwood Consulting LLC		P.O. #:		Bill to (if different):		ANALYSIS REQUEST																																					
Project Manager: Kyle Siesser		Company:																																									
Address: PO Box 1653		City: Durango		State: CO Zip: 81302																																							
Phone #: 970-764-7356		Email: ksiesser@cottonwoodconsulting.com		Address:																																							
Additional Report To:		City:		State: Zip:																																							
Project Name: Mudge B #012R		Phone #:																																									
Project Number:		Fax or Email:																																									
Sampler Name (Print): Emma Millar		Matrix (check one)		# of containers																																							
FOR LAB USE ONLY		Collected																																									
Lab I.D.		Sample Name or Location		Date		Time		GROUNDWATER		SURFACEWATER		WASTEWATER		PRODUCEDWATER		SOIL		OTHER :		No preservation (general)		HNO ³		HCl		H ₂ SO ₄		Other:		Other:													
2209-198		MW #2		9/15/22		12-05		X																																			

COTTONWOOD CONSULTING LLC

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : **SIMCOE LLC**

MUDGE B #12R
 UNIT A, SEC. 17, T31N, R11W

LABORATORY (S) USED : _____

Date : 12/15/22

DEVELOPER / SAMPLER : _____

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	-	-	44.19	49.90	-	-	-	-	-
2	-	-	43.07	46.40	1305	8.07	9170	10.4	-
3	-	-	43.40	44.00	-	-	-	-	-

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
 (i.e. 2" MW $r = (1/12) \text{ ft}$. $h = 1 \text{ ft}$.) (i.e. 4" MW $r = (2/12) \text{ ft}$. $h = 1 \text{ ft}$.)

Ideally a minimum of three (3) wellbore volumes:

1.50" well diameter = 0.28 gal./ft. of water.

2.00" well diameter = 0.49 gal./ft. of water.

Comments or note well diameter if not standard 2".

Purged available water in MW #2 using 1.5 inch submersible electrical pump and new / clear vinyl tubing.

water light gray, No odor, No sediment

Top of casing MW #1 ~ 3.00 ft., MW #2 ~ 3.04 ft., MW #3 ~ 3.00 ft. above grade.

on-site	<u>1250</u>	temp	<u>40°</u>
off-site		temp	
sky cond.	<u>partly cloudy</u>		
wind speed	<u>5-10 mph</u>	direct.	<u>North</u>



75 Suttle Street
Durango, CO 81303
970.247.4220 Phone
970.247.4227 Fax
www.greenanalytical.com

03 January 2023

Kyle Siesser
Cottonwood Consulting
PO Box 1653
Durango, CO 81302
RE: VOC 8260

Enclosed are the results of analyses for samples received by the laboratory on 12/15/22 15:05. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Jeremy D. Allen', is written in a cursive style.

Jeremy D Allen
Laboratory Director

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-22-15

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-22-15



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
01/03/23 17:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #2	2212202-01	Water	12/15/22 13:05	12/15/22 15:05	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

