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[www.cottonwoodconsulting.com](http://www.cottonwoodconsulting.com)

February 2, 2026

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

**RE: Mudge LS #006  
2025 Monitoring Report**

Dear Mr. Brann,

Cottonwood Consulting LLC (Cottonwood) is pleased to provide Simcoe LLC (Simcoe) with the results of the groundwater monitoring conducted at the Mudge LS #006 well site (API 30-045-10843). Details regarding the methodology and associated results are summarized below.

**Background**

In August 2014, impacted soil was discovered during construction operations to replace the below grade tank (BGT) at the Mudge LS #006 well site. Impacted soils were excavated to the extent practicable and groundwater monitoring wells were installed on site. In June 2018, MW #2 was damaged and can no longer be sampled. In August 2018, MW #3 was removed during installation of other monitoring wells.

**Methodology**

Groundwater sampling was conducted on March 25, June 18, September 17, and December 10, 2025. Prior to groundwater sample collection, depth-to-water measurements were collected.

Prior to sample collection, approximately three wellbore volumes were purged from the sample well with new disposable bailers. The groundwater sample was collected following US EPA SW-846 protocol. The groundwater sample was transferred into laboratory-provided containers with the appropriate preservative, stored in a cooler on ice, and submitted with a complete chain-of-custody to Green Analytical Laboratories (GAL) for analysis of volatile organic compounds (VOCs) by US EPA Method 8260B. Cottonwood also collected field measurements of pH, conductivity, and temperature.

Fluids generated during monitoring well purging were discarded into the tank located on the well site. The tank contents are disposed of through approved NMOCD operational procedures for removal of produced fluids.

Cottonwood Consulting LLC

Brann, J.  
Page 2 of 2

## Monitoring Results

Benzene and total xylenes were elevated above the New Mexico Water Quality Control Commission (NMWQCC) standards in MW #1 during all four sampling events conducted in 2025. Toluene was elevated above the NMWQCC standard in MW #1 during the March 25, 2025 sampling event. A groundwater sampling results table is included as Attachment 1 and the groundwater sampling laboratory reports from the 2025 groundwater sampling are included as Attachment 2.

## Conclusion

Benzene and total xylenes were elevated above the NMWQCC standards in MW #1 during all four sampling events conducted in 2025. Toluene was elevated above the NMWQCC standard in MW #1 during the March 25, 2025 sampling event. In the future, Simcoe may advance subsurface soil borings to verify closure standards are met. Simcoe will continue to conduct groundwater monitoring and sampling as required.

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

Sincerely,



Kyle Siesser, P.G.  
Cottonwood Consulting LLC

Attachments: Attachment 1 – Groundwater Sampling Results  
Attachment 2 – Groundwater Sampling Laboratory Reports

Cottonwood Consulting LLC



**ATTACHMENT 1**



**Mudge LS #006**  
**Groundwater Sampling Results**  
**Simcoe LLC**

Sample ID	Sample Date	Depth to Water (ft)	Well Depth (ft)	TDS (mg/L)	Conductivity (umhos)	pH	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)
MW #1	06/18/15	22.90	27.20	3,700	NA	NA	1,700	2,100	540	4,200
MW #1	08/31/15	22.68	"	-	3,400	6.76	1,300	1,000	420	2,300
MW #1	12/08/15	22.39	"	-	3,100	6.79	730	280	330	1,400
MW #1	03/10/16	21.73	"	-	3,100	6.91	630	170	220	1,000
MW #1	06/27/16	21.29	"	-	2,600	7.08	1,700	1,300	590	4,300
MW #1	08/31/16	21.43	"	-	2,800	6.86	730	190	260	1,000
MW #1	12/28/16	21.20	"	-	2,800	6.84	480	260	250	1,200
MW #1	03/15/17	18.75	"	-	3,200	6.90	620	380	250	1,200
MW #1	09/20/17	17.72	"	-	2,700	6.91	2,000	1,300	370	2,100
MW #1	12/20/17	17.99	"	-	NA	NA	2,800	2,400	600	3,600
MW #1	03/28/18	19.01	"	-	2,800	7.26	1,800	1,300	410	2,200
MW #1	06/28/18	19.53	"	-	2,300	7.03	470	300	170	680
MW #1	09/25/18	19.78	"	-	2,400	7.10	400	80	94	320
MW #1	12/19/18	20.34	"	-	2,600	7.12	2,000	1,600	490	2,400
MW #1	03/29/19	19.78	"	-	2,400	7.12	450	380	120	510
MW #1	06/28/19	17.57	"	-	1,800	7.25	5,400	3,600	810	6,000
MW #1	09/19/19	17.22	"	-	1,800	6.99	1,400	1,400	330	2,400
MW #1	12/20/19	18.32	"	-	2,200	7.11	480	480	120	600
MW #1	03/31/20	19.20	"	-	2,300	6.97	2,800	2,200	370	2,300
MW #1	06/08/20	19.52	"	-	2,100	7.03	1,700	1,900	450	2,700
MW #1	09/17/20	20.00	"	-	1,900	7.00	2,500	2,200	530	2,900
MW #1	12/19/20	20.60	"	-	2,800	7.25	3,100	3,100	570	3,500
MW #1	03/02/21	-	"	-	-	-	930	800	220	1,100
MW #1	06/10/21	-	"	-	-	-	760	710	170	800
MW #1	08/20/21	21.69	"	-	3,740	7.41	1,600	2,400	380	2,600
MW #1	12/08/21	21.82	"	-	3,850	7.27	720	910	190	860
MW #1	03/17/22	22.37	26.30	-	4,300	7.11	322	432	115	393
MW #1	06/09/22	22.70	"	-	3,810	7.19	499	637	155	532
MW #1	09/15/22	22.82	"	-	4,360	7.31	518	606	181	601
MW #1	12/15/22	22.91	"	-	4,740	7.77	495	746	137	507
MW #1	03/10/23	24.10	"	-	4,800	7.55	1,460	4,380	737	6,790
MW #1	06/21/23	22.70	"	-	4,220	6.96	4,560	1,580	1,880	1,680
MW #1	09/20/23	21.35	"	-	4,160	7.27	1,540	6,670	1,230	8,330
MW #1	12/15/23	21.57	"	-	4,260	7.35	1,610	6,840	1,200	10,900
MW #1	03/27/24	23.21	"	-	4,260	7.29	952	2,680	867	5,000
MW #1	06/13/24	22.40	"	-	3,730	6.62	837	3,550	681	6,000
MW #1	09/18/24	22.32	"	-	4,350	7.10	570	1,880	656	5,040
MW #1	12/11/24	22.22	"	-	4,180	7.88	650	2,070	592	3,980
MW #1	03/25/25	23.37	"	-	4,250	7.30	300	1,310	505	4,970
MW #1	06/18/25	23.66	"	-	4,300	7.22	255	840	370	4,150
MW #1	09/17/25	24.83	"	-	4,150	7.34	574	800	376	5,340
MW #1	12/10/25	24.50	"	-	3,490	7.33	264	279	299	2,520
MW #2	06/18/15	23.55	32.40	3,870	NA	NA	2,000	2,100	77	150
MW #2	08/31/15	23.33	"	-	3,900	6.76	1,500	66	52	130
MW #2	12/08/15	22.71	"	-	3,700	6.81	1,000	ND	ND	ND
MW #2	03/10/16	22.02	"	-	3,400	6.68	760	ND	ND	ND
MW #2	06/27/16	21.61	"	-	2,600	7.13	420	ND	3.9	6.6
MW #2	08/31/16	21.11	"	-	3,200	6.75	320	ND	3.4	4.2
MW #2	12/28/16	21.80	"	-	3,100	6.88	230	ND	8.8	34
MW #2	03/15/17	19.73	"	-	3,000	6.95	220	ND	9.6	45
<b>NMWQCC Groundwater Standard</b>						6-9	5	1000	700	620



**Mudge LS #006  
Groundwater Sampling Results  
Simcoe LLC**

Sample ID	Sample Date	Depth to Water (ft)	Well Depth (ft)	TDS (mg/L)	Conductivity (umhos)	pH	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)
MW #2	09/20/17	18.05	"	-	2,800	6.85	<b>93</b>	ND	ND	ND
MW #2	12/20/17	19.07	"	-	NA	NA	<b>40</b>	ND	ND	ND
MW #2	03/28/18	19.93	"	-	3,800	7.06	<b>21</b>	ND	ND	ND
MW #2	06/28/18	Well screen interval crimped/damaged approx. 20.80 ft. from top of casing or 18.40 ft. below grade.								
MW #3	06/18/15	21.87	32.00	3,870	NA	NA	<b>2,000</b>	<b>4,900</b>	680	<b>5,500</b>
MW #3	08/31/15	21.75	"	-	3,100	6.73	<b>2,300</b>	<b>2,300</b>	360	<b>2,600</b>
MW #3	12/08/15	21.47	"	-	3,000	6.82	<b>2,400</b>	<b>2,900</b>	280	<b>2,000</b>
MW #3	03/10/16	20.33	"	-	2,600	6.84	<b>4,600</b>	<b>6,100</b>	420	<b>5,900</b>
MW #3	06/27/16	19.89	"	-	2,100	7.05	<b>4,400</b>	<b>10,000</b>	650	<b>9,400</b>
MW #3	08/31/16	Well intentionally removed & grouted during installation of other monitor wells by another contractor.								
MW #9	03/28/18	19.13	21.65	4,370	4,400	7.46	ND	ND	ND	ND
MW #9	06/28/18	9.38	"	-	3,200	6.65	ND	ND	ND	ND
MW #9	09/25/18	9.75	"	-	3,400	7.25	ND	ND	ND	ND
MW #9	12/19/18	10.09	"	-	4,000	7.31	ND	ND	ND	ND
MW #9	03/29/19	8.78	"	-	3,600	7.33	ND	ND	ND	ND
MW #9	06/28/19	9.83	"	-	2,500	7.13	ND	ND	ND	ND
MW #9	09/19/19	9.07	"	-	2,500	6.96	ND	ND	ND	ND
MW #9	12/20/19	9.73	"	-	3,400	7.32	ND	ND	ND	ND
<b>NMWQCC Groundwater Standard</b>						6-9	5	1000	700	620

Sample ID	Sample Date	Fluoride (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate-Nitrite as N (mg/L)	Iron (mg/L)	TDS (mg/L)	Manganese (mg/L)
MW #1	06/18/15	0.29	24	2,000	ND	<b>6.6</b>	<b>3,700</b>	<b>4.5</b>
MW #2	06/18/15	0.40	24	1,800	ND	<b>13</b>	<b>3,870</b>	<b>4.9</b>
MW #3	06/18/15	0.44	33	2,100	ND	<b>13</b>	<b>3,870</b>	<b>1.7</b>
MW #9	03/28/18	NA	40	3,100	NA	NA	<b>4,370</b>	NA
Produced Water	06/18/15	ND	ND	8.6	ND	NA	190	NA
<b>NMWQCC Groundwater Standard</b>		1.6	250.0	600.0	10.0	1.0	1,000	0.2

**Notes:**

- TDS - Total Dissolved Solids
- ft - feet
- mg/L - milligrams per liter
- umhos - microhms
- ppb - parts per billion
- NA - Not Applicable
- ND - Not Detected
- N - Nitrogen
- "-" - Indicates no data
- NMWQCC - New Mexico Water Quality Control Commission
- Depth to water measured from top of well casing
- Bold** values exceed NMWQCC Standard



**ATTACHMENT 2**



75 Suttle Street  
Durango, CO 81303  
970.247.4220 Phone  
jeremy.allen@greenanalytical.com

08 April 2025

Kyle Siesser  
Cottonwood Consulting  
PO Box 1653  
Durango, CO 81302  
RE: Mudge LS #006

Enclosed are the results of analyses for samples received by the laboratory on 03/26/25 14:45. 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 'Jeremy D. Allen'.

Report Station For 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: TX-C25-00079

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: TX-C24-00112

## Table of Contents

Samples in Report	3
Sample Results	4
2503245-01: MW #1	4
Quality Assurance Results	7
Notes and Definitions	13
Qualifier Summary	14
Chain of Custody & Attachments	16



Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: VOC 8260  
Project Name / Number: Mudge LS #006  
Project Manager: Kyle Siesser

**Reported:**  
04/08/25 14:51

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #1	2503245-01	Water	03/25/25 16:30	03/26/25 14:45	

Green Analytical Laboratories

Report Station For 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.



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 04/08/25 14:51

**MW #1**

**2503245-01 (Ground Water)**

**Sampled Date: 03/25/25 16:30**

**Sampled By: Kelsey O'brien/Joseph Lafortune**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**VOLATILES BY GC/MS**

1,1,1,2-Tetrachloroethane*	<0.025	0.025	0.003	mg/L	50	04/02/25 15:27	8260B		SK
1,1,1-Trichloroethane*	<0.025	0.025	0.003	mg/L	50	04/02/25 15:27	8260B		SK
1,1,2,2-Tetrachloroethane*	<0.025	0.025	0.003	mg/L	50	04/02/25 15:27	8260B		SK
1,1,2-Trichloroethane*	<0.025	0.025	0.003	mg/L	50	04/02/25 15:27	8260B		SK
1,1-Dichloroethane*	<0.025	0.025	0.008	mg/L	50	04/02/25 15:27	8260B		SK
1,1-Dichloroethene*	<0.025	0.025	0.009	mg/L	50	04/02/25 15:27	8260B		SK
1,1-Dichloropropene*	<0.025	0.025	0.008	mg/L	50	04/02/25 15:27	8260B		SK
1,2,3-Trichlorobenzene*	<0.025	0.025	0.012	mg/L	50	04/02/25 15:27	8260B		SK
1,2,4-Trichlorobenzene*	<0.025	0.025	0.006	mg/L	50	04/02/25 15:27	8260B		SK
1,2,4-Trimethylbenzene*	<b>0.915</b>	0.025	0.002	mg/L	50	04/02/25 15:27	8260B		SK
1,2-Dibromo-3-chloropropane*	<0.025	0.025	0.025	mg/L	50	04/02/25 15:27	8260B		SK
1,2-Dibromoethane*	<0.025	0.025	0.005	mg/L	50	04/02/25 15:27	8260B		SK
1,2-Dichlorobenzene*	<0.025	0.025	0.003	mg/L	50	04/02/25 15:27	8260B		SK
1,2-Dichloroethane*	<0.025	0.025	0.003	mg/L	50	04/02/25 15:27	8260B		SK
1,2-Dichloropropane*	<0.025	0.025	0.004	mg/L	50	04/02/25 15:27	8260B		SK
1,3,5-Trimethylbenzene*	<b>0.415</b>	0.025	0.002	mg/L	50	04/02/25 15:27	8260B		SK
1,3-Dichlorobenzene*	<0.025	0.025	0.002	mg/L	50	04/02/25 15:27	8260B		SK
1,3-Dichloropropane*	<0.025	0.025	0.007	mg/L	50	04/02/25 15:27	8260B		SK
1,4-Dichlorobenzene	<0.025	0.025	0.002	mg/L	50	04/02/25 15:27	8260B		SK
1,4-Dioxane	<1.00	1.00	1.00	mg/L	50	04/02/25 15:27	8260B		SK
1,2,3-trichloropropane*	<0.025	0.025	0.006	mg/L	50	04/02/25 15:27	8260B		SK
2,2-Dichloropropane*	<0.025	0.025	0.025	mg/L	50	04/02/25 15:27	8260B		SK
2-Butanone*	<0.100	0.100	0.100	mg/L	50	04/02/25 15:27	8260B		SK
2-Chlorotoluene*	<0.025	0.025	0.002	mg/L	50	04/02/25 15:27	8260B		SK
2-Hexanone*	<0.050	0.050	0.016	mg/L	50	04/02/25 15:27	8260B		SK
4-Chlorotoluene*	<0.025	0.025	0.002	mg/L	50	04/02/25 15:27	8260B		SK
4-Methyl-2-pentanone*	<0.050	0.050	0.006	mg/L	50	04/02/25 15:27	8260B		SK
Acetone*	<0.500	0.500	0.043	mg/L	50	04/02/25 15:27	8260B		SK

Green Analytical Laboratories

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.

