



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

11 April 2024

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

Enclosed are the results of analyses for samples received by the laboratory on 03/27/24 15:45. 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 'Veronica J. Wells'. The signature is written in a cursive, flowing style.

Veronica Wells
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: TX-C24-00019

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: T104704398-23-16

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
04/11/24 08:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #1	2403227-01	Water	03/27/24 09:20	03/27/24 15:45	

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A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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PO Box 1653
Durango CO, 81302

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

Reported:
04/11/24 08:23

MW #1

2403227-01 (Ground Water)

Sampled Date: 03/27/24 09:20

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

VOLATILES BY GC/MS

1,1,1,2-Tetrachloroethane*	<0.010	0.010	0.001	mg/L	20	04/08/24 13:30	8260B		MS
1,1,1-Trichloroethane*	<0.010	0.010	0.001	mg/L	20	04/08/24 13:30	8260B		MS
1,1,2,2-Tetrachloroethane*	<0.010	0.010	0.001	mg/L	20	04/08/24 13:30	8260B		MS
1,1,2-Trichloroethane*	<0.010	0.010	0.001	mg/L	20	04/08/24 13:30	8260B		MS
1,1-Dichloroethane*	<0.010	0.010	0.003	mg/L	20	04/08/24 13:30	8260B		MS
1,1-Dichloroethene*	<0.010	0.010	0.004	mg/L	20	04/08/24 13:30	8260B		MS
1,1-Dichloropropene*	<0.010	0.010	0.003	mg/L	20	04/08/24 13:30	8260B		MS
1,2,3-Trichlorobenzene*	<0.010	0.010	0.005	mg/L	20	04/08/24 13:30	8260B		MS
1,2,4-Trichlorobenzene*	<0.010	0.010	0.003	mg/L	20	04/08/24 13:30	8260B		MS
1,2,4-Trimethylbenzene*	1.08	0.010	0.0009	mg/L	20	04/08/24 13:30	8260B		MS
1,2-Dibromo-3-chloropropane*	<0.010	0.010	0.010	mg/L	20	04/08/24 13:30	8260B		MS
1,2-Dibromoethane*	<0.010	0.010	0.002	mg/L	20	04/08/24 13:30	8260B		MS
1,2-Dichlorobenzene*	<0.010	0.010	0.001	mg/L	20	04/08/24 13:30	8260B		MS
1,2-Dichloroethane*	<0.010	0.010	0.001	mg/L	20	04/08/24 13:30	8260B		MS
1,2-Dichloropropane*	<0.010	0.010	0.002	mg/L	20	04/08/24 13:30	8260B		MS
1,3,5-Trimethylbenzene*	0.426	0.010	0.0009	mg/L	20	04/08/24 13:30	8260B		MS
1,3-Dichlorobenzene*	<0.010	0.010	0.001	mg/L	20	04/08/24 13:30	8260B		MS
1,3-Dichloropropane*	<0.010	0.010	0.003	mg/L	20	04/08/24 13:30	8260B		MS
1,4-Dichlorobenzene	<0.010	0.010	0.0007	mg/L	20	04/08/24 13:30	8260B		MS
1,4-Dioxane	<0.200	0.200	0.200	mg/L	20	04/08/24 13:30	8260B		MS
1,2,3-trichloropropane*	<0.010	0.010	0.002	mg/L	20	04/08/24 13:30	8260B		MS
2,2-Dichloropropane*	<0.010	0.010	0.010	mg/L	20	04/08/24 13:30	8260B		MS
2-Butanone*	<0.040	0.040	0.040	mg/L	20	04/08/24 13:30	8260B		MS
2-Chlorotoluene*	<0.010	0.010	0.0008	mg/L	20	04/08/24 13:30	8260B		MS
2-Hexanone*	0.042	0.020	0.006	mg/L	20	04/08/24 13:30	8260B		MS
4-Chlorotoluene*	<0.010	0.010	0.0009	mg/L	20	04/08/24 13:30	8260B		MS
4-Methyl-2-pentanone*	<0.020	0.020	0.002	mg/L	20	04/08/24 13:30	8260B		MS
Acetone*	<0.200	0.200	0.017	mg/L	20	04/08/24 13:30	8260B		MS
Acrolein*	<0.100	0.100	0.022	mg/L	20	04/08/24 13:30	8260B		MS
Acrylonitrile*	<0.040	0.040	0.016	mg/L	20	04/08/24 13:30	8260B		MS

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Veronica J Wells

Veronica Wells, Project Manager

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PO Box 1653
Durango CO, 81302

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

Reported:
04/11/24 08:23

MW #1

2403227-01 (Ground Water)

Sampled Date: 03/27/24 09:20

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

Benzene*	0.952	0.010	0.0009	mg/L	20	04/08/24 13:30	8260B		MS
Bromobenzene*	<0.010	0.010	0.001	mg/L	20	04/08/24 13:30	8260B		MS
Bromochloromethane*	<0.010	0.010	0.003	mg/L	20	04/08/24 13:30	8260B		MS
Bromodichloromethane*	<0.010	0.010	0.0008	mg/L	20	04/08/24 13:30	8260B		MS
Bromoform*	<0.010	0.010	0.002	mg/L	20	04/08/24 13:30	8260B		MS
Bromomethane*	<0.010	0.010	0.010	mg/L	20	04/08/24 13:30	8260B		MS
Carbon disulfide*	<0.100	0.100	0.003	mg/L	20	04/08/24 13:30	8260B		MS
Carbon tetrachloride*	<0.010	0.010	0.003	mg/L	20	04/08/24 13:30	8260B		MS
Chlorobenzene*	<0.010	0.010	0.0008	mg/L	20	04/08/24 13:30	8260B		MS
Chloroethane*	<0.010	0.010	0.010	mg/L	20	04/08/24 13:30	8260B		MS
Chloroform*	<0.010	0.010	0.0003	mg/L	20	04/08/24 13:30	8260B		MS
Chloromethane*	<0.010	0.010	0.010	mg/L	20	04/08/24 13:30	8260B		MS
cis-1,2-Dichloroethene*	<0.010	0.010	0.005	mg/L	20	04/08/24 13:30	8260B		MS
cis-1,3-Dichloropropene*	<0.010	0.010	0.002	mg/L	20	04/08/24 13:30	8260B		MS
Dibromochloromethane*	<0.010	0.010	0.002	mg/L	20	04/08/24 13:30	8260B		MS
Dibromomethane*	<0.010	0.010	0.003	mg/L	20	04/08/24 13:30	8260B		MS
Dichlorodifluoromethane*	<0.010	0.010	0.010	mg/L	20	04/08/24 13:30	8260B		MS
Ethylbenzene*	0.867	0.010	0.0006	mg/L	20	04/08/24 13:30	8260B		MS
Hexachlorobutadiene*	<0.010	0.010	0.010	mg/L	20	04/08/24 13:30	8260B		MS
Iodomethane	<0.020	0.020	0.001	mg/L	20	04/08/24 13:30	8260B		MS
Isopropylbenzene*	0.111	0.010	0.0004	mg/L	20	04/08/24 13:30	8260B		MS
m+p - Xylene*	3.60	0.020	0.002	mg/L	20	04/08/24 13:30	8260B		MS
Methyl tert-butyl ether	<0.020	0.020	0.005	mg/L	20	04/08/24 13:30	8260B		MS
Methylene chloride*	<0.040	0.040	0.010	mg/L	20	04/08/24 13:30	8260B		MS
Naphthalene*	0.096	0.010	0.002	mg/L	20	04/08/24 13:30	8260B		MS
n-Butylbenzene*	<0.010	0.010	0.001	mg/L	20	04/08/24 13:30	8260B		MS
n-Propylbenzene*	0.134	0.010	0.001	mg/L	20	04/08/24 13:30	8260B		MS
o-Xylene*	1.40	0.010	0.003	mg/L	20	04/08/24 13:30	8260B		MS
p-Isopropyltoluene*	0.066	0.010	0.0009	mg/L	20	04/08/24 13:30	8260B		MS
sec-Butylbenzene*	0.027	0.010	0.0009	mg/L	20	04/08/24 13:30	8260B		MS
Styrene*	<0.010	0.010	0.002	mg/L	20	04/08/24 13:30	8260B		MS
tert-Butylbenzene*	<0.010	0.010	0.001	mg/L	20	04/08/24 13:30	8260B		MS

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Veronica J Wells

Veronica Wells, Project Manager

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PO Box 1653
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Project: VOC 8260
Project Name / Number: Mudge LS #006
Project Manager: Kyle Siesser

Reported:
04/11/24 08:23

MW #1

2403227-01 (Ground Water)

Sampled Date: 03/27/24 09:20

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

Tetrachloroethene*	<0.010	0.010	0.002	mg/L	20	04/08/24 13:30	8260B		MS
Toluene*	2.68	0.010	0.002	mg/L	20	04/08/24 13:30	8260B		MS
Total Xylenes*	5.00	0.020	0.004	mg/L	20	04/08/24 13:30	8260B		MS
trans-1,2-Dichloroethene*	<0.010	0.010	0.003	mg/L	20	04/08/24 13:30	8260B		MS
trans-1,3-Dichloropropene*	<0.010	0.010	0.001	mg/L	20	04/08/24 13:30	8260B		MS
trans-1,4-Dichloro-2-butene	<0.200	0.200	0.006	mg/L	20	04/08/24 13:30	8260B		MS
Trichloroethene*	<0.010	0.010	0.003	mg/L	20	04/08/24 13:30	8260B		MS
Trichlorofluoromethane*	<0.010	0.010	0.003	mg/L	20	04/08/24 13:30	8260B		MS
Vinyl acetate*	<0.010	0.010	0.010	mg/L	20	04/08/24 13:30	8260B		MS
Vinyl chloride*	<0.010	0.010	0.010	mg/L	20	04/08/24 13:30	8260B		MS
Surrogate: 4-Bromofluorobenzene			100 %	76.4-114		04/08/24 13:30	8260B		MS
Surrogate: Dibromofluoromethane			94.8 %	82.4-141		04/08/24 13:30	8260B		MS
Surrogate: Toluene-d8			102 %	87.1-110		04/08/24 13:30	8260B		MS

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

Reported:
04/11/24 08:23

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 4040332 - Volatiles

Blank (4040332-BLK1)

Prepared: 04/03/24 Analyzed: 04/04/24

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	0.010	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	0.0523		mg/L	0.0500	105	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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Project: VOC 8260
Project Name / Number: Mudge LS #006
Project Manager: Kyle Siesser

Reported:
04/11/24 08:23

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 4040332 - Volatiles (Continued)

Blank (4040332-BLK1) (Continued)

Prepared: 04/03/24 Analyzed: 04/04/24

Bromomethane	ND	0.0005	mg/L							
Carbon disulfide	0.001	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>0.0473</i>		mg/L	<i>0.0500</i>		<i>94.5</i>	<i>82.4-141</i>			
Dibromomethane	ND	0.0005	mg/L							
Dichlorodifluoromethane	ND	0.0005	mg/L							
Ethylbenzene	ND	0.0005	mg/L							
Hexachlorobutadiene	ND	0.0005	mg/L							
Iodomethane	ND	0.001	mg/L							
Isopropylbenzene	ND	0.0005	mg/L							
m+p - Xylene	ND	0.001	mg/L							
Methyl tert-butyl ether	ND	0.001	mg/L							
Methylene chloride	0.0007	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>0.0511</i>		mg/L	<i>0.0500</i>		<i>102</i>	<i>87.1-110</i>			
Total Xylenes	ND	0.001	mg/L							
trans-1,2-Dichloroethene	ND	0.0005	mg/L							
trans-1,3-Dichloropropene	ND	0.0005	mg/L							
trans-1,4-Dichloro-2-butene	ND	0.010	mg/L							
Trichloroethene	ND	0.0005	mg/L							
Trichlorofluoromethane	ND	0.0005	mg/L							
Vinyl acetate	ND	0.0005	mg/L							
Vinyl chloride	ND	0.0005	mg/L							

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Veronica Wells, Project Manager

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

Reported:
04/11/24 08:23

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 4040332 - Volatiles (Continued)

LCS (4040332-BS1)

Prepared: 04/03/24 Analyzed: 04/04/24

1,1,1,2-Tetrachloroethane	0.022	0.0005	mg/L	0.0200		108	82.4-120			
1,1,1-Trichloroethane	0.019	0.0005	mg/L	0.0200		93.4	80.7-121			
1,1,2,2-Tetrachloroethane	0.020	0.0005	mg/L	0.0200		99.8	76.5-121			
1,1,2-Trichloroethane	0.021	0.0005	mg/L	0.0200		104	81.7-118			
1,1-Dichloroethane	0.019	0.0005	mg/L	0.0200		94.7	74.8-123			
1,1-Dichloroethene	0.021	0.0005	mg/L	0.0200		103	53.9-149			
1,1-Dichloropropene	0.018	0.0005	mg/L	0.0200		92.4	85.9-115			
1,2,3-Trichlorobenzene	0.019	0.0005	mg/L	0.0200		92.8	76.1-134			
1,2,4-Trichlorobenzene	0.020	0.0005	mg/L	0.0200		100	72.4-136			
1,2,4-Trimethylbenzene	0.022	0.0005	mg/L	0.0200		109	67.4-138			
1,2-Dibromo-3-chloropropane	0.018	0.0005	mg/L	0.0200		89.6	71.7-124			
1,2-Dibromoethane	0.020	0.0005	mg/L	0.0200		100	84.9-116			
1,2-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		98.9	82.5-119			
1,2-Dichloroethane	0.018	0.0005	mg/L	0.0200		89.2	72.5-123			
1,2-Dichloropropane	0.020	0.0005	mg/L	0.0200		97.8	79.4-117			
1,3,5-Trimethylbenzene	0.021	0.0005	mg/L	0.0200		106	69-137			
1,3-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		101	84.4-120			
1,3-Dichloropropane	0.022	0.0005	mg/L	0.0200		108	82.6-117			
1,4-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		101	81.7-118			
1,4-Dioxane	0.594	0.010	mg/L	0.400		149	-34.6-193			
1,2,3-trichloropropane	0.019	0.0005	mg/L	0.0200		94.1	44.7-168			
2,2-Dichloropropane	0.019	0.0005	mg/L	0.0200		93.4	62.9-136			
2-Butanone	0.037	0.002	mg/L	0.0400		91.4	24.1-159			
2-Chlorotoluene	0.021	0.0005	mg/L	0.0200		105	80.2-121			
2-Hexanone	0.034	0.001	mg/L	0.0400		84.5	56.3-139			

