

REVIEWED

By Mike Buchanan at 3:13 pm, Sep 12, 2023

Review of the 2022
Annual Report for the
Gallegos Canyon Unit
153E: **Content**

Satisfactory

1. Continue to conduct
groundwater monitoring
as prescribed by
NMOCD.

2. Submit the 2023
Annual Report no later
than April 1, 2024.

Gallegos Canyon Unit 153 E
nAUTOofAB000208
30-045-24292
2022 Annual Report

COTTONWOOD CONSULTING LLC

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : SIMCOE LLC

CHAIN-OF-CUSTODY # :

N/A

GCU # 153E

UNIT C, SEC. 28, T29N, R12W

LABORATORY (S) USED :

GAL

Date :

3/17/22

DEVELOPER / SAMPLER :

K. Siesser
E. Millar/J. Harter

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
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2A	100.40	89.09	11.31	15.83	-	-	-	-	-
3R	100.80	89.64	11.16	20.00	1000	8.10	8700	11.2	4.33 ⁱⁿ 2.00
7A	99.72	87.94	11.78	16.31	-	-	-	-	-

INSTRUMENT CALIBRATIONS =

4.01/7.00/10.00	1,413
DATE & TIME =	3/15/22 0900

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

Ideally a minimum of three (3) wellbore volumes:

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

Comments or note well diameter if not standard 2".

Sample from MW #3R, water clear, sl HCl odor. Bailed well dry @ 2 gal.

Top of casing MW #2A ~ 1.50 ft., MW #3R ~ 2.50 ft., MW #7A ~ 2.00 ft. above grade.

on-site	<u>0930</u>	temp	<u>~40°F</u>
off-site	<u>1030</u>	temp	<u>~40°F</u>
sky cond.	<u>clear</u>		
wind speed	<u>5-15</u>	direct.	<u>S</u>



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29 March 2022

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

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

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

Sincerely,

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

Debbie Zufelt
Reports Manager

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

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

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



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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
03/29/22 11:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #3R	2203173-01	Water	03/17/22 10:00	03/17/22 15:00	

Green Analytical Laboratories

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

Debbie Zufelt, Reports Manager

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Page 2 of 13 2203173 GAL FINAL 03 29 22 1145 03/29/22 11:45:21



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PO Box 1653
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Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
03/29/22 11:45

MW #3R

2203173-01 (Ground Water)

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

Dichlorodifluoromethane*	<0.0005	0.0005	0.00009	mg/L	1	03/28/22 15:14	8260B		MS
Chloromethane*	<0.0005	0.0005	0.00006	mg/L	1	03/28/22 15:14	8260B		MS
Vinyl chloride*	<0.0005	0.0005	0.00005	mg/L	1	03/28/22 15:14	8260B		MS
Bromomethane*	<0.0005	0.0005	0.00005	mg/L	1	03/28/22 15:14	8260B		MS
Chloroethane*	<0.0005	0.0005	0.0001	mg/L	1	03/28/22 15:14	8260B		MS
Trichlorofluoromethane*	<0.0005	0.0005	0.00003	mg/L	1	03/28/22 15:14	8260B		MS
1,1-Dichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	03/28/22 15:14	8260B		MS
Carbon disulfide*	<0.001	0.001	0.0003	mg/L	1	03/28/22 15:14	8260B		MS
Iodomethane	<0.001	0.001	0.0001	mg/L	1	03/28/22 15:14	8260B		MS
Acrolein*	<0.005	0.005	0.0007	mg/L	1	03/28/22 15:14	8260B		MS
Methylene chloride*	<0.0005	0.0005	0.0003	mg/L	1	03/28/22 15:14	8260B		MS
Acetone*	<0.010	0.010	0.006	mg/L	1	03/28/22 15:14	8260B		MS
trans-1,2-Dichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	03/28/22 15:14	8260B		MS
Methyl t-Butyl Ether*	<0.001	0.001	0.0003	mg/L	1	03/28/22 15:14	8260B		MS
1,1-Dichloroethane*	<0.0005	0.0005	0.00008	mg/L	1	03/28/22 15:14	8260B		MS
Acrylonitrile*	<0.002	0.002	0.002	mg/L	1	03/28/22 15:14	8260B		MS
Vinyl acetate*	<0.0005	0.0005	0.0004	mg/L	1	03/28/22 15:14	8260B		MS
cis-1,2-Dichloroethene*	<0.0005	0.0005	0.0001	mg/L	1	03/28/22 15:14	8260B		MS
2,2-Dichloropropane*	<0.0005	0.0005	0.0003	mg/L	1	03/28/22 15:14	8260B		MS
Bromochloromethane*	<0.0005	0.0005	0.00007	mg/L	1	03/28/22 15:14	8260B		MS
Chloroform*	<0.0005	0.0005	0.00005	mg/L	1	03/28/22 15:14	8260B		MS
Carbon tetrachloride*	<0.0005	0.0005	0.0001	mg/L	1	03/28/22 15:14	8260B		MS
1,1,1-Trichloroethane*	<0.0005	0.0005	0.0001	mg/L	1	03/28/22 15:14	8260B		MS
1,1-Dichloropropene*	<0.0005	0.0005	0.00007	mg/L	1	03/28/22 15:14	8260B		MS
2-Butanone*	<0.002	0.002	0.002	mg/L	1	03/28/22 15:14	8260B		MS
Benzene*	<0.0005	0.0005	0.00009	mg/L	1	03/28/22 15:14	8260B		MS
1,2-Dichloroethane*	<0.0005	0.0005	0.0001	mg/L	1	03/28/22 15:14	8260B		MS
Trichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	03/28/22 15:14	8260B		MS
Dibromomethane*	<0.0005	0.0005	0.0002	mg/L	1	03/28/22 15:14	8260B		MS
1,2-Dichloropropane*	<0.0005	0.0005	0.0001	mg/L	1	03/28/22 15:14	8260B		MS
Bromodichloromethane*	<0.0005	0.0005	0.00007	mg/L	1	03/28/22 15:14	8260B		MS
cis-1,3-Dichloropropene*	<0.0005	0.0005	0.00006	mg/L	1	03/28/22 15:14	8260B		MS

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Debbie Zufelt, Reports Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
03/29/22 11:45

MW #3R

2203173-01 (Ground Water)

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

Toluene*	<0.0005	0.0005	0.00007	mg/L	1	03/28/22 15:14	8260B		MS
4-Methyl-2-pentanone*	<0.001	0.001	0.0001	mg/L	1	03/28/22 15:14	8260B		MS
Tetrachloroethene*	<0.0005	0.0005	0.0001	mg/L	1	03/28/22 15:14	8260B		MS
trans-1,3-Dichloropropene*	<0.0005	0.0005	0.00008	mg/L	1	03/28/22 15:14	8260B		MS
1,1,2-Trichloroethane*	<0.0005	0.0005	0.00006	mg/L	1	03/28/22 15:14	8260B		MS
Dibromochloromethane*	<0.0005	0.0005	0.00006	mg/L	1	03/28/22 15:14	8260B		MS
1,3-Dichloropropane*	<0.0005	0.0005	0.00001	mg/L	1	03/28/22 15:14	8260B		MS
1,2-Dibromoethane*	<0.0005	0.0005	0.0001	mg/L	1	03/28/22 15:14	8260B		MS
2-Hexanone*	<0.001	0.001	0.0001	mg/L	1	03/28/22 15:14	8260B		MS
Chlorobenzene*	<0.0005	0.0005	0.00002	mg/L	1	03/28/22 15:14	8260B		MS
Ethylbenzene*	<0.0005	0.0005	0.00009	mg/L	1	03/28/22 15:14	8260B		MS
1,1,1,2-Tetrachloroethane*	<0.0005	0.0005	0.00006	mg/L	1	03/28/22 15:14	8260B		MS
m+p - Xylene*	<0.001	0.001	0.0005	mg/L	1	03/28/22 15:14	8260B		MS
o-Xylene*	0.0007	0.0005	0.00007	mg/L	1	03/28/22 15:14	8260B		MS
Total Xylenes*	<0.001	0.001	0.0005	mg/L	1	03/28/22 15:14	8260B		MS
Bromoform*	<0.0005	0.0005	0.00006	mg/L	1	03/28/22 15:14	8260B		MS
Styrene*	<0.0005	0.0005	0.00002	mg/L	1	03/28/22 15:14	8260B		MS
Isopropylbenzene*	<0.0005	0.0005	0.00002	mg/L	1	03/28/22 15:14	8260B		MS
Bromobenzene*	<0.0005	0.0005	0.00003	mg/L	1	03/28/22 15:14	8260B		MS
n-Propylbenzene*	<0.0005	0.0005	0.00001	mg/L	1	03/28/22 15:14	8260B		MS
1,1,2,2-Tetrachloroethane*	<0.0005	0.0005	0.00006	mg/L	1	03/28/22 15:14	8260B		MS
2-Chlorotoluene*	<0.0005	0.0005	0.00004	mg/L	1	03/28/22 15:14	8260B		MS
1,2,3-trichloropropane*	<0.0005	0.0005	0.00005	mg/L	1	03/28/22 15:14	8260B		MS
1,3,5-Trimethylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	03/28/22 15:14	8260B		MS
trans-1,4-Dichloro-2-butene	<0.010	0.010	0.006	mg/L	1	03/28/22 15:14	8260B		MS
4-Chlorotoluene*	<0.0005	0.0005	0.00003	mg/L	1	03/28/22 15:14	8260B		MS
tert-Butylbenzene*	<0.0005	0.0005	0.00006	mg/L	1	03/28/22 15:14	8260B		MS
1,2,4-Trimethylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	03/28/22 15:14	8260B		MS
sec-Butylbenzene*	<0.0005	0.0005	0.00002	mg/L	1	03/28/22 15:14	8260B		MS
p-Isopropyltoluene*	<0.0005	0.0005	0.00003	mg/L	1	03/28/22 15:14	8260B		MS
1,3-Dichlorobenzene*	<0.0005	0.0005	0.00004	mg/L	1	03/28/22 15:14	8260B		MS
1,4 Dichlorobenzene*	<0.0005	0.0005	0.00004	mg/L	1	03/28/22 15:14	8260B		MS