Report Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: VOC 8260  
Project Name / Number: Mudge LS #006  
Project Manager: Kyle Siesser

Reported:  
04/08/25 14:51

**MW #1**

**2503245-01 (Ground Water)**

**Sampled Date: 03/25/25 16:30**

**Sampled By: Kelsey O'brien/Joseph Lafortune**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**VOLATILES BY GC/MS**

Acrolein*	<0.250	0.250	0.054	mg/L	50	04/02/25 15:27	8260B		SK
Acrylonitrile*	<0.100	0.100	0.040	mg/L	50	04/02/25 15:27	8260B		SK
Benzene*	<b>0.300</b>	0.025	0.002	mg/L	50	04/02/25 15:27	8260B		SK
Bromobenzene*	<0.025	0.025	0.003	mg/L	50	04/02/25 15:27	8260B		SK
Bromochloromethane*	<0.025	0.025	0.007	mg/L	50	04/02/25 15:27	8260B		SK
Bromodichloromethane*	<0.025	0.025	0.002	mg/L	50	04/02/25 15:27	8260B		SK
Bromoform*	<0.025	0.025	0.004	mg/L	50	04/02/25 15:27	8260B		SK
Bromomethane*	<0.025	0.025	0.025	mg/L	50	04/02/25 15:27	8260B		SK
Carbon disulfide*	<0.050	0.050	0.007	mg/L	50	04/02/25 15:27	8260B		SK
Carbon tetrachloride*	<0.025	0.025	0.008	mg/L	50	04/02/25 15:27	8260B		SK
Chlorobenzene*	<0.025	0.025	0.002	mg/L	50	04/02/25 15:27	8260B		SK
Chloroethane*	<0.025	0.025	0.025	mg/L	50	04/02/25 15:27	8260B		SK
Chloroform*	<0.025	0.025	0.0008	mg/L	50	04/02/25 15:27	8260B		SK
Chloromethane*	<0.025	0.025	0.025	mg/L	50	04/02/25 15:27	8260B		SK
cis-1,2-Dichloroethene*	<0.025	0.025	0.012	mg/L	50	04/02/25 15:27	8260B		SK
cis-1,3-Dichloropropene*	<0.025	0.025	0.004	mg/L	50	04/02/25 15:27	8260B		SK
Dibromochloromethane*	<0.025	0.025	0.004	mg/L	50	04/02/25 15:27	8260B		SK
Dibromomethane*	<0.025	0.025	0.008	mg/L	50	04/02/25 15:27	8260B		SK
Dichlorodifluoromethane*	<0.025	0.025	0.025	mg/L	50	04/02/25 15:27	8260B		SK
Ethylbenzene*	<b>0.505</b>	0.025	0.002	mg/L	50	04/02/25 15:27	8260B		SK
Hexachlorobutadiene*	<0.025	0.025	0.025	mg/L	50	04/02/25 15:27	8260B		SK
Iodomethane	<0.050	0.050	0.003	mg/L	50	04/02/25 15:27	8260B		SK
Isopropylbenzene*	<b>0.091</b>	0.025	0.001	mg/L	50	04/02/25 15:27	8260B		SK
m+p - Xylene*	<b>3.84</b>	0.050	0.004	mg/L	50	04/02/25 15:27	8260B		SK
Methyl tert-butyl ether	<0.050	0.050	0.012	mg/L	50	04/02/25 15:27	8260B		SK
Methylene chloride*	<b>0.025</b>	0.025	0.025	mg/L	50	04/02/25 15:27	8260B		SK
Naphthalene*	<b>0.093</b>	0.025	0.004	mg/L	50	04/02/25 15:27	8260B		SK
n-Butylbenzene*	<0.025	0.025	0.003	mg/L	50	04/02/25 15:27	8260B		SK
n-Propylbenzene*	<b>0.125</b>	0.025	0.003	mg/L	50	04/02/25 15:27	8260B		SK
o-Xylene*	<b>1.13</b>	0.025	0.006	mg/L	50	04/02/25 15:27	8260B		SK
p-Isopropyltoluene*	<b>0.107</b>	0.025	0.002	mg/L	50	04/02/25 15:27	8260B		SK

Green Analytical Laboratories

Report Station For Jeremy D Allen, Laboratory Director

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Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

**Reported:**  
 04/08/25 14:51

**MW #1**

**2503245-01 (Ground Water)**  
**Sampled Date: 03/25/25 16:30**

**Sampled By: Kelsey O'brien/Joseph Lafortune**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**VOLATILES BY GC/MS**

sec-Butylbenzene*	0.027	0.025	0.002	mg/L	50	04/02/25 15:27	8260B		SK
Styrene*	<0.025	0.025	0.006	mg/L	50	04/02/25 15:27	8260B		SK
tert-Butylbenzene*	<0.025	0.025	0.004	mg/L	50	04/02/25 15:27	8260B		SK
Tetrachloroethene*	<0.025	0.025	0.005	mg/L	50	04/02/25 15:27	8260B		SK
Toluene*	1.31	0.025	0.004	mg/L	50	04/02/25 15:27	8260B		SK
Total Xylenes*	4.97	0.050	0.010	mg/L	50	04/02/25 15:27	8260B		SK
trans-1,2-Dichloroethene*	<0.025	0.025	0.007	mg/L	50	04/02/25 15:27	8260B		SK
trans-1,3-Dichloropropene*	<0.025	0.025	0.002	mg/L	50	04/02/25 15:27	8260B		SK
trans-1,4-Dichloro-2-butene	<0.500	0.500	0.014	mg/L	50	04/02/25 15:27	8260B		SK
Trichloroethene*	<0.025	0.025	0.009	mg/L	50	04/02/25 15:27	8260B		SK
Trichlorofluoromethane*	<0.025	0.025	0.007	mg/L	50	04/02/25 15:27	8260B		SK
Vinyl acetate*	<0.025	0.025	0.025	mg/L	50	04/02/25 15:27	8260B		SK
Vinyl chloride*	<0.025	0.025	0.025	mg/L	50	04/02/25 15:27	8260B		SK
Surrogate: 4-Bromofluorobenzene			102 %	76.4-114		04/02/25 15:27	8260B		SK
Surrogate: Dibromofluoromethane			107 %	82.4-141		04/02/25 15:27	8260B		SK
Surrogate: Toluene-d8			99.4 %	87.1-110		04/02/25 15:27	8260B		SK

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Report Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 04/08/25 14:51

**VOLATILES BY GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5040219 - Volatiles**

**Blank (5040219-BLK1)**

Prepared & Analyzed: 04/02/25

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	0.020	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							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0232</i>		<i>mg/L</i>	<i>0.0250</i>		<i>93.0</i>	<i>76.4-114</i>			
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							

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Report Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 04/08/25 14:51

**VOLATILES BY GC/MS - Quality Control  
 (Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5040219 - Volatiles (Continued)**

**Blank (5040219-BLK1) (Continued)**

Prepared & Analyzed: 04/02/25

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>0.0256</i>		mg/L	<i>0.0250</i>		<i>103</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 tert-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>0.0246</i>		mg/L	<i>0.0250</i>		<i>98.2</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							

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Report Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 04/08/25 14:51

**VOLATILES BY GC/MS - Quality Control**  
**(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5040219 - Volatiles (Continued)**

**LCS (5040219-BS1)**

Prepared & Analyzed: 04/02/25

1,1,1,2-Tetrachloroethane	0.020	0.0005	mg/L	0.0200		99.9	82.4-120			
1,1,1-Trichloroethane	0.021	0.0005	mg/L	0.0200		106	80.7-121			
1,1,2,2-Tetrachloroethane	0.023	0.0005	mg/L	0.0200		116	76.5-121			
1,1,2-Trichloroethane	0.022	0.0005	mg/L	0.0200		112	81.7-118			
1,1-Dichloroethane	0.016	0.0005	mg/L	0.0200		82.2	74.8-123			
1,1-Dichloroethene	0.016	0.0005	mg/L	0.0200		82.4	53.9-149			
1,1-Dichloropropene	0.020	0.0005	mg/L	0.0200		98.1	85.9-115			
1,2,3-Trichlorobenzene	0.021	0.0005	mg/L	0.0200		107	76.1-134			
1,2,4-Trichlorobenzene	0.021	0.0005	mg/L	0.0200		106	72.4-136			
1,2,4-Trimethylbenzene	0.020	0.0005	mg/L	0.0200		100	67.4-138			
1,2-Dibromo-3-chloropropane	0.019	0.0005	mg/L	0.0200		93.9	71.7-124			
1,2-Dibromoethane	0.022	0.0005	mg/L	0.0200		108	84.9-116			
1,2-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		100	82.5-119			
1,2-Dichloroethane	0.021	0.0005	mg/L	0.0200		106	72.5-123			
1,2-Dichloropropane	0.021	0.0005	mg/L	0.0200		104	79.4-117			
1,3,5-Trimethylbenzene	0.021	0.0005	mg/L	0.0200		103	69-137			
1,3-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		99.4	84.4-120			
1,3-Dichloropropane	0.023	0.0005	mg/L	0.0200		113	82.6-117			
1,4-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		100	81.7-118			
1,4-Dioxane	0.546	0.020	mg/L	0.400		136	-34.6-193			
1,2,3-trichloropropane	0.022	0.0005	mg/L	0.0200		109	44.7-168			
2,2-Dichloropropane	0.019	0.0005	mg/L	0.0200		96.9	62.9-136			
2-Butanone	0.048	0.002	mg/L	0.0400		121	24.1-159			
2-Chlorotoluene	0.021	0.0005	mg/L	0.0200		103	80.2-121			
2-Hexanone	0.057	0.001	mg/L	0.0400		143	56.3-139			BS1
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0255</i>		<i>mg/L</i>	<i>0.0250</i>		<i>102</i>	<i>76.4-114</i>			
4-Chlorotoluene	0.021	0.0005	mg/L	0.0200		103	82.2-125			
4-Methyl-2-pentanone	0.051	0.001	mg/L	0.0400		129	60.7-139			
Acetone	0.057	0.010	mg/L	0.0400		143	39.1-168			
Acrolein	0.148	0.005	mg/L	0.200		73.9	26.6-161			
Acrylonitrile	0.037	0.002	mg/L	0.0400		93.1	64.9-135			
Benzene	0.019	0.0005	mg/L	0.0200		97.4	69.4-129			
Bromobenzene	0.020	0.0005	mg/L	0.0200		102	83.5-115			
Bromochloromethane	0.020	0.0005	mg/L	0.0200		102	70.7-123			
Bromodichloromethane	0.019	0.0005	mg/L	0.0200		97.2	80.3-119			
Bromoform	0.020	0.0005	mg/L	0.0200		100	71.1-141			
Bromomethane	0.016	0.0005	mg/L	0.0200		81.2	55.1-143			
Carbon disulfide	0.044	0.001	mg/L	0.0400		111	53.6-147			
Carbon tetrachloride	0.020	0.0005	mg/L	0.0200		101	79.5-125			

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Report Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 04/08/25 14:51

**VOLATILES BY GC/MS - Quality Control**  
**(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5040219 - Volatiles (Continued)**

**LCS (5040219-BS1) (Continued)**

Prepared & Analyzed: 04/02/25

Chlorobenzene	0.020	0.0005	mg/L	0.0200		97.6	85.1-115			
Chloroethane	0.017	0.0005	mg/L	0.0200		84.9	36.9-159			
Chloroform	0.022	0.0005	mg/L	0.0200		112	80.9-119			
Chloromethane	0.020	0.0005	mg/L	0.0200		97.9	54.2-142			
cis-1,2-Dichloroethene	0.018	0.0005	mg/L	0.0200		88.8	73.8-128			
cis-1,3-Dichloropropene	0.018	0.0005	mg/L	0.0200		90.3	82.5-122			
Dibromochloromethane	0.020	0.0005	mg/L	0.0200		98.1	83.1-124			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0261</i>		mg/L	<i>0.0250</i>		<i>104</i>	<i>82.4-141</i>			
Dibromomethane	0.020	0.0005	mg/L	0.0200		100	77-118			
Dichlorodifluoromethane	0.018	0.0005	mg/L	0.0200		89.0	38.7-147			
Ethylbenzene	0.021	0.0005	mg/L	0.0200		105	70.2-130			
Hexachlorobutadiene	0.021	0.0005	mg/L	0.0200		107	78.9-148			
Iodomethane	0.040	0.001	mg/L	0.0400		100	63.5-135			
Isopropylbenzene	0.019	0.0005	mg/L	0.0200		94.0	85-124			
m+p - Xylene	0.042	0.001	mg/L	0.0400		106	71.9-133			
Methyl tert-butyl ether	0.048	0.001	mg/L	0.0400		120	57.7-137			
Methylene chloride	0.017	0.0005	mg/L	0.0200		86.2	49.3-163			
Naphthalene	0.021	0.0005	mg/L	0.0200		105	62.1-141			
n-Butylbenzene	0.021	0.0005	mg/L	0.0200		104	75.4-132			
n-Propylbenzene	0.021	0.0005	mg/L	0.0200		105	79.6-124			
o-Xylene	0.020	0.0005	mg/L	0.0200		99.6	69.4-132			
p-Isopropyltoluene	0.020	0.0005	mg/L	0.0200		99.5	79.8-131			
sec-Butylbenzene	0.022	0.0005	mg/L	0.0200		109	77.6-133			
Styrene	0.019	0.0005	mg/L	0.0200		97.4	71.7-128			
tert-Butylbenzene	0.021	0.0005	mg/L	0.0200		104	78.8-128			
Tetrachloroethene	0.019	0.0005	mg/L	0.0200		96.4	74.2-128			
Toluene	0.021	0.0005	mg/L	0.0200		104	68.1-127			
<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	0.062	0.001	mg/L	0.0600		104	71.6-132			
trans-1,2-Dichloroethene	0.021	0.0005	mg/L	0.0200		103	65.2-133			
trans-1,3-Dichloropropene	0.021	0.0005	mg/L	0.0200		105	84-123			
trans-1,4-Dichloro-2-butene	0.046	0.010	mg/L	0.0400		115	9.3-235			
Trichloroethene	0.020	0.0005	mg/L	0.0200		102	79.3-114			
Trichlorofluoromethane	0.017	0.0005	mg/L	0.0200		85.4	28.6-162			
Vinyl acetate	0.018	0.0005	mg/L	0.0200		88.6	50.9-135			
Vinyl chloride	0.017	0.0005	mg/L	0.0200		86.4	61.6-133			

**LCS Dup (5040219-BSD1)**

Prepared & Analyzed: 04/02/25

1,1,1,2-Tetrachloroethane	0.020	0.0005	mg/L	0.0200		99.2	82.4-120	0.754	6.88	
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Report Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 04/08/25 14:51

**VOLATILES BY GC/MS - Quality Control**  
**(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5040219 - Volatiles (Continued)**

**LCS Dup (5040219-BSD1) (Continued)**

Prepared & Analyzed: 04/02/25

1,1,1-Trichloroethane	0.021	0.0005	mg/L	0.0200		103	80.7-121	2.77	7.43	
1,1,2,2-Tetrachloroethane	0.024	0.0005	mg/L	0.0200		118	76.5-121	1.50	8.68	
1,1,2-Trichloroethane	0.022	0.0005	mg/L	0.0200		110	81.7-118	0.991	6.82	
1,1-Dichloroethane	0.019	0.0005	mg/L	0.0200		96.7	74.8-123	16.3	4.3	QR-02
1,1-Dichloroethene	0.021	0.0005	mg/L	0.0200		104	53.9-149	23.6	16.5	QR-02
1,1-Dichloropropene	0.018	0.0005	mg/L	0.0200		90.0	85.9-115	8.61	5.47	QR-02
1,2,3-Trichlorobenzene	0.019	0.0005	mg/L	0.0200		96.9	76.1-134	9.63	43	
1,2,4-Trichlorobenzene	0.019	0.0005	mg/L	0.0200		95.7	72.4-136	9.79	22.3	
1,2,4-Trimethylbenzene	0.020	0.0005	mg/L	0.0200		98.1	67.4-138	2.07	8.94	
1,2-Dibromo-3-chloropropane	0.020	0.0005	mg/L	0.0200		98.1	71.7-124	4.32	15.1	
1,2-Dibromoethane	0.021	0.0005	mg/L	0.0200		107	84.9-116	0.559	5.83	
1,2-Dichlorobenzene	0.019	0.0005	mg/L	0.0200		96.4	82.5-119	3.77	8.72	
1,2-Dichloroethane	0.020	0.0005	mg/L	0.0200		102	72.5-123	3.74	8.94	
1,2-Dichloropropane	0.022	0.0005	mg/L	0.0200		111	79.4-117	6.00	5.51	QR-02
1,3,5-Trimethylbenzene	0.020	0.0005	mg/L	0.0200		98.2	69-137	4.87	16.5	
1,3-Dichlorobenzene	0.019	0.0005	mg/L	0.0200		95.3	84.4-120	4.26	9	
1,3-Dichloropropane	0.021	0.0005	mg/L	0.0200		105	82.6-117	7.53	6.06	QR-02
1,4-Dichlorobenzene	0.021	0.0005	mg/L	0.0200		103	81.7-118	3.04	7.71	
1,4-Dioxane	0.566	0.020	mg/L	0.400		141	-34.6-193	3.62	35.2	
1,2,3-trichloropropane	0.021	0.0005	mg/L	0.0200		103	44.7-168	5.54	49.2	
2,2-Dichloropropane	0.020	0.0005	mg/L	0.0200		99.5	62.9-136	2.65	9.62	
2-Butanone	0.050	0.002	mg/L	0.0400		124	24.1-159	2.68	14.2	
2-Chlorotoluene	0.020	0.0005	mg/L	0.0200		101	80.2-121	1.87	8.62	
2-Hexanone	0.059	0.001	mg/L	0.0400		148	56.3-139	3.18	7.28	BS1
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0256</i>		mg/L	<i>0.0250</i>		<i>102</i>	<i>76.4-114</i>			
4-Chlorotoluene	0.020	0.0005	mg/L	0.0200		101	82.2-125	1.71	15.5	
4-Methyl-2-pentanone	0.055	0.001	mg/L	0.0400		138	60.7-139	7.03	7.57	
Acetone	0.057	0.010	mg/L	0.0400		142	39.1-168	0.664	30.5	
Acrolein	0.196	0.005	mg/L	0.200		98.2	26.6-161	28.3	22.4	QR-02
Acrylonitrile	0.047	0.002	mg/L	0.0400		117	64.9-135	23.0	7.62	QR-02
Benzene	0.019	0.0005	mg/L	0.0200		93.2	69.4-129	4.46	4.16	QR-02
Bromobenzene	0.020	0.0005	mg/L	0.0200		101	83.5-115	1.09	8.41	
Bromochloromethane	0.020	0.0005	mg/L	0.0200		101	70.7-123	0.791	5.16	
Bromodichloromethane	0.024	0.0005	mg/L	0.0200		119	80.3-119	20.0	5.36	QR-02
Bromoform	0.020	0.0005	mg/L	0.0200		100	71.1-141	0.399	14.1	
Bromomethane	0.019	0.0005	mg/L	0.0200		93.4	55.1-143	14.0	21.5	
Carbon disulfide	0.055	0.001	mg/L	0.0400		137	53.6-147	21.1	20.3	QR-02
Carbon tetrachloride	0.020	0.0005	mg/L	0.0200		97.5	79.5-125	3.43	11.4	
Chlorobenzene	0.019	0.0005	mg/L	0.0200		96.3	85.1-115	1.29	5.18	