Page 2 of 13 2212202 GAL FINAL 01 03 23 1717 01/03/23 17:17:53



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
01/03/23 17:17

MW #2

2212202-01 (Ground Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Dichlorodifluoromethane*	<0.0005	0.0005	0.00009	mg/L	1	12/27/22 18:39	8260B		MS
Chloromethane*	<0.0005	0.0005	0.00006	mg/L	1	12/27/22 18:39	8260B		MS
Vinyl chloride*	<0.0005	0.0005	0.00005	mg/L	1	12/27/22 18:39	8260B		MS
Bromomethane*	<0.0005	0.0005	0.00005	mg/L	1	12/27/22 18:39	8260B		MS
Chloroethane*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:39	8260B		MS
Trichlorofluoromethane*	<0.0005	0.0005	0.00003	mg/L	1	12/27/22 18:39	8260B		MS
1,1-Dichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	12/27/22 18:39	8260B		MS
Carbon disulfide*	<0.001	0.001	0.0003	mg/L	1	12/27/22 18:39	8260B		MS
Iodomethane	<0.001	0.001	0.0001	mg/L	1	12/27/22 18:39	8260B		MS
Acrolein*	<0.005	0.005	0.0007	mg/L	1	12/27/22 18:39	8260B		MS
Methylene chloride*	<0.0005	0.0005	0.0003	mg/L	1	12/27/22 18:39	8260B		MS
Acetone*	<0.010	0.010	0.006	mg/L	1	12/27/22 18:39	8260B		MS
trans-1,2-Dichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	12/27/22 18:39	8260B		MS
Methyl t-Butyl Ether*	<0.001	0.001	0.0003	mg/L	1	12/27/22 18:39	8260B		MS
1,1-Dichloroethane*	<0.0005	0.0005	0.00008	mg/L	1	12/27/22 18:39	8260B		MS
Acrylonitrile*	<0.002	0.002	0.002	mg/L	1	12/27/22 18:39	8260B		MS
Vinyl acetate*	<0.0005	0.0005	0.0004	mg/L	1	12/27/22 18:39	8260B		MS
cis-1,2-Dichloroethene*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:39	8260B		MS
2,2-Dichloropropane*	<0.0005	0.0005	0.0003	mg/L	1	12/27/22 18:39	8260B		MS
Bromochloromethane*	<0.0005	0.0005	0.00007	mg/L	1	12/27/22 18:39	8260B		MS
Chloroform*	<0.0005	0.0005	0.00005	mg/L	1	12/27/22 18:39	8260B		MS
Carbon tetrachloride*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:39	8260B		MS
1,1,1-Trichloroethane*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:39	8260B		MS
1,1-Dichloropropene*	<0.0005	0.0005	0.00007	mg/L	1	12/27/22 18:39	8260B		MS
2-Butanone*	<0.002	0.002	0.002	mg/L	1	12/27/22 18:39	8260B		MS
Benzene*	0.005	0.0005	0.00009	mg/L	1	12/27/22 18:39	8260B		MS
1,2-Dichloroethane*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:39	8260B		MS
Trichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	12/27/22 18:39	8260B		MS
Dibromomethane*	<0.0005	0.0005	0.0002	mg/L	1	12/27/22 18:39	8260B		MS
1,2-Dichloropropane*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:39	8260B		MS
Bromodichloromethane*	<0.0005	0.0005	0.00007	mg/L	1	12/27/22 18:39	8260B		MS
cis-1,3-Dichloropropene*	<0.0005	0.0005	0.00006	mg/L	1	12/27/22 18:39	8260B		MS

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
01/03/23 17:17

MW #2

2212202-01 (Ground Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Toluene*	<0.0005	0.0005	0.00007	mg/L	1	12/27/22 18:39	8260B		MS
4-Methyl-2-pentanone*	<0.001	0.001	0.0001	mg/L	1	12/27/22 18:39	8260B		MS
Tetrachloroethene*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:39	8260B		MS
trans-1,3-Dichloropropene*	<0.0005	0.0005	0.00008	mg/L	1	12/27/22 18:39	8260B		MS
1,1,2-Trichloroethane*	<0.0005	0.0005	0.00006	mg/L	1	12/27/22 18:39	8260B		MS
Dibromochloromethane*	<0.0005	0.0005	0.00006	mg/L	1	12/27/22 18:39	8260B		MS
1,3-Dichloropropane*	<0.0005	0.0005	0.00001	mg/L	1	12/27/22 18:39	8260B		MS
1,2-Dibromoethane*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:39	8260B		MS
2-Hexanone*	<0.001	0.001	0.0001	mg/L	1	12/27/22 18:39	8260B		MS
Chlorobenzene*	<0.0005	0.0005	0.00002	mg/L	1	12/27/22 18:39	8260B		MS
Ethylbenzene*	<0.0005	0.0005	0.00009	mg/L	1	12/27/22 18:39	8260B		MS
1,1,1,2-Tetrachloroethane*	<0.0005	0.0005	0.00006	mg/L	1	12/27/22 18:39	8260B		MS
m+p - Xylene*	<0.001	0.001	0.0005	mg/L	1	12/27/22 18:39	8260B		MS
o-Xylene*	<0.0005	0.0005	0.00007	mg/L	1	12/27/22 18:39	8260B		MS
Total Xylenes*	<0.001	0.001	0.0005	mg/L	1	12/27/22 18:39	8260B		MS
Bromoform*	<0.0005	0.0005	0.00006	mg/L	1	12/27/22 18:39	8260B		MS
Styrene*	<0.0005	0.0005	0.00002	mg/L	1	12/27/22 18:39	8260B		MS
Isopropylbenzene*	<0.0005	0.0005	0.00002	mg/L	1	12/27/22 18:39	8260B		MS
Bromobenzene*	<0.0005	0.0005	0.00003	mg/L	1	12/27/22 18:39	8260B		MS
n-Propylbenzene*	<0.0005	0.0005	0.00001	mg/L	1	12/27/22 18:39	8260B		MS
1,1,2,2-Tetrachloroethane*	<0.0005	0.0005	0.00006	mg/L	1	12/27/22 18:39	8260B		MS
2-Chlorotoluene*	<0.0005	0.0005	0.00004	mg/L	1	12/27/22 18:39	8260B		MS
1,2,3-trichloropropane*	<0.0005	0.0005	0.00005	mg/L	1	12/27/22 18:39	8260B		MS
1,3,5-Trimethylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	12/27/22 18:39	8260B		MS
trans-1,4-Dichloro-2-butene	<0.010	0.010	0.006	mg/L	1	12/27/22 18:39	8260B		MS
4-Chlorotoluene*	<0.0005	0.0005	0.00003	mg/L	1	12/27/22 18:39	8260B		MS
tert-Butylbenzene*	<0.0005	0.0005	0.00006	mg/L	1	12/27/22 18:39	8260B		MS
1,2,4-Trimethylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	12/27/22 18:39	8260B		MS
sec-Butylbenzene*	<0.0005	0.0005	0.00002	mg/L	1	12/27/22 18:39	8260B		MS
p-Isopropyltoluene*	<0.0005	0.0005	0.00003	mg/L	1	12/27/22 18:39	8260B		MS
1,3-Dichlorobenzene*	<0.0005	0.0005	0.00004	mg/L	1	12/27/22 18:39	8260B		MS
1,4 Dichlorobenzene*	<0.0005	0.0005	0.00004	mg/L	1	12/27/22 18:39	8260B		MS