Surrogate: 4-Bromofluorobenzene	0.0506		mg/L	0.0500		101	76.4-114			
4-Chlorotoluene	0.021	0.0005	mg/L	0.0200		103	82.2-125			
4-Methyl-2-pentanone	0.035	0.001	mg/L	0.0400		87.2	60.7-139			
Acetone	0.037	0.010	mg/L	0.0400		92.8	39.1-168			
Acrolein	0.183	0.005	mg/L	0.200		91.4	26.6-161			
Acrylonitrile	0.034	0.002	mg/L	0.0400		84.7	64.9-135			
Benzene	0.020	0.0005	mg/L	0.0200		97.7	69.4-129			
Bromobenzene	0.026	0.0005	mg/L	0.0200		131	83.5-115			BS1
Bromochloromethane	0.023	0.0005	mg/L	0.0200		113	70.7-123			
Bromodichloromethane	0.020	0.0005	mg/L	0.0200		99.6	80.3-119			
Bromoform	0.022	0.0005	mg/L	0.0200		111	71.1-141			
Bromomethane	0.017	0.0005	mg/L	0.0200		84.7	55.1-143			
Carbon disulfide	0.039	0.001	mg/L	0.0400		98.6	53.6-147			
Carbon tetrachloride	0.020	0.0005	mg/L	0.0200		101	79.5-125			

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
04/11/24 08:23

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 4040332 - Volatiles (Continued)

LCS (4040332-BS1) (Continued)

Prepared: 04/03/24 Analyzed: 04/04/24

Chlorobenzene	0.020	0.0005	mg/L	0.0200		101	85.1-115			
Chloroethane	0.018	0.0005	mg/L	0.0200		88.4	36.9-159			
Chloroform	0.018	0.0005	mg/L	0.0200		92.0	80.9-119			
Chloromethane	0.017	0.0005	mg/L	0.0200		85.4	54.2-142			
cis-1,2-Dichloroethene	0.019	0.0005	mg/L	0.0200		94.6	73.8-128			
cis-1,3-Dichloropropene	0.023	0.0005	mg/L	0.0200		115	82.5-122			
Dibromochloromethane	0.023	0.0005	mg/L	0.0200		114	83.1-124			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0483</i>		mg/L	<i>0.0500</i>		<i>96.6</i>	<i>82.4-141</i>			
Dibromomethane	0.018	0.0005	mg/L	0.0200		88.8	77-118			
Dichlorodifluoromethane	0.018	0.0005	mg/L	0.0200		92.0	38.7-147			
Ethylbenzene	0.021	0.0005	mg/L	0.0200		104	70.2-130			
Hexachlorobutadiene	0.022	0.0005	mg/L	0.0200		108	78.9-148			
Iodomethane	0.036	0.001	mg/L	0.0400		89.2	63.5-135			
Isopropylbenzene	0.022	0.0005	mg/L	0.0200		109	85-124			
m+p - Xylene	0.043	0.001	mg/L	0.0400		108	71.9-133			
Methyl tert-butyl ether	0.035	0.001	mg/L	0.0400		86.7	57.7-137			
Methylene chloride	0.019	0.0005	mg/L	0.0200		97.2	49.3-163			
Naphthalene	0.016	0.0005	mg/L	0.0200		82.4	62.1-141			
n-Butylbenzene	0.023	0.0005	mg/L	0.0200		113	75.4-132			
n-Propylbenzene	0.021	0.0005	mg/L	0.0200		106	79.6-124			
o-Xylene	0.022	0.0005	mg/L	0.0200		109	69.4-132			
p-Isopropyltoluene	0.021	0.0005	mg/L	0.0200		107	79.8-131			
sec-Butylbenzene	0.021	0.0005	mg/L	0.0200		104	77.6-133			
Styrene	0.022	0.0005	mg/L	0.0200		110	71.7-128			
tert-Butylbenzene	0.021	0.0005	mg/L	0.0200		106	78.8-128			
Tetrachloroethene	0.019	0.0005	mg/L	0.0200		94.8	74.2-128			
Toluene	0.022	0.0005	mg/L	0.0200		109	68.1-127			
<i>Surrogate: Toluene-d8</i>	<i>0.0530</i>		mg/L	<i>0.0500</i>		<i>106</i>	<i>87.1-110</i>			
Total Xylenes	0.065	0.001	mg/L	0.0600		108	71.6-132			
trans-1,2-Dichloroethene	0.018	0.0005	mg/L	0.0200		89.5	65.2-133			
trans-1,3-Dichloropropene	0.022	0.0005	mg/L	0.0200		111	84-123			
trans-1,4-Dichloro-2-butene	0.138	0.010	mg/L	0.0400		345	9.3-235			BS1
Trichloroethene	0.018	0.0005	mg/L	0.0200		90.6	79.3-114			
Trichlorofluoromethane	0.018	0.0005	mg/L	0.0200		91.1	28.6-162			
Vinyl acetate	0.019	0.0005	mg/L	0.0200		93.9	50.9-135			
Vinyl chloride	0.019	0.0005	mg/L	0.0200		93.9	61.6-133			

LCS Dup (4040332-BSD1)

Prepared: 04/03/24 Analyzed: 04/04/24

1,1,1,2-Tetrachloroethane	0.021	0.0005	mg/L	0.0200		103	82.4-120	5.22	6.88	
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Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
04/11/24 08:23

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 4040332 - Volatiles (Continued)

LCS Dup (4040332-BSD1) (Continued)

Prepared: 04/03/24 Analyzed: 04/04/24

1,1,1-Trichloroethane	0.018	0.0005	mg/L	0.0200		90.4	80.7-121	3.26	7.43	
1,1,2,2-Tetrachloroethane	0.022	0.0005	mg/L	0.0200		108	76.5-121	8.03	8.68	
1,1,2-Trichloroethane	0.021	0.0005	mg/L	0.0200		106	81.7-118	2.53	6.82	
1,1-Dichloroethane	0.018	0.0005	mg/L	0.0200		90.2	74.8-123	4.87	4.3	QR-04
1,1-Dichloroethene	0.020	0.0005	mg/L	0.0200		98.9	53.9-149	3.87	16.5	
1,1-Dichloropropene	0.018	0.0005	mg/L	0.0200		91.8	85.9-115	0.706	5.47	
1,2,3-Trichlorobenzene	0.019	0.0005	mg/L	0.0200		96.6	76.1-134	3.91	43	
1,2,4-Trichlorobenzene	0.020	0.0005	mg/L	0.0200		101	72.4-136	1.04	22.3	
1,2,4-Trimethylbenzene	0.021	0.0005	mg/L	0.0200		105	67.4-138	3.68	8.94	
1,2-Dibromo-3-chloropropane	0.018	0.0005	mg/L	0.0200		89.0	71.7-124	0.672	15.1	
1,2-Dibromoethane	0.021	0.0005	mg/L	0.0200		103	84.9-116	2.22	5.83	
1,2-Dichlorobenzene	0.019	0.0005	mg/L	0.0200		95.4	82.5-119	3.60	8.72	
1,2-Dichloroethane	0.018	0.0005	mg/L	0.0200		88.0	72.5-123	1.47	8.94	
1,2-Dichloropropane	0.020	0.0005	mg/L	0.0200		99.0	79.4-117	1.27	5.51	
1,3,5-Trimethylbenzene	0.021	0.0005	mg/L	0.0200		103	69-137	2.82	16.5	
1,3-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		97.8	84.4-120	3.67	9	
1,3-Dichloropropane	0.021	0.0005	mg/L	0.0200		105	82.6-117	2.81	6.06	
1,4-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		97.7	81.7-118	3.62	7.71	
1,4-Dioxane	0.535	0.010	mg/L	0.400		134	-34.6-193	10.6	35.2	
1,2,3-trichloropropane	0.020	0.0005	mg/L	0.0200		99.9	44.7-168	5.98	49.2	
2,2-Dichloropropane	0.018	0.0005	mg/L	0.0200		90.6	62.9-136	2.99	9.62	
2-Butanone	0.040	0.002	mg/L	0.0400		101	24.1-159	9.64	14.2	
2-Chlorotoluene	0.020	0.0005	mg/L	0.0200		101	80.2-121	3.16	8.62	
2-Hexanone	0.040	0.001	mg/L	0.0400		100	56.3-139	16.8	7.28	QR-04
Surrogate: 4-Bromofluorobenzene	0.0515		mg/L	0.0500		103	76.4-114			
4-Chlorotoluene	0.020	0.0005	mg/L	0.0200		101	82.2-125	1.42	15.5	
4-Methyl-2-pentanone	0.040	0.001	mg/L	0.0400		99.8	60.7-139	13.5	7.57	QR-04
Acetone	0.040	0.010	mg/L	0.0400		101	39.1-168	8.64	30.5	
Acrolein	0.197	0.005	mg/L	0.200		98.3	26.6-161	7.24	22.4	
Acrylonitrile	0.038	0.002	mg/L	0.0400		95.7	64.9-135	12.2	7.62	QR-04
Benzene	0.019	0.0005	mg/L	0.0200		96.1	69.4-129	1.65	4.16	
Bromobenzene	0.022	0.0005	mg/L	0.0200		109	83.5-115	18.7	8.41	QR-04
Bromochloromethane	0.017	0.0005	mg/L	0.0200		85.5	70.7-123	27.4	5.16	QR-04
Bromodichloromethane	0.019	0.0005	mg/L	0.0200		96.9	80.3-119	2.75	5.36	
Bromoform	0.024	0.0005	mg/L	0.0200		118	71.1-141	6.14	14.1	
Bromomethane	0.017	0.0005	mg/L	0.0200		83.8	55.1-143	1.13	21.5	
Carbon disulfide	0.037	0.001	mg/L	0.0400		93.5	53.6-147	5.33	20.3	
Carbon tetrachloride	0.019	0.0005	mg/L	0.0200		94.9	79.5-125	6.57	11.4	
Chlorobenzene	0.020	0.0005	mg/L	0.0200		98.0	85.1-115	3.16	5.18	

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
04/11/24 08:23

**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 4040332 - Volatiles (Continued)

LCS Dup (4040332-BSD1) (Continued)

Prepared: 04/03/24 Analyzed: 04/04/24

Chloroethane	0.017	0.0005	mg/L	0.0200		86.1	36.9-159	2.58	24.1	
Chloroform	0.017	0.0005	mg/L	0.0200		86.3	80.9-119	6.39	5.15	QR-04
Chloromethane	0.016	0.0005	mg/L	0.0200		82.1	54.2-142	3.88	27	
cis-1,2-Dichloroethene	0.019	0.0005	mg/L	0.0200		93.9	73.8-128	0.796	5.73	
cis-1,3-Dichloropropene	0.022	0.0005	mg/L	0.0200		112	82.5-122	2.78	6.09	
Dibromochloromethane	0.021	0.0005	mg/L	0.0200		106	83.1-124	7.87	7.24	QR-04
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0481</i>		mg/L	<i>0.0500</i>		<i>96.1</i>	<i>82.4-141</i>			
Dibromomethane	0.018	0.0005	mg/L	0.0200		87.8	77-118	1.19	5.75	
Dichlorodifluoromethane	0.018	0.0005	mg/L	0.0200		90.0	38.7-147	2.14	22.6	
Ethylbenzene	0.020	0.0005	mg/L	0.0200		102	70.2-130	2.27	4.83	
Hexachlorobutadiene	0.023	0.0005	mg/L	0.0200		114	78.9-148	5.52	18.4	
Iodomethane	0.035	0.001	mg/L	0.0400		88.3	63.5-135	1.01	24.3	
Isopropylbenzene	0.021	0.0005	mg/L	0.0200		107	85-124	1.80	6.25	
m+p - Xylene	0.043	0.001	mg/L	0.0400		107	71.9-133	0.697	5.77	
Methyl tert-butyl ether	0.036	0.001	mg/L	0.0400		89.1	57.7-137	2.67	12.8	
Methylene chloride	0.019	0.0005	mg/L	0.0200		94.4	49.3-163	2.97	19.7	
Naphthalene	0.018	0.0005	mg/L	0.0200		87.8	62.1-141	6.28	33.5	
n-Butylbenzene	0.022	0.0005	mg/L	0.0200		111	75.4-132	1.74	10.1	
n-Propylbenzene	0.021	0.0005	mg/L	0.0200		105	79.6-124	0.332	9.09	
o-Xylene	0.021	0.0005	mg/L	0.0200		103	69.4-132	5.70	6.29	
p-Isopropyltoluene	0.021	0.0005	mg/L	0.0200		106	79.8-131	1.46	9.26	
sec-Butylbenzene	0.021	0.0005	mg/L	0.0200		106	77.6-133	1.66	9.85	
Styrene	0.022	0.0005	mg/L	0.0200		108	71.7-128	2.15	7.55	
tert-Butylbenzene	0.021	0.0005	mg/L	0.0200		103	78.8-128	2.49	18.6	
Tetrachloroethene	0.019	0.0005	mg/L	0.0200		96.2	74.2-128	1.36	6.38	
Toluene	0.021	0.0005	mg/L	0.0200		105	68.1-127	3.36	5.67	
<i>Surrogate: Toluene-d8</i>	<i>0.0525</i>		mg/L	<i>0.0500</i>		<i>105</i>	<i>87.1-110</i>			
Total Xylenes	0.064	0.001	mg/L	0.0600		106	71.6-132	2.35	5.83	
trans-1,2-Dichloroethene	0.017	0.0005	mg/L	0.0200		87.0	65.2-133	2.89	19.1	
trans-1,3-Dichloropropene	0.022	0.0005	mg/L	0.0200		108	84-123	2.10	6.26	
trans-1,4-Dichloro-2-butene	0.126	0.010	mg/L	0.0400		315	9.3-235	8.88	92.8	BS1
Trichloroethene	0.018	0.0005	mg/L	0.0200		89.6	79.3-114	1.17	4.92	
Trichlorofluoromethane	0.018	0.0005	mg/L	0.0200		89.8	28.6-162	1.44	19.8	
Vinyl acetate	0.020	0.0005	mg/L	0.0200		97.7	50.9-135	3.97	7.84	
Vinyl chloride	0.019	0.0005	mg/L	0.0200		92.9	61.6-133	1.07	23	

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
04/11/24 08:23

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 'Veronica J. Wells'.

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
04/11/24 08:23

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
4040332-BS1	Volatile 8260	Bromobenzene	BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
4040332-BS1	Volatile 8260	trans-1,4-Dichloro-2-butene	BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
4040332-BSD1	Volatile 8260	1,1-Dichloroethane	QR-04	The RPD for the BS/BSD was outside of historical limits.
4040332-BSD1	Volatile 8260	2-Hexanone	QR-04	The RPD for the BS/BSD was outside of historical limits.
4040332-BSD1	Volatile 8260	4-Methyl-2-pentanone	QR-04	The RPD for the BS/BSD was outside of historical limits.
4040332-BSD1	Volatile 8260	Acrylonitrile	QR-04	The RPD for the BS/BSD was outside of historical limits.
4040332-BSD1	Volatile 8260	Bromobenzene	QR-04	The RPD for the BS/BSD was outside of historical limits.
4040332-BSD1	Volatile 8260	Bromochloromethane	QR-04	The RPD for the BS/BSD was outside of historical limits.
4040332-BSD1	Volatile 8260	Chloroform	QR-04	The RPD for the BS/BSD was outside of historical limits.
4040332-BSD1	Volatile 8260	Dibromochloromethane	QR-04	The RPD for the BS/BSD was outside of historical limits.
4040332-BSD1	Volatile 8260	trans-1,4-Dichloro-2-butene	BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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

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

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

Company or Client: Cottonwood Consulting LLC

Bill to (if different):

ANALYSIS REQUEST

Address: PO Box 1653

City: Durango

State: CO Zip: 81302

Phone #: 970-764-7356

Contact Person: Kyle Siesser

Email Report to: kssiesser@cottonwoodconsulting.com

Project Name(optional):

Mudge LS #006

Sampler Name (Print):

Wiley O'Brien

Collected

Matrix (check one)

of containers

P.O. #:

Rush?