Green Analytical Laboratories

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Report Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 04/08/25 14:51

**VOLATILES BY GC/MS - Quality Control**  
**(Continued)**

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

**Batch 5040219 - Volatiles (Continued)**

**LCS Dup (5040219-BSD1) (Continued)**

Prepared & Analyzed: 04/02/25

Chloroethane	0.020	0.0005	mg/L	0.0200		99.4	36.9-159	15.7	24.1	
Chloroform	0.021	0.0005	mg/L	0.0200		107	80.9-119	4.74	5.15	
Chloromethane	0.020	0.0005	mg/L	0.0200		101	54.2-142	3.17	27	
cis-1,2-Dichloroethene	0.019	0.0005	mg/L	0.0200		95.6	73.8-128	7.32	5.73	QR-02
cis-1,3-Dichloropropene	0.020	0.0005	mg/L	0.0200		101	82.5-122	11.4	6.09	QR-02
Dibromochloromethane	0.020	0.0005	mg/L	0.0200		97.8	83.1-124	0.204	7.24	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0249</i>		mg/L	<i>0.0250</i>		<i>99.5</i>	<i>82.4-141</i>			
Dibromomethane	0.022	0.0005	mg/L	0.0200		112	77-118	10.7	5.75	QR-02
Dichlorodifluoromethane	0.019	0.0005	mg/L	0.0200		95.8	38.7-147	7.41	22.6	
Ethylbenzene	0.020	0.0005	mg/L	0.0200		102	70.2-130	2.90	4.83	
Hexachlorobutadiene	0.019	0.0005	mg/L	0.0200		94.8	78.9-148	11.9	18.4	
Iodomethane	0.050	0.001	mg/L	0.0400		124	63.5-135	21.6	24.3	
Isopropylbenzene	0.018	0.0005	mg/L	0.0200		89.3	85-124	5.08	6.25	
m+p - Xylene	0.041	0.001	mg/L	0.0400		102	71.9-133	3.15	5.77	
Methyl tert-butyl ether	0.049	0.001	mg/L	0.0400		123	57.7-137	2.97	12.8	
Methylene chloride	0.020	0.0005	mg/L	0.0200		101	49.3-163	15.3	19.7	
Naphthalene	0.021	0.0005	mg/L	0.0200		106	62.1-141	1.04	33.5	
n-Butylbenzene	0.019	0.0005	mg/L	0.0200		95.2	75.4-132	8.98	10.1	
n-Propylbenzene	0.020	0.0005	mg/L	0.0200		99.9	79.6-124	4.69	9.09	
o-Xylene	0.019	0.0005	mg/L	0.0200		95.1	69.4-132	4.62	6.29	
p-Isopropyltoluene	0.020	0.0005	mg/L	0.0200		99.0	79.8-131	0.453	9.26	
sec-Butylbenzene	0.020	0.0005	mg/L	0.0200		101	77.6-133	7.86	9.85	
Styrene	0.019	0.0005	mg/L	0.0200		93.6	71.7-128	4.03	7.55	
tert-Butylbenzene	0.020	0.0005	mg/L	0.0200		102	78.8-128	1.99	18.6	
Tetrachloroethene	0.019	0.0005	mg/L	0.0200		95.0	74.2-128	1.36	6.38	
Toluene	0.020	0.0005	mg/L	0.0200		98.3	68.1-127	5.39	5.67	
<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	0.060	0.001	mg/L	0.0600		99.9	71.6-132	3.62	5.83	
trans-1,2-Dichloroethene	0.019	0.0005	mg/L	0.0200		95.9	65.2-133	6.80	19.1	
trans-1,3-Dichloropropene	0.020	0.0005	mg/L	0.0200		100	84-123	4.38	6.26	
trans-1,4-Dichloro-2-butene	0.017	0.010	mg/L	0.0400		43.2	9.3-235	90.4	92.8	
Trichloroethene	0.020	0.0005	mg/L	0.0200		99.5	79.3-114	2.97	4.92	
Trichlorofluoromethane	0.022	0.0005	mg/L	0.0200		111	28.6-162	26.3	19.8	QR-02
Vinyl acetate	0.024	0.0005	mg/L	0.0200		120	50.9-135	30.3	7.84	QR-02
Vinyl chloride	0.019	0.0005	mg/L	0.0200		95.1	61.6-133	9.59	23	

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Report Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

**Reported:**  
 04/08/25 14:51

### Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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'.

Report Station For Jeremy D Allen, Laboratory Director

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Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: VOC 8260  
Project Name / Number: Mudge LS #006  
Project Manager: Kyle Siessier

**Reported:**  
04/08/25 14:51

### Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
5040219-BS1	Volatile 8260	2-Hexanone	BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
5040219-BSD1	Volatile 8260	1,1-Dichloroethane	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5040219-BSD1	Volatile 8260	1,1-Dichloroethene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5040219-BSD1	Volatile 8260	1,1-Dichloropropene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5040219-BSD1	Volatile 8260	1,2-Dichloropropane	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5040219-BSD1	Volatile 8260	1,3-Dichloropropane	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5040219-BSD1	Volatile 8260	2-Hexanone	BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
5040219-BSD1	Volatile 8260	Acrolein	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5040219-BSD1	Volatile 8260	Acrylonitrile	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5040219-BSD1	Volatile 8260	Benzene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5040219-BSD1	Volatile 8260	Bromodichloromethane	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5040219-BSD1	Volatile 8260	Carbon disulfide	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5040219-BSD1	Volatile 8260	cis-1,2-Dichloroethene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

Green Analytical Laboratories

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

Report Station For Jeremy D Allen, Laboratory Director

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Cottonwood Consulting	Project: VOC 8260	
PO Box 1653	Project Name / Number: Mudge LS #006	<b>Reported:</b>
Durango CO, 81302	Project Manager: Kyle Siesser	04/08/25 14:51

5040219-BSD1	Volatile 8260	cis-1,3-Dichloropropene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5040219-BSD1	Volatile 8260	Dibromomethane	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5040219-BSD1	Volatile 8260	Trichlorofluoromethane	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5040219-BSD1	Volatile 8260	Vinyl acetate	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

Green Analytical Laboratories

Report Station For Jeremy D Allen, Laboratory Director

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75 Suttle Street  
Durango, CO 81303  
(970) 247-4220

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST  
FORM-006, R 8.0

Note: White-Out™ or similar products cannot be used on the Chain of Custody

Company or Client: Cottonwood Consulting LLC  
 Address: PO Box 1653  
 City: Durango State: CO Zip: 81302  
 Phone #: 970-764-7356  
 Contact Person: Kyle Siesser  
 Email Report to: ksiesser@cottonwoodconsulting.com  
 Project Name(optional): **Mudge LS #006**  
 Sampler Name (Print): Kelsey O'Brien / Joseph Lafortune

Bill to (if different):  
 ANALYSIS REQUEST

P.O. #: \_\_\_\_\_  
 Rush?  Yes  No  
 TAT Needed? \_\_\_\_\_

Lab Use Only	Lab I.D.	Sample Name or Location	Collected		Matrix (check one)							# of containers	EPA Method 8260 (VOCs)
			Date	Time	GROUNDWATER	SURFACE WATER	WASTEWATER	PRODUCED WATER	DRINKING WATER	SOIL	OTHER:		
01		MW #1	1/6/30	3/25/25	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	<input checked="" type="checkbox"/>	
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion of the applicable service. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]* Date: 3/26/25  
 Received By: *[Signature]* Date: 3/26/25  
 Relinquished By: *[Signature]* Date: 1/4/25  
 Received By: *[Signature]* Date: 1/4/25  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date: \_\_\_\_\_

Temperature at receipt: 5.1/4.2°C  
 Checked by: *[Signature]*  
 On Ice?  Yes  No  
 Therm. used: *[Signature]*

\* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.



Date/Initials of person examining contents: 3-26-15  
[Signature]

Labeled by initials: \_\_\_\_\_  
(if different than above)

### SAMPLE CONDITION RECEIPT FORM

Client Name: Cottonwood

Work Order # 2503-245

Courier:  Fed Ex  UPS  USPS  Client  Kangaroo  Third Party  Other

Custody Seals on Box/Cooler Present:  Yes  No Seals Intact:  Yes  No GAL Cooler #: \_\_\_\_\_

Thermometer Used: #2 Samples on ice, cooling process has begun:  Yes  No

Type of Ice:  Wet  Blue  None Cooler Temp: Observed Temp: 5.1 °C Correction Factor: -0.9 °C Final Temp: 4.2 °C

\*Temp should be above freezing 6°C

Compliance:  Yes  No

Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
COC Signed when Relinquished and Received:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and Signature on COC: *Required for compliance	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Samples arrived within hold time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Correct Containers Used & Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
pH's acceptable upon receipt, where applicable: *Not including metals bottles	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9.
Dissolved Testing Needed:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10.
Field Filtered: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Sample Labels match COC: -Includes Date/Time/ID	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11.
Matrix:	<input checked="" type="checkbox"/> SL <input type="checkbox"/> OT	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
VOA's meet headspace requirement (<6mm bubbles)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Non-Conformance(s):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	13.

1 vial w/ bubble approx. 6am

Client Notification/Resolution:

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



75 Suttle Street  
Durango, CO 81303  
970.247.4220 Phone  
jeremy.allen@greenanalytical.com

30 June 2025

Kyle Siesser  
Cottonwood Consulting  
PO Box 1653  
Durango, CO 81302  
RE: Mudge LS#006

Enclosed are the results of analyses for samples received by the laboratory on 06/18/25 15:31. 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 'Jeremy D. Allen' is enclosed in a light blue rectangular box.

Report Station For 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: TX-C25-00079

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: TX-C25-00101

## Table of Contents

Samples in Report	3
Sample Results	4
2506252-01: MW #1	4
Quality Assurance Results	7
Notes and Definitions	13
Qualifier Summary	14
Chain of Custody & Attachments	16



Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: VOC 8260  
Project Name / Number: Mudge LS#006  
Project Manager: Kyle Siesser

**Reported:**  
06/30/25 17:33

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #1	2506252-01	Water	06/18/25 09:15	06/18/25 15:31	

Green Analytical Laboratories

Report Station For Jeremy D Allen, Laboratory Director

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Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS#006  
 Project Manager: Kyle Siesser

Reported:  
 06/30/25 17:33

MW #1

2506252-01 (Ground Water)

Sampled Date: 06/18/25 09:15

Sampled By: Kelsey O'brien/Joseph Lafortune

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

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

VOLATILES BY GC/MS

1,1,1,2-Tetrachloroethane*	<0.010	0.010	0.001	mg/L	20	06/26/25 20:32	8260B		SK
1,1,1-Trichloroethane*	<0.010	0.010	0.001	mg/L	20	06/26/25 20:32	8260B		SK
1,1,2,2-Tetrachloroethane*	<0.010	0.010	0.001	mg/L	20	06/26/25 20:32	8260B		SK
1,1,2-Trichloroethane*	<0.010	0.010	0.001	mg/L	20	06/26/25 20:32	8260B		SK
1,1-Dichloroethane*	<0.010	0.010	0.003	mg/L	20	06/26/25 20:32	8260B		SK
1,1-Dichloroethene*	<0.010	0.010	0.004	mg/L	20	06/26/25 20:32	8260B		SK
1,1-Dichloropropene*	<0.010	0.010	0.003	mg/L	20	06/26/25 20:32	8260B		SK
1,2,3-Trichlorobenzene*	<0.010	0.010	0.005	mg/L	20	06/26/25 20:32	8260B		SK
1,2,4-Trichlorobenzene*	<0.010	0.010	0.003	mg/L	20	06/26/25 20:32	8260B		SK
1,2,4-Trimethylbenzene*	0.751	0.010	0.0009	mg/L	20	06/26/25 20:32	8260B		SK
1,2-Dibromo-3-chloropropane*	<0.010	0.010	0.010	mg/L	20	06/26/25 20:32	8260B		SK
1,2-Dibromoethane*	<0.010	0.010	0.002	mg/L	20	06/26/25 20:32	8260B		SK
1,2-Dichlorobenzene*	<0.010	0.010	0.001	mg/L	20	06/26/25 20:32	8260B		SK
1,2-Dichloroethane*	<0.010	0.010	0.001	mg/L	20	06/26/25 20:32	8260B		SK
1,2-Dichloropropane*	<0.010	0.010	0.002	mg/L	20	06/26/25 20:32	8260B		SK
1,3,5-Trimethylbenzene*	0.386	0.010	0.0009	mg/L	20	06/26/25 20:32	8260B		SK
1,3-Dichlorobenzene*	<0.010	0.010	0.001	mg/L	20	06/26/25 20:32	8260B		SK
1,3-Dichloropropane*	<0.010	0.010	0.003	mg/L	20	06/26/25 20:32	8260B		SK
1,4-Dichlorobenzene	<0.010	0.010	0.0007	mg/L	20	06/26/25 20:32	8260B		SK
1,4-Dioxane	<0.400	0.400	0.400	mg/L	20	06/26/25 20:32	8260B		SK
1,2,3-trichloropropane*	<0.010	0.010	0.002	mg/L	20	06/26/25 20:32	8260B		SK
2,2-Dichloropropane*	<0.010	0.010	0.010	mg/L	20	06/26/25 20:32	8260B		SK
2-Butanone*	<0.040	0.040	0.040	mg/L	20	06/26/25 20:32	8260B		SK
2-Chlorotoluene*	<0.010	0.010	0.0008	mg/L	20	06/26/25 20:32	8260B		SK
2-Hexanone*	<0.020	0.020	0.006	mg/L	20	06/26/25 20:32	8260B		SK
4-Chlorotoluene*	<0.010	0.010	0.0009	mg/L	20	06/26/25 20:32	8260B		SK
4-Methyl-2-pentanone*	<0.020	0.020	0.002	mg/L	20	06/26/25 20:32	8260B		SK
Acetone*	<0.200	0.200	0.017	mg/L	20	06/26/25 20:32	8260B		SK

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Report Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS#006  
 Project Manager: Kyle Siesser

Reported:  
 06/30/25 17:33

**MW #1**

**2506252-01 (Ground Water)**  
**Sampled Date: 06/18/25 09:15**  
**Sampled By: Kelsey O'brien/Joseph Lafortune**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**VOLATILES BY GC/MS**

Acrolein*	<0.100	0.100	0.022	mg/L	20	06/26/25 20:32	8260B		SK
Acrylonitrile*	<0.040	0.040	0.016	mg/L	20	06/26/25 20:32	8260B		SK
Benzene*	<b>0.255</b>	0.010	0.0009	mg/L	20	06/26/25 20:32	8260B		SK
Bromobenzene*	<0.010	0.010	0.001	mg/L	20	06/26/25 20:32	8260B		SK
Bromochloromethane*	<0.010	0.010	0.003	mg/L	20	06/26/25 20:32	8260B		SK
Bromodichloromethane*	<0.010	0.010	0.0008	mg/L	20	06/26/25 20:32	8260B		SK
Bromoform*	<0.010	0.010	0.002	mg/L	20	06/26/25 20:32	8260B		SK
Bromomethane*	<0.010	0.010	0.010	mg/L	20	06/26/25 20:32	8260B		SK
Carbon disulfide*	<b>0.030</b>	0.020	0.003	mg/L	20	06/26/25 20:32	8260B		SK
Carbon tetrachloride*	<0.010	0.010	0.003	mg/L	20	06/26/25 20:32	8260B		SK
Chlorobenzene*	<0.010	0.010	0.0008	mg/L	20	06/26/25 20:32	8260B		SK
Chloroethane*	<0.010	0.010	0.010	mg/L	20	06/26/25 20:32	8260B		SK
Chloroform*	<0.010	0.010	0.0003	mg/L	20	06/26/25 20:32	8260B		SK
Chloromethane*	<0.010	0.010	0.010	mg/L	20	06/26/25 20:32	8260B		SK
cis-1,2-Dichloroethene*	<0.010	0.010	0.005	mg/L	20	06/26/25 20:32	8260B		SK
cis-1,3-Dichloropropene*	<0.010	0.010	0.002	mg/L	20	06/26/25 20:32	8260B		SK
Dibromochloromethane*	<0.010	0.010	0.002	mg/L	20	06/26/25 20:32	8260B		SK
Dibromomethane*	<0.010	0.010	0.003	mg/L	20	06/26/25 20:32	8260B		SK
Dichlorodifluoromethane*	<0.010	0.010	0.010	mg/L	20	06/26/25 20:32	8260B		SK
Ethylbenzene*	<b>0.370</b>	0.010	0.0006	mg/L	20	06/26/25 20:32	8260B		SK
Hexachlorobutadiene*	<0.010	0.010	0.010	mg/L	20	06/26/25 20:32	8260B		SK
Iodomethane	<0.020	0.020	0.001	mg/L	20	06/26/25 20:32	8260B		SK
Isopropylbenzene*	<b>0.075</b>	0.010	0.0004	mg/L	20	06/26/25 20:32	8260B		SK
m+p - Xylene*	<b>3.20</b>	0.020	0.002	mg/L	20	06/26/25 20:32	8260B		SK
Methyl tert-butyl ether	<0.020	0.020	0.005	mg/L	20	06/26/25 20:32	8260B		SK
Methylene chloride*	<0.010	0.010	0.010	mg/L	20	06/26/25 20:32	8260B		SK
Naphthalene*	<b>0.059</b>	0.010	0.002	mg/L	20	06/26/25 20:32	8260B		SK
n-Butylbenzene*	<0.010	0.010	0.001	mg/L	20	06/26/25 20:32	8260B		SK
n-Propylbenzene*	<b>0.077</b>	0.010	0.001	mg/L	20	06/26/25 20:32	8260B		SK
o-Xylene*	<b>0.956</b>	0.010	0.003	mg/L	20	06/26/25 20:32	8260B		SK
p-Isopropyltoluene*	<b>0.049</b>	0.010	0.0009	mg/L	20	06/26/25 20:32	8260B		SK