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
01/03/23 17:17

MW #2

2212202-01 (Ground Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
---------	--------	----	-----	-------	----------	----------	--------	-------	---------

Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

n-Butylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	12/27/22 18:39	8260B		MS
1,2-Dichlorobenzene*	<0.0005	0.0005	0.00006	mg/L	1	12/27/22 18:39	8260B		MS
1,2-Dibromo-3-chloropropane*	<0.0005	0.0005	0.0002	mg/L	1	12/27/22 18:39	8260B		MS
Hexachlorobutadiene*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:39	8260B		MS
1,2,4-Trichlorobenzene*	<0.0005	0.0005	0.00009	mg/L	1	12/27/22 18:39	8260B		MS
Naphthalene*	<0.0005	0.0005	0.00004	mg/L	1	12/27/22 18:39	8260B		MS
1,2,3-Trichlorobenzene*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:39	8260B		MS
1,4-Dioxane	<0.100	0.100	0.029	mg/L	1	12/27/22 18:39	8260B		MS
Surrogate: Dibromofluoromethane			106 %	82.4-141		12/27/22 18:39	8260B		MS
Surrogate: Toluene-d8			102 %	87.1-110		12/27/22 18:39	8260B		MS
Surrogate: 4-Bromofluorobenzene			93.9 %	76.4-114		12/27/22 18:39	8260B		MS

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
01/03/23 17:17

VOLATILES BY GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2122716 - Volatiles

Blank (2122716-BLK1)