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Debbie Zufelt, Reports Manager

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Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
03/29/22 11:45

MW #3R

2203173-01 (Ground Water)

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

n-Butylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	03/28/22 15:14	8260B		MS
1,2-Dichlorobenzene*	<0.0005	0.0005	0.00006	mg/L	1	03/28/22 15:14	8260B		MS
1,2-Dibromo-3-chloropropane*	<0.0005	0.0005	0.0002	mg/L	1	03/28/22 15:14	8260B		MS
Hexachlorobutadiene*	<0.0005	0.0005	0.0001	mg/L	1	03/28/22 15:14	8260B		MS
1,2,4-Trichlorobenzene*	<0.0005	0.0005	0.00009	mg/L	1	03/28/22 15:14	8260B		MS
Naphthalene*	<0.0005	0.0005	0.00004	mg/L	1	03/28/22 15:14	8260B		MS
1,2,3-Trichlorobenzene*	<0.0005	0.0005	0.0001	mg/L	1	03/28/22 15:14	8260B		MS
1,4-Dioxane	<0.100	0.100	0.029	mg/L	1	03/28/22 15:14	8260B		MS
Surrogate: Dibromofluoromethane			102 %	82.4-141		03/28/22 15:14	8260B		MS
Surrogate: Toluene-d8			101 %	87.1-110		03/28/22 15:14	8260B		MS
Surrogate: 4-Bromofluorobenzene			94.5 %	76.4-114		03/28/22 15:14	8260B		MS

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Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
03/29/22 11:45

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 2032430 - Volatiles

Blank (2032430-BLK1)

Prepared: 03/24/22 Analyzed: 03/25/22

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

Surrogate: 4-Bromofluorobenzene	0.0220		mg/L	0.0250	88.2	76.4-114
4-Chlorotoluene	ND	0.0005	mg/L			
4-Methyl-2-pentanone	ND	0.001	mg/L			
Acetone	ND	0.010	mg/L			
Acrolein	ND	0.005	mg/L			
Acrylonitrile	ND	0.002	mg/L			
Benzene	ND	0.0005	mg/L			
Bromobenzene	ND	0.0005	mg/L			
Bromochloromethane	ND	0.0005	mg/L			
Bromodichloromethane	ND	0.0005	mg/L			
Bromoform	ND	0.0005	mg/L			

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Debbie Zufelt, Reports Manager

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Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
03/29/22 11:45

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 2032430 - Volatiles (Continued)

Blank (2032430-BLK1) (Continued)

Prepared: 03/24/22 Analyzed: 03/25/22

Bromomethane	ND	0.0005	mg/L							
Carbon disulfide	ND	0.001	mg/L							
Carbon tetrachloride	ND	0.0005	mg/L							
Chlorobenzene	ND	0.0005	mg/L							
Chloroethane	ND	0.0005	mg/L							
Chloroform	ND	0.0005	mg/L							
Chloromethane	ND	0.0005	mg/L							
cis-1,2-Dichloroethene	ND	0.0005	mg/L							
cis-1,3-Dichloropropene	ND	0.0005	mg/L							
Dibromochloromethane	ND	0.0005	mg/L							
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0250</i>		mg/L	<i>0.0250</i>		<i>100</i>	<i>82.4-141</i>			
Dibromomethane	ND	0.0005	mg/L							
Dichlorodifluoromethane	ND	0.0005	mg/L							
Ethylbenzene	ND	0.0005	mg/L							
Hexachlorobutadiene	ND	0.0005	mg/L							
Iodomethane	ND	0.001	mg/L							
Isopropylbenzene	ND	0.0005	mg/L							
m+p - Xylene	ND	0.001	mg/L							
Methyl t-Butyl Ether	ND	0.001	mg/L							
Methylene chloride	ND	0.0005	mg/L							
Naphthalene	ND	0.0005	mg/L							
n-Butylbenzene	ND	0.0005	mg/L							
n-Propylbenzene	ND	0.0005	mg/L							
o-Xylene	ND	0.0005	mg/L							
p-Isopropyltoluene	ND	0.0005	mg/L							
sec-Butylbenzene	ND	0.0005	mg/L							
Styrene	ND	0.0005	mg/L							
tert-Butylbenzene	ND	0.0005	mg/L							
Tetrachloroethene	ND	0.0005	mg/L							
Toluene	ND	0.0005	mg/L							
<i>Surrogate: Toluene-d8</i>	<i>0.0256</i>		mg/L	<i>0.0250</i>		<i>103</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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Debbie Zufelt, Reports Manager

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Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
03/29/22 11:45

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 2032430 - Volatiles (Continued)

LCS (2032430-BS1)

Prepared: 03/24/22 Analyzed: 03/25/22

1,1,1,2-Tetrachloroethane	0.022	0.0005	mg/L	0.0200		108	77.2-132			
1,1,1-Trichloroethane	0.020	0.0005	mg/L	0.0200		98.8	84.9-121			
1,1,2,2-Tetrachloroethane	0.021	0.0005	mg/L	0.0200		103	83-118			
1,1,2-Trichloroethane	0.020	0.0005	mg/L	0.0200		101	85.8-121			
1,1-Dichloroethane	0.021	0.0005	mg/L	0.0200		105	82.3-134			
1,1-Dichloroethene	0.020	0.0005	mg/L	0.0200		101	69.4-135			
1,1-Dichloropropene	0.021	0.0005	mg/L	0.0200		103	79-126			
1,2,3-Trichlorobenzene	0.021	0.0005	mg/L	0.0200		104	66-144			
1,2,4-Trichlorobenzene	0.021	0.0005	mg/L	0.0200		104	66-139			
1,2,4-Trimethylbenzene	0.023	0.0005	mg/L	0.0200		115	85.2-120			
1,2-Dibromo-3-chloropropane	0.020	0.0005	mg/L	0.0200		98.3	85.9-113			
1,2-Dibromoethane	0.021	0.0005	mg/L	0.0200		107	84.9-118			
1,2-Dichlorobenzene	0.021	0.0005	mg/L	0.0200		107	85.1-112			
1,2-Dichloroethane	0.019	0.0005	mg/L	0.0200		93.8	80.8-125			
1,2-Dichloropropane	0.020	0.0005	mg/L	0.0200		98.8	83.2-124			
1,3,5-Trimethylbenzene	0.022	0.0005	mg/L	0.0200		112	84.3-120			
1,3-Dichlorobenzene	0.021	0.0005	mg/L	0.0200		106	84.9-110			
1,3-Dichloropropane	0.021	0.0005	mg/L	0.0200		103	88.8-117			
1,4 Dichlorobenzene	0.020	0.0005	mg/L	0.0200		100	80.9-112			
1,4-Dioxane	0.375	0.100	mg/L	0.400		93.8	-99.5-195			
1,2,3-trichloropropane	0.022	0.0005	mg/L	0.0200		112	6.02-213			
2,2-Dichloropropane	0.020	0.0005	mg/L	0.0200		98.4	59.7-146			
2-Butanone	0.037	0.002	mg/L	0.0400		92.5	69.2-152			
2-Chlorotoluene	0.021	0.0005	mg/L	0.0200		106	84.7-117			
2-Hexanone	0.043	0.001	mg/L	0.0400		107	66-142			
Surrogate: 4-Bromofluorobenzene	0.0237		mg/L	0.0250		94.8	76.4-114			
4-Chlorotoluene	0.021	0.0005	mg/L	0.0200		107	81.8-122			
4-Methyl-2-pentanone	0.044	0.001	mg/L	0.0400		109	75.9-139			
Acetone	0.036	0.010	mg/L	0.0400		89.0	47.7-194			
Acrolein	0.165	0.005	mg/L	0.200		82.7	46.2-182			
Acrylonitrile	0.045	0.002	mg/L	0.0400		114	69.5-152			
Benzene	0.020	0.0005	mg/L	0.0200		102	85.9-114			
Bromobenzene	0.021	0.0005	mg/L	0.0200		103	85.7-113			
Bromochloromethane	0.019	0.0005	mg/L	0.0200		96.1	74.2-140			
Bromodichloromethane	0.020	0.0005	mg/L	0.0200		101	82-126			
Bromoform	0.025	0.0005	mg/L	0.0200		125	80.3-140			
Bromomethane	0.021	0.0005	mg/L	0.0200		103	69.3-136			
Carbon disulfide	0.044	0.001	mg/L	0.0400		109	74.2-141			
Carbon tetrachloride	0.020	0.0005	mg/L	0.0200		99.8	85.8-125			