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Report Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS#006  
 Project Manager: Kyle Siesser

**Reported:**  
 06/30/25 17:33

**MW #1**

**2506252-01 (Ground Water)**

**Sampled Date: 06/18/25 09:15**

**Sampled By: Kelsey O'brien/Joseph Lafortune**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**VOLATILES BY GC/MS**

sec-Butylbenzene*	0.033	0.010	0.0009	mg/L	20	06/26/25 20:32	8260B		SK
Styrene*	<0.010	0.010	0.002	mg/L	20	06/26/25 20:32	8260B		SK
tert-Butylbenzene*	<0.010	0.010	0.001	mg/L	20	06/26/25 20:32	8260B		SK
Tetrachloroethene*	<0.010	0.010	0.002	mg/L	20	06/26/25 20:32	8260B		SK
Toluene*	0.840	0.010	0.002	mg/L	20	06/26/25 20:32	8260B		SK
Total Xylenes*	4.15	0.020	0.004	mg/L	20	06/26/25 20:32	8260B		SK
trans-1,2-Dichloroethene*	<0.010	0.010	0.003	mg/L	20	06/26/25 20:32	8260B		SK
trans-1,3-Dichloropropene*	<0.010	0.010	0.001	mg/L	20	06/26/25 20:32	8260B		SK
trans-1,4-Dichloro-2-butene	<0.200	0.200	0.006	mg/L	20	06/26/25 20:32	8260B		SK
Trichloroethene*	<0.010	0.010	0.003	mg/L	20	06/26/25 20:32	8260B		SK
Trichlorofluoromethane*	<0.010	0.010	0.003	mg/L	20	06/26/25 20:32	8260B		SK
Vinyl acetate*	<0.010	0.010	0.010	mg/L	20	06/26/25 20:32	8260B		SK
Vinyl chloride*	<0.010	0.010	0.010	mg/L	20	06/26/25 20:32	8260B		SK
Surrogate: 4-Bromofluorobenzene			92.5 %	76.4-114		06/26/25 20:32	8260B		SK
Surrogate: Dibromofluoromethane			99.7 %	82.4-141		06/26/25 20:32	8260B		SK
Surrogate: Toluene-d8			97.8 %	87.1-110		06/26/25 20:32	8260B		SK

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Report Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS#006  
 Project Manager: Kyle Siesser

Reported:  
 06/30/25 17:33

**VOLATILES BY GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5062409 - Volatiles**

**Blank (5062409-BLK1)**

Prepared & Analyzed: 06/24/25

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	0.020	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							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0488</i>		<i>mg/L</i>	<i>0.0500</i>		<i>97.6</i>	<i>76.4-114</i>			
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							

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Report Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS#006  
 Project Manager: Kyle Siesser

Reported:  
 06/30/25 17:33

**VOLATILES BY GC/MS - Quality Control  
 (Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5062409 - Volatiles (Continued)**

**Blank (5062409-BLK1) (Continued)**

Prepared & Analyzed: 06/24/25

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>	0.0521		mg/L	0.0500		104	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 tert-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>	0.0485		mg/L	0.0500		97.0	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							

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Report Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS#006  
 Project Manager: Kyle Siesser

Reported:  
 06/30/25 17:33

**VOLATILES BY GC/MS - Quality Control**  
**(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5062409 - Volatiles (Continued)**

**LCS (5062409-BS1)**

Prepared & Analyzed: 06/24/25

1,1,1,2-Tetrachloroethane	0.019	0.0005	mg/L	0.0200		92.6	82.4-120			
1,1,1-Trichloroethane	0.018	0.0005	mg/L	0.0200		89.1	80.7-121			
1,1,2,2-Tetrachloroethane	0.016	0.0005	mg/L	0.0200		79.4	76.5-121			
1,1,2-Trichloroethane	0.019	0.0005	mg/L	0.0200		92.6	81.7-118			
1,1-Dichloroethane	0.020	0.0005	mg/L	0.0200		99.4	74.8-123			
1,1-Dichloroethene	0.019	0.0005	mg/L	0.0200		94.8	53.9-149			
1,1-Dichloropropene	0.017	0.0005	mg/L	0.0200		84.6	85.9-115			BS-3
1,2,3-Trichlorobenzene	0.019	0.0005	mg/L	0.0200		96.6	76.1-134			
1,2,4-Trichlorobenzene	0.019	0.0005	mg/L	0.0200		95.4	72.4-136			
1,2,4-Trimethylbenzene	0.016	0.0005	mg/L	0.0200		79.8	67.4-138			
1,2-Dibromo-3-chloropropane	0.013	0.0005	mg/L	0.0200		67.0	71.7-124			BS-3
1,2-Dibromoethane	0.021	0.0005	mg/L	0.0200		106	84.9-116			
1,2-Dichlorobenzene	0.018	0.0005	mg/L	0.0200		89.6	82.5-119			
1,2-Dichloroethane	0.019	0.0005	mg/L	0.0200		93.6	72.5-123			
1,2-Dichloropropane	0.017	0.0005	mg/L	0.0200		84.6	79.4-117			
1,3,5-Trimethylbenzene	0.017	0.0005	mg/L	0.0200		86.0	69-137			
1,3-Dichlorobenzene	0.018	0.0005	mg/L	0.0200		87.6	84.4-120			
1,3-Dichloropropane	0.019	0.0005	mg/L	0.0200		94.0	82.6-117			
1,4-Dichlorobenzene	0.017	0.0005	mg/L	0.0200		86.3	81.7-118			
1,4-Dioxane	0.533	0.020	mg/L	0.400		133	-34.6-193			
1,2,3-trichloropropane	0.017	0.0005	mg/L	0.0200		87.2	44.7-168			
2,2-Dichloropropane	0.019	0.0005	mg/L	0.0200		95.2	62.9-136			
2-Butanone	0.039	0.002	mg/L	0.0400		97.4	24.1-159			
2-Chlorotoluene	0.017	0.0005	mg/L	0.0200		86.6	80.2-121			
2-Hexanone	0.029	0.001	mg/L	0.0400		71.4	56.3-139			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0501</i>		<i>mg/L</i>	<i>0.0500</i>		<i>100</i>	<i>76.4-114</i>			
4-Chlorotoluene	0.017	0.0005	mg/L	0.0200		86.9	82.2-125			
4-Methyl-2-pentanone	0.032	0.001	mg/L	0.0400		79.3	60.7-139			
Acetone	0.052	0.010	mg/L	0.0400		131	39.1-168			
Acrolein	0.159	0.005	mg/L	0.200		79.3	26.6-161			
Acrylonitrile	0.045	0.002	mg/L	0.0400		114	64.9-135			
Benzene	0.017	0.0005	mg/L	0.0200		85.6	69.4-129			
Bromobenzene	0.018	0.0005	mg/L	0.0200		87.6	83.5-115			
Bromochloromethane	0.020	0.0005	mg/L	0.0200		102	70.7-123			
Bromodichloromethane	0.017	0.0005	mg/L	0.0200		86.1	80.3-119			
Bromoform	0.016	0.0005	mg/L	0.0200		79.4	71.1-141			
Bromomethane	0.018	0.0005	mg/L	0.0200		89.5	55.1-143			
Carbon disulfide	0.036	0.001	mg/L	0.0400		90.0	53.6-147			
Carbon tetrachloride	0.019	0.0005	mg/L	0.0200		93.8	79.5-125			

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Report Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS#006  
 Project Manager: Kyle Siesser

Reported:  
 06/30/25 17:33

**VOLATILES BY GC/MS - Quality Control**  
**(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5062409 - Volatiles (Continued)**

**LCS (5062409-BS1) (Continued)**

Prepared & Analyzed: 06/24/25

Chlorobenzene	0.017	0.0005	mg/L	0.0200		87.0	85.1-115			
Chloroethane	0.017	0.0005	mg/L	0.0200		87.1	36.9-159			
Chloroform	0.020	0.0005	mg/L	0.0200		100	80.9-119			
Chloromethane	0.017	0.0005	mg/L	0.0200		85.9	54.2-142			
cis-1,2-Dichloroethene	0.019	0.0005	mg/L	0.0200		95.8	73.8-128			
cis-1,3-Dichloropropene	0.017	0.0005	mg/L	0.0200		85.1	82.5-122			
Dibromochloromethane	0.019	0.0005	mg/L	0.0200		94.0	83.1-124			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0510</i>		mg/L	<i>0.0500</i>		<i>102</i>	<i>82.4-141</i>			
Dibromomethane	0.019	0.0005	mg/L	0.0200		97.0	77-118			
Dichlorodifluoromethane	0.017	0.0005	mg/L	0.0200		84.2	38.7-147			
Ethylbenzene	0.016	0.0005	mg/L	0.0200		78.6	70.2-130			
Hexachlorobutadiene	0.018	0.0005	mg/L	0.0200		91.2	78.9-148			
Iodomethane	0.038	0.001	mg/L	0.0400		93.8	63.5-135			
Isopropylbenzene	0.017	0.0005	mg/L	0.0200		84.2	85-124			BS-3
m+p - Xylene	0.036	0.001	mg/L	0.0400		90.7	71.9-133			
Methyl tert-butyl ether	0.039	0.001	mg/L	0.0400		97.5	57.7-137			
Methylene chloride	0.018	0.0005	mg/L	0.0200		91.6	49.3-163			
Naphthalene	0.017	0.0005	mg/L	0.0200		84.8	62.1-141			
n-Butylbenzene	0.016	0.0005	mg/L	0.0200		79.4	75.4-132			
n-Propylbenzene	0.017	0.0005	mg/L	0.0200		82.8	79.6-124			
o-Xylene	0.018	0.0005	mg/L	0.0200		87.6	69.4-132			
p-Isopropyltoluene	0.016	0.0005	mg/L	0.0200		81.8	79.8-131			
sec-Butylbenzene	0.015	0.0005	mg/L	0.0200		76.2	77.6-133			BS-3
Styrene	0.017	0.0005	mg/L	0.0200		84.3	71.7-128			
tert-Butylbenzene	0.016	0.0005	mg/L	0.0200		79.8	78.8-128			
Tetrachloroethene	0.018	0.0005	mg/L	0.0200		92.4	74.2-128			
Toluene	0.018	0.0005	mg/L	0.0200		89.6	68.1-127			
<i>Surrogate: Toluene-d8</i>	<i>0.0506</i>		mg/L	<i>0.0500</i>		<i>101</i>	<i>87.1-110</i>			
Total Xylenes	0.054	0.001	mg/L	0.0600		89.6	71.6-132			
trans-1,2-Dichloroethene	0.018	0.0005	mg/L	0.0200		89.6	65.2-133			
trans-1,3-Dichloropropene	0.017	0.0005	mg/L	0.0200		84.9	84-123			
trans-1,4-Dichloro-2-butene	0.023	0.010	mg/L	0.0400		57.0	9.3-235			
Trichloroethene	0.019	0.0005	mg/L	0.0200		92.9	79.3-114			
Trichlorofluoromethane	0.016	0.0005	mg/L	0.0200		79.7	28.6-162			
Vinyl acetate	0.018	0.0005	mg/L	0.0200		89.1	50.9-135			
Vinyl chloride	0.016	0.0005	mg/L	0.0200		81.4	61.6-133			

**LCS Dup (5062409-BSD1)**

Prepared & Analyzed: 06/24/25

1,1,1,2-Tetrachloroethane	0.021	0.0005	mg/L	0.0200		104	82.4-120	12.1	6.88	QR-02
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Report Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS#006  
 Project Manager: Kyle Siesser

Reported:  
 06/30/25 17:33

**VOLATILES BY GC/MS - Quality Control**  
**(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5062409 - Volatiles (Continued)**

**LCS Dup (5062409-BSD1) (Continued)**

Prepared & Analyzed: 06/24/25

1,1,1-Trichloroethane	0.020	0.0005	mg/L	0.0200		98.6	80.7-121	10.1	7.43	QR-02
1,1,2,2-Tetrachloroethane	0.015	0.0005	mg/L	0.0200		77.0	76.5-121	3.07	8.68	
1,1,2-Trichloroethane	0.019	0.0005	mg/L	0.0200		95.6	81.7-118	3.08	6.82	
1,1-Dichloroethane	0.020	0.0005	mg/L	0.0200		101	74.8-123	1.50	4.3	
1,1-Dichloroethene	0.020	0.0005	mg/L	0.0200		100	53.9-149	5.24	16.5	
1,1-Dichloropropene	0.019	0.0005	mg/L	0.0200		93.1	85.9-115	9.51	5.47	QR-02
1,2,3-Trichlorobenzene	0.018	0.0005	mg/L	0.0200		91.5	76.1-134	5.42	43	
1,2,4-Trichlorobenzene	0.019	0.0005	mg/L	0.0200		97.1	72.4-136	1.82	22.3	
1,2,4-Trimethylbenzene	0.017	0.0005	mg/L	0.0200		84.4	67.4-138	5.48	8.94	
1,2-Dibromo-3-chloropropane	0.015	0.0005	mg/L	0.0200		72.8	71.7-124	8.15	15.1	
1,2-Dibromoethane	0.021	0.0005	mg/L	0.0200		104	84.9-116	1.94	5.83	
1,2-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		98.2	82.5-119	9.15	8.72	QR-02
1,2-Dichloroethane	0.020	0.0005	mg/L	0.0200		97.8	72.5-123	4.49	8.94	
1,2-Dichloropropane	0.019	0.0005	mg/L	0.0200		94.3	79.4-117	10.8	5.51	QR-02
1,3,5-Trimethylbenzene	0.018	0.0005	mg/L	0.0200		91.9	69-137	6.69	16.5	
1,3-Dichlorobenzene	0.018	0.0005	mg/L	0.0200		91.2	84.4-120	4.08	9	
1,3-Dichloropropane	0.019	0.0005	mg/L	0.0200		95.3	82.6-117	1.37	6.06	
1,4-Dichlorobenzene	0.019	0.0005	mg/L	0.0200		93.6	81.7-118	8.17	7.71	QR-02
1,4-Dioxane	0.378	0.020	mg/L	0.400		94.5	-34.6-193	34.0	35.2	
1,2,3-trichloropropane	0.018	0.0005	mg/L	0.0200		88.3	44.7-168	1.25	49.2	
2,2-Dichloropropane	0.020	0.0005	mg/L	0.0200		102	62.9-136	6.61	9.62	
2-Butanone	0.038	0.002	mg/L	0.0400		95.3	24.1-159	2.13	14.2	
2-Chlorotoluene	0.019	0.0005	mg/L	0.0200		92.7	80.2-121	6.86	8.62	
2-Hexanone	0.028	0.001	mg/L	0.0400		71.2	56.3-139	0.245	7.28	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0526</i>		mg/L	<i>0.0500</i>		<i>105</i>	<i>76.4-114</i>			
4-Chlorotoluene	0.018	0.0005	mg/L	0.0200		90.4	82.2-125	4.00	15.5	
4-Methyl-2-pentanone	0.031	0.001	mg/L	0.0400		78.5	60.7-139	0.982	7.57	
Acetone	0.044	0.010	mg/L	0.0400		111	39.1-168	16.3	30.5	
Acrolein	0.136	0.005	mg/L	0.200		67.8	26.6-161	15.6	22.4	
Acrylonitrile	0.045	0.002	mg/L	0.0400		113	64.9-135	0.507	7.62	
Benzene	0.018	0.0005	mg/L	0.0200		90.0	69.4-129	5.07	4.16	QR-02
Bromobenzene	0.019	0.0005	mg/L	0.0200		97.2	83.5-115	10.4	8.41	QR-02
Bromochloromethane	0.022	0.0005	mg/L	0.0200		112	70.7-123	8.64	5.16	QR-02
Bromodichloromethane	0.019	0.0005	mg/L	0.0200		96.4	80.3-119	11.2	5.36	QR-02
Bromoform	0.019	0.0005	mg/L	0.0200		92.8	71.1-141	15.4	14.1	QR-02
Bromomethane	0.019	0.0005	mg/L	0.0200		97.0	55.1-143	7.99	21.5	
Carbon disulfide	0.039	0.001	mg/L	0.0400		97.0	53.6-147	7.46	20.3	
Carbon tetrachloride	0.020	0.0005	mg/L	0.0200		101	79.5-125	7.69	11.4	
Chlorobenzene	0.019	0.0005	mg/L	0.0200		94.5	85.1-115	8.26	5.18	QR-02