TAT Needed?

Lab I.D.

Lab Use Only

Sample Name or Location

1) MW #1

Date

Time

GROUNDWATER

SURFACE WATER

WASTEWATER

PRODUCED WATER

DRINKING WATER

SOIL

OTHER:

No preservation

Nitric Acid

Hydrochloric Acid

Sulfuric Acid

Sodium Hydroxide

OTHER:

EPA Method 8260 (VOCs)

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

Relinquished By:

Date: 3/27/24

Received By:

Date: 3-27-24

ADDITIONAL REMARKS:

Relinquished By:

Date: 1545

Received By:

Date: 1545

Relinquished By:

Date:

Received By:

Date:

Temperature at receipt:

Checked by:

On Ice?

Therm. used:

Date:

Time:

Date:

Time:

12.3 °C

WON

Y

1545

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



SAMPLE CONDITION RECEIPT FORM

Client Name: Cottonwood ConsultingWork Order # 2403-227Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody Seals on Box/Cooler Present: ☐ Yes ☒ NoSeals Intact: ☐ Yes ☐ NoThermometer Used: #2 Samples on ice, cooling process has begun: ☒ Yes ☐ NoType of Ice: ☒ Wet ☐ Blue ☐ NoneCooler Temp: Observed Temp: 12.3 °C Correction Factor: 0 °C Final Temp: 12.3 °C

*Temp should be above freezing to 6°C

Date/Initials of person
examining contents: CDN 3/27Labeled by initials: _____
(if different than above)

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Samples arrived within hold time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Dissolved Testing Needed:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11.
Field Filtered: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Sample Labels match COC: -Includes Date/Time/ID	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Matrix:	<u>WT</u> <input checked="" type="checkbox"/> SL <input type="checkbox"/> OT	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____



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

27 June 2024

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

Enclosed are the results of analyses for samples received by the laboratory on 06/13/24 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 blue ink that reads 'Veronica J. Wells'.

Veronica Wells
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: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C24-00112

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
06/27/24 17:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #1	2406192-01	Water	06/13/24 09:25	06/13/24 15:00	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
06/27/24 17:43

MW #1

2406192-01 (Ground Water)

Sampled Date: 06/13/24 09:25

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

VOLATILES BY GC/MS

1,1,1,2-Tetrachloroethane*	<0.100	0.100	0.012	mg/L	200	06/27/24 13:02	8260B		CK
1,1,1-Trichloroethane*	<0.100	0.100	0.012	mg/L	200	06/27/24 13:02	8260B		CK
1,1,2,2-Tetrachloroethane*	<0.100	0.100	0.013	mg/L	200	06/27/24 13:02	8260B		CK
1,1,2-Trichloroethane*	<0.100	0.100	0.011	mg/L	200	06/27/24 13:02	8260B		CK
1,1-Dichloroethane*	<0.100	0.100	0.030	mg/L	200	06/27/24 13:02	8260B		CK
1,1-Dichloroethene*	<0.100	0.100	0.038	mg/L	200	06/27/24 13:02	8260B		CK
1,1-Dichloropropene*	<0.100	0.100	0.031	mg/L	200	06/27/24 13:02	8260B		CK
1,2,3-Trichlorobenzene*	<0.100	0.100	0.046	mg/L	200	06/27/24 13:02	8260B		CK
1,2,4-Trichlorobenzene*	<0.100	0.100	0.026	mg/L	200	06/27/24 13:02	8260B		CK
1,2,4-Trimethylbenzene*	0.718	0.100	0.009	mg/L	200	06/27/24 13:02	8260B		CK
1,2-Dibromo-3-chloropropane*	<0.100	0.100	0.100	mg/L	200	06/27/24 13:02	8260B		CK
1,2-Dibromoethane*	<0.100	0.100	0.018	mg/L	200	06/27/24 13:02	8260B		CK
1,2-Dichlorobenzene*	<0.100	0.100	0.014	mg/L	200	06/27/24 13:02	8260B		CK
1,2-Dichloroethane*	<0.100	0.100	0.013	mg/L	200	06/27/24 13:02	8260B		CK
1,2-Dichloropropane*	<0.100	0.100	0.017	mg/L	200	06/27/24 13:02	8260B		CK
1,3,5-Trimethylbenzene*	0.323	0.100	0.009	mg/L	200	06/27/24 13:02	8260B		CK
1,3-Dichlorobenzene*	<0.100	0.100	0.010	mg/L	200	06/27/24 13:02	8260B		CK
1,3-Dichloropropane*	<0.100	0.100	0.027	mg/L	200	06/27/24 13:02	8260B		CK
1,4-Dichlorobenzene	<0.100	0.100	0.007	mg/L	200	06/27/24 13:02	8260B		CK
1,4-Dioxane	<2.00	2.00	2.00	mg/L	200	06/27/24 13:02	8260B		CK
1,2,3-trichloropropane*	<0.100	0.100	0.024	mg/L	200	06/27/24 13:02	8260B		CK
2,2-Dichloropropane*	<0.100	0.100	0.100	mg/L	200	06/27/24 13:02	8260B		CK
2-Butanone*	<0.400	0.400	0.400	mg/L	200	06/27/24 13:02	8260B		CK
2-Chlorotoluene*	<0.100	0.100	0.008	mg/L	200	06/27/24 13:02	8260B		CK
2-Hexanone*	<0.200	0.200	0.064	mg/L	200	06/27/24 13:02	8260B		CK
4-Chlorotoluene*	<0.100	0.100	0.009	mg/L	200	06/27/24 13:02	8260B		CK
4-Methyl-2-pentanone*	<0.200	0.200	0.023	mg/L	200	06/27/24 13:02	8260B		CK
Acetone*	<2.00	2.00	0.171	mg/L	200	06/27/24 13:02	8260B		CK
Acrolein*	<1.00	1.00	0.216	mg/L	200	06/27/24 13:02	8260B		CK
Acrylonitrile*	<0.400	0.400	0.161	mg/L	200	06/27/24 13:02	8260B		CK

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
06/27/24 17:43

MW #1

2406192-01 (Ground Water)

Sampled Date: 06/13/24 09:25

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

Benzene*	0.837	0.100	0.009	mg/L	200	06/27/24 13:02	8260B		CK
Bromobenzene*	<0.100	0.100	0.012	mg/L	200	06/27/24 13:02	8260B		CK
Bromochloromethane*	<0.100	0.100	0.028	mg/L	200	06/27/24 13:02	8260B		CK
Bromodichloromethane*	<0.100	0.100	0.008	mg/L	200	06/27/24 13:02	8260B		CK
Bromoform*	<0.100	0.100	0.018	mg/L	200	06/27/24 13:02	8260B		CK
Bromomethane*	<0.100	0.100	0.100	mg/L	200	06/27/24 13:02	8260B		CK
Carbon disulfide*	<0.200	0.200	0.027	mg/L	200	06/27/24 13:02	8260B		CK
Carbon tetrachloride*	<0.100	0.100	0.032	mg/L	200	06/27/24 13:02	8260B		CK
Chlorobenzene*	<0.100	0.100	0.008	mg/L	200	06/27/24 13:02	8260B		CK
Chloroethane*	<0.100	0.100	0.100	mg/L	200	06/27/24 13:02	8260B		CK
Chloroform*	<0.100	0.100	0.003	mg/L	200	06/27/24 13:02	8260B		CK
Chloromethane*	<0.100	0.100	0.100	mg/L	200	06/27/24 13:02	8260B		CK
cis-1,2-Dichloroethene*	<0.100	0.100	0.049	mg/L	200	06/27/24 13:02	8260B		CK
cis-1,3-Dichloropropene*	<0.100	0.100	0.018	mg/L	200	06/27/24 13:02	8260B		CK
Dibromochloromethane*	<0.100	0.100	0.016	mg/L	200	06/27/24 13:02	8260B		CK
Dibromomethane*	<0.100	0.100	0.033	mg/L	200	06/27/24 13:02	8260B		CK
Dichlorodifluoromethane*	<0.100	0.100	0.100	mg/L	200	06/27/24 13:02	8260B		CK
Ethylbenzene*	0.681	0.100	0.006	mg/L	200	06/27/24 13:02	8260B		CK
Hexachlorobutadiene*	<0.200	0.200	0.100	mg/L	200	06/27/24 13:02	8260B		CK
Iodomethane	<0.200	0.200	0.013	mg/L	200	06/27/24 13:02	8260B		CK
Isopropylbenzene*	<0.100	0.100	0.004	mg/L	200	06/27/24 13:02	8260B		CK
m+p - Xylene*	4.71	0.200	0.016	mg/L	200	06/27/24 13:02	8260B		CK
Methyl tert-butyl ether	<0.200	0.200	0.049	mg/L	200	06/27/24 13:02	8260B		CK
Methylene chloride*	<0.100	0.100	0.100	mg/L	200	06/27/24 13:02	8260B		CK
Naphthalene*	0.135	0.100	0.015	mg/L	200	06/27/24 13:02	8260B		CK
n-Butylbenzene*	<0.100	0.100	0.014	mg/L	200	06/27/24 13:02	8260B		CK
n-Propylbenzene*	0.111	0.100	0.011	mg/L	200	06/27/24 13:02	8260B		CK
o-Xylene*	1.29	0.100	0.025	mg/L	200	06/27/24 13:02	8260B		CK
p-Isopropyltoluene*	<0.100	0.100	0.009	mg/L	200	06/27/24 13:02	8260B		CK
sec-Butylbenzene*	<0.100	0.100	0.009	mg/L	200	06/27/24 13:02	8260B		CK
Styrene*	<0.100	0.100	0.024	mg/L	200	06/27/24 13:02	8260B		CK
tert-Butylbenzene*	<0.100	0.100	0.014	mg/L	200	06/27/24 13:02	8260B		CK

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
06/27/24 17:43

MW #1

2406192-01 (Ground Water)

Sampled Date: 06/13/24 09:25

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

Tetrachloroethene*	<0.100	0.100	0.019	mg/L	200	06/27/24 13:02	8260B		CK
Toluene*	3.55	0.100	0.017	mg/L	200	06/27/24 13:02	8260B		CK
Total Xylenes*	6.00	0.200	0.041	mg/L	200	06/27/24 13:02	8260B		CK
trans-1,2-Dichloroethene*	<0.100	0.100	0.029	mg/L	200	06/27/24 13:02	8260B		CK
trans-1,3-Dichloropropene*	<0.100	0.100	0.010	mg/L	200	06/27/24 13:02	8260B		CK
trans-1,4-Dichloro-2-butene	<2.00	2.00	0.058	mg/L	200	06/27/24 13:02	8260B		CK
Trichloroethene*	<0.100	0.100	0.034	mg/L	200	06/27/24 13:02	8260B		CK
Trichlorofluoromethane*	<0.100	0.100	0.026	mg/L	200	06/27/24 13:02	8260B		CK
Vinyl acetate*	<0.100	0.100	0.100	mg/L	200	06/27/24 13:02	8260B		CK
Vinyl chloride*	<0.100	0.100	0.100	mg/L	200	06/27/24 13:02	8260B		CK
Surrogate: 4-Bromofluorobenzene			107 %	76.4-114		06/27/24 13:02	8260B		CK
Surrogate: Dibromofluoromethane			108 %	82.4-141		06/27/24 13:02	8260B		CK
Surrogate: Toluene-d8			98.7 %	87.1-110		06/27/24 13:02	8260B		CK

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
06/27/24 17:43

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 4061928 - Volatiles

Blank (4061928-BLK1)

Prepared: 06/19/24 Analyzed: 06/26/24

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	0.010	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	0.0233		mg/L	0.0250	93.2	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			

Green Analytical Laboratories

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
06/27/24 17:43

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 4061928 - Volatiles (Continued)

Blank (4061928-BLK1) (Continued)

Prepared: 06/19/24 Analyzed: 06/26/24

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 0.0294 mg/L 0.0250 118 82.4-141

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 tert-butyl ether	ND	0.001	mg/L							
Methylene chloride	ND	0.0005	mg/L							
Naphthalene	ND	0.0005	mg/L							
n-Butylbenzene	ND	0.0005	mg/L							
n-Propylbenzene	ND	0.0005	mg/L							
o-Xylene	ND	0.0005	mg/L							
p-Isopropyltoluene	ND	0.0005	mg/L							
sec-Butylbenzene	ND	0.0005	mg/L							
Styrene	ND	0.0005	mg/L							
tert-Butylbenzene	ND	0.0005	mg/L							
Tetrachloroethene	ND	0.0005	mg/L							
Toluene	ND	0.0005	mg/L							

Surrogate: Toluene-d8 0.0252 mg/L 0.0250 101 87.1-110

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

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
06/27/24 17:43

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 4061928 - Volatiles (Continued)

LCS (4061928-BS1)