Prepared & Analyzed: 12/27/22

1,1,1,2-Tetrachloroethane	ND	0.0005	mg/L							
1,1,1-Trichloroethane	ND	0.0005	mg/L							
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L							
1,1,2-Trichloroethane	ND	0.0005	mg/L							
1,1-Dichloroethane	ND	0.0005	mg/L							
1,1-Dichloroethene	ND	0.0005	mg/L							
1,1-Dichloropropene	ND	0.0005	mg/L							
1,2,3-Trichlorobenzene	0.0005	0.0005	mg/L							
1,2,4-Trichlorobenzene	ND	0.0005	mg/L							
1,2,4-Trimethylbenzene	ND	0.0005	mg/L							
1,2-Dibromo-3-chloropropane	ND	0.0005	mg/L							
1,2-Dibromoethane	ND	0.0005	mg/L							
1,2-Dichlorobenzene	ND	0.0005	mg/L							
1,2-Dichloroethane	ND	0.0005	mg/L							
1,2-Dichloropropane	ND	0.0005	mg/L							
1,3,5-Trimethylbenzene	ND	0.0005	mg/L							
1,3-Dichlorobenzene	ND	0.0005	mg/L							
1,3-Dichloropropane	ND	0.0005	mg/L							
1,4-Dichlorobenzene	ND	0.0005	mg/L							
1,4-Dioxane	ND	0.100	mg/L							
1,2,3-trichloropropane	ND	0.0005	mg/L							
2,2-Dichloropropane	ND	0.0005	mg/L							
2-Butanone	ND	0.002	mg/L							
2-Chlorotoluene	ND	0.0005	mg/L							
2-Hexanone	ND	0.001	mg/L							
Surrogate: 4-Bromofluorobenzene	0.0239		mg/L	0.0250		95.8	76.4-114			
4-Chlorotoluene	ND	0.0005	mg/L							
4-Methyl-2-pentanone	ND	0.001	mg/L							
Acetone	ND	0.010	mg/L							
Acrolein	ND	0.005	mg/L							
Acrylonitrile	ND	0.002	mg/L							
Benzene	ND	0.0005	mg/L							
Bromobenzene	ND	0.0005	mg/L							
Bromochloromethane	ND	0.0005	mg/L							
Bromodichloromethane	ND	0.0005	mg/L							
Bromoform	ND	0.0005	mg/L							

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
01/03/23 17:17

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2122716 - Volatiles (Continued)

Blank (2122716-BLK1) (Continued)

Prepared & Analyzed: 12/27/22

Bromomethane	ND	0.0005	mg/L
Carbon disulfide	ND	0.001	mg/L
Carbon tetrachloride	ND	0.0005	mg/L
Chlorobenzene	ND	0.0005	mg/L
Chloroethane	ND	0.0005	mg/L
Chloroform	ND	0.0005	mg/L
Chloromethane	ND	0.0005	mg/L
cis-1,2-Dichloroethene	ND	0.0005	mg/L
cis-1,3-Dichloropropene	ND	0.0005	mg/L
Dibromochloromethane	ND	0.0005	mg/L

Surrogate: Dibromofluoromethane 0.0260 mg/L 0.0250 104 82.4-141

Dibromomethane	ND	0.0005	mg/L
Dichlorodifluoromethane	ND	0.0005	mg/L
Ethylbenzene	ND	0.0005	mg/L
Hexachlorobutadiene	0.0007	0.0005	mg/L
Iodomethane	ND	0.001	mg/L
Isopropylbenzene	ND	0.0005	mg/L
m+p - Xylene	ND	0.001	mg/L
Methyl t-Butyl Ether	ND	0.001	mg/L
Methylene chloride	ND	0.0005	mg/L
Naphthalene	ND	0.0005	mg/L
n-Butylbenzene	ND	0.0005	mg/L
n-Propylbenzene	ND	0.0005	mg/L
o-Xylene	ND	0.0005	mg/L
p-Isopropyltoluene	ND	0.0005	mg/L
sec-Butylbenzene	ND	0.0005	mg/L
Styrene	ND	0.0005	mg/L
tert-Butylbenzene	ND	0.0005	mg/L
Tetrachloroethene	ND	0.0005	mg/L
Toluene	ND	0.0005	mg/L

Surrogate: Toluene-d8 0.0253 mg/L 0.0250 101 87.1-110

Total Xylenes	ND	0.001	mg/L
trans-1,2-Dichloroethene	ND	0.0005	mg/L
trans-1,3-Dichloropropene	ND	0.0005	mg/L
trans-1,4-Dichloro-2-butene	ND	0.010	mg/L
Trichloroethene	ND	0.0005	mg/L
Trichlorofluoromethane	ND	0.0005	mg/L
Vinyl acetate	ND	0.0005	mg/L
Vinyl chloride	ND	0.0005	mg/L

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
01/03/23 17:17

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2122716 - Volatiles (Continued)

LCS (2122716-BS1)