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Debbie Zufelt, Reports Manager

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Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
03/29/22 11:45

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 2032430 - Volatiles (Continued)

LCS (2032430-BS1) (Continued)

Prepared: 03/24/22 Analyzed: 03/25/22

Chlorobenzene	0.020	0.0005	mg/L	0.0200		102	88.8-112			
Chloroethane	0.020	0.0005	mg/L	0.0200		102	73.8-135			
Chloroform	0.020	0.0005	mg/L	0.0200		100	88.1-124			
Chloromethane	0.024	0.0005	mg/L	0.0200		121	59.9-154			
cis-1,2-Dichloroethene	0.021	0.0005	mg/L	0.0200		104	85.8-117			
cis-1,3-Dichloropropene	0.022	0.0005	mg/L	0.0200		109	84.6-125			
Dibromochloromethane	0.023	0.0005	mg/L	0.0200		116	88.2-121			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0251</i>		mg/L	<i>0.0250</i>		<i>100</i>	<i>82.4-141</i>			
Dibromomethane	0.019	0.0005	mg/L	0.0200		95.7	73.5-132			
Dichlorodifluoromethane	0.019	0.0005	mg/L	0.0200		97.4	63.3-132			
Ethylbenzene	0.022	0.0005	mg/L	0.0200		111	81.8-127			
Hexachlorobutadiene	0.023	0.0005	mg/L	0.0200		116	52.9-152			
Iodomethane	0.045	0.001	mg/L	0.0400		113	72.5-133			
Isopropylbenzene	0.021	0.0005	mg/L	0.0200		104	75.7-136			
m+p - Xylene	0.043	0.001	mg/L	0.0400		109	72.4-134			
Methyl t-Butyl Ether	0.043	0.001	mg/L	0.0400		108	75.3-137			
Methylene chloride	0.023	0.0005	mg/L	0.0200		116	74.8-131			
Naphthalene	0.022	0.0005	mg/L	0.0200		109	59.3-140			
n-Butylbenzene	0.022	0.0005	mg/L	0.0200		112	70.1-136			
n-Propylbenzene	0.022	0.0005	mg/L	0.0200		109	83-121			
o-Xylene	0.022	0.0005	mg/L	0.0200		108	76.2-135			
p-Isopropyltoluene	0.023	0.0005	mg/L	0.0200		113	81.8-124			
sec-Butylbenzene	0.023	0.0005	mg/L	0.0200		117	78.4-128			
Styrene	0.021	0.0005	mg/L	0.0200		104	75.7-128			
tert-Butylbenzene	0.022	0.0005	mg/L	0.0200		111	90.8-119			
Tetrachloroethene	0.021	0.0005	mg/L	0.0200		105	66.8-126			
Toluene	0.021	0.0005	mg/L	0.0200		103	78.8-121			
<i>Surrogate: Toluene-d8</i>	<i>0.0254</i>		mg/L	<i>0.0250</i>		<i>101</i>	<i>87.1-110</i>			
Total Xylenes	0.065	0.001	mg/L	0.0600		109	74.3-134			
trans-1,2-Dichloroethene	0.023	0.0005	mg/L	0.0200		116	80.4-125			
trans-1,3-Dichloropropene	0.022	0.0005	mg/L	0.0200		110	84-128			
trans-1,4-Dichloro-2-butene	0.057	0.010	mg/L	0.0400		141	18.7-238			
Trichloroethene	0.019	0.0005	mg/L	0.0200		94.2	73.1-117			
Trichlorofluoromethane	0.021	0.0005	mg/L	0.0200		107	71.9-138			
Vinyl acetate	0.021	0.0005	mg/L	0.0200		103	39.5-167			
Vinyl chloride	0.023	0.0005	mg/L	0.0200		116	73.4-137			

LCS Dup (2032430-BSD1)

Prepared: 03/24/22 Analyzed: 03/25/22

1,1,1,2-Tetrachloroethane	0.021	0.0005	mg/L	0.0200		107	77.2-132	0.186	6.88	
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Debbie Zufelt, Reports Manager

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PO Box 1653
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Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
03/29/22 11:45

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 2032430 - Volatiles (Continued)

LCS Dup (2032430-BSD1) (Continued)

Prepared: 03/24/22 Analyzed: 03/25/22

1,1,1-Trichloroethane	0.021	0.0005	mg/L	0.0200		104	84.9-121	4.93	7.43	
1,1,2,2-Tetrachloroethane	0.021	0.0005	mg/L	0.0200		103	83-118	0.0972	8.68	
1,1,2-Trichloroethane	0.021	0.0005	mg/L	0.0200		107	85.8-121	5.87	6.82	
1,1-Dichloroethane	0.021	0.0005	mg/L	0.0200		107	82.3-134	1.27	4.3	
1,1-Dichloroethene	0.022	0.0005	mg/L	0.0200		110	69.4-135	8.55	16.5	
1,1-Dichloropropene	0.020	0.0005	mg/L	0.0200		102	79-126	0.244	5.47	
1,2,3-Trichlorobenzene	0.020	0.0005	mg/L	0.0200		101	66-144	2.15	43	
1,2,4-Trichlorobenzene	0.021	0.0005	mg/L	0.0200		104	66-139	0.576	22.3	
1,2,4-Trimethylbenzene	0.022	0.0005	mg/L	0.0200		111	85.2-120	3.36	8.94	
1,2-Dibromo-3-chloropropane	0.019	0.0005	mg/L	0.0200		97.2	85.9-113	1.07	15.1	
1,2-Dibromoethane	0.021	0.0005	mg/L	0.0200		103	84.9-118	3.53	5.83	
1,2-Dichlorobenzene	0.021	0.0005	mg/L	0.0200		103	85.1-112	3.44	8.72	
1,2-Dichloroethane	0.019	0.0005	mg/L	0.0200		94.0	80.8-125	0.266	8.94	
1,2-Dichloropropane	0.020	0.0005	mg/L	0.0200		99.0	83.2-124	0.152	5.51	
1,3,5-Trimethylbenzene	0.022	0.0005	mg/L	0.0200		111	84.3-120	1.25	16.5	
1,3-Dichlorobenzene	0.021	0.0005	mg/L	0.0200		106	84.9-110	0.613	9	
1,3-Dichloropropane	0.021	0.0005	mg/L	0.0200		104	88.8-117	1.35	6.06	
1,4 Dichlorobenzene	0.020	0.0005	mg/L	0.0200		99.4	80.9-112	1.05	7.71	
1,4-Dioxane	0.414	0.100	mg/L	0.400		103	-99.5-195	9.79	35.2	
1,2,3-trichloropropane	0.022	0.0005	mg/L	0.0200		108	6.02-213	3.41	49.2	
2,2-Dichloropropane	0.019	0.0005	mg/L	0.0200		97.4	59.7-146	0.970	9.62	
2-Butanone	0.038	0.002	mg/L	0.0400		96.0	69.2-152	3.74	14.2	
2-Chlorotoluene	0.021	0.0005	mg/L	0.0200		104	84.7-117	1.86	8.62	
2-Hexanone	0.042	0.001	mg/L	0.0400		104	66-142	2.18	7.28	
Surrogate: 4-Bromofluorobenzene	0.0236		mg/L	0.0250		94.6	76.4-114			
4-Chlorotoluene	0.021	0.0005	mg/L	0.0200		107	81.8-122	0.607	15.5	
4-Methyl-2-pentanone	0.044	0.001	mg/L	0.0400		110	75.9-139	0.274	7.57	
Acetone	0.040	0.010	mg/L	0.0400		99.1	47.7-194	10.7	30.5	
Acrolein	0.174	0.005	mg/L	0.200		87.2	46.2-182	5.26	22.4	
Acrylonitrile	0.047	0.002	mg/L	0.0400		118	69.5-152	3.35	7.62	
Benzene	0.020	0.0005	mg/L	0.0200		102	85.9-114	0.147	4.16	
Bromobenzene	0.020	0.0005	mg/L	0.0200		99.3	85.7-113	3.75	8.41	
Bromochloromethane	0.020	0.0005	mg/L	0.0200		99.2	74.2-140	3.17	5.16	
Bromodichloromethane	0.020	0.0005	mg/L	0.0200		100	82-126	0.697	5.36	
Bromoform	0.025	0.0005	mg/L	0.0200		125	80.3-140	0.00	14.1	
Bromomethane	0.020	0.0005	mg/L	0.0200		101	69.3-136	1.96	21.5	
Carbon disulfide	0.043	0.001	mg/L	0.0400		107	74.2-141	1.67	20.3	
Carbon tetrachloride	0.020	0.0005	mg/L	0.0200		98.6	85.8-125	1.21	11.4	
Chlorobenzene	0.020	0.0005	mg/L	0.0200		99.8	88.8-112	2.47	5.18	

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Debbie Zufelt, Reports Manager

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Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
03/29/22 11:45

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 2032430 - Volatiles (Continued)

LCS Dup (2032430-BSD1) (Continued)