Prepared: 06/19/24 Analyzed: 06/26/24

1,1,1,2-Tetrachloroethane	0.020	0.0005	mg/L	0.0200		102	82.4-120			
1,1,1-Trichloroethane	0.023	0.0005	mg/L	0.0200		113	80.7-121			
1,1,2,2-Tetrachloroethane	0.021	0.0005	mg/L	0.0200		105	76.5-121			
1,1,2-Trichloroethane	0.020	0.0005	mg/L	0.0200		101	81.7-118			
1,1-Dichloroethane	0.016	0.0005	mg/L	0.0200		77.6	74.8-123			
1,1-Dichloroethene	0.020	0.0005	mg/L	0.0200		100	53.9-149			
1,1-Dichloropropene	0.022	0.0005	mg/L	0.0200		111	85.9-115			
1,2,3-Trichlorobenzene	0.021	0.0005	mg/L	0.0200		107	76.1-134			
1,2,4-Trichlorobenzene	0.020	0.0005	mg/L	0.0200		98.6	72.4-136			
1,2,4-Trimethylbenzene	0.020	0.0005	mg/L	0.0200		100	67.4-138			
1,2-Dibromo-3-chloropropane	0.023	0.0005	mg/L	0.0200		115	71.7-124			
1,2-Dibromoethane	0.021	0.0005	mg/L	0.0200		103	84.9-116			
1,2-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		102	82.5-119			
1,2-Dichloroethane	0.021	0.0005	mg/L	0.0200		104	72.5-123			
1,2-Dichloropropane	0.020	0.0005	mg/L	0.0200		101	79.4-117			
1,3,5-Trimethylbenzene	0.020	0.0005	mg/L	0.0200		102	69-137			
1,3-Dichlorobenzene	0.021	0.0005	mg/L	0.0200		106	84.4-120			
1,3-Dichloropropane	0.021	0.0005	mg/L	0.0200		107	82.6-117			
1,4-Dichlorobenzene	0.019	0.0005	mg/L	0.0200		95.2	81.7-118			
1,4-Dioxane	0.361	0.010	mg/L	0.400		90.3	-34.6-193			
1,2,3-trichloropropane	0.022	0.0005	mg/L	0.0200		112	44.7-168			
2,2-Dichloropropane	0.015	0.0005	mg/L	0.0200		74.2	62.9-136			
2-Butanone	0.042	0.002	mg/L	0.0400		105	24.1-159			
2-Chlorotoluene	0.021	0.0005	mg/L	0.0200		105	80.2-121			
2-Hexanone	0.047	0.001	mg/L	0.0400		117	56.3-139			
Surrogate: 4-Bromofluorobenzene	0.0252		mg/L	0.0250		101	76.4-114			
4-Chlorotoluene	0.022	0.0005	mg/L	0.0200		110	82.2-125			
4-Methyl-2-pentanone	0.044	0.001	mg/L	0.0400		111	60.7-139			
Acetone	0.038	0.010	mg/L	0.0400		96.0	39.1-168			
Acrolein	0.251	0.005	mg/L	0.200		126	26.6-161			
Acrylonitrile	0.022	0.002	mg/L	0.0400		55.9	64.9-135			BS2
Benzene	0.020	0.0005	mg/L	0.0200		102	69.4-129			
Bromobenzene	0.020	0.0005	mg/L	0.0200		98.2	83.5-115			
Bromochloromethane	0.020	0.0005	mg/L	0.0200		97.6	70.7-123			
Bromodichloromethane	0.020	0.0005	mg/L	0.0200		102	80.3-119			
Bromoform	0.020	0.0005	mg/L	0.0200		98.4	71.1-141			
Bromomethane	0.018	0.0005	mg/L	0.0200		90.8	55.1-143			
Carbon disulfide	0.045	0.001	mg/L	0.0400		113	53.6-147			
Carbon tetrachloride	0.026	0.0005	mg/L	0.0200		128	79.5-125			BS1

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Veronica J. Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
06/27/24 17:43

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 4061928 - Volatiles (Continued)

LCS (4061928-BS1) (Continued)

Prepared: 06/19/24 Analyzed: 06/26/24

Chlorobenzene	0.021	0.0005	mg/L	0.0200		103	85.1-115			
Chloroethane	0.018	0.0005	mg/L	0.0200		92.2	36.9-159			
Chloroform	0.024	0.0005	mg/L	0.0200		122	80.9-119			BS1
Chloromethane	0.018	0.0005	mg/L	0.0200		88.7	54.2-142			
cis-1,2-Dichloroethene	0.018	0.0005	mg/L	0.0200		89.0	73.8-128			
cis-1,3-Dichloropropene	0.021	0.0005	mg/L	0.0200		107	82.5-122			
Dibromochloromethane	0.021	0.0005	mg/L	0.0200		103	83.1-124			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0272</i>		mg/L	<i>0.0250</i>		<i>109</i>	<i>82.4-141</i>			
Dibromomethane	0.020	0.0005	mg/L	0.0200		100	77-118			
Dichlorodifluoromethane	0.021	0.0005	mg/L	0.0200		106	38.7-147			
Ethylbenzene	0.021	0.0005	mg/L	0.0200		104	70.2-130			
Hexachlorobutadiene	0.022	0.0005	mg/L	0.0200		112	78.9-148			
Iodomethane	0.037	0.001	mg/L	0.0400		93.6	63.5-135			
Isopropylbenzene	0.020	0.0005	mg/L	0.0200		101	85-124			
m+p - Xylene	0.041	0.001	mg/L	0.0400		103	71.9-133			
Methyl tert-butyl ether	0.035	0.001	mg/L	0.0400		86.6	57.7-137			
Methylene chloride	0.019	0.0005	mg/L	0.0200		95.2	49.3-163			
Naphthalene	0.023	0.0005	mg/L	0.0200		114	62.1-141			
n-Butylbenzene	0.020	0.0005	mg/L	0.0200		102	75.4-132			
n-Propylbenzene	0.021	0.0005	mg/L	0.0200		106	79.6-124			
o-Xylene	0.021	0.0005	mg/L	0.0200		103	69.4-132			
p-Isopropyltoluene	0.016	0.0005	mg/L	0.0200		81.8	79.8-131			
sec-Butylbenzene	0.020	0.0005	mg/L	0.0200		98.5	77.6-133			
Styrene	0.020	0.0005	mg/L	0.0200		99.0	71.7-128			
tert-Butylbenzene	0.022	0.0005	mg/L	0.0200		109	78.8-128			
Tetrachloroethene	0.021	0.0005	mg/L	0.0200		105	74.2-128			
Toluene	0.021	0.0005	mg/L	0.0200		104	68.1-127			
<i>Surrogate: Toluene-d8</i>	<i>0.0250</i>		mg/L	<i>0.0250</i>		<i>100</i>	<i>87.1-110</i>			
Total Xylenes	0.062	0.001	mg/L	0.0600		103	71.6-132			
trans-1,2-Dichloroethene	0.019	0.0005	mg/L	0.0200		95.6	65.2-133			
trans-1,3-Dichloropropene	0.022	0.0005	mg/L	0.0200		109	84-123			
trans-1,4-Dichloro-2-butene	0.031	0.010	mg/L	0.0400		76.4	9.3-235			
Trichloroethene	0.020	0.0005	mg/L	0.0200		102	79.3-114			
Trichlorofluoromethane	0.021	0.0005	mg/L	0.0200		103	28.6-162			
Vinyl acetate	0.011	0.0005	mg/L	0.0200		57.0	50.9-135			
Vinyl chloride	0.020	0.0005	mg/L	0.0200		99.8	61.6-133			

LCS Dup (4061928-BSD1)

Prepared: 06/19/24 Analyzed: 06/26/24

1,1,1,2-Tetrachloroethane	0.020	0.0005	mg/L	0.0200		101	82.4-120	0.786	6.88	
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Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
06/27/24 17:43

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 4061928 - Volatiles (Continued)

LCS Dup (4061928-BSD1) (Continued)

Prepared: 06/19/24 Analyzed: 06/26/24

1,1,1-Trichloroethane	0.022	0.0005	mg/L	0.0200		111	80.7-121	2.01	7.43	
1,1,2,2-Tetrachloroethane	0.021	0.0005	mg/L	0.0200		106	76.5-121	0.332	8.68	
1,1,2-Trichloroethane	0.020	0.0005	mg/L	0.0200		98.8	81.7-118	2.35	6.82	
1,1-Dichloroethane	0.016	0.0005	mg/L	0.0200		78.3	74.8-123	0.962	4.3	
1,1-Dichloroethene	0.020	0.0005	mg/L	0.0200		101	53.9-149	0.993	16.5	
1,1-Dichloropropene	0.022	0.0005	mg/L	0.0200		108	85.9-115	3.06	5.47	
1,2,3-Trichlorobenzene	0.021	0.0005	mg/L	0.0200		104	76.1-134	2.33	43	
1,2,4-Trichlorobenzene	0.019	0.0005	mg/L	0.0200		94.3	72.4-136	4.46	22.3	
1,2,4-Trimethylbenzene	0.020	0.0005	mg/L	0.0200		100	67.4-138	0.0498	8.94	
1,2-Dibromo-3-chloropropane	0.022	0.0005	mg/L	0.0200		111	71.7-124	3.37	15.1	
1,2-Dibromoethane	0.021	0.0005	mg/L	0.0200		103	84.9-116	0.388	5.83	
1,2-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		99.8	82.5-119	1.69	8.72	
1,2-Dichloroethane	0.021	0.0005	mg/L	0.0200		103	72.5-123	0.922	8.94	
1,2-Dichloropropane	0.020	0.0005	mg/L	0.0200		99.8	79.4-117	0.798	5.51	
1,3,5-Trimethylbenzene	0.021	0.0005	mg/L	0.0200		103	69-137	0.975	16.5	
1,3-Dichlorobenzene	0.021	0.0005	mg/L	0.0200		104	84.4-120	2.00	9	
1,3-Dichloropropane	0.021	0.0005	mg/L	0.0200		107	82.6-117	0.468	6.06	
1,4-Dichlorobenzene	0.019	0.0005	mg/L	0.0200		94.5	81.7-118	0.685	7.71	
1,4-Dioxane	0.361	0.010	mg/L	0.400		90.3	-34.6-193	0.0692	35.2	
1,2,3-trichloropropane	0.022	0.0005	mg/L	0.0200		112	44.7-168	0.224	49.2	
2,2-Dichloropropane	0.021	0.0005	mg/L	0.0200		106	62.9-136	35.0	9.62	QR-04
2-Butanone	0.042	0.002	mg/L	0.0400		104	24.1-159	1.31	14.2	
2-Chlorotoluene	0.021	0.0005	mg/L	0.0200		104	80.2-121	0.575	8.62	
2-Hexanone	0.045	0.001	mg/L	0.0400		111	56.3-139	5.20	7.28	
Surrogate: 4-Bromofluorobenzene	0.0249		mg/L	0.0250		99.8	76.4-114			
4-Chlorotoluene	0.022	0.0005	mg/L	0.0200		110	82.2-125	0.273	15.5	
4-Methyl-2-pentanone	0.042	0.001	mg/L	0.0400		106	60.7-139	4.20	7.57	
Acetone	0.033	0.010	mg/L	0.0400		81.8	39.1-168	15.9	30.5	
Acrolein	0.205	0.005	mg/L	0.200		102	26.6-161	20.4	22.4	
Acrylonitrile	0.022	0.002	mg/L	0.0400		54.2	64.9-135	3.18	7.62	BS2
Benzene	0.020	0.0005	mg/L	0.0200		102	69.4-129	0.735	4.16	
Bromobenzene	0.020	0.0005	mg/L	0.0200		98.4	83.5-115	0.254	8.41	
Bromochloromethane	0.024	0.0005	mg/L	0.0200		122	70.7-123	22.0	5.16	QR-04
Bromodichloromethane	0.020	0.0005	mg/L	0.0200		101	80.3-119	1.08	5.36	
Bromoform	0.019	0.0005	mg/L	0.0200		95.4	71.1-141	3.04	14.1	
Bromomethane	0.019	0.0005	mg/L	0.0200		96.3	55.1-143	5.88	21.5	
Carbon disulfide	0.044	0.001	mg/L	0.0400		109	53.6-147	3.00	20.3	
Carbon tetrachloride	0.025	0.0005	mg/L	0.0200		126	79.5-125	0.827	11.4	BS1
Chlorobenzene	0.020	0.0005	mg/L	0.0200		102	85.1-115	1.46	5.18	

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Veronica J. Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
06/27/24 17:43

**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 4061928 - Volatiles (Continued)

LCS Dup (4061928-BSD1) (Continued)

Prepared: 06/19/24 Analyzed: 06/26/24

Chloroethane	0.018	0.0005	mg/L	0.0200		91.9	36.9-159	0.272	24.1	
Chloroform	0.024	0.0005	mg/L	0.0200		122	80.9-119	0.123	5.15	BS1
Chloromethane	0.020	0.0005	mg/L	0.0200		99.2	54.2-142	11.2	27	
cis-1,2-Dichloroethene	0.023	0.0005	mg/L	0.0200		113	73.8-128	23.3	5.73	QR-04
cis-1,3-Dichloropropene	0.021	0.0005	mg/L	0.0200		105	82.5-122	1.79	6.09	
Dibromochloromethane	0.020	0.0005	mg/L	0.0200		101	83.1-124	1.62	7.24	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0277</i>		mg/L	<i>0.0250</i>		<i>111</i>	<i>82.4-141</i>			
Dibromomethane	0.020	0.0005	mg/L	0.0200		98.6	77-118	1.56	5.75	
Dichlorodifluoromethane	0.021	0.0005	mg/L	0.0200		106	38.7-147	0.282	22.6	
Ethylbenzene	0.020	0.0005	mg/L	0.0200		102	70.2-130	1.84	4.83	
Hexachlorobutadiene	0.023	0.0005	mg/L	0.0200		113	78.9-148	0.842	18.4	
Iodomethane	0.036	0.001	mg/L	0.0400		89.1	63.5-135	4.90	24.3	
Isopropylbenzene	0.020	0.0005	mg/L	0.0200		98.9	85-124	1.90	6.25	
m+p - Xylene	0.040	0.001	mg/L	0.0400		99.7	71.9-133	2.87	5.77	
Methyl tert-butyl ether	0.034	0.001	mg/L	0.0400		85.3	57.7-137	1.54	12.8	
Methylene chloride	0.015	0.0005	mg/L	0.0200		76.6	49.3-163	21.6	19.7	QR-04
Naphthalene	0.022	0.0005	mg/L	0.0200		109	62.1-141	4.27	33.5	
n-Butylbenzene	0.020	0.0005	mg/L	0.0200		99.6	75.4-132	2.67	10.1	
n-Propylbenzene	0.021	0.0005	mg/L	0.0200		106	79.6-124	0.520	9.09	
o-Xylene	0.020	0.0005	mg/L	0.0200		99.1	69.4-132	3.76	6.29	
p-Isopropyltoluene	0.016	0.0005	mg/L	0.0200		81.0	79.8-131	0.983	9.26	
sec-Butylbenzene	0.019	0.0005	mg/L	0.0200		97.2	77.6-133	1.33	9.85	
Styrene	0.019	0.0005	mg/L	0.0200		96.0	71.7-128	2.97	7.55	
tert-Butylbenzene	0.022	0.0005	mg/L	0.0200		109	78.8-128	0.183	18.6	
Tetrachloroethene	0.021	0.0005	mg/L	0.0200		104	74.2-128	0.668	6.38	
Toluene	0.020	0.0005	mg/L	0.0200		102	68.1-127	1.36	5.67	
<i>Surrogate: Toluene-d8</i>	<i>0.0247</i>		mg/L	<i>0.0250</i>		<i>98.8</i>	<i>87.1-110</i>			
Total Xylenes	0.060	0.001	mg/L	0.0600		99.5	71.6-132	3.16	5.83	
trans-1,2-Dichloroethene	0.017	0.0005	mg/L	0.0200		84.5	65.2-133	12.3	19.1	
trans-1,3-Dichloropropene	0.021	0.0005	mg/L	0.0200		106	84-123	2.78	6.26	
trans-1,4-Dichloro-2-butene	0.029	0.010	mg/L	0.0400		72.3	9.3-235	5.51	92.8	
Trichloroethene	0.020	0.0005	mg/L	0.0200		101	79.3-114	0.888	4.92	
Trichlorofluoromethane	0.020	0.0005	mg/L	0.0200		102	28.6-162	1.22	19.8	
Vinyl acetate	0.011	0.0005	mg/L	0.0200		55.4	50.9-135	2.76	7.84	
Vinyl chloride	0.021	0.0005	mg/L	0.0200		106	61.6-133	6.31	23	

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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PO Box 1653
Durango CO, 81302

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

Reported:
06/27/24 17:43

Notes and Definitions

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

BS2 Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.