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Report Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS#006  
 Project Manager: Kyle Siesser

Reported:  
 06/30/25 17:33

**VOLATILES BY GC/MS - Quality Control**  
**(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5062409 - Volatiles (Continued)**

**LCS Dup (5062409-BSD1) (Continued)**

Prepared & Analyzed: 06/24/25

Chloroethane	0.019	0.0005	mg/L	0.0200		95.8	36.9-159	9.52	24.1	
Chloroform	0.020	0.0005	mg/L	0.0200		101	80.9-119	1.24	5.15	
Chloromethane	0.019	0.0005	mg/L	0.0200		93.6	54.2-142	8.58	27	
cis-1,2-Dichloroethene	0.021	0.0005	mg/L	0.0200		104	73.8-128	7.77	5.73	QR-02
cis-1,3-Dichloropropene	0.018	0.0005	mg/L	0.0200		92.3	82.5-122	8.12	6.09	QR-02
Dibromochloromethane	0.020	0.0005	mg/L	0.0200		98.0	83.1-124	4.06	7.24	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0525</i>		mg/L	<i>0.0500</i>		<i>105</i>	<i>82.4-141</i>			
Dibromomethane	0.020	0.0005	mg/L	0.0200		102	77-118	4.68	5.75	
Dichlorodifluoromethane	0.018	0.0005	mg/L	0.0200		88.0	38.7-147	4.53	22.6	
Ethylbenzene	0.018	0.0005	mg/L	0.0200		90.4	70.2-130	14.0	4.83	QR-02
Hexachlorobutadiene	0.017	0.0005	mg/L	0.0200		87.4	78.9-148	4.25	18.4	
Iodomethane	0.039	0.001	mg/L	0.0400		97.3	63.5-135	3.61	24.3	
Isopropylbenzene	0.018	0.0005	mg/L	0.0200		90.4	85-124	7.16	6.25	QR-02
m+p - Xylene	0.040	0.001	mg/L	0.0400		98.8	71.9-133	8.60	5.77	QR-02
Methyl tert-butyl ether	0.041	0.001	mg/L	0.0400		102	57.7-137	4.09	12.8	
Methylene chloride	0.020	0.0005	mg/L	0.0200		97.6	49.3-163	6.24	19.7	
Naphthalene	0.017	0.0005	mg/L	0.0200		82.7	62.1-141	2.51	33.5	
n-Butylbenzene	0.017	0.0005	mg/L	0.0200		85.2	75.4-132	6.93	10.1	
n-Propylbenzene	0.018	0.0005	mg/L	0.0200		88.4	79.6-124	6.55	9.09	
o-Xylene	0.019	0.0005	mg/L	0.0200		94.8	69.4-132	7.95	6.29	QR-02
p-Isopropyltoluene	0.018	0.0005	mg/L	0.0200		88.9	79.8-131	8.32	9.26	
sec-Butylbenzene	0.016	0.0005	mg/L	0.0200		81.4	77.6-133	6.47	9.85	
Styrene	0.019	0.0005	mg/L	0.0200		97.2	71.7-128	14.3	7.55	QR-02
tert-Butylbenzene	0.018	0.0005	mg/L	0.0200		88.0	78.8-128	9.65	18.6	
Tetrachloroethene	0.021	0.0005	mg/L	0.0200		104	74.2-128	12.1	6.38	QR-02
Toluene	0.018	0.0005	mg/L	0.0200		90.7	68.1-127	1.22	5.67	
<i>Surrogate: Toluene-d8</i>	<i>0.0505</i>		mg/L	<i>0.0500</i>		<i>101</i>	<i>87.1-110</i>			
Total Xylenes	0.058	0.001	mg/L	0.0600		97.5	71.6-132	8.39	5.83	QR-02
trans-1,2-Dichloroethene	0.021	0.0005	mg/L	0.0200		103	65.2-133	14.2	19.1	
trans-1,3-Dichloropropene	0.019	0.0005	mg/L	0.0200		95.5	84-123	11.8	6.26	QR-02
trans-1,4-Dichloro-2-butene	0.019	0.010	mg/L	0.0400		46.7	9.3-235	19.9	92.8	
Trichloroethene	0.020	0.0005	mg/L	0.0200		100	79.3-114	7.31	4.92	QR-02
Trichlorofluoromethane	0.018	0.0005	mg/L	0.0200		88.7	28.6-162	10.7	19.8	
Vinyl acetate	0.017	0.0005	mg/L	0.0200		86.4	50.9-135	3.13	7.84	
Vinyl chloride	0.017	0.0005	mg/L	0.0200		87.4	61.6-133	7.11	23	

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Report Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting	Project: VOC 8260	
PO Box 1653	Project Name / Number: Mudge LS#006	<b>Reported:</b>
Durango CO, 81302	Project Manager: Kyle Siesser	06/30/25 17:33

**Notes and Definitions**

- QR-02      The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- BS-3      Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- 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

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Report Station For Jeremy D Allen, Laboratory Director

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Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: VOC 8260  
Project Name / Number: Mudge LS#006  
Project Manager: Kyle Siesser

**Reported:**  
06/30/25 17:33

### Qualifier Summary

LabNumber	Analysis	Analyte	Qualifier	TextBody
5062409-BS1	Volatile 8260	1,1-Dichloropropene	BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
5062409-BS1	Volatile 8260	1,2-Dibromo-3-chloropropane	BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
5062409-BS1	Volatile 8260	Isopropylbenzene	BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
5062409-BS1	Volatile 8260	sec-Butylbenzene	BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
5062409-BSD1	Volatile 8260	1,1,1,2-Tetrachloroethane	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	1,1,1-Trichloroethane	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	1,1-Dichloropropene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	1,2-Dichlorobenzene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	1,2-Dichloropropane	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	1,4-Dichlorobenzene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	Benzene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	Bromobenzene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	Bromochloromethane	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	Bromodichloromethane	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

Report Station For Jeremy D Allen, Laboratory Director

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Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: VOC 8260  
Project Name / Number: Mudge LS#006  
Project Manager: Kyle Siesser

**Reported:**  
06/30/25 17:33

5062409-BSD1	Volatile 8260	Bromoform	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	Chlorobenzene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	cis-1,2-Dichloroethene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	cis-1,3-Dichloropropene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	Ethylbenzene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	Isopropylbenzene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	m+p - Xylene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	o-Xylene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	Styrene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	Tetrachloroethene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	Total Xylenes	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	trans-1,3-Dichloropropene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
5062409-BSD1	Volatile 8260	Trichloroethene	QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

Green Analytical Laboratories

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

Report Station For Jeremy D Allen, Laboratory Director

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### SAMPLE CONDITION RECEIPT FORM

Date/Initials of person examining contents:	<u>MMW</u> <u>6-18-25</u>
Labeled by initials: (if different than above)	_____

Client Name: Cottonwood

Work Order # 2506-252

Courier:  Fed Ex  UPS  USPS  Client  Kangaroo  Third Party  Other

Custody Seals on Box/Cooler Present:  Yes  No      Seals Intact:  Yes  No      GAL Cooler #: \_\_\_\_\_

Thermometer Used: #2      Samples on ice, cooling process has begun:  Yes  No

Type of Ice:  Wet  Blue  None      Cooler Temp: Observed Temp: 23.3 °C      Correction Factor: +0.2 °C      Final Temp: 23.5 °C  
\*Temp should be above freezing 6°C

Compliance:  Yes  No

Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
COC Signed when Relinquished and Received:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and Signature on COC: *Required for compliance	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Samples arrived within hold time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Correct Containers Used & Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
pH's acceptable upon receipt, where applicable: *Not including metals bottles	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9.
Dissolved Testing Needed: Field Filtered: <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10.
Sample Labels match COC: -Includes Date/Time/ID Matrix: <u>WT</u> SL OT	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
VOA's meet headspace requirement (<6mm bubbles)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Non-Conformance(s):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	13.

Client Notification/Resolution:

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



75 Suttle Street  
Durango, CO 81303  
970.247.4220 Phone  
jeremy.allen@greenanalytical.com

01 October 2025

Kyle Siesser  
Cottonwood Consulting  
PO Box 1653  
Durango, CO 81302  
RE: Mudge LS #006

Enclosed are the results of analyses for samples received by the laboratory on 09/17/25 15:20. 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 'Jeremy D. Allen'.

Reporting Station For 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: TX-C25-00079

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: TX-C25-00101

## Table of Contents

Samples in Report	3
Sample Results	4
2509228-01: MW#1	4
Quality Assurance Results	8
Notes and Definitions	14
Chain of Custody & Attachments	15



Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: VOC 8260  
Project Name / Number: Mudge LS #006  
Project Manager: Kyle Siesser

**Reported:**  
10/01/25 16:47

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW#1	2509228-01	Water	09/17/25 09:45	09/17/25 15:20	

Green Analytical Laboratories

Reporting Station For Jeremy D Allen, Laboratory Director

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Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

**Reported:**  
 10/01/25 16:47

**MW#1**

**2509228-01 (Ground Water)**

**Sampled Date: 09/17/25 09:45**

**Sampled By: Kelsey O'Brien/Robert Cochran**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

**VOLATILES BY GC/MS**

1,1,1,2-Tetrachloroethane*	<0.025	0.025	0.003	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
1,1,1-Trichloroethane*	<0.025	0.025	0.003	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
1,1,2,2-Tetrachloroethane*	<0.025	0.025	0.003	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
1,1,2-Trichloroethane*	<0.025	0.025	0.003	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
1,1-Dichloroethane*	<0.025	0.025	0.008	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
1,1-Dichloroethene*	<0.025	0.025	0.009	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
1,1-Dichloropropene*	<0.025	0.025	0.008	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
1,2,3-Trichlorobenzene*	<0.025	0.025	0.012	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
1,2,4-Trichlorobenzene*	<0.025	0.025	0.006	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
1,2,4-Trimethylbenzene*	<b>0.968</b>	0.025	0.002	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
1,2-Dibromo-3-chloropropane*	<0.025	0.025	0.025	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
1,2-Dibromoethane*	<0.025	0.025	0.005	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
1,2-Dichlorobenzene*	<0.025	0.025	0.003	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
1,2-Dichloroethane*	<0.025	0.025	0.003	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
1,2-Dichloropropane*	<0.025	0.025	0.004	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
1,3,5-Trimethylbenzene*	<b>0.496</b>	0.025	0.002	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
1,3-Dichlorobenzene*	<0.025	0.025	0.002	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
1,3-Dichloropropane*	<0.025	0.025	0.007	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
1,4-Dichlorobenzene	<0.025	0.025	0.002	mg/L	50	10/01/25 11:22	8260B	TEM P	SK

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Reporting Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

**Reported:**  
 10/01/25 16:47

**MW#1**

**2509228-01 (Ground Water)**  
**Sampled Date: 09/17/25 09:45**

**Sampled By: Kelsey O'Brien/Robert Cochran**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**VOLATILES BY GC/MS**

1,4-Dioxane	<1.00	1.00	1.00	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
1,2,3-trichloropropane*	<0.025	0.025	0.006	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
2,2-Dichloropropane*	<0.025	0.025	0.025	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
2-Butanone*	<0.100	0.100	0.100	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
2-Chlorotoluene*	<0.025	0.025	0.002	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
2-Hexanone*	<0.050	0.050	0.016	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
4-Chlorotoluene*	<0.025	0.025	0.002	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
4-Methyl-2-pentanone*	<0.050	0.050	0.006	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Acetone*	<0.500	0.500	0.043	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Acrolein*	<0.250	0.250	0.054	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Acrylonitrile*	<0.100	0.100	0.040	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Benzene*	<b>0.573</b>	0.025	0.002	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Bromobenzene*	<0.025	0.025	0.003	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Bromochloromethane*	<0.025	0.025	0.007	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Bromodichloromethane*	<0.025	0.025	0.002	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Bromoform*	<0.025	0.025	0.004	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Bromomethane*	<0.025	0.025	0.025	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Carbon disulfide*	<0.050	0.050	0.007	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Carbon tetrachloride*	<0.025	0.025	0.008	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Chlorobenzene*	<0.025	0.025	0.002	mg/L	50	10/01/25 11:22	8260B	TEM P	SK

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Reporting Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

**Reported:**  
 10/01/25 16:47

**MW#1**

**2509228-01 (Ground Water)**  
**Sampled Date: 09/17/25 09:45**

**Sampled By: Kelsey O'Brien/Robert Cochran**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**VOLATILES BY GC/MS**

Chloroethane*	<0.025	0.025	0.025	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Chloroform*	<0.025	0.025	0.0008	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Chloromethane*	<0.025	0.025	0.025	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
cis-1,2-Dichloroethene*	<0.025	0.025	0.012	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
cis-1,3-Dichloropropene*	<0.025	0.025	0.004	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Dibromochloromethane*	<0.025	0.025	0.004	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Dibromomethane*	<0.025	0.025	0.008	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Dichlorodifluoromethane*	<0.025	0.025	0.025	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Ethylbenzene*	<b>0.376</b>	0.025	0.002	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Hexachlorobutadiene*	<0.025	0.025	0.025	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Iodomethane	<0.050	0.050	0.003	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Isopropylbenzene*	<b>0.094</b>	0.025	0.001	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
m+p - Xylene*	<b>4.03</b>	0.050	0.004	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Methyl tert-butyl ether	<0.050	0.050	0.012	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Methylene chloride*	<0.025	0.025	0.025	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Naphthalene*	<b>0.067</b>	0.025	0.004	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
n-Butylbenzene*	<0.025	0.025	0.003	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
n-Propylbenzene*	<b>0.096</b>	0.025	0.003	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
o-Xylene*	<b>1.31</b>	0.025	0.006	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
p-Isopropyltoluene*	<b>0.068</b>	0.025	0.002	mg/L	50	10/01/25 11:22	8260B	TEM P	SK

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Reporting Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

**Reported:**  
 10/01/25 16:47

**MW#1**

**2509228-01 (Ground Water)**  
**Sampled Date: 09/17/25 09:45**  
**Sampled By: Kelsey O'Brien/Robert Cochran**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**VOLATILES BY GC/MS**

sec-Butylbenzene*	0.031	0.025	0.002	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Styrene*	<0.025	0.025	0.006	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
tert-Butylbenzene*	<0.025	0.025	0.004	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Tetrachloroethene*	<0.025	0.025	0.005	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Toluene*	0.800	0.025	0.004	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Total Xylenes*	5.34	0.050	0.010	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
trans-1,2-Dichloroethene*	<0.025	0.025	0.007	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
trans-1,3-Dichloropropene*	<0.025	0.025	0.002	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
trans-1,4-Dichloro-2-butene	<0.500	0.500	0.014	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Trichloroethene*	<0.025	0.025	0.009	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Trichlorofluoromethane*	<0.025	0.025	0.007	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Vinyl acetate*	<0.025	0.025	0.025	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Vinyl chloride*	<0.025	0.025	0.025	mg/L	50	10/01/25 11:22	8260B	TEM P	SK
Surrogate: 4-Bromofluorobenzene			99.4 %	79.1-111		10/01/25 11:22	8260B	TEM P	SK
Surrogate: Dibromofluoromethane			99.3 %	82.4-125		10/01/25 11:22	8260B	TEM P	SK
Surrogate: Toluene-d8			101 %	82.5-115		10/01/25 11:22	8260B	TEM P	SK

Green Analytical Laboratories

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Reporting Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 10/01/25 16:47

**VOLATILES BY GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5092638 - Volatiles**

**Blank (5092638-BLK1)**

Prepared & Analyzed: 09/26/25

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	0.020	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							

<i>Surrogate: 4-Bromofluorobenzene</i>	0.0244		mg/L	0.0250		97.5	79.1-111			
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

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Reporting Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 10/01/25 16:47

**VOLATILES BY GC/MS - Quality Control  
 (Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5092638 - Volatiles (Continued)**

**Blank (5092638-BLK1) (Continued)**

Prepared & Analyzed: 09/26/25

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>0.0274</i>		<i>mg/L</i>	<i>0.0250</i>		<i>110</i>	<i>82.4-125</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 tert-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>0.0241</i>		<i>mg/L</i>	<i>0.0250</i>		<i>96.6</i>	<i>82.5-115</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							

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Reporting Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 10/01/25 16:47

**VOLATILES BY GC/MS - Quality Control**  
**(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5092638 - Volatiles (Continued)**