Prepared: 03/24/22 Analyzed: 03/25/22

Chloroethane	0.019	0.0005	mg/L	0.0200		93.1	73.8-135	9.07	24.1	
Chloroform	0.020	0.0005	mg/L	0.0200		101	88.1-124	0.992	5.15	
Chloromethane	0.024	0.0005	mg/L	0.0200		122	59.9-154	0.738	27	
cis-1,2-Dichloroethene	0.021	0.0005	mg/L	0.0200		106	85.8-117	1.38	5.73	
cis-1,3-Dichloropropene	0.022	0.0005	mg/L	0.0200		109	84.6-125	0.183	6.09	
Dibromochloromethane	0.023	0.0005	mg/L	0.0200		114	88.2-121	2.18	7.24	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0254</i>		mg/L	<i>0.0250</i>		<i>101</i>	<i>82.4-141</i>			
Dibromomethane	0.020	0.0005	mg/L	0.0200		98.1	73.5-132	2.48	5.75	
Dichlorodifluoromethane	0.020	0.0005	mg/L	0.0200		101	63.3-132	3.23	22.6	
Ethylbenzene	0.022	0.0005	mg/L	0.0200		108	81.8-127	2.66	4.83	
Hexachlorobutadiene	0.023	0.0005	mg/L	0.0200		113	52.9-152	2.01	18.4	
Iodomethane	0.044	0.001	mg/L	0.0400		111	72.5-133	1.87	24.3	
Isopropylbenzene	0.021	0.0005	mg/L	0.0200		103	75.7-136	1.40	6.25	
m+p - Xylene	0.043	0.001	mg/L	0.0400		108	72.4-134	0.392	5.77	
Methyl t-Butyl Ether	0.044	0.001	mg/L	0.0400		111	75.3-137	2.53	12.8	
Methylene chloride	0.024	0.0005	mg/L	0.0200		120	74.8-131	3.01	19.7	
Naphthalene	0.021	0.0005	mg/L	0.0200		106	59.3-140	2.28	33.5	
n-Butylbenzene	0.021	0.0005	mg/L	0.0200		107	70.1-136	4.85	10.1	
n-Propylbenzene	0.022	0.0005	mg/L	0.0200		109	83-121	0.138	9.09	
o-Xylene	0.021	0.0005	mg/L	0.0200		107	76.2-135	1.21	6.29	
p-Isopropyltoluene	0.022	0.0005	mg/L	0.0200		112	81.8-124	0.930	9.26	
sec-Butylbenzene	0.023	0.0005	mg/L	0.0200		115	78.4-128	2.24	9.85	
Styrene	0.020	0.0005	mg/L	0.0200		102	75.7-128	2.47	7.55	
tert-Butylbenzene	0.023	0.0005	mg/L	0.0200		113	90.8-119	2.19	18.6	
Tetrachloroethene	0.021	0.0005	mg/L	0.0200		104	66.8-126	0.623	6.38	
Toluene	0.020	0.0005	mg/L	0.0200		102	78.8-121	1.32	5.67	
<i>Surrogate: Toluene-d8</i>	<i>0.0254</i>		mg/L	<i>0.0250</i>		<i>102</i>	<i>87.1-110</i>			
Total Xylenes	0.065	0.001	mg/L	0.0600		108	74.3-134	0.662	5.83	
trans-1,2-Dichloroethene	0.023	0.0005	mg/L	0.0200		116	80.4-125	0.604	19.1	
trans-1,3-Dichloropropene	0.022	0.0005	mg/L	0.0200		108	84-128	1.15	6.26	
trans-1,4-Dichloro-2-butene	0.045	0.010	mg/L	0.0400		113	18.7-238	21.9	92.8	
Trichloroethene	0.019	0.0005	mg/L	0.0200		95.0	73.1-117	0.899	4.92	
Trichlorofluoromethane	0.020	0.0005	mg/L	0.0200		102	71.9-138	4.51	19.8	
Vinyl acetate	0.020	0.0005	mg/L	0.0200		101	39.5-167	2.05	7.84	
Vinyl chloride	0.024	0.0005	mg/L	0.0200		118	73.4-137	1.58	23	

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Debbie Zufelt, Reports Manager

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PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
03/29/22 11:45

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.
RPD Relative Percent Difference
LCS Laboratory Control Sample (Blank Spike)
RL Report Limit
MDL Method Detection Limit

Green Analytical Laboratories

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

Debbie Zufelt, Reports Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

COTTONWOOD CONSULTING LLC

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : SIMCOE LLC

GCU #153E
Unit C Sec 28 T29N R12W

LABORATORY (S) USED :

GAL

Date :

6/9/22

DEVELOPER / SAMPLER :

EM

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
2A	100.40	—	11.37	15.83	—	—	—	—	—
3R	100.80	—	11.93	20.00	1130	8.50 ^{7.67}	8500	19.8	3.95
7A	99.72	—	11.32	16.31	—	—	—	—	—

2gal

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

Ideally a minimum of three (3) wellbore volumes:

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

Comments or note well diameter if not standard 2".

Sample MW #3R. Slow recharge in MW #3R. Only able to purge ~2gal.SVE on site not operational

Top of casing MW #2A ~ 1.50 ft., MW #3R ~ 2.50 ft., MW #7A ~ 2.00 ft

on-site	<u>1050</u>	temp	<u>~90°F</u>
off-site	<u>1140</u>	temp	<u>~90°F</u>
sky cond.	<u>clear</u>		
Wind speed	<u>—</u>	direct.	<u>—</u>



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21 June 2022

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

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

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

Sincerely,

A handwritten signature in blue ink that reads 'Brenna Kampf'. The signature is fluid and cursive, with the first and last names being more prominent.

Brenna Kampf
Project Manager

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

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

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



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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
06/21/22 15:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #3R	2206124-01	Water	06/09/22 11:30	06/09/22 16:45	

Green Analytical Laboratories

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

Brenna Kampf, Project Manager

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Page 2 of 13 2206124 GAL FINAL 06 21 22 1533 06/21/22 15:34:02



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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
06/21/22 15:33

MW #3R

2206124-01 (Ground Water)

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

Dichlorodifluoromethane*	<0.0005	0.0005	0.00009	mg/L	1	06/17/22 18:21	8260B		MS
Chloromethane*	<0.0005	0.0005	0.00006	mg/L	1	06/17/22 18:21	8260B		MS
Vinyl chloride*	<0.0005	0.0005	0.00005	mg/L	1	06/17/22 18:21	8260B		MS
Bromomethane*	<0.0005	0.0005	0.00005	mg/L	1	06/17/22 18:21	8260B		MS
Chloroethane*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:21	8260B		MS
Trichlorofluoromethane*	<0.0005	0.0005	0.00003	mg/L	1	06/17/22 18:21	8260B		MS
1,1-Dichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	06/17/22 18:21	8260B		MS
Carbon disulfide*	<0.001	0.001	0.0003	mg/L	1	06/17/22 18:21	8260B		MS
Iodomethane	<0.001	0.001	0.0001	mg/L	1	06/17/22 18:21	8260B		MS
Acrolein*	<0.005	0.005	0.0007	mg/L	1	06/17/22 18:21	8260B		MS
Methylene chloride*	<0.0005	0.0005	0.0003	mg/L	1	06/17/22 18:21	8260B		MS
Acetone*	<0.010	0.010	0.006	mg/L	1	06/17/22 18:21	8260B		MS
trans-1,2-Dichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	06/17/22 18:21	8260B		MS
Methyl t-Butyl Ether*	<0.001	0.001	0.0003	mg/L	1	06/17/22 18:21	8260B		MS
1,1-Dichloroethane*	<0.0005	0.0005	0.00008	mg/L	1	06/17/22 18:21	8260B		MS
Acrylonitrile*	<0.002	0.002	0.002	mg/L	1	06/17/22 18:21	8260B		MS
Vinyl acetate*	<0.0005	0.0005	0.0004	mg/L	1	06/17/22 18:21	8260B		MS
cis-1,2-Dichloroethene*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:21	8260B		MS
2,2-Dichloropropane*	<0.0005	0.0005	0.0003	mg/L	1	06/17/22 18:21	8260B		MS
Bromochloromethane*	<0.0005	0.0005	0.00007	mg/L	1	06/17/22 18:21	8260B		MS
Chloroform*	<0.0005	0.0005	0.00005	mg/L	1	06/17/22 18:21	8260B		MS
Carbon tetrachloride*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:21	8260B		MS
1,1,1-Trichloroethane*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:21	8260B		MS
1,1-Dichloropropene*	<0.0005	0.0005	0.00007	mg/L	1	06/17/22 18:21	8260B		MS
2-Butanone*	<0.002	0.002	0.002	mg/L	1	06/17/22 18:21	8260B		MS
Benzene*	0.002	0.0005	0.00009	mg/L	1	06/17/22 18:21	8260B		MS
1,2-Dichloroethane*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:21	8260B		MS
Trichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	06/17/22 18:21	8260B		MS
Dibromomethane*	<0.0005	0.0005	0.0002	mg/L	1	06/17/22 18:21	8260B		MS
1,2-Dichloropropane*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:21	8260B		MS
Bromodichloromethane*	<0.0005	0.0005	0.00007	mg/L	1	06/17/22 18:21	8260B		MS
cis-1,3-Dichloropropene*	<0.0005	0.0005	0.00006	mg/L	1	06/17/22 18:21	8260B		MS

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Brenna Kampf, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
06/21/22 15:33