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 'Veronica J. Wells'.

Veronica Wells, Project Manager

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

Reported:
06/27/24 17:43

Qualifier Summary

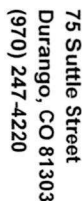
<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
4061928-BS1	Volatile 8260	Acrylonitrile	BS2	Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
4061928-BS1	Volatile 8260	Carbon tetrachloride	BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
4061928-BS1	Volatile 8260	Chloroform	BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
4061928-BSD1	Volatile 8260	2,2-Dichloropropane	QR-04	The RPD for the BS/BSD was outside of historical limits.
4061928-BSD1	Volatile 8260	Acrylonitrile	BS2	Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
4061928-BSD1	Volatile 8260	Bromochloromethane	QR-04	The RPD for the BS/BSD was outside of historical limits.
4061928-BSD1	Volatile 8260	Carbon tetrachloride	BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
4061928-BSD1	Volatile 8260	Chloroform	BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
4061928-BSD1	Volatile 8260	cis-1,2-Dichloroethene	QR-04	The RPD for the BS/BSD was outside of historical limits.
4061928-BSD1	Volatile 8260	Methylene chloride	QR-04	The RPD for the BS/BSD was outside of historical limits.

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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

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

Company or Client: Cottonwood Consulting LLC						Bill to (if different):								ANALYSIS REQUEST																
Address: PO Box 1653																														
City: Durango						State: CO Zip: 81302																								
Phone #: 970-764-7356																														
Contact Person: Kyle Slesser																														
Email Report to: kslesser@cottonwoodconsulting.com																														
Project Name(optional):						Mudge LS #006																								
Sampler Name (Print):						Kerry O'Brien																								
Lab I.D. 2406-192 Lab Use Only						Sample Name or Location						Collected		Matrix (check one)				# of containers				EPA Method 8260B (VOCs)								
												Date	Time	GROUNDWATER	SURFACE WATER	WASTEWATER	PRODUCED WATER	DRINKING WATER	SOIL	OTHER:	No preservation								Nitric Acid	Hydrochloric Acid
1) MW #1						6/13/24						0925		✓				4				✓								
2)												1205																		
3)												0925																		
4)												6.14.24																		
5)																														
6)																														
7)																														
8)																														
9)																														
10)																														
PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion of the applicable service. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																														
Relinquished By:						Date: 6/13/24						Received By:						Date: 6/13/24						ADDITIONAL REMARKS:						
Relinquished By:						Time: 1500						Received By:						Time: 1500												
Relinquished By:						Date:						Received By:						Date:						Temperature at receipt: 33.0 °C						
Relinquished By:						Time:						Received By:						Time:						Checked by: MGN						
Relinquished By:						Date:						Received By:						Date:						On Ice? Y N						
Relinquished By:						Time:						Received By:						Time:						Therm. used: 162012						



SAMPLE CONDITION RECEIPT FORM

Client Name: Cottonwood ConsultingWork Order # 2406192Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody Seals on Box/Cooler Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☐ NoThermometer Used: #2 Samples on ice, cooling process has begun: ☒ Yes ☐ NoType of Ice: ☒ Wet ☐ Blue ☐ NoneCooler Temp: Observed Temp: 33.0 °C Correction Factor: 0 °C Final Temp: 33.0 °C

*Temp should be above freezing to 6°C

Date/Initials of person
examining contents: _____Labeled by initials: _____
(if different than above)

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Samples arrived within hold time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Air bubbles in all vials
Dissolved Testing Needed:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11.
Field Filtered: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Sample Labels match COC: -Includes Date/Time/ID	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. COC "corrected" on wrong form. COC originally said 0925 which matches bottles.
Matrix:	<input checked="" type="checkbox"/> SL <input type="checkbox"/> OT	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/Resolution:

Person Contacted: KelseyDate/Time: 6/14/24 11:38Comments/Resolution: KW spoke w/K.O. She verified the correct date/time
and sent an email



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

26 September 2024

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

Enclosed are the results of analyses for samples received by the laboratory on 09/18/24 15:27. 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 'Veronica J. Wells'.

Veronica Wells
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: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C24-00112

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
09/26/24 10:16

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #1	2409218-01	Water	09/18/24 09:20	09/18/24 15:27	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
09/26/24 10:16

MW #1

2409218-01 (Ground Water)

Sampled Date: 09/18/24 09:20

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

VOLATILES BY GC/MS

1,1,1,2-Tetrachloroethane*	<0.025	0.025	0.003	mg/L	50	09/24/24 18:58	8260B		MS
1,1,1-Trichloroethane*	<0.025	0.025	0.003	mg/L	50	09/24/24 18:58	8260B		MS
1,1,2,2-Tetrachloroethane*	<0.025	0.025	0.003	mg/L	50	09/24/24 18:58	8260B		MS
1,1,2-Trichloroethane*	<0.025	0.025	0.003	mg/L	50	09/24/24 18:58	8260B		MS
1,1-Dichloroethane*	<0.025	0.025	0.008	mg/L	50	09/24/24 18:58	8260B		MS
1,1-Dichloroethene*	<0.025	0.025	0.009	mg/L	50	09/24/24 18:58	8260B		MS
1,1-Dichloropropene*	<0.025	0.025	0.008	mg/L	50	09/24/24 18:58	8260B		MS
1,2,3-Trichlorobenzene*	<0.025	0.025	0.012	mg/L	50	09/24/24 18:58	8260B		MS
1,2,4-Trichlorobenzene*	<0.025	0.025	0.006	mg/L	50	09/24/24 18:58	8260B		MS
1,2,4-Trimethylbenzene*	0.887	0.025	0.002	mg/L	50	09/24/24 18:58	8260B		MS
1,2-Dibromo-3-chloropropane*	<0.025	0.025	0.025	mg/L	50	09/24/24 18:58	8260B		MS
1,2-Dibromoethane*	<0.025	0.025	0.005	mg/L	50	09/24/24 18:58	8260B		MS
1,2-Dichlorobenzene*	<0.025	0.025	0.003	mg/L	50	09/24/24 18:58	8260B		MS
1,2-Dichloroethane*	<0.025	0.025	0.003	mg/L	50	09/24/24 18:58	8260B		MS
1,2-Dichloropropane*	<0.025	0.025	0.004	mg/L	50	09/24/24 18:58	8260B		MS
1,3,5-Trimethylbenzene*	0.391	0.025	0.002	mg/L	50	09/24/24 18:58	8260B		MS
1,3-Dichlorobenzene*	<0.025	0.025	0.002	mg/L	50	09/24/24 18:58	8260B		MS
1,3-Dichloropropane*	<0.025	0.025	0.007	mg/L	50	09/24/24 18:58	8260B		MS
1,4-Dichlorobenzene	<0.025	0.025	0.002	mg/L	50	09/24/24 18:58	8260B		MS
1,4-Dioxane	<0.500	0.500	0.500	mg/L	50	09/24/24 18:58	8260B		MS
1,2,3-trichloropropane*	<0.025	0.025	0.006	mg/L	50	09/24/24 18:58	8260B		MS
2,2-Dichloropropane*	<0.025	0.025	0.025	mg/L	50	09/24/24 18:58	8260B		MS
2-Butanone*	<0.100	0.100	0.100	mg/L	50	09/24/24 18:58	8260B		MS
2-Chlorotoluene*	<0.025	0.025	0.002	mg/L	50	09/24/24 18:58	8260B		MS
2-Hexanone*	<0.050	0.050	0.016	mg/L	50	09/24/24 18:58	8260B		MS
4-Chlorotoluene*	<0.025	0.025	0.002	mg/L	50	09/24/24 18:58	8260B		MS
4-Methyl-2-pentanone*	<0.050	0.050	0.006	mg/L	50	09/24/24 18:58	8260B		MS
Acetone*	<0.500	0.500	0.043	mg/L	50	09/24/24 18:58	8260B		MS
Acrolein*	<0.250	0.250	0.054	mg/L	50	09/24/24 18:58	8260B		MS
Acrylonitrile*	<0.100	0.100	0.040	mg/L	50	09/24/24 18:58	8260B		MS

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
09/26/24 10:16

MW #1

2409218-01 (Ground Water)

Sampled Date: 09/18/24 09:20

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

Benzene*	0.570	0.025	0.002	mg/L	50	09/24/24 18:58	8260B		MS
Bromobenzene*	<0.025	0.025	0.003	mg/L	50	09/24/24 18:58	8260B		MS
Bromochloromethane*	<0.025	0.025	0.007	mg/L	50	09/24/24 18:58	8260B		MS
Bromodichloromethane*	<0.025	0.025	0.002	mg/L	50	09/24/24 18:58	8260B		MS
Bromoform*	<0.025	0.025	0.004	mg/L	50	09/24/24 18:58	8260B		MS
Bromomethane*	<0.025	0.025	0.025	mg/L	50	09/24/24 18:58	8260B		MS
Carbon disulfide*	<0.050	0.050	0.007	mg/L	50	09/24/24 18:58	8260B		MS
Carbon tetrachloride*	<0.025	0.025	0.008	mg/L	50	09/24/24 18:58	8260B		MS
Chlorobenzene*	<0.025	0.025	0.002	mg/L	50	09/24/24 18:58	8260B		MS
Chloroethane*	<0.025	0.025	0.025	mg/L	50	09/24/24 18:58	8260B		MS
Chloroform*	<0.025	0.025	0.0008	mg/L	50	09/24/24 18:58	8260B		MS
Chloromethane*	<0.025	0.025	0.025	mg/L	50	09/24/24 18:58	8260B		MS
cis-1,2-Dichloroethene*	<0.025	0.025	0.012	mg/L	50	09/24/24 18:58	8260B		MS
cis-1,3-Dichloropropene*	<0.025	0.025	0.004	mg/L	50	09/24/24 18:58	8260B		MS
Dibromochloromethane*	<0.025	0.025	0.004	mg/L	50	09/24/24 18:58	8260B		MS
Dibromomethane*	<0.025	0.025	0.008	mg/L	50	09/24/24 18:58	8260B		MS
Dichlorodifluoromethane*	<0.025	0.025	0.025	mg/L	50	09/24/24 18:58	8260B		MS
Ethylbenzene*	0.656	0.025	0.002	mg/L	50	09/24/24 18:58	8260B		MS
Hexachlorobutadiene*	<0.025	0.025	0.025	mg/L	50	09/24/24 18:58	8260B		MS
Iodomethane	<0.050	0.050	0.003	mg/L	50	09/24/24 18:58	8260B		MS
Isopropylbenzene*	0.098	0.025	0.001	mg/L	50	09/24/24 18:58	8260B		MS
m+p - Xylene*	3.85	0.050	0.004	mg/L	50	09/24/24 18:58	8260B		MS
Methyl tert-butyl ether	<0.050	0.050	0.012	mg/L	50	09/24/24 18:58	8260B		MS
Methylene chloride*	0.051	0.025	0.025	mg/L	50	09/24/24 18:58	8260B		MS
Naphthalene*	0.075	0.025	0.004	mg/L	50	09/24/24 18:58	8260B		MS
n-Butylbenzene*	<0.025	0.025	0.003	mg/L	50	09/24/24 18:58	8260B		MS
n-Propylbenzene*	0.104	0.025	0.003	mg/L	50	09/24/24 18:58	8260B		MS
o-Xylene*	1.19	0.025	0.006	mg/L	50	09/24/24 18:58	8260B		MS
p-Isopropyltoluene*	0.092	0.025	0.002	mg/L	50	09/24/24 18:58	8260B		MS
sec-Butylbenzene*	<0.025	0.025	0.002	mg/L	50	09/24/24 18:58	8260B		MS
Styrene*	<0.025	0.025	0.006	mg/L	50	09/24/24 18:58	8260B		MS
tert-Butylbenzene*	<0.025	0.025	0.004	mg/L	50	09/24/24 18:58	8260B		MS

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
09/26/24 10:16

MW #1

2409218-01 (Ground Water)

Sampled Date: 09/18/24 09:20

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

Tetrachloroethene*	<0.025	0.025	0.005	mg/L	50	09/24/24 18:58	8260B		MS
Toluene*	1.88	0.025	0.004	mg/L	50	09/24/24 18:58	8260B		MS
Total Xylenes*	5.04	0.050	0.010	mg/L	50	09/24/24 18:58	8260B		MS
trans-1,2-Dichloroethene*	<0.025	0.025	0.007	mg/L	50	09/24/24 18:58	8260B		MS
trans-1,3-Dichloropropene*	<0.025	0.025	0.002	mg/L	50	09/24/24 18:58	8260B		MS
trans-1,4-Dichloro-2-butene	<0.500	0.500	0.014	mg/L	50	09/24/24 18:58	8260B		MS
Trichloroethene*	<0.025	0.025	0.009	mg/L	50	09/24/24 18:58	8260B		MS
Trichlorofluoromethane*	<0.025	0.025	0.007	mg/L	50	09/24/24 18:58	8260B		MS
Vinyl acetate*	<0.025	0.025	0.025	mg/L	50	09/24/24 18:58	8260B		MS
Vinyl chloride*	<0.025	0.025	0.025	mg/L	50	09/24/24 18:58	8260B		MS
Surrogate: 4-Bromofluorobenzene			102 %	76.4-114		09/24/24 18:58	8260B		MS
Surrogate: Dibromofluoromethane			105 %	82.4-141		09/24/24 18:58	8260B		MS
Surrogate: Toluene-d8			101 %	87.1-110		09/24/24 18:58	8260B		MS

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
09/26/24 10:16

VOLATILES BY GC/MS - Quality Control

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

Batch 4091935 - Volatiles

Blank (4091935-BLK1)

Prepared: 09/19/24 Analyzed: 09/24/24

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	0.010	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	0.0246		mg/L	0.0250	98.4	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

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
09/26/24 10:16

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 4091935 - Volatiles (Continued)

Blank (4091935-BLK1) (Continued)

Prepared: 09/19/24 Analyzed: 09/24/24

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 0.0254 mg/L 0.0250 102 82.4-141

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

Surrogate: Toluene-d8 0.0249 mg/L 0.0250 99.7 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

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
09/26/24 10:16

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 4091935 - Volatiles (Continued)

LCS (4091935-BS1)