**LCS (5092638-BS1)**

Prepared & Analyzed: 09/26/25

1,1,1,2-Tetrachloroethane	0.021	0.0005	mg/L	0.0200		103	83.1-120			
1,1,1-Trichloroethane	0.025	0.0005	mg/L	0.0200		124	50.3-160			
1,1,2,2-Tetrachloroethane	0.014	0.0005	mg/L	0.0200		70.2	48-136			
1,1,2-Trichloroethane	0.015	0.0005	mg/L	0.0200		75.4	73.8-123			
1,1-Dichloroethane	0.018	0.0005	mg/L	0.0200		88.6	72.8-131			
1,1-Dichloroethene	0.021	0.0005	mg/L	0.0200		105	77.6-137			
1,1-Dichloropropene	0.019	0.0005	mg/L	0.0200		97.0	54.5-156			
1,2,3-Trichlorobenzene	0.023	0.0005	mg/L	0.0200		113	66.2-149			
1,2,4-Trichlorobenzene	0.022	0.0005	mg/L	0.0200		109	63.3-150			
1,2,4-Trimethylbenzene	0.023	0.0005	mg/L	0.0200		113	79.1-124			
1,2-Dibromo-3-chloropropane	0.017	0.0005	mg/L	0.0200		82.7	34.9-149			
1,2-Dibromoethane	0.017	0.0005	mg/L	0.0200		86.4	78.5-122			
1,2-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		99.2	84.3-120			
1,2-Dichloroethane	0.022	0.0005	mg/L	0.0200		112	70.4-125			
1,2-Dichloropropane	0.016	0.0005	mg/L	0.0200		82.4	73.3-122			
1,3,5-Trimethylbenzene	0.024	0.0005	mg/L	0.0200		118	77.3-127			
1,3-Dichlorobenzene	0.023	0.0005	mg/L	0.0200		113	84.5-124			
1,3-Dichloropropane	0.016	0.0005	mg/L	0.0200		81.9	76-124			
1,4-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		99.8	83.2-121			
1,4-Dioxane	0.261	0.020	mg/L	0.400		65.4	26-195			
1,2,3-trichloropropane	0.014	0.0005	mg/L	0.0200		69.5	56.5-127			
2,2-Dichloropropane	0.026	0.0005	mg/L	0.0200		128	69.4-132			
2-Butanone	0.037	0.002	mg/L	0.0400		93.7	40.9-157			
2-Chlorotoluene	0.020	0.0005	mg/L	0.0200		100	76.4-123			
2-Hexanone	0.025	0.001	mg/L	0.0400		63.3	15.4-157			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0267</i>		<i>mg/L</i>	<i>0.0250</i>		<i>107</i>	<i>79.1-111</i>			
4-Chlorotoluene	0.020	0.0005	mg/L	0.0200		101	78.7-126			
4-Methyl-2-pentanone	0.025	0.001	mg/L	0.0400		63.5	31.4-146			
Acetone	0.035	0.010	mg/L	0.0400		87.1	49.7-187			
Acrolein	0.132	0.005	mg/L	0.200		66.1	4.88-190			
Acrylonitrile	0.035	0.002	mg/L	0.0400		87.3	52.6-154			
Benzene	0.018	0.0005	mg/L	0.0200		91.0	82.4-116			
Bromobenzene	0.020	0.0005	mg/L	0.0200		99.8	81.5-121			
Bromochloromethane	0.020	0.0005	mg/L	0.0200		99.6	67.4-139			
Bromodichloromethane	0.020	0.0005	mg/L	0.0200		99.0	76.5-119			
Bromoform	0.021	0.0005	mg/L	0.0200		103	64.6-130			
Bromomethane	0.019	0.0005	mg/L	0.0200		93.3	63.3-139			
Carbon disulfide	0.036	0.001	mg/L	0.0400		88.8	66.8-157			
Carbon tetrachloride	0.031	0.0005	mg/L	0.0200		156	73.9-135			BS-3

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Reporting Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 10/01/25 16:47

**VOLATILES BY GC/MS - Quality Control**  
**(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5092638 - Volatiles (Continued)**

**LCS (5092638-BS1) (Continued)**

Prepared & Analyzed: 09/26/25

Chlorobenzene	0.019	0.0005	mg/L	0.0200		95.0	83.5-117			
Chloroethane	0.017	0.0005	mg/L	0.0200		84.6	67.1-139			
Chloroform	0.019	0.0005	mg/L	0.0200		96.6	72.8-130			
Chloromethane	0.015	0.0005	mg/L	0.0200		74.2	45.8-153			
cis-1,2-Dichloroethene	0.017	0.0005	mg/L	0.0200		85.5	75.7-128			
cis-1,3-Dichloropropene	0.017	0.0005	mg/L	0.0200		84.6	71.6-125			
Dibromochloromethane	0.023	0.0005	mg/L	0.0200		115	78.8-123			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0264</i>		mg/L	<i>0.0250</i>		<i>105</i>	<i>82.4-125</i>			
Dibromomethane	0.019	0.0005	mg/L	0.0200		93.0	77.8-119			
Dichlorodifluoromethane	0.026	0.0005	mg/L	0.0200		128	46.1-158			
Ethylbenzene	0.020	0.0005	mg/L	0.0200		98.0	77.9-123			
Hexachlorobutadiene	0.025	0.0005	mg/L	0.0200		124	55.5-185			
Iodomethane	0.040	0.001	mg/L	0.0400		101	74-137			
Isopropylbenzene	0.020	0.0005	mg/L	0.0200		100	77.6-125			
m+p - Xylene	0.038	0.001	mg/L	0.0400		95.2	76.6-128			
Methyl tert-butyl ether	0.038	0.001	mg/L	0.0400		95.9	73.6-131			
Methylene chloride	0.017	0.0005	mg/L	0.0200		87.1	75.1-138			
Naphthalene	0.018	0.0005	mg/L	0.0200		90.6	55.4-142			
n-Butylbenzene	0.022	0.0005	mg/L	0.0200		110	72.8-143			
n-Propylbenzene	0.020	0.0005	mg/L	0.0200		97.6	79.8-127			
o-Xylene	0.019	0.0005	mg/L	0.0200		96.7	72.3-124			
p-Isopropyltoluene	0.022	0.0005	mg/L	0.0200		111	72-135			
sec-Butylbenzene	0.020	0.0005	mg/L	0.0200		102	78.6-130			
Styrene	0.019	0.0005	mg/L	0.0200		94.4	78.9-119			
tert-Butylbenzene	0.024	0.0005	mg/L	0.0200		118	79.8-126			
Tetrachloroethene	0.023	0.0005	mg/L	0.0200		116	76.9-130			
Toluene	0.019	0.0005	mg/L	0.0200		93.4	76.3-120			
<i>Surrogate: Toluene-d8</i>	<i>0.0240</i>		mg/L	<i>0.0250</i>		<i>95.8</i>	<i>82.5-115</i>			
Total Xylenes	0.057	0.001	mg/L	0.0600		95.7	75.9-126			
trans-1,2-Dichloroethene	0.019	0.0005	mg/L	0.0200		92.6	78.3-134			
trans-1,3-Dichloropropene	0.019	0.0005	mg/L	0.0200		93.9	74.4-126			
trans-1,4-Dichloro-2-butene	0.042	0.010	mg/L	0.0400		104	7.48-201			
Trichloroethene	0.019	0.0005	mg/L	0.0200		95.8	77.5-118			
Trichlorofluoromethane	0.027	0.0005	mg/L	0.0200		136	63.7-149			
Vinyl acetate	0.039	0.0005	mg/L	0.0200		193	19.3-171			BS-3
Vinyl chloride	0.018	0.0005	mg/L	0.0200		90.8	64.9-141			

**LCS Dup (5092638-BSD1)**

Prepared & Analyzed: 09/26/25

1,1,1,2-Tetrachloroethane	0.021	0.0005	mg/L	0.0200		106	83.1-120	3.15	6.88	
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Reporting Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 10/01/25 16:47

**VOLATILES BY GC/MS - Quality Control**  
**(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5092638 - Volatiles (Continued)**

**LCS Dup (5092638-BSD1) (Continued)**

Prepared & Analyzed: 09/26/25

1,1,1-Trichloroethane	0.023	0.0005	mg/L	0.0200	115	50.3-160	7.43	7.43	
1,1,2,2-Tetrachloroethane	0.015	0.0005	mg/L	0.0200	73.4	48-136	4.60	8.68	
1,1,2-Trichloroethane	0.016	0.0005	mg/L	0.0200	80.3	73.8-123	6.36	6.82	
1,1-Dichloroethane	0.016	0.0005	mg/L	0.0200	80.9	72.8-131	9.03	4.3	QR-04
1,1-Dichloroethene	0.020	0.0005	mg/L	0.0200	98.6	77.6-137	6.67	16.5	
1,1-Dichloropropene	0.018	0.0005	mg/L	0.0200	91.4	54.5-156	5.94	5.47	QR-04
1,2,3-Trichlorobenzene	0.023	0.0005	mg/L	0.0200	113	66.2-149	0.398	43	
1,2,4-Trichlorobenzene	0.021	0.0005	mg/L	0.0200	107	63.3-150	1.99	22.3	
1,2,4-Trimethylbenzene	0.022	0.0005	mg/L	0.0200	111	79.1-124	1.38	8.94	
1,2-Dibromo-3-chloropropane	0.018	0.0005	mg/L	0.0200	88.6	34.9-149	6.89	15.1	
1,2-Dibromoethane	0.019	0.0005	mg/L	0.0200	93.0	78.5-122	7.35	5.83	QR-04
1,2-Dichlorobenzene	0.020	0.0005	mg/L	0.0200	99.6	84.3-120	0.503	8.72	
1,2-Dichloroethane	0.022	0.0005	mg/L	0.0200	112	70.4-125	0.312	8.94	
1,2-Dichloropropane	0.015	0.0005	mg/L	0.0200	77.0	73.3-122	6.84	5.51	QR-04
1,3,5-Trimethylbenzene	0.023	0.0005	mg/L	0.0200	113	77.3-127	3.94	16.5	
1,3-Dichlorobenzene	0.021	0.0005	mg/L	0.0200	104	84.5-124	8.08	9	
1,3-Dichloropropane	0.016	0.0005	mg/L	0.0200	79.4	76-124	2.98	6.06	
1,4-Dichlorobenzene	0.019	0.0005	mg/L	0.0200	96.8	83.2-121	3.15	7.71	
1,4-Dioxane	0.253	0.020	mg/L	0.400	63.3	26-195	3.18	35.2	
1,2,3-trichloropropane	0.014	0.0005	mg/L	0.0200	71.2	56.5-127	2.35	49.2	
2,2-Dichloropropane	0.025	0.0005	mg/L	0.0200	123	69.4-132	4.47	9.62	
2-Butanone	0.033	0.002	mg/L	0.0400	82.9	40.9-157	12.3	14.2	
2-Chlorotoluene	0.019	0.0005	mg/L	0.0200	97.1	76.4-123	3.14	8.62	
2-Hexanone	0.027	0.001	mg/L	0.0400	67.9	15.4-157	6.98	7.28	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0266</i>		mg/L	<i>0.0250</i>	<i>106</i>	<i>79.1-111</i>			
4-Chlorotoluene	0.020	0.0005	mg/L	0.0200	101	78.7-126	0.347	15.5	
4-Methyl-2-pentanone	0.027	0.001	mg/L	0.0400	68.6	31.4-146	7.69	7.57	QR-04
Acetone	0.028	0.010	mg/L	0.0400	70.6	49.7-187	21.0	30.5	
Acrolein	0.123	0.005	mg/L	0.200	61.3	4.88-190	7.59	22.4	
Acrylonitrile	0.035	0.002	mg/L	0.0400	87.6	52.6-154	0.343	7.62	
Benzene	0.017	0.0005	mg/L	0.0200	84.4	82.4-116	7.47	4.16	QR-04
Bromobenzene	0.020	0.0005	mg/L	0.0200	99.4	81.5-121	0.402	8.41	
Bromochloromethane	0.019	0.0005	mg/L	0.0200	92.7	67.4-139	7.23	5.16	QR-04
Bromodichloromethane	0.019	0.0005	mg/L	0.0200	95.0	76.5-119	4.23	5.36	
Bromoform	0.021	0.0005	mg/L	0.0200	103	64.6-130	0.291	14.1	
Bromomethane	0.016	0.0005	mg/L	0.0200	79.5	63.3-139	16.0	21.5	
Carbon disulfide	0.031	0.001	mg/L	0.0400	77.8	66.8-157	13.1	20.3	
Carbon tetrachloride	0.029	0.0005	mg/L	0.0200	146	73.9-135	6.85	11.4	BS-3
Chlorobenzene	0.019	0.0005	mg/L	0.0200	94.6	83.5-117	0.369	5.18	

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Reporting Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 10/01/25 16:47

**VOLATILES BY GC/MS - Quality Control  
 (Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5092638 - Volatiles (Continued)**

**LCS Dup (5092638-BSD1) (Continued)**

Prepared & Analyzed: 09/26/25

Chloroethane	0.013	0.0005	mg/L	0.0200		67.2	67.1-139	23.0	24.1	
Chloroform	0.018	0.0005	mg/L	0.0200		92.3	72.8-130	4.60	5.15	
Chloromethane	0.014	0.0005	mg/L	0.0200		68.7	45.8-153	7.70	27	
cis-1,2-Dichloroethene	0.016	0.0005	mg/L	0.0200		80.6	75.7-128	5.90	5.73	QR-04
cis-1,3-Dichloropropene	0.015	0.0005	mg/L	0.0200		76.9	71.6-125	9.54	6.09	QR-04
Dibromochloromethane	0.023	0.0005	mg/L	0.0200		113	78.8-123	1.05	7.24	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0259</i>		mg/L	<i>0.0250</i>		<i>104</i>	<i>82.4-125</i>			
Dibromomethane	0.018	0.0005	mg/L	0.0200		91.2	77.8-119	2.06	5.75	
Dichlorodifluoromethane	0.022	0.0005	mg/L	0.0200		108	46.1-158	17.2	22.6	
Ethylbenzene	0.020	0.0005	mg/L	0.0200		98.0	77.9-123	0.0510	4.83	
Hexachlorobutadiene	0.024	0.0005	mg/L	0.0200		119	55.5-185	4.18	18.4	
Iodomethane	0.037	0.001	mg/L	0.0400		92.5	74-137	8.94	24.3	
Isopropylbenzene	0.019	0.0005	mg/L	0.0200		97.4	77.6-125	2.64	6.25	
m+p - Xylene	0.038	0.001	mg/L	0.0400		95.5	76.6-128	0.367	5.77	
Methyl tert-butyl ether	0.038	0.001	mg/L	0.0400		96.2	73.6-131	0.338	12.8	
Methylene chloride	0.016	0.0005	mg/L	0.0200		80.9	75.1-138	7.38	19.7	
Naphthalene	0.018	0.0005	mg/L	0.0200		92.2	55.4-142	1.64	33.5	
n-Butylbenzene	0.021	0.0005	mg/L	0.0200		104	72.8-143	6.26	10.1	
n-Propylbenzene	0.019	0.0005	mg/L	0.0200		93.4	79.8-127	4.34	9.09	
o-Xylene	0.019	0.0005	mg/L	0.0200		93.3	72.3-124	3.58	6.29	
p-Isopropyltoluene	0.022	0.0005	mg/L	0.0200		112	72-135	0.761	9.26	
sec-Butylbenzene	0.020	0.0005	mg/L	0.0200		101	78.6-130	1.58	9.85	
Styrene	0.019	0.0005	mg/L	0.0200		93.7	78.9-119	0.691	7.55	
tert-Butylbenzene	0.023	0.0005	mg/L	0.0200		113	79.8-126	4.38	18.6	
Tetrachloroethene	0.023	0.0005	mg/L	0.0200		115	76.9-130	0.998	6.38	
Toluene	0.018	0.0005	mg/L	0.0200		90.9	76.3-120	2.77	5.67	
<i>Surrogate: Toluene-d8</i>	<i>0.0242</i>		mg/L	<i>0.0250</i>		<i>96.8</i>	<i>82.5-115</i>			
Total Xylenes	0.057	0.001	mg/L	0.0600		94.8	75.9-126	0.945	5.83	
trans-1,2-Dichloroethene	0.018	0.0005	mg/L	0.0200		87.6	78.3-134	5.55	19.1	
trans-1,3-Dichloropropene	0.018	0.0005	mg/L	0.0200		92.4	74.4-126	1.61	6.26	
trans-1,4-Dichloro-2-butene	0.034	0.010	mg/L	0.0400		85.2	7.48-201	19.8	92.8	
Trichloroethene	0.018	0.0005	mg/L	0.0200		88.6	77.5-118	7.76	4.92	QR-04
Trichlorofluoromethane	0.023	0.0005	mg/L	0.0200		117	63.7-149	15.1	19.8	
Vinyl acetate	0.040	0.0005	mg/L	0.0200		202	19.3-171	4.91	7.84	BS-3
Vinyl chloride	0.016	0.0005	mg/L	0.0200		78.0	64.9-141	15.2	23	

Green Analytical Laboratories

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Reporting Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting	Project: VOC 8260	
PO Box 1653	Project Name / Number: Mudge LS #006	<b>Reported:</b>
Durango CO, 81302	Project Manager: Kyle Siesser	10/01/25 16:47

**Notes and Definitions**

- TEMP Samples received out of required temperature of 6°C or below.
- QR-04 The RPD for the BS/BSD was outside of historical limits.
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- 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

Reporting Station For Jeremy D Allen, Laboratory Director

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75 Suttle Street  
Durango, CO 81303  
(970) 247-4220