MW #3R

2206124-01 (Ground Water)

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

Toluene*	<0.0005	0.0005	0.00007	mg/L	1	06/17/22 18:21	8260B		MS
4-Methyl-2-pentanone*	<0.001	0.001	0.0001	mg/L	1	06/17/22 18:21	8260B		MS
Tetrachloroethene*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:21	8260B		MS
trans-1,3-Dichloropropene*	<0.0005	0.0005	0.00008	mg/L	1	06/17/22 18:21	8260B		MS
1,1,2-Trichloroethane*	<0.0005	0.0005	0.00006	mg/L	1	06/17/22 18:21	8260B		MS
Dibromochloromethane*	<0.0005	0.0005	0.00006	mg/L	1	06/17/22 18:21	8260B		MS
1,3-Dichloropropane*	<0.0005	0.0005	0.00001	mg/L	1	06/17/22 18:21	8260B		MS
1,2-Dibromoethane*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:21	8260B		MS
2-Hexanone*	<0.001	0.001	0.0001	mg/L	1	06/17/22 18:21	8260B		MS
Chlorobenzene*	<0.0005	0.0005	0.00002	mg/L	1	06/17/22 18:21	8260B		MS
Ethylbenzene*	0.001	0.0005	0.00009	mg/L	1	06/17/22 18:21	8260B		MS
1,1,1,2-Tetrachloroethane*	<0.0005	0.0005	0.00006	mg/L	1	06/17/22 18:21	8260B		MS
m+p - Xylene*	<0.001	0.001	0.0005	mg/L	1	06/17/22 18:21	8260B		MS
o-Xylene*	0.001	0.0005	0.00007	mg/L	1	06/17/22 18:21	8260B		MS
Total Xylenes*	0.001	0.001	0.0005	mg/L	1	06/17/22 18:21	8260B		MS
Bromoform*	<0.0005	0.0005	0.00006	mg/L	1	06/17/22 18:21	8260B		MS
Styrene*	<0.0005	0.0005	0.00002	mg/L	1	06/17/22 18:21	8260B		MS
Isopropylbenzene*	<0.0005	0.0005	0.00002	mg/L	1	06/17/22 18:21	8260B		MS
Bromobenzene*	<0.0005	0.0005	0.00003	mg/L	1	06/17/22 18:21	8260B		MS
n-Propylbenzene*	<0.0005	0.0005	0.00001	mg/L	1	06/17/22 18:21	8260B		MS
1,1,2,2-Tetrachloroethane*	<0.0005	0.0005	0.00006	mg/L	1	06/17/22 18:21	8260B		MS
2-Chlorotoluene*	<0.0005	0.0005	0.00004	mg/L	1	06/17/22 18:21	8260B		MS
1,2,3-trichloropropane*	<0.0005	0.0005	0.00005	mg/L	1	06/17/22 18:21	8260B		MS
1,3,5-Trimethylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	06/17/22 18:21	8260B		MS
trans-1,4-Dichloro-2-butene	<0.010	0.010	0.006	mg/L	1	06/17/22 18:21	8260B		MS
4-Chlorotoluene*	<0.0005	0.0005	0.00003	mg/L	1	06/17/22 18:21	8260B		MS
tert-Butylbenzene*	<0.0005	0.0005	0.00006	mg/L	1	06/17/22 18:21	8260B		MS
1,2,4-Trimethylbenzene*	0.0006	0.0005	0.00003	mg/L	1	06/17/22 18:21	8260B		MS
sec-Butylbenzene*	<0.0005	0.0005	0.00002	mg/L	1	06/17/22 18:21	8260B		MS
p-Isopropyltoluene*	<0.0005	0.0005	0.00003	mg/L	1	06/17/22 18:21	8260B		MS
1,3-Dichlorobenzene*	<0.0005	0.0005	0.00004	mg/L	1	06/17/22 18:21	8260B		MS
1,4 Dichlorobenzene*	<0.0005	0.0005	0.00004	mg/L	1	06/17/22 18:21	8260B		MS

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Brenna Kampf, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
06/21/22 15:33

MW #3R

2206124-01 (Ground Water)

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

n-Butylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	06/17/22 18:21	8260B		MS
1,2-Dichlorobenzene*	<0.0005	0.0005	0.00006	mg/L	1	06/17/22 18:21	8260B		MS
1,2-Dibromo-3-chloropropane*	<0.0005	0.0005	0.0002	mg/L	1	06/17/22 18:21	8260B		MS
Hexachlorobutadiene*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:21	8260B		MS
1,2,4-Trichlorobenzene*	<0.0005	0.0005	0.00009	mg/L	1	06/17/22 18:21	8260B		MS
Naphthalene*	<0.0005	0.0005	0.00004	mg/L	1	06/17/22 18:21	8260B		MS
1,2,3-Trichlorobenzene*	<0.0005	0.0005	0.0001	mg/L	1	06/17/22 18:21	8260B		MS
1,4-Dioxane	<0.100	0.100	0.029	mg/L	1	06/17/22 18:21	8260B		MS
Surrogate: Dibromofluoromethane			108 %	82.4-141		06/17/22 18:21	8260B		MS
Surrogate: Toluene-d8			99.8 %	87.1-110		06/17/22 18:21	8260B		MS
Surrogate: 4-Bromofluorobenzene			99.3 %	76.4-114		06/17/22 18:21	8260B		MS

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Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
06/21/22 15:33

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 2061717 - Volatiles

Blank (2061717-BLK1)

Prepared & Analyzed: 06/17/22

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

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

Green Analytical Laboratories

Brenna Kampf, Project Manager

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Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
06/21/22 15:33

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 2061717 - Volatiles (Continued)

Blank (2061717-BLK1) (Continued)

Prepared & Analyzed: 06/17/22

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

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

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

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

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

Green Analytical Laboratories

Brenna Kampf, Project Manager

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Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
06/21/22 15:33

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 2061717 - Volatiles (Continued)

LCS (2061717-BS1)

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

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

Green Analytical Laboratories

Brenna Kampf, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
06/21/22 15:33

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 2061717 - Volatiles (Continued)

LCS (2061717-BS1) (Continued)

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

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

LCS Dup (2061717-BSD1)

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

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

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
06/21/22 15:33

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 2061717 - Volatiles (Continued)

LCS Dup (2061717-BSD1) (Continued)

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

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

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Brenna Kampf, Project Manager

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PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
06/21/22 15:33

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 2061717 - Volatiles (Continued)

LCS Dup (2061717-BSD1) (Continued)

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

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

Green Analytical Laboratories

Brenna Kampf, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
06/21/22 15:33

Notes and Definitions

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

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

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

RPD Relative Percent Difference

LCS Laboratory Control Sample (Blank Spike)

RL Report Limit

MDL Method Detection Limit

Green Analytical Laboratories

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

Brenna Kampf, Project Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Cottonwood Consulting LLC				Bill to (if different):				ANALYSIS REQUEST			
Project Manager: Kyle Siesser				P.O. #:							
Address: PO Box 1653				Company:							
City: Durango				Attn:							
State: CO Zip: 81302				Address:							
Phone #: 970-764-7356				City:							
Additional Report To:				State:							
Project Name: GCU #153E				Zip:							
Project Number:				Phone #:							
Fax or Email:											
Sampler Name (Print): Emma Millar/Kyle Siesser-				Matrix (check one)							
FOR LAB USE ONLY				GROUNDWATER				# of containers			
				SURFACEWATER							
Lab I.D.				WASTEWATER				No preservation (general)			
				PRODUCEDWATER							
2206-124				SOIL				HNO ³			
				OTHER :							
-01				HCl				H ₂ SO ₄			
				Other:							
Sample Name or Location				Other:				EPA Method 8260			
Date				HCl							
				H ₂ SO ₄							
MW # 3R				Other:							
6/9/22 1130				Other:							
Collected											
Date											
Time											
6/9/22											
1130											

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. 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:		Date: 6/9/22		Received By: <i>James Stumper</i>		Report to State? (Circle)	
Relinquished By:		Time: 1645		Received By:		Yes ☐ No ☒	
Relinquished By:		Date:		Received By:			
Relinquished By:		Time:		Received By:			
Delivered By: (Circle One)		Temperature at receipt: 22.2C		CHECKED BY: <i>James Stumper</i>		andee Stumper #2	
Sampler: UPS - FedEx - Kangaroo - Other:							

COTTONWOOD CONSULTING LLC

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : SIMCOE LLC

GCU #153E
Unit C Sec 28 T29N R12W

LABORATORY (S) USED :

GADate : 9/15/22DEVELOPER / SAMPLER : EM/120

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
2A	100.40	-	11.55	15.83	-	-	-	-	-
3R	100.80	-	12.32	20.00	0935	8.05	7550	20.0	1.75
7A	99.72	-	11.64	16.31	-	-	-	-	-

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

Ideally a minimum of three (3) wellbore volumes:

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

Comments or note well diameter if not standard 2":

Sample MW #3R; slow recharge

935 collect sample MW #3R cloudy, HC + H₂S odor, brown grey tint, no sheen, no bubbles

Top of casing MW #2A ~ 1.50 ft., MW #3R ~ 2.50 ft., MW #7A ~ 2.00 ft

on-site	<u>0910</u>	temp	<u>~65°</u>
off-site		temp	
sky cond.	<u>clear</u>		
wind speed	<u>none</u>	direct.	