Prepared: 09/19/24 Analyzed: 09/24/24

1,1,1,2-Tetrachloroethane	0.017	0.0005	mg/L	0.0200		87.2	82.4-120			
1,1,1-Trichloroethane	0.019	0.0005	mg/L	0.0200		95.6	80.7-121			
1,1,2,2-Tetrachloroethane	0.021	0.0005	mg/L	0.0200		105	76.5-121			
1,1,2-Trichloroethane	0.019	0.0005	mg/L	0.0200		93.4	81.7-118			
1,1-Dichloroethane	0.020	0.0005	mg/L	0.0200		100	74.8-123			
1,1-Dichloroethene	0.021	0.0005	mg/L	0.0200		105	53.9-149			
1,1-Dichloropropene	0.020	0.0005	mg/L	0.0200		100	85.9-115			
1,2,3-Trichlorobenzene	0.023	0.0005	mg/L	0.0200		114	76.1-134			
1,2,4-Trichlorobenzene	0.023	0.0005	mg/L	0.0200		117	72.4-136			
1,2,4-Trimethylbenzene	0.022	0.0005	mg/L	0.0200		112	67.4-138			
1,2-Dibromo-3-chloropropane	0.021	0.0005	mg/L	0.0200		106	71.7-124			
1,2-Dibromoethane	0.020	0.0005	mg/L	0.0200		100	84.9-116			
1,2-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		97.8	82.5-119			
1,2-Dichloroethane	0.018	0.0005	mg/L	0.0200		87.8	72.5-123			
1,2-Dichloropropane	0.021	0.0005	mg/L	0.0200		105	79.4-117			
1,3,5-Trimethylbenzene	0.022	0.0005	mg/L	0.0200		110	69-137			
1,3-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		97.6	84.4-120			
1,3-Dichloropropane	0.020	0.0005	mg/L	0.0200		101	82.6-117			
1,4-Dichlorobenzene	0.019	0.0005	mg/L	0.0200		96.4	81.7-118			
1,4-Dioxane	0.350	0.010	mg/L	0.400		87.4	-34.6-193			
1,2,3-trichloropropane	0.023	0.0005	mg/L	0.0200		116	44.7-168			
2,2-Dichloropropane	0.015	0.0005	mg/L	0.0200		73.0	62.9-136			
2-Butanone	0.036	0.002	mg/L	0.0400		89.1	24.1-159			
2-Chlorotoluene	0.021	0.0005	mg/L	0.0200		107	80.2-121			
2-Hexanone	0.036	0.001	mg/L	0.0400		90.8	56.3-139			
Surrogate: 4-Bromofluorobenzene	0.0251		mg/L	0.0250		101	76.4-114			
4-Chlorotoluene	0.022	0.0005	mg/L	0.0200		111	82.2-125			
4-Methyl-2-pentanone	0.041	0.001	mg/L	0.0400		103	60.7-139			
Acetone	0.045	0.010	mg/L	0.0400		112	39.1-168			
Acrolein	0.185	0.005	mg/L	0.200		92.7	26.6-161			
Acrylonitrile	0.041	0.002	mg/L	0.0400		103	64.9-135			
Benzene	0.020	0.0005	mg/L	0.0200		98.6	69.4-129			
Bromobenzene	0.020	0.0005	mg/L	0.0200		98.4	83.5-115			
Bromochloromethane	0.020	0.0005	mg/L	0.0200		101	70.7-123			
Bromodichloromethane	0.020	0.0005	mg/L	0.0200		97.7	80.3-119			
Bromoform	0.019	0.0005	mg/L	0.0200		96.8	71.1-141			
Bromomethane	0.017	0.0005	mg/L	0.0200		87.4	55.1-143			
Carbon disulfide	0.042	0.001	mg/L	0.0400		104	53.6-147			
Carbon tetrachloride	0.019	0.0005	mg/L	0.0200		93.9	79.5-125			

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
09/26/24 10:16

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 4091935 - Volatiles (Continued)

LCS (4091935-BS1) (Continued)

Prepared: 09/19/24 Analyzed: 09/24/24

Chlorobenzene	0.019	0.0005	mg/L	0.0200		95.4	85.1-115			
Chloroethane	0.019	0.0005	mg/L	0.0200		94.1	36.9-159			
Chloroform	0.018	0.0005	mg/L	0.0200		92.2	80.9-119			
Chloromethane	0.020	0.0005	mg/L	0.0200		102	54.2-142			
cis-1,2-Dichloroethene	0.020	0.0005	mg/L	0.0200		101	73.8-128			
cis-1,3-Dichloropropene	0.020	0.0005	mg/L	0.0200		102	82.5-122			
Dibromochloromethane	0.019	0.0005	mg/L	0.0200		96.8	83.1-124			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0241</i>		mg/L	<i>0.0250</i>		<i>96.4</i>	<i>82.4-141</i>			
Dibromomethane	0.019	0.0005	mg/L	0.0200		94.0	77-118			
Dichlorodifluoromethane	0.021	0.0005	mg/L	0.0200		104	38.7-147			
Ethylbenzene	0.020	0.0005	mg/L	0.0200		100	70.2-130			
Hexachlorobutadiene	0.025	0.0005	mg/L	0.0200		123	78.9-148			
Iodomethane	0.036	0.001	mg/L	0.0400		90.3	63.5-135			
Isopropylbenzene	0.020	0.0005	mg/L	0.0200		100	85-124			
m+p - Xylene	0.040	0.001	mg/L	0.0400		101	71.9-133			
Methyl tert-butyl ether	0.037	0.001	mg/L	0.0400		93.6	57.7-137			
Methylene chloride	0.021	0.0005	mg/L	0.0200		103	49.3-163			
Naphthalene	0.021	0.0005	mg/L	0.0200		105	62.1-141			
n-Butylbenzene	0.022	0.0005	mg/L	0.0200		108	75.4-132			
n-Propylbenzene	0.022	0.0005	mg/L	0.0200		111	79.6-124			
o-Xylene	0.021	0.0005	mg/L	0.0200		104	69.4-132			
p-Isopropyltoluene	0.021	0.0005	mg/L	0.0200		107	79.8-131			
sec-Butylbenzene	0.023	0.0005	mg/L	0.0200		117	77.6-133			
Styrene	0.020	0.0005	mg/L	0.0200		98.8	71.7-128			
tert-Butylbenzene	0.021	0.0005	mg/L	0.0200		106	78.8-128			
Tetrachloroethene	0.018	0.0005	mg/L	0.0200		89.8	74.2-128			
Toluene	0.018	0.0005	mg/L	0.0200		92.0	68.1-127			
<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	0.061	0.001	mg/L	0.0600		102	71.6-132			
trans-1,2-Dichloroethene	0.020	0.0005	mg/L	0.0200		98.6	65.2-133			
trans-1,3-Dichloropropene	0.021	0.0005	mg/L	0.0200		104	84-123			
trans-1,4-Dichloro-2-butene	0.069	0.010	mg/L	0.0400		172	9.3-235			
Trichloroethene	0.019	0.0005	mg/L	0.0200		95.2	79.3-114			
Trichlorofluoromethane	0.018	0.0005	mg/L	0.0200		89.2	28.6-162			
Vinyl acetate	0.013	0.0005	mg/L	0.0200		66.4	50.9-135			
Vinyl chloride	0.021	0.0005	mg/L	0.0200		106	61.6-133			

LCS Dup (4091935-BSD1)

Prepared: 09/19/24 Analyzed: 09/24/24

1,1,1,2-Tetrachloroethane	0.017	0.0005	mg/L	0.0200		85.5	82.4-120	1.97	6.88	
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Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
09/26/24 10:16

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 4091935 - Volatiles (Continued)

LCS Dup (4091935-BSD1) (Continued)

Prepared: 09/19/24 Analyzed: 09/24/24

1,1,1-Trichloroethane	0.020	0.0005	mg/L	0.0200		97.9	80.7-121	2.38	7.43	
1,1,2,2-Tetrachloroethane	0.022	0.0005	mg/L	0.0200		109	76.5-121	4.21	8.68	
1,1,2-Trichloroethane	0.019	0.0005	mg/L	0.0200		96.2	81.7-118	2.95	6.82	
1,1-Dichloroethane	0.020	0.0005	mg/L	0.0200		102	74.8-123	1.98	4.3	
1,1-Dichloroethene	0.021	0.0005	mg/L	0.0200		103	53.9-149	2.31	16.5	
1,1-Dichloropropene	0.020	0.0005	mg/L	0.0200		99.4	85.9-115	0.602	5.47	
1,2,3-Trichlorobenzene	0.022	0.0005	mg/L	0.0200		111	76.1-134	2.89	43	
1,2,4-Trichlorobenzene	0.022	0.0005	mg/L	0.0200		112	72.4-136	4.68	22.3	
1,2,4-Trimethylbenzene	0.022	0.0005	mg/L	0.0200		111	67.4-138	1.30	8.94	
1,2-Dibromo-3-chloropropane	0.020	0.0005	mg/L	0.0200		101	71.7-124	4.68	15.1	
1,2-Dibromoethane	0.020	0.0005	mg/L	0.0200		101	84.9-116	0.299	5.83	
1,2-Dichlorobenzene	0.019	0.0005	mg/L	0.0200		96.0	82.5-119	1.86	8.72	
1,2-Dichloroethane	0.018	0.0005	mg/L	0.0200		92.4	72.5-123	5.05	8.94	
1,2-Dichloropropane	0.021	0.0005	mg/L	0.0200		107	79.4-117	1.42	5.51	
1,3,5-Trimethylbenzene	0.023	0.0005	mg/L	0.0200		113	69-137	2.33	16.5	
1,3-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		100	84.4-120	2.73	9	
1,3-Dichloropropane	0.020	0.0005	mg/L	0.0200		98.6	82.6-117	2.50	6.06	
1,4-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		98.6	81.7-118	2.26	7.71	
1,4-Dioxane	0.372	0.010	mg/L	0.400		93.1	-34.6-193	6.28	35.2	
1,2,3-trichloropropane	0.024	0.0005	mg/L	0.0200		118	44.7-168	1.97	49.2	
2,2-Dichloropropane	0.015	0.0005	mg/L	0.0200		73.0	62.9-136	0.137	9.62	
2-Butanone	0.043	0.002	mg/L	0.0400		109	24.1-159	19.6	14.2	QR-04
2-Chlorotoluene	0.021	0.0005	mg/L	0.0200		104	80.2-121	2.23	8.62	
2-Hexanone	0.040	0.001	mg/L	0.0400		99.3	56.3-139	8.92	7.28	QR-04
Surrogate: 4-Bromofluorobenzene	0.0251		mg/L	0.0250		100	76.4-114			
4-Chlorotoluene	0.022	0.0005	mg/L	0.0200		110	82.2-125	0.902	15.5	
4-Methyl-2-pentanone	0.043	0.001	mg/L	0.0400		107	60.7-139	3.63	7.57	
Acetone	0.047	0.010	mg/L	0.0400		119	39.1-168	5.43	30.5	
Acrolein	0.196	0.005	mg/L	0.200		98.2	26.6-161	5.72	22.4	
Acrylonitrile	0.043	0.002	mg/L	0.0400		107	64.9-135	4.13	7.62	
Benzene	0.020	0.0005	mg/L	0.0200		101	69.4-129	2.31	4.16	
Bromobenzene	0.020	0.0005	mg/L	0.0200		98.3	83.5-115	0.102	8.41	
Bromochloromethane	0.019	0.0005	mg/L	0.0200		97.4	70.7-123	3.23	5.16	
Bromodichloromethane	0.020	0.0005	mg/L	0.0200		99.7	80.3-119	2.03	5.36	
Bromoform	0.020	0.0005	mg/L	0.0200		101	71.1-141	4.64	14.1	
Bromomethane	0.017	0.0005	mg/L	0.0200		85.0	55.1-143	2.79	21.5	
Carbon disulfide	0.042	0.001	mg/L	0.0400		105	53.6-147	0.671	20.3	
Carbon tetrachloride	0.019	0.0005	mg/L	0.0200		94.6	79.5-125	0.690	11.4	
Chlorobenzene	0.020	0.0005	mg/L	0.0200		97.6	85.1-115	2.23	5.18	

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
09/26/24 10:16

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 4091935 - Volatiles (Continued)

LCS Dup (4091935-BSD1) (Continued)

Prepared: 09/19/24 Analyzed: 09/24/24

Chloroethane	0.019	0.0005	mg/L	0.0200		95.9	36.9-159	1.89	24.1	
Chloroform	0.018	0.0005	mg/L	0.0200		90.8	80.9-119	1.48	5.15	
Chloromethane	0.020	0.0005	mg/L	0.0200		101	54.2-142	0.785	27	
cis-1,2-Dichloroethene	0.021	0.0005	mg/L	0.0200		105	73.8-128	3.15	5.73	
cis-1,3-Dichloropropene	0.021	0.0005	mg/L	0.0200		106	82.5-122	3.93	6.09	
Dibromochloromethane	0.020	0.0005	mg/L	0.0200		98.6	83.1-124	1.84	7.24	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0244</i>		mg/L	<i>0.0250</i>		<i>97.5</i>	<i>82.4-141</i>			
Dibromomethane	0.019	0.0005	mg/L	0.0200		96.8	77-118	2.88	5.75	
Dichlorodifluoromethane	0.020	0.0005	mg/L	0.0200		102	38.7-147	1.02	22.6	
Ethylbenzene	0.020	0.0005	mg/L	0.0200		99.8	70.2-130	0.200	4.83	
Hexachlorobutadiene	0.025	0.0005	mg/L	0.0200		124	78.9-148	0.731	18.4	
Iodomethane	0.036	0.001	mg/L	0.0400		90.5	63.5-135	0.249	24.3	
Isopropylbenzene	0.020	0.0005	mg/L	0.0200		100	85-124	0.0499	6.25	
m+p - Xylene	0.040	0.001	mg/L	0.0400		101	71.9-133	0.447	5.77	
Methyl tert-butyl ether	0.039	0.001	mg/L	0.0400		97.0	57.7-137	3.57	12.8	
Methylene chloride	0.021	0.0005	mg/L	0.0200		104	49.3-163	1.21	19.7	
Naphthalene	0.021	0.0005	mg/L	0.0200		105	62.1-141	0.476	33.5	
n-Butylbenzene	0.021	0.0005	mg/L	0.0200		106	75.4-132	1.35	10.1	
n-Propylbenzene	0.022	0.0005	mg/L	0.0200		112	79.6-124	0.850	9.09	
o-Xylene	0.021	0.0005	mg/L	0.0200		103	69.4-132	0.727	6.29	
p-Isopropyltoluene	0.023	0.0005	mg/L	0.0200		114	79.8-131	5.65	9.26	
sec-Butylbenzene	0.023	0.0005	mg/L	0.0200		117	77.6-133	0.384	9.85	
Styrene	0.020	0.0005	mg/L	0.0200		99.4	71.7-128	0.606	7.55	
tert-Butylbenzene	0.021	0.0005	mg/L	0.0200		106	78.8-128	0.283	18.6	
Tetrachloroethene	0.018	0.0005	mg/L	0.0200		89.1	74.2-128	0.783	6.38	
Toluene	0.019	0.0005	mg/L	0.0200		93.3	68.1-127	1.40	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	0.061	0.001	mg/L	0.0600		101	71.6-132	0.541	5.83	
trans-1,2-Dichloroethene	0.019	0.0005	mg/L	0.0200		95.4	65.2-133	3.25	19.1	
trans-1,3-Dichloropropene	0.021	0.0005	mg/L	0.0200		104	84-123	0.672	6.26	
trans-1,4-Dichloro-2-butene	0.069	0.010	mg/L	0.0400		172	9.3-235	0.218	92.8	
Trichloroethene	0.020	0.0005	mg/L	0.0200		99.8	79.3-114	4.62	4.92	
Trichlorofluoromethane	0.018	0.0005	mg/L	0.0200		89.0	28.6-162	0.224	19.8	
Vinyl acetate	0.014	0.0005	mg/L	0.0200		70.6	50.9-135	6.13	7.84	
Vinyl chloride	0.021	0.0005	mg/L	0.0200		105	61.6-133	1.14	23	

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
09/26/24 10:16

Notes and Definitions

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

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 'Veronica J. Wells'.