Prepared & Analyzed: 12/27/22

1,1,1,2-Tetrachloroethane	0.022	0.0005	mg/L	0.0200		108	77.2-132			
1,1,1-Trichloroethane	0.022	0.0005	mg/L	0.0200		112	84.9-121			
1,1,2,2-Tetrachloroethane	0.023	0.0005	mg/L	0.0200		113	83-118			
1,1,2-Trichloroethane	0.022	0.0005	mg/L	0.0200		112	85.8-121			
1,1-Dichloroethane	0.023	0.0005	mg/L	0.0200		113	82.3-134			
1,1-Dichloroethene	0.022	0.0005	mg/L	0.0200		112	69.4-135			
1,1-Dichloropropene	0.021	0.0005	mg/L	0.0200		106	79-126			
1,2,3-Trichlorobenzene	0.023	0.0005	mg/L	0.0200		116	66-144			
1,2,4-Trichlorobenzene	0.023	0.0005	mg/L	0.0200		117	66-139			
1,2,4-Trimethylbenzene	0.021	0.0005	mg/L	0.0200		107	85.2-120			
1,2-Dibromo-3-chloropropane	0.022	0.0005	mg/L	0.0200		108	85.9-113			
1,2-Dibromoethane	0.021	0.0005	mg/L	0.0200		107	84.9-118			
1,2-Dichlorobenzene	0.022	0.0005	mg/L	0.0200		112	85.1-112			
1,2-Dichloroethane	0.022	0.0005	mg/L	0.0200		109	80.8-125			
1,2-Dichloropropane	0.021	0.0005	mg/L	0.0200		106	83.2-124			
1,3,5-Trimethylbenzene	0.022	0.0005	mg/L	0.0200		111	84.3-120			
1,3-Dichlorobenzene	0.023	0.0005	mg/L	0.0200		114	84.9-110			BS1
1,3-Dichloropropane	0.022	0.0005	mg/L	0.0200		108	88.8-117			
1,4 Dichlorobenzene	0.023	0.0005	mg/L	0.0200		114	80.9-112			BS1
1,4-Dioxane	0.414	0.100	mg/L	0.400		104	-99.5-195			
1,2,3-trichloropropane	0.023	0.0005	mg/L	0.0200		114	6.02-213			
2,2-Dichloropropane	0.024	0.0005	mg/L	0.0200		120	59.7-146			
2-Butanone	0.044	0.002	mg/L	0.0400		111	69.2-152			
2-Chlorotoluene	0.022	0.0005	mg/L	0.0200		109	84.7-117			
2-Hexanone	0.041	0.001	mg/L	0.0400		102	66-142			
Surrogate: 4-Bromofluorobenzene	0.0250		mg/L	0.0250		100	76.4-114			
4-Chlorotoluene	0.023	0.0005	mg/L	0.0200		113	81.8-122			
4-Methyl-2-pentanone	0.041	0.001	mg/L	0.0400		101	75.9-139			
Acetone	0.047	0.010	mg/L	0.0400		116	47.7-194			
Acrolein	0.240	0.005	mg/L	0.200		120	46.2-182			
Acrylonitrile	0.046	0.002	mg/L	0.0400		114	69.5-152			
Benzene	0.022	0.0005	mg/L	0.0200		110	85.9-114			
Bromobenzene	0.022	0.0005	mg/L	0.0200		112	85.7-113			
Bromochloromethane	0.022	0.0005	mg/L	0.0200		110	74.2-140			
Bromodichloromethane	0.022	0.0005	mg/L	0.0200		108	82-126			
Bromoform	0.022	0.0005	mg/L	0.0200		111	80.3-140			
Bromomethane	0.024	0.0005	mg/L	0.0200		120	69.3-136			
Carbon disulfide	0.047	0.001	mg/L	0.0400		117	74.2-141			
Carbon tetrachloride	0.022	0.0005	mg/L	0.0200		112	85.8-125			

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
01/03/23 17:17

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2122716 - Volatiles (Continued)

LCS (2122716-BS1) (Continued)