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27 September 2022

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

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

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

Sincerely,

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

Jeremy D Allen
Laboratory Director

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

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

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



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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
09/27/22 09:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #3R	2209200-01	Water	09/15/22 09:35	09/15/22 14:10	

Green Analytical Laboratories

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

Jeremy D Allen, Laboratory Director

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Page 2 of 13 2209200 GAL FINAL 09 27 22 0953 09/27/22 09:53:18



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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
09/27/22 09:53

MW #3R

2209200-01 (Ground Water)

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

Dichlorodifluoromethane*	<0.0005	0.0005	0.00009	mg/L	1	09/21/22 22:44	8260B		CK
Chloromethane*	<0.0005	0.0005	0.00006	mg/L	1	09/21/22 22:44	8260B		CK
Vinyl chloride*	<0.0005	0.0005	0.00005	mg/L	1	09/21/22 22:44	8260B		CK
Bromomethane*	<0.0005	0.0005	0.00005	mg/L	1	09/21/22 22:44	8260B		CK
Chloroethane*	<0.0005	0.0005	0.0001	mg/L	1	09/21/22 22:44	8260B		CK
Trichlorofluoromethane*	<0.0005	0.0005	0.00003	mg/L	1	09/21/22 22:44	8260B		CK
1,1-Dichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	09/21/22 22:44	8260B		CK
Carbon disulfide*	0.003	0.001	0.0003	mg/L	1	09/21/22 22:44	8260B		CK
Iodomethane	<0.001	0.001	0.0001	mg/L	1	09/21/22 22:44	8260B		CK
Acrolein*	<0.005	0.005	0.0007	mg/L	1	09/21/22 22:44	8260B		CK
Methylene chloride*	<0.0005	0.0005	0.0003	mg/L	1	09/21/22 22:44	8260B		CK
Acetone*	<0.010	0.010	0.006	mg/L	1	09/21/22 22:44	8260B		CK
trans-1,2-Dichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	09/21/22 22:44	8260B		CK
Methyl t-Butyl Ether*	<0.001	0.001	0.0003	mg/L	1	09/21/22 22:44	8260B		CK
1,1-Dichloroethane*	<0.0005	0.0005	0.00008	mg/L	1	09/21/22 22:44	8260B		CK
Acrylonitrile*	<0.002	0.002	0.002	mg/L	1	09/21/22 22:44	8260B		CK
Vinyl acetate*	<0.0005	0.0005	0.0004	mg/L	1	09/21/22 22:44	8260B		CK
cis-1,2-Dichloroethene*	<0.0005	0.0005	0.0001	mg/L	1	09/21/22 22:44	8260B		CK
2,2-Dichloropropane*	<0.0005	0.0005	0.0003	mg/L	1	09/21/22 22:44	8260B		CK
Bromochloromethane*	<0.0005	0.0005	0.00007	mg/L	1	09/21/22 22:44	8260B		CK
Chloroform*	<0.0005	0.0005	0.00005	mg/L	1	09/21/22 22:44	8260B		CK
Carbon tetrachloride*	<0.0005	0.0005	0.0001	mg/L	1	09/21/22 22:44	8260B		CK
1,1,1-Trichloroethane*	<0.0005	0.0005	0.0001	mg/L	1	09/21/22 22:44	8260B		CK
1,1-Dichloropropene*	<0.0005	0.0005	0.00007	mg/L	1	09/21/22 22:44	8260B		CK
2-Butanone*	<0.002	0.002	0.002	mg/L	1	09/21/22 22:44	8260B		CK
Benzene*	0.005	0.0005	0.00009	mg/L	1	09/21/22 22:44	8260B		CK
1,2-Dichloroethane*	<0.0005	0.0005	0.0001	mg/L	1	09/21/22 22:44	8260B		CK
Trichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	09/21/22 22:44	8260B		CK
Dibromomethane*	<0.0005	0.0005	0.0002	mg/L	1	09/21/22 22:44	8260B		CK
1,2-Dichloropropane*	<0.0005	0.0005	0.0001	mg/L	1	09/21/22 22:44	8260B		CK
Bromodichloromethane*	<0.0005	0.0005	0.00007	mg/L	1	09/21/22 22:44	8260B		CK
cis-1,3-Dichloropropene*	<0.0005	0.0005	0.00006	mg/L	1	09/21/22 22:44	8260B		CK

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
09/27/22 09:53

MW #3R

2209200-01 (Ground Water)

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

Toluene*	0.004	0.0005	0.00007	mg/L	1	09/21/22 22:44	8260B		CK
4-Methyl-2-pentanone*	<0.001	0.001	0.0001	mg/L	1	09/21/22 22:44	8260B		CK
Tetrachloroethene*	<0.0005	0.0005	0.0001	mg/L	1	09/21/22 22:44	8260B		CK
trans-1,3-Dichloropropene*	<0.0005	0.0005	0.00008	mg/L	1	09/21/22 22:44	8260B		CK
1,1,2-Trichloroethane*	<0.0005	0.0005	0.00006	mg/L	1	09/21/22 22:44	8260B		CK
Dibromochloromethane*	<0.0005	0.0005	0.00006	mg/L	1	09/21/22 22:44	8260B		CK
1,3-Dichloropropane*	<0.0005	0.0005	0.00001	mg/L	1	09/21/22 22:44	8260B		CK
1,2-Dibromoethane*	<0.0005	0.0005	0.0001	mg/L	1	09/21/22 22:44	8260B		CK
2-Hexanone*	<0.001	0.001	0.0001	mg/L	1	09/21/22 22:44	8260B		CK
Chlorobenzene*	<0.0005	0.0005	0.00002	mg/L	1	09/21/22 22:44	8260B		CK
Ethylbenzene*	0.005	0.0005	0.00009	mg/L	1	09/21/22 22:44	8260B		CK
1,1,1,2-Tetrachloroethane*	<0.0005	0.0005	0.00006	mg/L	1	09/21/22 22:44	8260B		CK
m+p - Xylene*	0.003	0.001	0.0005	mg/L	1	09/21/22 22:44	8260B		CK
o-Xylene*	0.005	0.0005	0.00007	mg/L	1	09/21/22 22:44	8260B		CK
Total Xylenes*	0.008	0.001	0.0005	mg/L	1	09/21/22 22:44	8260B		CK
Bromoform*	<0.0005	0.0005	0.00006	mg/L	1	09/21/22 22:44	8260B		CK
Styrene*	<0.0005	0.0005	0.00002	mg/L	1	09/21/22 22:44	8260B		CK
Isopropylbenzene*	0.0009	0.0005	0.00002	mg/L	1	09/21/22 22:44	8260B		CK
Bromobenzene*	<0.0005	0.0005	0.00003	mg/L	1	09/21/22 22:44	8260B		CK
n-Propylbenzene*	0.0005	0.0005	0.00001	mg/L	1	09/21/22 22:44	8260B		CK
1,1,2,2-Tetrachloroethane*	<0.0005	0.0005	0.00006	mg/L	1	09/21/22 22:44	8260B		CK
2-Chlorotoluene*	<0.0005	0.0005	0.00004	mg/L	1	09/21/22 22:44	8260B		CK
1,2,3-trichloropropane*	<0.0005	0.0005	0.00005	mg/L	1	09/21/22 22:44	8260B		CK
1,3,5-Trimethylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	09/21/22 22:44	8260B		CK
trans-1,4-Dichloro-2-butene	<0.010	0.010	0.006	mg/L	1	09/21/22 22:44	8260B		CK
4-Chlorotoluene*	<0.0005	0.0005	0.00003	mg/L	1	09/21/22 22:44	8260B		CK
tert-Butylbenzene*	<0.0005	0.0005	0.00006	mg/L	1	09/21/22 22:44	8260B		CK
1,2,4-Trimethylbenzene*	0.0007	0.0005	0.00003	mg/L	1	09/21/22 22:44	8260B		CK
sec-Butylbenzene*	<0.0005	0.0005	0.00002	mg/L	1	09/21/22 22:44	8260B		CK
p-Isopropyltoluene*	<0.0005	0.0005	0.00003	mg/L	1	09/21/22 22:44	8260B		CK
1,3-Dichlorobenzene*	<0.0005	0.0005	0.00004	mg/L	1	09/21/22 22:44	8260B		CK
1,4 Dichlorobenzene*	<0.0005	0.0005	0.00004	mg/L	1	09/21/22 22:44	8260B		CK

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
09/27/22 09:53

MW #3R

2209200-01 (Ground Water)

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

n-Butylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	09/21/22 22:44	8260B		CK
1,2-Dichlorobenzene*	<0.0005	0.0005	0.00006	mg/L	1	09/21/22 22:44	8260B		CK
1,2-Dibromo-3-chloropropane*	<0.0005	0.0005	0.0002	mg/L	1	09/21/22 22:44	8260B		CK
Hexachlorobutadiene*	<0.001	0.001	0.0001	mg/L	1	09/21/22 22:44	8260B		CK
1,2,4-Trichlorobenzene*	<0.0005	0.0005	0.00009	mg/L	1	09/21/22 22:44	8260B		CK
Naphthalene*	<0.0005	0.0005	0.00004	mg/L	1	09/21/22 22:44	8260B		CK
1,2,3-Trichlorobenzene*	<0.0005	0.0005	0.0001	mg/L	1	09/21/22 22:44	8260B		CK
1,4-Dioxane	<0.100	0.100	0.029	mg/L	1	09/21/22 22:44	8260B		CK
Surrogate: Dibromofluoromethane			96.6 %	82.4-141		09/21/22 22:44	8260B		CK
Surrogate: Toluene-d8			99.7 %	87.1-110		09/21/22 22:44	8260B		CK
Surrogate: 4-Bromofluorobenzene			102 %	76.4-114		09/21/22 22:44	8260B		CK