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
09/26/24 10:16

Qualifier Summary

<u>LabNumber</u>	<u>Analysis</u>	<u>Analyte</u>	<u>Qualifier</u>	<u>TextBody</u>
4091935-BSD1	Volatile 8260	2-Butanone	QR-04	The RPD for the BS/BSD was outside of historical limits.
4091935-BSD1	Volatile 8260	2-Hexanone	QR-04	The RPD for the BS/BSD was outside of historical limits.

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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

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

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

Company or Client: Cottonwood Consulting LLC										Bill to (if different):										ANALYSIS REQUEST									
Address: PO Box 1653																													
City: Durango										State: CO										Zip: 81302									
Phone #: 970-764-7356																													
Contact Person: Kyle Stesser																													
Email Report to: kstesser@cottonwoodconsulting.com																													
Project Name(optional):										P.O. #:																			
Mudge LS #006										Rush? <input type="checkbox"/> TAT Needed? <input type="checkbox"/>																			
Sampler Name (Print): Dylan Singer / Kelsey O'Brien																													
Lab I.D. 2404-216																													
Lab Use Only																													
Sample Name or Location										Collected																			
1) MW #1										Date 9/18/14 Time 0920										Matrix (check one) <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> SURFACE WATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> PRODUCED WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> SOIL <input type="checkbox"/> OTHER: No preservation <input type="checkbox"/> Nitric Acid <input type="checkbox"/> Hydrochloric Acid <input type="checkbox"/> Sulfuric Acid <input type="checkbox"/> Sodium Hydroxide <input type="checkbox"/> OTHER: 4									
2)																													
3)																													
4)																													
5)																													
6)																													
7)																													
8)																													
9)																													
10)																													
PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion of the applicable service. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																													
Relinquished By:										Date: 9/18/14										Received By:									
Relinquished By:										Time: 1525										Date: 9/18/14									
Relinquished By:										Time:										Time: 1527									
Relinquished By:										Date:										Date:									
Relinquished By:										Time:										Time:									
Relinquished By:										Date:										Date:									
Relinquished By:										Time:										Time:									
Relinquished By:										Received By:										Temperature at receipt: 17.8 °C									
Relinquished By:										Checked by: KPA										On Ice? <input checked="" type="checkbox"/> N									
Relinquished By:										Therm. used: Lucas																			



SAMPLE CONDITION RECEIPT FORM

Client Name: Cottonwood ConsultantsWork Order # 2409-218Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody Seals on Box/Cooler Present: ☐ Yes ☒ NoSeals Intact: ☐ Yes ☐ NoThermometer Used: 42 Samples on ice, cooling process has begun: ☒ Yes ☐ NoType of Ice: ☒ Wet ☐ Blue ☐ NoneCooler Temp: Observed Temp: 12.8 °C Correction Factor: 0 °C Final Temp: 12.8 °C

* Temp should be above freezing to 6°C

Date/Initials of person
examining contents: _____Labeled by initials: _____
(if different than above)

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Samples arrived within hold time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. <u>1 vial w/ headspace 76mm</u>
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Dissolved Testing Needed:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11.
Field Filtered: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes Date/Time/ID		
Matrix: <u>WT</u> <input checked="" type="checkbox"/> SL <input type="checkbox"/> OT		
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

Comments/Resolution: _____



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

26 December 2024

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

Enclosed are the results of analyses for samples received by the laboratory on 12/11/24 16:15. 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 'Veronica J. Wells'. The signature is written in a cursive, flowing style.

Veronica Wells
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: TX-C24-00019

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C24-00112

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
12/26/24 15:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW #1	2412123-01	Water	12/11/24 09:25	12/11/24 16:15	

Green Analytical Laboratories

A handwritten signature in blue ink that reads 'Veronica J. Wells'.

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
12/26/24 15:23

MW #1

2412123-01 (Ground Water)

Sampled Date: 12/11/24 09:25

Sampled By: Kelsey O'brien

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

VOLATILES BY GC/MS

1,1,1,2-Tetrachloroethane	<0.0005	0.0005	0.00006	mg/L	1	12/17/24 16:38	8260B		SK
1,1,1-Trichloroethane	<0.0005	0.0005	0.00006	mg/L	1	12/17/24 16:38	8260B		SK
1,1,2,2-Tetrachloroethane	<0.0005	0.0005	0.00006	mg/L	1	12/17/24 16:38	8260B		SK
1,1,2-Trichloroethane	<0.0005	0.0005	0.00006	mg/L	1	12/17/24 16:38	8260B		SK
1,1-Dichloroethane	<0.0005	0.0005	0.0002	mg/L	1	12/17/24 16:38	8260B		SK
1,1-Dichloroethene	<0.0005	0.0005	0.0002	mg/L	1	12/17/24 16:38	8260B		SK
1,1-Dichloropropene	<0.0005	0.0005	0.0002	mg/L	1	12/17/24 16:38	8260B		SK
1,2,3-Trichlorobenzene	<0.0005	0.0005	0.0002	mg/L	1	12/17/24 16:38	8260B		SK
1,2,4-Trichlorobenzene	<0.0005	0.0005	0.0001	mg/L	1	12/17/24 16:38	8260B		SK
1,2,4-Trimethylbenzene	0.909	0.010	0.0009	mg/L	20	12/23/24 15:33	8260B		SK
1,2-Dibromo-3-chloropropane	<0.0005	0.0005	0.0005	mg/L	1	12/17/24 16:38	8260B		SK
1,2-Dibromoethane	<0.0005	0.0005	0.00009	mg/L	1	12/17/24 16:38	8260B		SK
1,2-Dichlorobenzene	<0.0005	0.0005	0.00007	mg/L	1	12/17/24 16:38	8260B		SK
1,2-Dichloroethane	<0.0005	0.0005	0.00006	mg/L	1	12/17/24 16:38	8260B		SK
1,2-Dichloropropane	<0.0005	0.0005	0.00008	mg/L	1	12/17/24 16:38	8260B		SK
1,3,5-Trimethylbenzene	0.421	0.010	0.0009	mg/L	20	12/23/24 15:33	8260B		SK
1,3-Dichlorobenzene	<0.0005	0.0005	0.00005	mg/L	1	12/17/24 16:38	8260B		SK
1,3-Dichloropropane	<0.0005	0.0005	0.0001	mg/L	1	12/17/24 16:38	8260B		SK
1,4-Dichlorobenzene	<0.0005	0.0005	0.00004	mg/L	1	12/17/24 16:38	8260B		SK
1,4-Dioxane	<0.020	0.020	0.020	mg/L	1	12/17/24 16:38	8260B		SK
1,2,3-trichloropropane	<0.0005	0.0005	0.0001	mg/L	1	12/17/24 16:38	8260B		SK
2,2-Dichloropropane	<0.0005	0.0005	0.0005	mg/L	1	12/17/24 16:38	8260B		SK
2-Butanone	<0.002	0.002	0.002	mg/L	1	12/17/24 16:38	8260B		SK
2-Chlorotoluene	<0.0005	0.0005	0.00004	mg/L	1	12/17/24 16:38	8260B		SK
2-Hexanone	<0.001	0.001	0.0003	mg/L	1	12/17/24 16:38	8260B		SK
4-Chlorotoluene	<0.0005	0.0005	0.00004	mg/L	1	12/17/24 16:38	8260B		SK
4-Methyl-2-pentanone	<0.001	0.001	0.0001	mg/L	1	12/17/24 16:38	8260B		SK
Acetone	<0.010	0.010	0.0009	mg/L	1	12/17/24 16:38	8260B		SK

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
12/26/24 15:23

MW #1

2412123-01 (Ground Water)

Sampled Date: 12/11/24 09:25

Sampled By: Kelsey O'brien

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

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

VOLATILES BY GC/MS

Acrolein	<0.005	0.005	0.001	mg/L	1	12/17/24 16:38	8260B		SK
Acrylonitrile	<0.002	0.002	0.0008	mg/L	1	12/17/24 16:38	8260B		SK
Benzene	0.650	0.010	0.0009	mg/L	20	12/23/24 15:33	8260B		SK
Bromobenzene	<0.0005	0.0005	0.00006	mg/L	1	12/17/24 16:38	8260B		SK
Bromochloromethane	<0.0005	0.0005	0.0001	mg/L	1	12/17/24 16:38	8260B		SK
Bromodichloromethane	0.0006	0.0005	0.00004	mg/L	1	12/17/24 16:38	8260B		SK
Bromoform	<0.0005	0.0005	0.00009	mg/L	1	12/17/24 16:38	8260B		SK
Bromomethane	<0.0005	0.0005	0.0005	mg/L	1	12/17/24 16:38	8260B		SK
Carbon disulfide	0.002	0.001	0.0001	mg/L	1	12/17/24 16:38	8260B		SK
Carbon tetrachloride	<0.0005	0.0005	0.0002	mg/L	1	12/17/24 16:38	8260B		SK
Chlorobenzene	<0.0005	0.0005	0.00004	mg/L	1	12/17/24 16:38	8260B		SK
Chloroethane	<0.0005	0.0005	0.0005	mg/L	1	12/17/24 16:38	8260B		SK
Chloroform	<0.0005	0.0005	0.00002	mg/L	1	12/17/24 16:38	8260B		SK
Chloromethane	<0.0005	0.0005	0.0005	mg/L	1	12/17/24 16:38	8260B		SK
cis-1,2-Dichloroethene	<0.0005	0.0005	0.0002	mg/L	1	12/17/24 16:38	8260B		SK
cis-1,3-Dichloropropene	<0.0005	0.0005	0.00009	mg/L	1	12/17/24 16:38	8260B		SK
Dibromochloromethane	<0.0005	0.0005	0.00008	mg/L	1	12/17/24 16:38	8260B		SK
Dibromomethane	<0.0005	0.0005	0.0002	mg/L	1	12/17/24 16:38	8260B		SK
Dichlorodifluoromethane	<0.0005	0.0005	0.0005	mg/L	1	12/17/24 16:38	8260B		SK
Ethylbenzene	0.592	0.010	0.0006	mg/L	20	12/23/24 15:33	8260B		SK
Hexachlorobutadiene	<0.0005	0.0005	0.0005	mg/L	1	12/17/24 16:38	8260B		SK
Iodomethane	<0.001	0.001	0.00006	mg/L	1	12/17/24 16:38	8260B		SK
Isopropylbenzene	0.107	0.010	0.0004	mg/L	20	12/23/24 15:33	8260B		SK
m+p - Xylene	2.91	0.020	0.002	mg/L	20	12/23/24 15:33	8260B		SK
Methyl tert-butyl ether	<0.001	0.001	0.0002	mg/L	1	12/17/24 16:38	8260B		SK
Methylene chloride	<0.0005	0.0005	0.0005	mg/L	1	12/17/24 16:38	8260B		SK
Naphthalene	0.070	0.010	0.002	mg/L	20	12/23/24 15:33	8260B		SK
n-Butylbenzene	<0.0005	0.0005	0.00007	mg/L	1	12/17/24 16:38	8260B		SK
n-Propylbenzene	0.095	0.0005	0.00005	mg/L	1	12/17/24 16:38	8260B		SK
o-Xylene	1.06	0.010	0.003	mg/L	20	12/23/24 15:33	8260B		SK
p-Isopropyltoluene	0.065	0.010	0.0009	mg/L	20	12/23/24 15:33	8260B		SK

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
12/26/24 15:23

MW #1

2412123-01 (Ground Water)

Sampled Date: 12/11/24 09:25

Sampled By: Kelsey O'brien

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

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

VOLATILES BY GC/MS

sec-Butylbenzene	0.022	0.010	0.0009	mg/L	20	12/23/24 15:33	8260B		SK
Styrene	<0.0005	0.0005	0.0001	mg/L	1	12/17/24 16:38	8260B		SK
tert-Butylbenzene	<0.0005	0.0005	0.00007	mg/L	1	12/17/24 16:38	8260B		SK
Tetrachloroethene	<0.0005	0.0005	0.00009	mg/L	1	12/17/24 16:38	8260B		SK
Toluene	2.07	0.010	0.002	mg/L	20	12/23/24 15:33	8260B	E	SK
Total Xylenes	3.98	0.020	0.004	mg/L	20	12/23/24 15:33	8260B		SK
trans-1,2-Dichloroethene	<0.0005	0.0005	0.0001	mg/L	1	12/17/24 16:38	8260B		SK
trans-1,3-Dichloropropene	<0.0005	0.0005	0.00005	mg/L	1	12/17/24 16:38	8260B		SK
trans-1,4-Dichloro-2-butene	<0.010	0.010	0.0003	mg/L	1	12/17/24 16:38	8260B		SK
Trichloroethene	<0.0005	0.0005	0.0002	mg/L	1	12/17/24 16:38	8260B		SK
Trichlorofluoromethane	<0.0005	0.0005	0.0001	mg/L	1	12/17/24 16:38	8260B		SK
Vinyl acetate	<0.0005	0.0005	0.0005	mg/L	1	12/17/24 16:38	8260B		SK
Vinyl chloride	<0.0005	0.0005	0.0005	mg/L	1	12/17/24 16:38	8260B		SK
Surrogate: 4-Bromofluorobenzene			99.2 %	76.4-114		12/23/24 15:33	8260B		SK
Surrogate: Dibromofluoromethane			106 %	82.4-141		12/23/24 15:33	8260B		SK
Surrogate: Toluene-d8			96.6 %	87.1-110		12/23/24 15:33	8260B		SK

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
12/26/24 15:23

VOLATILES BY GC/MS - Quality Control

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

Batch 4121709 - Volatiles

Blank (4121709-BLK1)