Prepared & Analyzed: 12/27/22

Chlorobenzene	0.022	0.0005	mg/L	0.0200		111	88.8-112			
Chloroethane	0.023	0.0005	mg/L	0.0200		117	73.8-135			
Chloroform	0.022	0.0005	mg/L	0.0200		110	88.1-124			
Chloromethane	0.022	0.0005	mg/L	0.0200		110	59.9-154			
cis-1,2-Dichloroethene	0.023	0.0005	mg/L	0.0200		113	85.8-117			
cis-1,3-Dichloropropene	0.020	0.0005	mg/L	0.0200		102	84.6-125			
Dibromochloromethane	0.022	0.0005	mg/L	0.0200		111	88.2-121			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0252</i>		mg/L	<i>0.0250</i>		<i>101</i>	<i>82.4-141</i>			
Dibromomethane	0.022	0.0005	mg/L	0.0200		109	73.5-132			
Dichlorodifluoromethane	0.025	0.0005	mg/L	0.0200		127	63.3-132			
Ethylbenzene	0.022	0.0005	mg/L	0.0200		108	81.8-127			
Hexachlorobutadiene	0.025	0.0005	mg/L	0.0200		127	52.9-152			
Iodomethane	0.045	0.001	mg/L	0.0400		113	72.5-133			
Isopropylbenzene	0.021	0.0005	mg/L	0.0200		105	75.7-136			
m+p - Xylene	0.044	0.001	mg/L	0.0400		110	72.4-134			
Methyl t-Butyl Ether	0.044	0.001	mg/L	0.0400		111	75.3-137			
Methylene chloride	0.030	0.0005	mg/L	0.0200		149	74.8-131			BS1
Naphthalene	0.021	0.0005	mg/L	0.0200		107	59.3-140			
n-Butylbenzene	0.023	0.0005	mg/L	0.0200		113	70.1-136			
n-Propylbenzene	0.022	0.0005	mg/L	0.0200		112	83-121			
o-Xylene	0.021	0.0005	mg/L	0.0200		103	76.2-135			
p-Isopropyltoluene	0.022	0.0005	mg/L	0.0200		110	81.8-124			
sec-Butylbenzene	0.022	0.0005	mg/L	0.0200		111	78.4-128			
Styrene	0.021	0.0005	mg/L	0.0200		104	75.7-128			
tert-Butylbenzene	0.019	0.0005	mg/L	0.0200		97.4	90.8-119			
Tetrachloroethene	0.022	0.0005	mg/L	0.0200		109	66.8-126			
Toluene	0.022	0.0005	mg/L	0.0200		112	78.8-121			
<i>Surrogate: Toluene-d8</i>	<i>0.0249</i>		mg/L	<i>0.0250</i>		<i>99.6</i>	<i>87.1-110</i>			
Total Xylenes	0.064	0.001	mg/L	0.0600		107	74.3-134			
trans-1,2-Dichloroethene	0.023	0.0005	mg/L	0.0200		115	80.4-125			
trans-1,3-Dichloropropene	0.021	0.0005	mg/L	0.0200		104	84-128			
trans-1,4-Dichloro-2-butene	0.074	0.010	mg/L	0.0400		186	18.7-238			
Trichloroethene	0.022	0.0005	mg/L	0.0200		108	73.1-117			
Trichlorofluoromethane	0.023	0.0005	mg/L	0.0200		117	71.9-138			
Vinyl acetate	0.024	0.0005	mg/L	0.0200		120	39.5-167			
Vinyl chloride	0.024	0.0005	mg/L	0.0200		121	73.4-137			

LCS Dup (2122716-BSD1)

Prepared & Analyzed: 12/27/22

1,1,1,2-Tetrachloroethane	0.022	0.0005	mg/L	0.0200		109	77.2-132	0.828	6.88	
---------------------------	-------	--------	------	--------	--	-----	----------	-------	------	--

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
01/03/23 17:17

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2122716 - Volatiles (Continued)

LCS Dup (2122716-BSD1) (Continued)