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Jeremy D Allen, Laboratory Director

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PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
09/27/22 09:53

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 2091620 - Volatiles

Blank (2091620-BLK1)

Prepared & Analyzed: 09/21/22

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

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

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
09/27/22 09:53

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 2091620 - Volatiles (Continued)

Blank (2091620-BLK1) (Continued)

Prepared & Analyzed: 09/21/22

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

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Jeremy D Allen, Laboratory Director

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Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
09/27/22 09:53

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 2091620 - Volatiles (Continued)

LCS (2091620-BS1)

Prepared & Analyzed: 09/21/22

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

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Jeremy D Allen, Laboratory Director

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Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
09/27/22 09:53

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 2091620 - Volatiles (Continued)

LCS (2091620-BS1) (Continued)

Prepared & Analyzed: 09/21/22

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

LCS Dup (2091620-BSD1)

Prepared & Analyzed: 09/21/22

1,1,1,2-Tetrachloroethane	0.021	0.0005	mg/L	0.0200		103	77.2-132	1.39	6.88	
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Jeremy D Allen, Laboratory Director

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Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
09/27/22 09:53

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 2091620 - Volatiles (Continued)

LCS Dup (2091620-BSD1) (Continued)

Prepared & Analyzed: 09/21/22

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

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Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
09/27/22 09:53

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 2091620 - Volatiles (Continued)

LCS Dup (2091620-BSD1) (Continued)

Prepared & Analyzed: 09/21/22

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

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Jeremy D Allen, Laboratory Director

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PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153E
Project Manager: Kyle Siesser

Reported:
09/27/22 09:53

Notes and Definitions

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

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

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

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

RPD Relative Percent Difference

LCS Laboratory Control Sample (Blank Spike)

RL Report Limit

MDL Method Detection Limit

Green Analytical Laboratories

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

Jeremy D Allen, Laboratory Director

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

COTTONWOOD CONSULTING LLC

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : SIMCOE LLC

GCU #153E
Unit C Sec 28 T29N R12W

LABORATORY (S) USED :

GALDate : 12/15/22DEVELOPER / SAMPLER : EM, JL

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
2A	100.40		10.87	15.83	-	-	-	-	-
3R	100.80		11.58	20.00	1120	8.30	9020	12.9	4+2.0
7A	99.72		10.92	16.31	-	-	-	-	-

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

Ideally a minimum of three (3) wellbore volumes:

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

Comments or note well diameter if not standard 2".

Sample MW #3R; slow rechargewater sl grey tint, Sulfur odor, Small amount of sediment, no sheen

Top of casing MW #2A ~ 1.50 ft. , MW #3R ~ 2.50 ft. , MW #7A ~ 2.00 ft

on-site	<u>1100</u>	temp	<u>37°F</u>
off-site		temp	<u>33°F</u>
sky cond.	<u>mostly sunny</u>		
wind speed	<u>breezy</u>	direct.	



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03 January 2023

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

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

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

Sincerely,

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

Jeremy D Allen
Laboratory Director

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

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

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



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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153
Project Manager: Kyle Siesser

Reported:
01/03/23 17:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #3R	2212203-01	Water	12/15/22 11:20	12/15/22 15:05	

Green Analytical Laboratories

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

Jeremy D Allen, Laboratory Director

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Page 2 of 13 2212203 GAL FINAL 01 03 23 1719 01/03/23 17:19:40



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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153
Project Manager: Kyle Siesser

Reported:
01/03/23 17:19

MW #3R

2212203-01 (Ground Water)

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

Dichlorodifluoromethane*	<0.0005	0.0005	0.00009	mg/L	1	12/27/22 18:16	8260B		MS
Chloromethane*	<0.0005	0.0005	0.00006	mg/L	1	12/27/22 18:16	8260B		MS
Vinyl chloride*	<0.0005	0.0005	0.00005	mg/L	1	12/27/22 18:16	8260B		MS
Bromomethane*	<0.0005	0.0005	0.00005	mg/L	1	12/27/22 18:16	8260B		MS
Chloroethane*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:16	8260B		MS
Trichlorofluoromethane*	<0.0005	0.0005	0.00003	mg/L	1	12/27/22 18:16	8260B		MS
1,1-Dichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	12/27/22 18:16	8260B		MS
Carbon disulfide*	<0.001	0.001	0.0003	mg/L	1	12/27/22 18:16	8260B		MS
Iodomethane	<0.001	0.001	0.0001	mg/L	1	12/27/22 18:16	8260B		MS
Acrolein*	<0.005	0.005	0.0007	mg/L	1	12/27/22 18:16	8260B		MS
Methylene chloride*	<0.0005	0.0005	0.0003	mg/L	1	12/27/22 18:16	8260B		MS
Acetone*	<0.010	0.010	0.006	mg/L	1	12/27/22 18:16	8260B		MS
trans-1,2-Dichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	12/27/22 18:16	8260B		MS
Methyl t-Butyl Ether*	<0.001	0.001	0.0003	mg/L	1	12/27/22 18:16	8260B		MS
1,1-Dichloroethane*	<0.0005	0.0005	0.00008	mg/L	1	12/27/22 18:16	8260B		MS
Acrylonitrile*	<0.002	0.002	0.002	mg/L	1	12/27/22 18:16	8260B		MS
Vinyl acetate*	<0.0005	0.0005	0.0004	mg/L	1	12/27/22 18:16	8260B		MS
cis-1,2-Dichloroethene*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:16	8260B		MS
2,2-Dichloropropane*	<0.0005	0.0005	0.0003	mg/L	1	12/27/22 18:16	8260B		MS
Bromochloromethane*	<0.0005	0.0005	0.00007	mg/L	1	12/27/22 18:16	8260B		MS
Chloroform*	<0.0005	0.0005	0.00005	mg/L	1	12/27/22 18:16	8260B		MS
Carbon tetrachloride*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:16	8260B		MS
1,1,1-Trichloroethane*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:16	8260B		MS
1,1-Dichloropropene*	<0.0005	0.0005	0.00007	mg/L	1	12/27/22 18:16	8260B		MS
2-Butanone*	<0.002	0.002	0.002	mg/L	1	12/27/22 18:16	8260B		MS
Benzene*	0.001	0.0005	0.00009	mg/L	1	12/27/22 18:16	8260B		MS
1,2-Dichloroethane*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:16	8260B		MS
Trichloroethene*	<0.0005	0.0005	0.0002	mg/L	1	12/27/22 18:16	8260B		MS
Dibromomethane*	<0.0005	0.0005	0.0002	mg/L	1	12/27/22 18:16	8260B		MS
1,2-Dichloropropane*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:16	8260B		MS
Bromodichloromethane*	<0.0005	0.0005	0.00007	mg/L	1	12/27/22 18:16	8260B		MS
cis-1,3-Dichloropropene*	<0.0005	0.0005	0.00006	mg/L	1	12/27/22 18:16	8260B		MS

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Jeremy D Allen, Laboratory Director

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www.GreenAnalytical.com

Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153
Project Manager: Kyle Siesser

Reported:
01/03/23 17:19

MW #3R

2212203-01 (Ground Water)