CHAIN-OF-CUSTODY AND ANALYSIS  
FORM-006, R 8.0

Note: Wire-Out™ or similar products cannot be used on the Chain of Custody

Company or Client: Cottonwood Consulting LLC

Address: PO Box 1653

City: Durango

State: CO Zip: 81302

Phone #: 970-764-7356

Contact Person: Kyle Stesser

Email Report to: kstesser@cottonwoodconsulting.com

Project Name(optional): Mudge LS #006

Sampler Name (Print): Kelsey O'Brien / Robert Cochran

Bill to (if different):

ANALYSIS REQUEST

Lab I.D. <i>2509-228</i> <i>Lab Use Only</i>	Sample Name or Location	Collected		Matrix (check one)							# of containers	EPA Method 8260 (VOCs)
		Date	Time	GROUNDWATER	SURFACE WATER	WASTEWATER	PRODUCED WATER	DRINKING WATER	SOIL	OTHER:		
1) <i>01</i>	MW #1	9/17/25	0945	<input checked="" type="checkbox"/>								<input checked="" type="checkbox"/>
2)												
3)												
4)												
5)												
6)												
7)												
8)												
9)												
10)												

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion of the applicable service. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>WJ O'Brien</i>	Date: 9/17/25	Received By: <i>[Signature]</i>	Date: 9/17/25	ADDITIONAL REMARKS:			
Relinquished By: <i>[Signature]</i>	Date: 1520	Received By: <i>[Signature]</i>	Date: 5/22	Temperature at receipt: 13.4 °C	Checked by: <i>[Signature]</i>	On Ice? <input checked="" type="checkbox"/>	Therm. used: <i>[Signature]</i>
Relinquished By: <i>[Signature]</i>	Date:	Received By:	Date:				

\* GAL cannot accept verbal changes. Please email changes to receiving@greanalytical.com  
\* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges. Page 4 of 7



Table of Contents

Date/Initials of person examining contents: 9.17.25

Labeled by initials: \_\_\_\_\_  
(if different than above)

### SAMPLE CONDITION RECEIPT FORM

Client Name: Cottonwood

Work Order # 2509-228

Courier:  Fed Ex  UPS  USPS  Client  Kangaroo  Third Party  Other

Custody Seals on Box/Cooler Present:  Yes  No      Seals Intact:  Yes  No      GAL Cooler #: \_\_\_\_\_

Thermometer Used: #2      Samples on ice, cooling process has begun:  Yes  No

Type of Ice:  Wet  Blue  None      Cooler Temp: \_\_\_\_\_      Observed Temp: 13.4 °C      Correction Factor: 0 °C      Final Temp: 13.4 °C

\*Temp should be above freezing 6°C

Compliance:  Yes  No

Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
COC Signed when Relinquished and Received:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and Signature on COC: *Required for compliance	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Samples arrived within hold time: (Excluding pH)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Correct Containers Used & Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr): (Excluding pH)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
pH's acceptable upon receipt, where applicable: *Not including metals bottles	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9.
Dissolved Testing Needed: Field Filtered: <input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Sample Labels match COC: -Includes Date/Time/ID Matrix: <u>6</u> WT    SL    OT	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
VOA's meet headspace requirement (<6mm bubbles)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Non-Conformance(s):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	13.

Client Notification/Resolution:

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



75 Suttle Street  
Durango, CO 81303  
970.247.4220 Phone  
jeremy.allen@greenanalytical.com

26 December 2025

Kyle Siesser  
Cottonwood Consulting  
PO Box 1653  
Durango, CO 81302  
RE: Mudge LS #006

Enclosed are the results of analyses for samples received by the laboratory on 12/10/25 15:50. 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 'Jeremy D. Allen'.

Reporting Station For 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: TX-C25-00079

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: TX-C25-00101

## Table of Contents

Samples in Report	3
Sample Results	4
2512137-01: MW#1	4
Quality Assurance Results	7
Notes and Definitions	13
Chain of Custody & Attachments	14



Cottonwood Consulting  
PO Box 1653  
Durango CO, 81302

Project: VOC 8260  
Project Name / Number: Mudge LS #006  
Project Manager: Kyle Siesser

**Reported:**  
12/26/25 09:35

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW#1	2512137-01	Water	12/10/25 08:30	12/10/25 15:50	

Green Analytical Laboratories

Reporting Station For Jeremy D Allen, Laboratory Director

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Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

**Reported:**  
 12/26/25 09:35

**MW#1**

**2512137-01 (Ground Water)**

**Sampled Date: 12/10/25 08:30**

**Sampled By: Kelsey O'Brien/Robert Cochran**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**VOLATILES BY GC/MS**

1,1,1,2-Tetrachloroethane*	<0.0005	0.0005	0.00006	mg/L	1	12/18/25 19:23	8260B		SK
1,1,1-Trichloroethane*	<0.0005	0.0005	0.00006	mg/L	1	12/18/25 19:23	8260B		SK
1,1,2,2-Tetrachloroethane*	<0.0005	0.0005	0.00006	mg/L	1	12/18/25 19:23	8260B		SK
1,1,2-Trichloroethane*	<0.0005	0.0005	0.00006	mg/L	1	12/18/25 19:23	8260B		SK
1,1-Dichloroethane*	<0.0005	0.0005	0.0002	mg/L	1	12/18/25 19:23	8260B		SK
1,1-Dichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	12/18/25 19:23	8260B		SK
1,1-Dichloropropene*	<0.0005	0.0005	0.0002	mg/L	1	12/18/25 19:23	8260B		SK
1,2,3-Trichlorobenzene*	<0.0005	0.0005	0.0002	mg/L	1	12/18/25 19:23	8260B		SK
1,2,4-Trichlorobenzene*	<0.0005	0.0005	0.0001	mg/L	1	12/18/25 19:23	8260B		SK
1,2,4-Trimethylbenzene*	<b>0.709</b>	0.010	0.0009	mg/L	20	12/22/25 11:05	8260B		SK
1,2-Dibromo-3-chloropropane*	<0.0005	0.0005	0.0005	mg/L	1	12/18/25 19:23	8260B		SK
1,2-Dibromoethane*	<0.0005	0.0005	0.00009	mg/L	1	12/18/25 19:23	8260B		SK
1,2-Dichlorobenzene*	<0.0005	0.0005	0.00007	mg/L	1	12/18/25 19:23	8260B		SK
1,2-Dichloroethane*	<0.0005	0.0005	0.00006	mg/L	1	12/18/25 19:23	8260B		SK
1,2-Dichloropropane*	<0.0005	0.0005	0.00008	mg/L	1	12/18/25 19:23	8260B		SK
1,3,5-Trimethylbenzene*	<b>0.271</b>	0.010	0.0009	mg/L	20	12/22/25 11:05	8260B		SK
1,3-Dichlorobenzene*	<0.0005	0.0005	0.00005	mg/L	1	12/18/25 19:23	8260B		SK
1,3-Dichloropropane*	<0.0005	0.0005	0.0001	mg/L	1	12/18/25 19:23	8260B		SK
1,4-Dichlorobenzene	<0.0005	0.0005	0.00004	mg/L	1	12/18/25 19:23	8260B		SK
1,4-Dioxane	<0.020	0.020	0.020	mg/L	1	12/18/25 19:23	8260B		SK
1,2,3-trichloropropane*	<0.0005	0.0005	0.0001	mg/L	1	12/18/25 19:23	8260B		SK
2,2-Dichloropropane*	<0.0005	0.0005	0.0005	mg/L	1	12/18/25 19:23	8260B		SK
2-Butanone*	<b>0.010</b>	0.002	0.002	mg/L	1	12/18/25 19:23	8260B		SK
2-Chlorotoluene*	<0.0005	0.0005	0.00004	mg/L	1	12/18/25 19:23	8260B		SK
2-Hexanone*	<0.001	0.001	0.0003	mg/L	1	12/18/25 19:23	8260B		SK
4-Chlorotoluene*	<0.0005	0.0005	0.00004	mg/L	1	12/18/25 19:23	8260B		SK
4-Methyl-2-pentanone*	<b>0.009</b>	0.001	0.0001	mg/L	1	12/18/25 19:23	8260B		SK
Acetone*	<0.010	0.010	0.0009	mg/L	1	12/18/25 19:23	8260B		SK

Green Analytical Laboratories

Reporting Station For Jeremy D Allen, Laboratory Director

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Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 12/26/25 09:35

MW#1

2512137-01 (Ground Water)  
 Sampled Date: 12/10/25 08:30

Sampled By: Kelsey O'Brien/Robert Cochran

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240

VOLATILES BY GC/MS

Acrolein*	<0.005	0.005	0.001	mg/L	1	12/18/25 19:23	8260B		SK
Acrylonitrile*	<0.002	0.002	0.0008	mg/L	1	12/18/25 19:23	8260B		SK
Benzene*	<b>0.264</b>	0.010	0.0009	mg/L	20	12/22/25 11:05	8260B		SK
Bromobenzene*	<0.0005	0.0005	0.00006	mg/L	1	12/18/25 19:23	8260B		SK
Bromochloromethane*	<0.0005	0.0005	0.0001	mg/L	1	12/18/25 19:23	8260B		SK
Bromodichloromethane*	<0.0005	0.0005	0.00004	mg/L	1	12/18/25 19:23	8260B		SK
Bromoform*	<0.0005	0.0005	0.00009	mg/L	1	12/18/25 19:23	8260B		SK
Bromomethane*	<0.0005	0.0005	0.0005	mg/L	1	12/18/25 19:23	8260B		SK
Carbon disulfide*	<b>0.015</b>	0.001	0.0001	mg/L	1	12/18/25 19:23	8260B		SK
Carbon tetrachloride*	<0.0005	0.0005	0.0002	mg/L	1	12/18/25 19:23	8260B		SK
Chlorobenzene*	<0.0005	0.0005	0.00004	mg/L	1	12/18/25 19:23	8260B		SK
Chloroethane*	<0.0005	0.0005	0.0005	mg/L	1	12/18/25 19:23	8260B		SK
Chloroform*	<0.0005	0.0005	0.00002	mg/L	1	12/18/25 19:23	8260B		SK
Chloromethane*	<b>0.003</b>	0.0005	0.0005	mg/L	1	12/18/25 19:23	8260B		SK
cis-1,2-Dichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	12/18/25 19:23	8260B		SK
cis-1,3-Dichloropropene*	<0.0005	0.0005	0.00009	mg/L	1	12/18/25 19:23	8260B		SK
Dibromochloromethane*	<0.0005	0.0005	0.00008	mg/L	1	12/18/25 19:23	8260B		SK
Dibromomethane*	<0.0005	0.0005	0.0002	mg/L	1	12/18/25 19:23	8260B		SK
Dichlorodifluoromethane*	<0.0005	0.0005	0.0005	mg/L	1	12/18/25 19:23	8260B		SK
Ethylbenzene*	<b>0.299</b>	0.010	0.0006	mg/L	20	12/22/25 11:05	8260B		SK
Hexachlorobutadiene*	<0.0005	0.0005	0.0005	mg/L	1	12/18/25 19:23	8260B		SK
Iodomethane	<0.001	0.001	0.00006	mg/L	1	12/18/25 19:23	8260B		SK
Isopropylbenzene*	<b>0.082</b>	0.0005	0.00002	mg/L	1	12/18/25 19:23	8260B		SK
m+p - Xylene*	<b>1.81</b>	0.020	0.002	mg/L	20	12/22/25 11:05	8260B		SK
Methyl tert-butyl ether	<0.001	0.001	0.0002	mg/L	1	12/18/25 19:23	8260B		SK
Methylene chloride*	<0.0005	0.0005	0.0005	mg/L	1	12/18/25 19:23	8260B		SK
Naphthalene*	<b>0.037</b>	0.0005	0.00008	mg/L	1	12/18/25 19:23	8260B		SK
n-Butylbenzene*	<0.0005	0.0005	0.00007	mg/L	1	12/18/25 19:23	8260B		SK
n-Propylbenzene*	<b>0.080</b>	0.0005	0.00005	mg/L	1	12/18/25 19:23	8260B		SK
o-Xylene*	<b>0.713</b>	0.010	0.003	mg/L	20	12/22/25 11:05	8260B		SK
p-Isopropyltoluene*	<b>0.046</b>	0.0005	0.00004	mg/L	1	12/18/25 19:23	8260B		SK

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Reporting Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

**Reported:**  
 12/26/25 09:35

**MW#1**

**2512137-01 (Ground Water)**  
**Sampled Date: 12/10/25 08:30**

**Sampled By: Kelsey O'Brien/Robert Cochran**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**VOLATILES BY GC/MS**

sec-Butylbenzene*	0.036	0.0005	0.00004	mg/L	1	12/18/25 19:23	8260B		SK
Styrene*	<0.0005	0.0005	0.0001	mg/L	1	12/18/25 19:23	8260B		SK
tert-Butylbenzene*	0.002	0.0005	0.00007	mg/L	1	12/18/25 19:23	8260B		SK
Tetrachloroethene*	<0.0005	0.0005	0.00009	mg/L	1	12/18/25 19:23	8260B		SK
Toluene*	0.279	0.010	0.002	mg/L	20	12/22/25 11:05	8260B		SK
Total Xylenes*	2.52	0.020	0.004	mg/L	20	12/22/25 11:05	8260B		SK
trans-1,2-Dichloroethene*	<0.0005	0.0005	0.0001	mg/L	1	12/18/25 19:23	8260B		SK
trans-1,3-Dichloropropene*	<0.0005	0.0005	0.00005	mg/L	1	12/18/25 19:23	8260B		SK
trans-1,4-Dichloro-2-butene	<0.010	0.010	0.0003	mg/L	1	12/18/25 19:23	8260B		SK
Trichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	12/18/25 19:23	8260B		SK
Trichlorofluoromethane*	<0.0005	0.0005	0.0001	mg/L	1	12/18/25 19:23	8260B		SK
Vinyl acetate*	<0.0005	0.0005	0.0005	mg/L	1	12/18/25 19:23	8260B		SK
Vinyl chloride*	<0.0005	0.0005	0.0005	mg/L	1	12/18/25 19:23	8260B		SK
Surrogate: 4-Bromofluorobenzene			114 %	79.1-111		12/18/25 19:23	8260B	S-04	SK
Surrogate: Dibromofluoromethane			106 %	82.4-125		12/18/25 19:23	8260B		SK
Surrogate: Toluene-d8			107 %	82.5-115		12/18/25 19:23	8260B		SK

Green Analytical Laboratories

Reporting Station For Jeremy D Allen, Laboratory Director

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Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 12/26/25 09:35

**VOLATILES BY GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5121702 - Volatiles**

**Blank (5121702-BLK1)**

Prepared: 12/17/25 Analyzed: 12/18/25

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	0.020	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							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0453</i>		<i>mg/L</i>	<i>0.0500</i>		<i>90.6</i>	<i>79.1-111</i>			
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							

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Reporting Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 12/26/25 09:35

**VOLATILES BY GC/MS - Quality Control  
 (Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5121702 - Volatiles (Continued)**

**Blank (5121702-BLK1) (Continued)**

Prepared: 12/17/25 Analyzed: 12/18/25

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>	0.0527		mg/L	0.0500		105	82.4-125			
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 tert-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>	0.0543		mg/L	0.0500		109	82.5-115			
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							

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Reporting Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 12/26/25 09:35

**VOLATILES BY GC/MS - Quality Control  
 (Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5121702 - Volatiles (Continued)**

**LCS (5121702-BS1)**

Prepared: 12/17/25 Analyzed: 12/18/25

1,1,1,2-Tetrachloroethane	0.022	0.0005	mg/L	0.0200		108	83.1-120			
1,1,1-Trichloroethane	0.021	0.0005	mg/L	0.0200		103	50.3-160			
1,1,2,2-Tetrachloroethane	0.019	0.0005	mg/L	0.0200		93.0	48-136			
1,1,2-Trichloroethane	0.021	0.0005	mg/L	0.0200		104	73.8-123			
1,1-Dichloroethane	0.021	0.0005	mg/L	0.0200		105	72.8-131			
1,1-Dichloroethene	0.020	0.0005	mg/L	0.0200		102	77.6-137			
1,1-Dichloropropene	0.020	0.0005	mg/L	0.0200		101	54.5-156			
1,2,3-Trichlorobenzene	0.019	0.0005	mg/L	0.0200		95.5	66.2-149			
1,2,4-Trichlorobenzene	0.018	0.0005	mg/L	0.0200		89.8	63.3-150			
1,2,4-Trimethylbenzene	0.018	0.0005	mg/L	0.0200		90.8	79.1-124			
1,2-Dibromo-3-chloropropane	0.020	0.0005	mg/L	0.0200		98.7	34.9-149			
1,2-Dibromoethane	0.020	0.0005	mg/L	0.0200		100	78.5-122			
1,2-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		100	84.3-120			
1,2-Dichloroethane	0.017	0.0005	mg/L	0.0200		87.4	70.4-125			
1,2-Dichloropropane	0.019	0.0005	mg/L	0.0200		94.8	73.3-122			
1,3,5-Trimethylbenzene	0.020	0.0005	mg/L	0.0200		99.0	77.3-127			
1,3-Dichlorobenzene	0.021	0.0005	mg/L	0.0200		103	84.5-124			
1,3-Dichloropropane	0.020	0.0005	mg/L	0.0200		97.6	76-124			
1,4-Dichlorobenzene	0.019	0.0005	mg/L	0.0200		95.4	83.2-121			
1,4-Dioxane	0.386	0.020	mg/L	0.400		96.6	26-195			
1,2,3-trichloropropane	0.019	0.0005	mg/L	0.0200		96.7	56.5-127			
2,2-Dichloropropane	0.022	0.0005	mg/L	0.0200		111	69.4-132			
2-Butanone	0.037	0.002	mg/L	0.0400		91.3	40.9-157			
2-Chlorotoluene	0.019	0.0005	mg/L	0.0200		95.8	76.4-123			
2-Hexanone	0.032	0.001	mg/L	0.0400		80.6	15.4-157			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0515</i>		<i>mg/L</i>	<i>0.0500</i>		<i>103</i>	<i>79.1-111</i>			
4-Chlorotoluene	0.018	0.0005	mg/L	0.0200		91.8	78.7-126			
4-Methyl-2-pentanone	0.034	0.001	mg/L	0.0400		84.8	31.4-146			
Acetone	0.038	0.010	mg/L	0.0400		95.5	49.7-187			
Acrolein	0.538	0.005	mg/L	0.200		269	4.88-190			BS1
Acrylonitrile	0.040	0.002	mg/L	0.0400		99.2	52.6-154			
Benzene	0.019	0.0005	mg/L	0.0200		94.0	82.4-116			
Bromobenzene	0.020	0.0005	mg/L	0.0200		101	81.5-121			
Bromochloromethane	0.020	0.0005	mg/L	0.0200		101	67.4-139			
Bromodichloromethane	0.020	0.0005	mg/L	0.0200		98.9	76.5-119			
Bromoform	0.020	0.0005	mg/L	0.0200		101	64.6-130			
Bromomethane	0.020	0.0005	mg/L	0.0200		97.6	63.3-139			
Carbon disulfide	0.038	0.001	mg/L	0.0400		96.1	66.8-157			
Carbon tetrachloride	0.023	0.0005	mg/L	0.0200		113	73.9-135			