Prepared & Analyzed: 12/27/22

1,1,1-Trichloroethane	0.023	0.0005	mg/L	0.0200		113	84.9-121	0.445	7.43	
1,1,2,2-Tetrachloroethane	0.022	0.0005	mg/L	0.0200		112	83-118	0.979	8.68	
1,1,2-Trichloroethane	0.022	0.0005	mg/L	0.0200		112	85.8-121	0.401	6.82	
1,1-Dichloroethane	0.022	0.0005	mg/L	0.0200		112	82.3-134	0.355	4.3	
1,1-Dichloroethene	0.022	0.0005	mg/L	0.0200		112	69.4-135	0.357	16.5	
1,1-Dichloropropene	0.022	0.0005	mg/L	0.0200		108	79-126	1.45	5.47	
1,2,3-Trichlorobenzene	0.022	0.0005	mg/L	0.0200		110	66-144	5.57	43	
1,2,4-Trichlorobenzene	0.022	0.0005	mg/L	0.0200		110	66-139	5.94	22.3	
1,2,4-Trimethylbenzene	0.021	0.0005	mg/L	0.0200		105	85.2-120	1.61	8.94	
1,2-Dibromo-3-chloropropane	0.020	0.0005	mg/L	0.0200		102	85.9-113	5.82	15.1	
1,2-Dibromoethane	0.022	0.0005	mg/L	0.0200		111	84.9-118	3.34	5.83	
1,2-Dichlorobenzene	0.022	0.0005	mg/L	0.0200		110	85.1-112	1.93	8.72	
1,2-Dichloroethane	0.022	0.0005	mg/L	0.0200		111	80.8-125	1.72	8.94	
1,2-Dichloropropane	0.021	0.0005	mg/L	0.0200		105	83.2-124	0.995	5.51	
1,3,5-Trimethylbenzene	0.022	0.0005	mg/L	0.0200		110	84.3-120	1.36	16.5	
1,3-Dichlorobenzene	0.022	0.0005	mg/L	0.0200		110	84.9-110	3.48	9	
1,3-Dichloropropane	0.022	0.0005	mg/L	0.0200		110	88.8-117	2.30	6.06	
1,4 Dichlorobenzene	0.023	0.0005	mg/L	0.0200		113	80.9-112	0.662	7.71	BS1
1,4-Dioxane	0.390	0.100	mg/L	0.400		97.5	-99.5-195	6.00	35.2	
1,2,3-trichloropropane	0.023	0.0005	mg/L	0.0200		113	6.02-213	0.265	49.2	
2,2-Dichloropropane	0.024	0.0005	mg/L	0.0200		120	59.7-146	0.209	9.62	
2-Butanone	0.042	0.002	mg/L	0.0400		106	69.2-152	4.08	14.2	
2-Chlorotoluene	0.021	0.0005	mg/L	0.0200		107	84.7-117	2.08	8.62	
2-Hexanone	0.041	0.001	mg/L	0.0400		103	66-142	1.05	7.28	
Surrogate: 4-Bromofluorobenzene	0.0254		mg/L	0.0250		102	76.4-114			
4-Chlorotoluene	0.022	0.0005	mg/L	0.0200		109	81.8-122	3.24	15.5	
4-Methyl-2-pentanone	0.041	0.001	mg/L	0.0400		103	75.9-139	1.47	7.57	
Acetone	0.044	0.010	mg/L	0.0400		110	47.7-194	5.90	30.5	
Acrolein	0.220	0.005	mg/L	0.200		110	46.2-182	8.59	22.4	
Acrylonitrile	0.045	0.002	mg/L	0.0400		113	69.5-152	1.41	7.62	
Benzene	0.022	0.0005	mg/L	0.0200		109	85.9-114	0.0457	4.16	
Bromobenzene	0.022	0.0005	mg/L	0.0200		110	85.7-113	2.07	8.41	
Bromochloromethane	0.022	0.0005	mg/L	0.0200		111	74.2-140	0.999	5.16	
Bromodichloromethane	0.021	0.0005	mg/L	0.0200		106	82-126	1.96	5.36	
Bromoform	0.020	0.0005	mg/L	0.0200		102	80.3-140	8.71	14.1	
Bromomethane	0.023	0.0005	mg/L	0.0200		117	69.3-136	2.62	21.5	
Carbon disulfide	0.045	0.001	mg/L	0.0400		113	74.2-141	3.91	20.3	
Carbon tetrachloride	0.022	0.0005	mg/L	0.0200		112	85.8-125	0.401	11.4	
Chlorobenzene	0.023	0.0005	mg/L	0.0200		113	88.8-112	1.07	5.18	BS1

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
01/03/23 17:17

VOLATILES BY GC/MS - Quality Control (Continued)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2122716 - Volatiles (Continued)

LCS Dup (2122716-BSD1) (Continued)