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

Toluene*	0.001	0.0005	0.00007	mg/L	1	12/27/22 18:16	8260B		MS
4-Methyl-2-pentanone*	<0.001	0.001	0.0001	mg/L	1	12/27/22 18:16	8260B		MS
Tetrachloroethene*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:16	8260B		MS
trans-1,3-Dichloropropene*	<0.0005	0.0005	0.00008	mg/L	1	12/27/22 18:16	8260B		MS
1,1,2-Trichloroethane*	<0.0005	0.0005	0.00006	mg/L	1	12/27/22 18:16	8260B		MS
Dibromochloromethane*	<0.0005	0.0005	0.00006	mg/L	1	12/27/22 18:16	8260B		MS
1,3-Dichloropropane*	<0.0005	0.0005	0.00001	mg/L	1	12/27/22 18:16	8260B		MS
1,2-Dibromoethane*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:16	8260B		MS
2-Hexanone*	<0.001	0.001	0.0001	mg/L	1	12/27/22 18:16	8260B		MS
Chlorobenzene*	<0.0005	0.0005	0.00002	mg/L	1	12/27/22 18:16	8260B		MS
Ethylbenzene*	0.001	0.0005	0.00009	mg/L	1	12/27/22 18:16	8260B		MS
1,1,1,2-Tetrachloroethane*	<0.0005	0.0005	0.00006	mg/L	1	12/27/22 18:16	8260B		MS
m+p - Xylene*	<0.001	0.001	0.0005	mg/L	1	12/27/22 18:16	8260B		MS
o-Xylene*	0.002	0.0005	0.00007	mg/L	1	12/27/22 18:16	8260B		MS
Total Xylenes*	0.003	0.001	0.0005	mg/L	1	12/27/22 18:16	8260B		MS
Bromoform*	<0.0005	0.0005	0.00006	mg/L	1	12/27/22 18:16	8260B		MS
Styrene*	<0.0005	0.0005	0.00002	mg/L	1	12/27/22 18:16	8260B		MS
Isopropylbenzene*	<0.0005	0.0005	0.00002	mg/L	1	12/27/22 18:16	8260B		MS
Bromobenzene*	<0.0005	0.0005	0.00003	mg/L	1	12/27/22 18:16	8260B		MS
n-Propylbenzene*	<0.0005	0.0005	0.00001	mg/L	1	12/27/22 18:16	8260B		MS
1,1,2,2-Tetrachloroethane*	<0.0005	0.0005	0.00006	mg/L	1	12/27/22 18:16	8260B		MS
2-Chlorotoluene*	<0.0005	0.0005	0.00004	mg/L	1	12/27/22 18:16	8260B		MS
1,2,3-trichloropropane*	<0.0005	0.0005	0.00005	mg/L	1	12/27/22 18:16	8260B		MS
1,3,5-Trimethylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	12/27/22 18:16	8260B		MS
trans-1,4-Dichloro-2-butene	<0.010	0.010	0.006	mg/L	1	12/27/22 18:16	8260B		MS
4-Chlorotoluene*	<0.0005	0.0005	0.00003	mg/L	1	12/27/22 18:16	8260B		MS
tert-Butylbenzene*	<0.0005	0.0005	0.00006	mg/L	1	12/27/22 18:16	8260B		MS
1,2,4-Trimethylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	12/27/22 18:16	8260B		MS
sec-Butylbenzene*	<0.0005	0.0005	0.00002	mg/L	1	12/27/22 18:16	8260B		MS
p-Isopropyltoluene*	<0.0005	0.0005	0.00003	mg/L	1	12/27/22 18:16	8260B		MS
1,3-Dichlorobenzene*	<0.0005	0.0005	0.00004	mg/L	1	12/27/22 18:16	8260B		MS
1,4 Dichlorobenzene*	<0.0005	0.0005	0.00004	mg/L	1	12/27/22 18:16	8260B		MS

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Jeremy D Allen, Laboratory Director

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153
Project Manager: Kyle Siesser

Reported:
01/03/23 17:19

MW #3R

2212203-01 (Ground Water)

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

n-Butylbenzene*	<0.0005	0.0005	0.00003	mg/L	1	12/27/22 18:16	8260B		MS
1,2-Dichlorobenzene*	<0.0005	0.0005	0.00006	mg/L	1	12/27/22 18:16	8260B		MS
1,2-Dibromo-3-chloropropane*	<0.0005	0.0005	0.0002	mg/L	1	12/27/22 18:16	8260B		MS
Hexachlorobutadiene*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:16	8260B		MS
1,2,4-Trichlorobenzene*	<0.0005	0.0005	0.00009	mg/L	1	12/27/22 18:16	8260B		MS
Naphthalene*	<0.0005	0.0005	0.00004	mg/L	1	12/27/22 18:16	8260B		MS
1,2,3-Trichlorobenzene*	<0.0005	0.0005	0.0001	mg/L	1	12/27/22 18:16	8260B		MS
1,4-Dioxane	<0.100	0.100	0.029	mg/L	1	12/27/22 18:16	8260B		MS
Surrogate: Dibromofluoromethane			106 %	82.4-141		12/27/22 18:16	8260B		MS
Surrogate: Toluene-d8			100 %	87.1-110		12/27/22 18:16	8260B		MS
Surrogate: 4-Bromofluorobenzene			97.8 %	76.4-114		12/27/22 18:16	8260B		MS

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Jeremy D Allen, Laboratory Director

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Project: VOC 8260
Project Name / Number: GCU #153
Project Manager: Kyle Siesser

Reported:
01/03/23 17:19

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 2122716 - Volatiles

Blank (2122716-BLK1)

Prepared & Analyzed: 12/27/22

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

Surrogate: 4-Bromofluorobenzene	0.0239		mg/L	0.0250	95.8	76.4-114
4-Chlorotoluene	ND	0.0005	mg/L			
4-Methyl-2-pentanone	ND	0.001	mg/L			
Acetone	ND	0.010	mg/L			
Acrolein	ND	0.005	mg/L			
Acrylonitrile	ND	0.002	mg/L			
Benzene	ND	0.0005	mg/L			
Bromobenzene	ND	0.0005	mg/L			
Bromochloromethane	ND	0.0005	mg/L			
Bromodichloromethane	ND	0.0005	mg/L			
Bromoform	ND	0.0005	mg/L			

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153
Project Manager: Kyle Siesser

Reported:
01/03/23 17:19

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 2122716 - Volatiles (Continued)

Blank (2122716-BLK1) (Continued)

Prepared & Analyzed: 12/27/22

Bromomethane	ND	0.0005	mg/L							
Carbon disulfide	ND	0.001	mg/L							
Carbon tetrachloride	ND	0.0005	mg/L							
Chlorobenzene	ND	0.0005	mg/L							
Chloroethane	ND	0.0005	mg/L							
Chloroform	ND	0.0005	mg/L							
Chloromethane	ND	0.0005	mg/L							
cis-1,2-Dichloroethene	ND	0.0005	mg/L							
cis-1,3-Dichloropropene	ND	0.0005	mg/L							
Dibromochloromethane	ND	0.0005	mg/L							
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0260</i>		mg/L	<i>0.0250</i>		<i>104</i>	<i>82.4-141</i>			
Dibromomethane	ND	0.0005	mg/L							
Dichlorodifluoromethane	ND	0.0005	mg/L							
Ethylbenzene	ND	0.0005	mg/L							
Hexachlorobutadiene	0.0007	0.0005	mg/L							
Iodomethane	ND	0.001	mg/L							
Isopropylbenzene	ND	0.0005	mg/L							
m+p - Xylene	ND	0.001	mg/L							
Methyl t-Butyl Ether	ND	0.001	mg/L							
Methylene chloride	ND	0.0005	mg/L							
Naphthalene	ND	0.0005	mg/L							
n-Butylbenzene	ND	0.0005	mg/L							
n-Propylbenzene	ND	0.0005	mg/L							
o-Xylene	ND	0.0005	mg/L							
p-Isopropyltoluene	ND	0.0005	mg/L							
sec-Butylbenzene	ND	0.0005	mg/L							
Styrene	ND	0.0005	mg/L							
tert-Butylbenzene	ND	0.0005	mg/L							
Tetrachloroethene	ND	0.0005	mg/L							
Toluene	ND	0.0005	mg/L							
<i>Surrogate: Toluene-d8</i>	<i>0.0253</i>		mg/L	<i>0.0250</i>		<i>101</i>	<i>87.1-110</i>			
Total Xylenes	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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Jeremy D Allen, Laboratory Director

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PO Box 1653
Durango CO, 81302

Project: VOC 8260
Project Name / Number: GCU #153
Project Manager: Kyle Siesser

Reported:
01/03/23 17:19

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 2122716 - Volatiles (Continued)

LCS (2122716-BS1)

Prepared & Analyzed: 12/27/22

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

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Jeremy D Allen, Laboratory Director

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Project: VOC 8260
Project Name / Number: GCU #153
Project Manager: Kyle Siesser

Reported:
01/03/23 17:19

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 2122716 - Volatiles (Continued)

LCS (2122716-BS1) (Continued)

Prepared & Analyzed: 12/27/22

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

LCS Dup (2122716-BSD1)

Prepared & Analyzed: 12/27/22

1,1,1,2-Tetrachloroethane	0.022	0.0005	mg/L	0.0200		109	77.2-132	0.828	6.88	
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Jeremy D Allen, Laboratory Director

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PO Box 1653
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Project: VOC 8260
Project Name / Number: GCU #153
Project Manager: Kyle Siesser

Reported:
01/03/23 17:19

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 2122716 - Volatiles (Continued)

LCS Dup (2122716-BSD1) (Continued)

Prepared & Analyzed: 12/27/22

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

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Jeremy D Allen, Laboratory Director

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Project: VOC 8260
Project Name / Number: GCU #153
Project Manager: Kyle Siesser

Reported:
01/03/23 17:19

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 2122716 - Volatiles (Continued)

LCS Dup (2122716-BSD1) (Continued)

Prepared & Analyzed: 12/27/22

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

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Jeremy D Allen, Laboratory Director

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PO Box 1653
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Project: VOC 8260
Project Name / Number: GCU #153
Project Manager: Kyle Siesser

Reported:
01/03/23 17:19

Notes and Definitions

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

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

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

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

RPD Relative Percent Difference

LCS Laboratory Control Sample (Blank Spike)

RL Report Limit

MDL Method Detection Limit

Green Analytical Laboratories

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

Jeremy D Allen, Laboratory Director

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

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

CONDITIONS

Action 187239

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID:
	329736
	Action Number:
	187239
Action Type:	
[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)	

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2022 Annual Report for the Gallegos Canyon Unit 153E: Content Satisfactory 1.Continue to conduct groundwater monitoring as prescribed by NMOCD. 2. Submit the 2023 Annual Report no later than April 1, 2024.	9/12/2023