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Reporting Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 12/26/25 09:35

**VOLATILES BY GC/MS - Quality Control  
 (Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5121702 - Volatiles (Continued)**

**LCS (5121702-BS1) (Continued)**

Prepared: 12/17/25 Analyzed: 12/18/25

Chlorobenzene	0.020	0.0005	mg/L	0.0200		101	83.5-117			
Chloroethane	0.019	0.0005	mg/L	0.0200		92.8	67.1-139			
Chloroform	0.021	0.0005	mg/L	0.0200		103	72.8-130			
Chloromethane	0.019	0.0005	mg/L	0.0200		93.0	45.8-153			
cis-1,2-Dichloroethene	0.021	0.0005	mg/L	0.0200		107	75.7-128			
cis-1,3-Dichloropropene	0.020	0.0005	mg/L	0.0200		101	71.6-125			
Dibromochloromethane	0.021	0.0005	mg/L	0.0200		104	78.8-123			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0497</i>		mg/L	<i>0.0500</i>		<i>99.3</i>	<i>82.4-125</i>			
Dibromomethane	0.020	0.0005	mg/L	0.0200		98.5	77.8-119			
Dichlorodifluoromethane	0.017	0.0005	mg/L	0.0200		87.4	46.1-158			
Ethylbenzene	0.020	0.0005	mg/L	0.0200		101	77.9-123			
Hexachlorobutadiene	0.018	0.0005	mg/L	0.0200		92.1	55.5-185			
Iodomethane	0.043	0.001	mg/L	0.0400		107	74-137			
Isopropylbenzene	0.020	0.0005	mg/L	0.0200		97.6	77.6-125			
m+p - Xylene	0.040	0.001	mg/L	0.0400		98.8	76.6-128			
Methyl tert-butyl ether	0.042	0.001	mg/L	0.0400		104	73.6-131			
Methylene chloride	0.021	0.0005	mg/L	0.0200		105	75.1-138			
Naphthalene	0.017	0.0005	mg/L	0.0200		86.0	55.4-142			
n-Butylbenzene	0.018	0.0005	mg/L	0.0200		89.2	72.8-143			
n-Propylbenzene	0.019	0.0005	mg/L	0.0200		93.7	79.8-127			
o-Xylene	0.018	0.0005	mg/L	0.0200		91.4	72.3-124			
p-Isopropyltoluene	0.019	0.0005	mg/L	0.0200		94.5	72-135			
sec-Butylbenzene	0.019	0.0005	mg/L	0.0200		94.8	78.6-130			
Styrene	0.020	0.0005	mg/L	0.0200		101	78.9-119			
tert-Butylbenzene	0.019	0.0005	mg/L	0.0200		96.6	79.8-126			
Tetrachloroethene	0.022	0.0005	mg/L	0.0200		108	76.9-130			
Toluene	0.020	0.0005	mg/L	0.0200		102	76.3-120			
<i>Surrogate: Toluene-d8</i>	<i>0.0530</i>		mg/L	<i>0.0500</i>		<i>106</i>	<i>82.5-115</i>			
Total Xylenes	0.058	0.001	mg/L	0.0600		96.4	75.9-126			
trans-1,2-Dichloroethene	0.021	0.0005	mg/L	0.0200		105	78.3-134			
trans-1,3-Dichloropropene	0.020	0.0005	mg/L	0.0200		99.2	74.4-126			
trans-1,4-Dichloro-2-butene	0.035	0.010	mg/L	0.0400		86.8	7.48-201			
Trichloroethene	0.020	0.0005	mg/L	0.0200		99.4	77.5-118			
Trichlorofluoromethane	0.018	0.0005	mg/L	0.0200		90.3	63.7-149			
Vinyl acetate	0.019	0.0005	mg/L	0.0200		97.2	19.3-171			
Vinyl chloride	0.019	0.0005	mg/L	0.0200		93.0	64.9-141			

**LCS Dup (5121702-BSD1)**

Prepared: 12/17/25 Analyzed: 12/18/25

1,1,1,2-Tetrachloroethane	0.021	0.0005	mg/L	0.0200		105	83.1-120	2.54	6.88	
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Reporting Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 12/26/25 09:35

**VOLATILES BY GC/MS - Quality Control**  
**(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5121702 - Volatiles (Continued)**

**LCS Dup (5121702-BSD1) (Continued)**

Prepared: 12/17/25 Analyzed: 12/18/25

1,1,1-Trichloroethane	0.020	0.0005	mg/L	0.0200		101	50.3-160	2.55	7.43	
1,1,2,2-Tetrachloroethane	0.018	0.0005	mg/L	0.0200		91.8	48-136	1.30	8.68	
1,1,2-Trichloroethane	0.021	0.0005	mg/L	0.0200		103	73.8-123	0.434	6.82	
1,1-Dichloroethane	0.020	0.0005	mg/L	0.0200		102	72.8-131	3.25	4.3	
1,1-Dichloroethene	0.019	0.0005	mg/L	0.0200		97.1	77.6-137	4.43	16.5	
1,1-Dichloropropene	0.020	0.0005	mg/L	0.0200		99.8	54.5-156	1.34	5.47	
1,2,3-Trichlorobenzene	0.020	0.0005	mg/L	0.0200		99.2	66.2-149	3.80	43	
1,2,4-Trichlorobenzene	0.019	0.0005	mg/L	0.0200		93.6	63.3-150	4.14	22.3	
1,2,4-Trimethylbenzene	0.018	0.0005	mg/L	0.0200		89.2	79.1-124	1.78	8.94	
1,2-Dibromo-3-chloropropane	0.019	0.0005	mg/L	0.0200		95.7	34.9-149	3.14	15.1	
1,2-Dibromoethane	0.020	0.0005	mg/L	0.0200		98.5	78.5-122	2.01	5.83	
1,2-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		98.0	84.3-120	2.27	8.72	
1,2-Dichloroethane	0.018	0.0005	mg/L	0.0200		87.5	70.4-125	0.172	8.94	
1,2-Dichloropropane	0.018	0.0005	mg/L	0.0200		92.0	73.3-122	2.94	5.51	
1,3,5-Trimethylbenzene	0.019	0.0005	mg/L	0.0200		95.7	77.3-127	3.34	16.5	
1,3-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		100	84.5-124	2.61	9	
1,3-Dichloropropane	0.019	0.0005	mg/L	0.0200		96.4	76-124	1.19	6.06	
1,4-Dichlorobenzene	0.019	0.0005	mg/L	0.0200		94.6	83.2-121	0.790	7.71	
1,4-Dioxane	0.316	0.020	mg/L	0.400		78.9	26-195	20.1	35.2	
1,2,3-trichloropropane	0.019	0.0005	mg/L	0.0200		94.5	56.5-127	2.35	49.2	
2,2-Dichloropropane	0.021	0.0005	mg/L	0.0200		107	69.4-132	3.21	9.62	
2-Butanone	0.034	0.002	mg/L	0.0400		85.8	40.9-157	6.21	14.2	
2-Chlorotoluene	0.019	0.0005	mg/L	0.0200		97.2	76.4-123	1.40	8.62	
2-Hexanone	0.031	0.001	mg/L	0.0400		77.0	15.4-157	4.57	7.28	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0511</i>		mg/L	<i>0.0500</i>		<i>102</i>	<i>79.1-111</i>			
4-Chlorotoluene	0.017	0.0005	mg/L	0.0200		86.2	78.7-126	6.18	15.5	
4-Methyl-2-pentanone	0.033	0.001	mg/L	0.0400		83.4	31.4-146	1.66	7.57	
Acetone	0.031	0.010	mg/L	0.0400		78.1	49.7-187	20.0	30.5	
Acrolein	0.467	0.005	mg/L	0.200		233	4.88-190	14.1	22.4	BS1
Acrylonitrile	0.037	0.002	mg/L	0.0400		91.9	52.6-154	7.64	7.62	QR-04
Benzene	0.019	0.0005	mg/L	0.0200		93.6	82.4-116	0.426	4.16	
Bromobenzene	0.020	0.0005	mg/L	0.0200		101	81.5-121	0.0493	8.41	
Bromochloromethane	0.020	0.0005	mg/L	0.0200		97.7	67.4-139	3.07	5.16	
Bromodichloromethane	0.019	0.0005	mg/L	0.0200		96.4	76.5-119	2.56	5.36	
Bromoform	0.019	0.0005	mg/L	0.0200		96.4	64.6-130	4.46	14.1	
Bromomethane	0.020	0.0005	mg/L	0.0200		102	63.3-139	4.60	21.5	
Carbon disulfide	0.036	0.001	mg/L	0.0400		91.1	66.8-157	5.31	20.3	
Carbon tetrachloride	0.022	0.0005	mg/L	0.0200		112	73.9-135	0.621	11.4	
Chlorobenzene	0.020	0.0005	mg/L	0.0200		99.0	83.5-117	2.05	5.18	

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Reporting Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting  
 PO Box 1653  
 Durango CO, 81302

Project: VOC 8260  
 Project Name / Number: Mudge LS #006  
 Project Manager: Kyle Siesser

Reported:  
 12/26/25 09:35

**VOLATILES BY GC/MS - Quality Control  
 (Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5121702 - Volatiles (Continued)**

**LCS Dup (5121702-BSD1) (Continued)**

Prepared: 12/17/25 Analyzed: 12/18/25

Chloroethane	0.018	0.0005	mg/L	0.0200		91.9	67.1-139	0.975	24.1	
Chloroform	0.020	0.0005	mg/L	0.0200		102	72.8-130	1.03	5.15	
Chloromethane	0.019	0.0005	mg/L	0.0200		92.9	45.8-153	0.108	27	
cis-1,2-Dichloroethene	0.021	0.0005	mg/L	0.0200		104	75.7-128	3.17	5.73	
cis-1,3-Dichloropropene	0.020	0.0005	mg/L	0.0200		97.9	71.6-125	3.22	6.09	
Dibromochloromethane	0.020	0.0005	mg/L	0.0200		101	78.8-123	3.06	7.24	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0506</i>		mg/L	<i>0.0500</i>		<i>101</i>	<i>82.4-125</i>			
Dibromomethane	0.019	0.0005	mg/L	0.0200		97.2	77.8-119	1.28	5.75	
Dichlorodifluoromethane	0.018	0.0005	mg/L	0.0200		87.9	46.1-158	0.628	22.6	
Ethylbenzene	0.020	0.0005	mg/L	0.0200		98.8	77.9-123	2.60	4.83	
Hexachlorobutadiene	0.018	0.0005	mg/L	0.0200		92.3	55.5-185	0.217	18.4	
Iodomethane	0.041	0.001	mg/L	0.0400		102	74-137	4.96	24.3	
Isopropylbenzene	0.019	0.0005	mg/L	0.0200		95.0	77.6-125	2.75	6.25	
m+p - Xylene	0.039	0.001	mg/L	0.0400		96.4	76.6-128	2.46	5.77	
Methyl tert-butyl ether	0.040	0.001	mg/L	0.0400		100	73.6-131	3.79	12.8	
Methylene chloride	0.020	0.0005	mg/L	0.0200		102	75.1-138	2.81	19.7	
Naphthalene	0.018	0.0005	mg/L	0.0200		91.0	55.4-142	5.65	33.5	
n-Butylbenzene	0.018	0.0005	mg/L	0.0200		88.8	72.8-143	0.449	10.1	
n-Propylbenzene	0.018	0.0005	mg/L	0.0200		91.6	79.8-127	2.27	9.09	
o-Xylene	0.018	0.0005	mg/L	0.0200		90.0	72.3-124	1.54	6.29	
p-Isopropyltoluene	0.018	0.0005	mg/L	0.0200		92.5	72-135	2.09	9.26	
sec-Butylbenzene	0.018	0.0005	mg/L	0.0200		92.5	78.6-130	2.46	9.85	
Styrene	0.019	0.0005	mg/L	0.0200		97.4	78.9-119	3.48	7.55	
tert-Butylbenzene	0.019	0.0005	mg/L	0.0200		93.9	79.8-126	2.83	18.6	
Tetrachloroethene	0.021	0.0005	mg/L	0.0200		105	76.9-130	2.85	6.38	
Toluene	0.020	0.0005	mg/L	0.0200		99.2	76.3-120	2.93	5.67	
<i>Surrogate: Toluene-d8</i>	<i>0.0524</i>		mg/L	<i>0.0500</i>		<i>105</i>	<i>82.5-115</i>			
Total Xylenes	0.057	0.001	mg/L	0.0600		94.3	75.9-126	2.17	5.83	
trans-1,2-Dichloroethene	0.020	0.0005	mg/L	0.0200		99.6	78.3-134	4.85	19.1	
trans-1,3-Dichloropropene	0.020	0.0005	mg/L	0.0200		99.3	74.4-126	0.0504	6.26	
trans-1,4-Dichloro-2-butene	0.032	0.010	mg/L	0.0400		79.2	7.48-201	9.13	92.8	
Trichloroethene	0.020	0.0005	mg/L	0.0200		98.6	77.5-118	0.758	4.92	
Trichlorofluoromethane	0.018	0.0005	mg/L	0.0200		90.6	63.7-149	0.332	19.8	
Vinyl acetate	0.018	0.0005	mg/L	0.0200		90.2	19.3-171	7.36	7.84	
Vinyl chloride	0.018	0.0005	mg/L	0.0200		91.6	64.9-141	1.57	23	

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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.

Reporting Station For Jeremy D Allen, Laboratory Director



Cottonwood Consulting	Project: VOC 8260	
PO Box 1653	Project Name / Number: Mudge LS #006	<b>Reported:</b>
Durango CO, 81302	Project Manager: Kyle Siesser	12/26/25 09:35

**Notes and Definitions**

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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

Reporting Station For Jeremy D Allen, Laboratory Director

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Date/Initials of person examining contents: 12.11.25

Labeled by initials: \_\_\_\_\_  
(if different than above)

SAMPLE CONDITION RECEIPT FORM

Client Name: Cottonwood

Work Order # 2512-137

Courier:  Fed Ex  UPS  USPS  Client  Kangaroo  Third Party  Other

Custody Seals on Box/Cooler Present:  Yes  No Seals Intact:  Yes  No GAL Cooler #: \_\_\_\_\_

Thermometer Used: #12 Samples on ice, cooling process has begun:  Yes  No

Type of Ice:  Wet  Blue  None Cooler Temp: Observed Temp: 14.4 °C Correction Factor: 0 °C Final Temp: 14.4 °C

Temp: \_\_\_\_\_ °C \*Temp should be above freezing 6°C, if multiple readings are taken the lowest temp is the final temp recorded.  
Temp: \_\_\_\_\_ °C  
Temp: \_\_\_\_\_ °C

Compliance:  Yes  No

Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
COC Signed when Relinquished and Received:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and Signature on COC: *Required for compliance	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Samples arrived within hold time: (Excluding pH)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Correct Containers Used & Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr): (Excluding pH)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
pH's acceptable upon receipt, where applicable: *Not including metals bottles	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9.
Dissolved Testing Needed: Field Filtered: <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10.
Sample Labels match COC: -Includes Date/Time/ID Matrix: <input checked="" type="checkbox"/> WT <input type="checkbox"/> SL <input type="checkbox"/> OT	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11.
Trip Blank Present: Trip Blank Custody Seals Present: VOA's meet headspace requirement (<6mm bubbles)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Non-Conformance(s):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	13.

Client Notification/Resolution:

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 550390

**CONDITIONS**

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 550390
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

**CONDITIONS**

Created By	Condition	Condition Date
amaxwell	Report accepted for record.	3/18/2026