Prepared & Analyzed: 12/27/22

Chloroethane	0.025	0.0005	mg/L	0.0200		126	73.8-135	6.99	24.1	
Chloroform	0.022	0.0005	mg/L	0.0200		112	88.1-124	1.67	5.15	
Chloromethane	0.023	0.0005	mg/L	0.0200		116	59.9-154	5.31	27	
cis-1,2-Dichloroethene	0.022	0.0005	mg/L	0.0200		109	85.8-117	4.05	5.73	
cis-1,3-Dichloropropene	0.020	0.0005	mg/L	0.0200		100	84.6-125	1.73	6.09	
Dibromochloromethane	0.021	0.0005	mg/L	0.0200		107	88.2-121	3.12	7.24	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0251</i>		mg/L	<i>0.0250</i>		<i>100</i>	<i>82.4-141</i>			
Dibromomethane	0.021	0.0005	mg/L	0.0200		106	73.5-132	3.35	5.75	
Dichlorodifluoromethane	0.025	0.0005	mg/L	0.0200		123	63.3-132	3.39	22.6	
Ethylbenzene	0.022	0.0005	mg/L	0.0200		109	81.8-127	1.25	4.83	
Hexachlorobutadiene	0.023	0.0005	mg/L	0.0200		116	52.9-152	8.55	18.4	
Iodomethane	0.044	0.001	mg/L	0.0400		109	72.5-133	3.00	24.3	
Isopropylbenzene	0.021	0.0005	mg/L	0.0200		106	75.7-136	0.898	6.25	
m+p - Xylene	0.043	0.001	mg/L	0.0400		108	72.4-134	1.54	5.77	
Methyl t-Butyl Ether	0.045	0.001	mg/L	0.0400		113	75.3-137	1.36	12.8	
Methylene chloride	0.023	0.0005	mg/L	0.0200		116	74.8-131	25.6	19.7	QR-04
Naphthalene	0.020	0.0005	mg/L	0.0200		101	59.3-140	5.72	33.5	
n-Butylbenzene	0.022	0.0005	mg/L	0.0200		111	70.1-136	1.56	10.1	
n-Propylbenzene	0.022	0.0005	mg/L	0.0200		111	83-121	0.763	9.09	
o-Xylene	0.021	0.0005	mg/L	0.0200		104	76.2-135	0.679	6.29	
p-Isopropyltoluene	0.021	0.0005	mg/L	0.0200		107	81.8-124	2.81	9.26	
sec-Butylbenzene	0.022	0.0005	mg/L	0.0200		110	78.4-128	1.13	9.85	
Styrene	0.021	0.0005	mg/L	0.0200		104	75.7-128	0.624	7.55	
tert-Butylbenzene	0.019	0.0005	mg/L	0.0200		95.8	90.8-119	1.66	18.6	
Tetrachloroethene	0.023	0.0005	mg/L	0.0200		114	66.8-126	4.40	6.38	
Toluene	0.022	0.0005	mg/L	0.0200		110	78.8-121	1.53	5.67	
<i>Surrogate: Toluene-d8</i>	<i>0.0250</i>		mg/L	<i>0.0250</i>		<i>99.8</i>	<i>87.1-110</i>			
Total Xylenes	0.064	0.001	mg/L	0.0600		106	74.3-134	0.827	5.83	
trans-1,2-Dichloroethene	0.023	0.0005	mg/L	0.0200		113	80.4-125	2.32	19.1	
trans-1,3-Dichloropropene	0.021	0.0005	mg/L	0.0200		104	84-128	0.673	6.26	
trans-1,4-Dichloro-2-butene	0.048	0.010	mg/L	0.0400		120	18.7-238	42.9	92.8	
Trichloroethene	0.022	0.0005	mg/L	0.0200		108	73.1-117	0.139	4.92	
Trichlorofluoromethane	0.023	0.0005	mg/L	0.0200		115	71.9-138	2.03	19.8	
Vinyl acetate	0.024	0.0005	mg/L	0.0200		122	39.5-167	1.94	7.84	
Vinyl chloride	0.024	0.0005	mg/L	0.0200		119	73.4-137	1.59	23	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: Mudge B #012R
Project Manager: Kyle Siesser

Reported:
01/03/23 17:17

Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis
 *Results reported on as received basis unless designated as dry.

RPD Relative Percent Difference

LCS Laboratory Control Sample (Blank Spike)

RL Report Limit

MDL Method Detection Limit

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Jeremy D. Allen'.

Jeremy D Allen, Laboratory Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



(970) 247-4220
Fax: (970) 247-4227

service@greenanalytical.com or dzufelt@greenanalytical.com
75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 186999

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID:
	329736
	Action Number:
	186999
Action Type:	
[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)	

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Receipt of the 2022 SVE Monitoring Report for Mudge 012B R: Content is Satisfactory. Continue to operate system and submit reports annually.	10/3/2023