Prepared & Analyzed: 12/17/24

1,1,1,2-Tetrachloroethane	ND	0.0005	mg/L
1,1,1-Trichloroethane	ND	0.0005	mg/L
1,1,2,2-Tetrachloroethane	ND	0.0005	mg/L
1,1,2-Trichloroethane	ND	0.0005	mg/L
1,1-Dichloroethane	ND	0.0005	mg/L
1,1-Dichloroethene	ND	0.0005	mg/L
1,1-Dichloropropene	ND	0.0005	mg/L
1,2,3-Trichlorobenzene	ND	0.0005	mg/L
1,2,4-Trichlorobenzene	ND	0.0005	mg/L
1,2,4-Trimethylbenzene	ND	0.0005	mg/L
1,2-Dibromo-3-chloropropane	ND	0.0005	mg/L
1,2-Dibromoethane	ND	0.0005	mg/L
1,2-Dichlorobenzene	ND	0.0005	mg/L
1,2-Dichloroethane	ND	0.0005	mg/L
1,2-Dichloropropane	ND	0.0005	mg/L
1,3,5-Trimethylbenzene	ND	0.0005	mg/L
1,3-Dichlorobenzene	ND	0.0005	mg/L
1,3-Dichloropropane	ND	0.0005	mg/L
1,4-Dichlorobenzene	ND	0.0005	mg/L
1,4-Dioxane	ND	0.020	mg/L
1,2,3-trichloropropane	ND	0.0005	mg/L
2,2-Dichloropropane	ND	0.0005	mg/L
2-Butanone	ND	0.002	mg/L
2-Chlorotoluene	ND	0.0005	mg/L
2-Hexanone	ND	0.001	mg/L

Surrogate: 4-Bromofluorobenzene	0.0466		mg/L	0.0500	93.3	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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Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
12/26/24 15:23

**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 4121709 - Volatiles (Continued)

Blank (4121709-BLK1) (Continued)

Prepared & Analyzed: 12/17/24

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 0.0528 mg/L 0.0500 106 82.4-141

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

Surrogate: Toluene-d8 0.0489 mg/L 0.0500 97.7 87.1-110

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

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Veronica J. Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
12/26/24 15:23

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 4121709 - Volatiles (Continued)

LCS (4121709-BS1)

Prepared & Analyzed: 12/17/24

1,1,1,2-Tetrachloroethane	0.020	0.0005	mg/L	0.0200		99.0	82.4-120			
1,1,1-Trichloroethane	0.021	0.0005	mg/L	0.0200		107	80.7-121			
1,1,2,2-Tetrachloroethane	0.014	0.0005	mg/L	0.0200		69.8	76.5-121			BS2
1,1,2-Trichloroethane	0.020	0.0005	mg/L	0.0200		98.6	81.7-118			
1,1-Dichloroethane	0.021	0.0005	mg/L	0.0200		103	74.8-123			
1,1-Dichloroethene	0.022	0.0005	mg/L	0.0200		109	53.9-149			
1,1-Dichloropropene	0.020	0.0005	mg/L	0.0200		98.4	85.9-115			
1,2,3-Trichlorobenzene	0.022	0.0005	mg/L	0.0200		112	76.1-134			
1,2,4-Trichlorobenzene	0.024	0.0005	mg/L	0.0200		118	72.4-136			
1,2,4-Trimethylbenzene	0.021	0.0005	mg/L	0.0200		106	67.4-138			
1,2-Dibromo-3-chloropropane	0.013	0.0005	mg/L	0.0200		66.0	71.7-124			BS2
1,2-Dibromoethane	0.017	0.0005	mg/L	0.0200		85.2	84.9-116			
1,2-Dichlorobenzene	0.019	0.0005	mg/L	0.0200		97.2	82.5-119			
1,2-Dichloroethane	0.022	0.0005	mg/L	0.0200		108	72.5-123			
1,2-Dichloropropane	0.019	0.0005	mg/L	0.0200		93.6	79.4-117			
1,3,5-Trimethylbenzene	0.021	0.0005	mg/L	0.0200		106	69-137			
1,3-Dichlorobenzene	0.022	0.0005	mg/L	0.0200		108	84.4-120			
1,3-Dichloropropane	0.017	0.0005	mg/L	0.0200		85.0	82.6-117			
1,4-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		102	81.7-118			
1,4-Dioxane	1.15	0.020	mg/L	2.00		57.4	-34.6-193			
1,2,3-trichloropropane	0.015	0.0005	mg/L	0.0200		73.8	44.7-168			
2,2-Dichloropropane	0.023	0.0005	mg/L	0.0200		114	62.9-136			
2-Butanone	0.040	0.002	mg/L	0.0400		99.1	24.1-159			
2-Chlorotoluene	0.019	0.0005	mg/L	0.0200		96.4	80.2-121			
2-Hexanone	0.022	0.001	mg/L	0.0400		56.0	56.3-139			BS2
Surrogate: 4-Bromofluorobenzene	0.0474		mg/L	0.0500		94.8	76.4-114			
4-Chlorotoluene	0.020	0.0005	mg/L	0.0200		99.7	82.2-125			
4-Methyl-2-pentanone	0.026	0.001	mg/L	0.0400		64.0	60.7-139			
Acetone	0.071	0.010	mg/L	0.0400		178	39.1-168			BS1
Acrolein	0.243	0.005	mg/L	0.200		121	26.6-161			
Acrylonitrile	0.040	0.002	mg/L	0.0400		99.8	64.9-135			
Benzene	0.019	0.0005	mg/L	0.0200		95.5	69.4-129			
Bromobenzene	0.020	0.0005	mg/L	0.0200		101	83.5-115			
Bromochloromethane	0.020	0.0005	mg/L	0.0200		97.5	70.7-123			
Bromodichloromethane	0.020	0.0005	mg/L	0.0200		102	80.3-119			
Bromoform	0.018	0.0005	mg/L	0.0200		91.9	71.1-141			
Bromomethane	0.021	0.0005	mg/L	0.0200		106	55.1-143			
Carbon disulfide	0.061	0.001	mg/L	0.0400		153	53.6-147			BS1
Carbon tetrachloride	0.022	0.0005	mg/L	0.0200		108	79.5-125			

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Veronica J. Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
12/26/24 15:23

**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 4121709 - Volatiles (Continued)

LCS (4121709-BS1) (Continued)

Prepared & Analyzed: 12/17/24

Chlorobenzene	0.020	0.0005	mg/L	0.0200		100	85.1-115			
Chloroethane	0.021	0.0005	mg/L	0.0200		103	36.9-159			
Chloroform	0.019	0.0005	mg/L	0.0200		93.6	80.9-119			
Chloromethane	0.018	0.0005	mg/L	0.0200		89.8	54.2-142			
cis-1,2-Dichloroethene	0.021	0.0005	mg/L	0.0200		103	73.8-128			
cis-1,3-Dichloropropene	0.020	0.0005	mg/L	0.0200		102	82.5-122			
Dibromochloromethane	0.020	0.0005	mg/L	0.0200		98.8	83.1-124			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0514</i>		mg/L	<i>0.0500</i>		<i>103</i>	<i>82.4-141</i>			
Dibromomethane	0.019	0.0005	mg/L	0.0200		96.2	77-118			
Dichlorodifluoromethane	0.022	0.0005	mg/L	0.0200		108	38.7-147			
Ethylbenzene	0.019	0.0005	mg/L	0.0200		95.2	70.2-130			
Hexachlorobutadiene	0.024	0.0005	mg/L	0.0200		122	78.9-148			
Iodomethane	0.043	0.001	mg/L	0.0400		108	63.5-135			
Isopropylbenzene	0.020	0.0005	mg/L	0.0200		102	85-124			
m+p - Xylene	0.039	0.001	mg/L	0.0400		98.7	71.9-133			
Methyl tert-butyl ether	0.037	0.001	mg/L	0.0400		93.3	57.7-137			
Methylene chloride	0.024	0.0005	mg/L	0.0200		122	49.3-163			
Naphthalene	0.017	0.0005	mg/L	0.0200		84.4	62.1-141			
n-Butylbenzene	0.024	0.0005	mg/L	0.0200		118	75.4-132			
n-Propylbenzene	0.021	0.0005	mg/L	0.0200		105	79.6-124			
o-Xylene	0.019	0.0005	mg/L	0.0200		97.2	69.4-132			
p-Isopropyltoluene	0.022	0.0005	mg/L	0.0200		109	79.8-131			
sec-Butylbenzene	0.022	0.0005	mg/L	0.0200		108	77.6-133			
Styrene	0.019	0.0005	mg/L	0.0200		93.1	71.7-128			
tert-Butylbenzene	0.021	0.0005	mg/L	0.0200		103	78.8-128			
Tetrachloroethene	0.019	0.0005	mg/L	0.0200		96.2	74.2-128			
Toluene	0.018	0.0005	mg/L	0.0200		91.4	68.1-127			
<i>Surrogate: Toluene-d8</i>	<i>0.0500</i>		mg/L	<i>0.0500</i>		<i>100</i>	<i>87.1-110</i>			
Total Xylenes	0.059	0.001	mg/L	0.0600		98.2	71.6-132			
trans-1,2-Dichloroethene	0.021	0.0005	mg/L	0.0200		103	65.2-133			
trans-1,3-Dichloropropene	0.020	0.0005	mg/L	0.0200		98.8	84-123			
trans-1,4-Dichloro-2-butene	0.044	0.010	mg/L	0.0400		111	9.3-235			
Trichloroethene	0.019	0.0005	mg/L	0.0200		92.6	79.3-114			
Trichlorofluoromethane	0.023	0.0005	mg/L	0.0200		114	28.6-162			
Vinyl acetate	0.019	0.0005	mg/L	0.0200		93.4	50.9-135			
Vinyl chloride	0.021	0.0005	mg/L	0.0200		106	61.6-133			

LCS Dup (4121709-BSD1)

Prepared & Analyzed: 12/17/24

1,1,1,2-Tetrachloroethane	0.020	0.0005	mg/L	0.0200		97.9	82.4-120	1.07	6.88	
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Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
12/26/24 15:23

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 4121709 - Volatiles (Continued)

LCS Dup (4121709-BSD1) (Continued)

Prepared & Analyzed: 12/17/24

1,1,1-Trichloroethane	0.020	0.0005	mg/L	0.0200		101	80.7-121	5.40	7.43	
1,1,2,2-Tetrachloroethane	0.018	0.0005	mg/L	0.0200		87.6	76.5-121	22.7	8.68	QR-04
1,1,2-Trichloroethane	0.020	0.0005	mg/L	0.0200		99.6	81.7-118	1.11	6.82	
1,1-Dichloroethane	0.020	0.0005	mg/L	0.0200		98.0	74.8-123	4.68	4.3	QR-04
1,1-Dichloroethene	0.020	0.0005	mg/L	0.0200		101	53.9-149	8.38	16.5	
1,1-Dichloropropene	0.019	0.0005	mg/L	0.0200		94.4	85.9-115	4.15	5.47	
1,2,3-Trichlorobenzene	0.025	0.0005	mg/L	0.0200		124	76.1-134	9.45	43	
1,2,4-Trichlorobenzene	0.022	0.0005	mg/L	0.0200		112	72.4-136	4.86	22.3	
1,2,4-Trimethylbenzene	0.020	0.0005	mg/L	0.0200		101	67.4-138	5.51	8.94	
1,2-Dibromo-3-chloropropane	0.021	0.0005	mg/L	0.0200		104	71.7-124	44.3	15.1	QR-04
1,2-Dibromoethane	0.019	0.0005	mg/L	0.0200		96.8	84.9-116	12.8	5.83	QR-04
1,2-Dichlorobenzene	0.018	0.0005	mg/L	0.0200		92.5	82.5-119	4.96	8.72	
1,2-Dichloroethane	0.022	0.0005	mg/L	0.0200		112	72.5-123	3.59	8.94	
1,2-Dichloropropane	0.018	0.0005	mg/L	0.0200		89.4	79.4-117	4.65	5.51	
1,3,5-Trimethylbenzene	0.021	0.0005	mg/L	0.0200		104	69-137	1.95	16.5	
1,3-Dichlorobenzene	0.021	0.0005	mg/L	0.0200		103	84.4-120	4.26	9	
1,3-Dichloropropane	0.018	0.0005	mg/L	0.0200		89.8	82.6-117	5.55	6.06	
1,4-Dichlorobenzene	0.020	0.0005	mg/L	0.0200		100	81.7-118	1.53	7.71	
1,4-Dioxane	1.30	0.020	mg/L	2.00		64.9	-34.6-193	12.3	35.2	
1,2,3-trichloropropane	0.018	0.0005	mg/L	0.0200		90.2	44.7-168	19.9	49.2	
2,2-Dichloropropane	0.021	0.0005	mg/L	0.0200		107	62.9-136	6.92	9.62	
2-Butanone	0.049	0.002	mg/L	0.0400		123	24.1-159	21.5	14.2	QR-04
2-Chlorotoluene	0.018	0.0005	mg/L	0.0200		88.8	80.2-121	8.26	8.62	
2-Hexanone	0.038	0.001	mg/L	0.0400		94.6	56.3-139	51.3	7.28	QR-04
Surrogate: 4-Bromofluorobenzene	0.0473		mg/L	0.0500		94.6	76.4-114			
4-Chlorotoluene	0.019	0.0005	mg/L	0.0200		93.8	82.2-125	6.15	15.5	
4-Methyl-2-pentanone	0.041	0.001	mg/L	0.0400		103	60.7-139	46.6	7.57	QR-04
Acetone	0.073	0.010	mg/L	0.0400		181	39.1-168	2.13	30.5	BS1
Acrolein	0.278	0.005	mg/L	0.200		139	26.6-161	13.4	22.4	
Acrylonitrile	0.050	0.002	mg/L	0.0400		126	64.9-135	23.2	7.62	QR-04
Benzene	0.020	0.0005	mg/L	0.0200		97.9	69.4-129	2.48	4.16	
Bromobenzene	0.021	0.0005	mg/L	0.0200		104	83.5-115	2.97	8.41	
Bromochloromethane	0.019	0.0005	mg/L	0.0200		97.0	70.7-123	0.463	5.16	
Bromodichloromethane	0.020	0.0005	mg/L	0.0200		98.1	80.3-119	3.41	5.36	
Bromoform	0.020	0.0005	mg/L	0.0200		102	71.1-141	10.9	14.1	
Bromomethane	0.020	0.0005	mg/L	0.0200		97.6	55.1-143	8.53	21.5	
Carbon disulfide	0.051	0.001	mg/L	0.0400		128	53.6-147	18.2	20.3	
Carbon tetrachloride	0.020	0.0005	mg/L	0.0200		99.6	79.5-125	8.13	11.4	
Chlorobenzene	0.019	0.0005	mg/L	0.0200		95.8	85.1-115	4.69	5.18	

Green Analytical Laboratories

Veronica J Wells

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
12/26/24 15:23

**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 4121709 - Volatiles (Continued)

LCS Dup (4121709-BSD1) (Continued)

Prepared & Analyzed: 12/17/24

Chloroethane	0.018	0.0005	mg/L	0.0200		88.8	36.9-159	14.5	24.1	
Chloroform	0.019	0.0005	mg/L	0.0200		97.2	80.9-119	3.83	5.15	
Chloromethane	0.018	0.0005	mg/L	0.0200		90.6	54.2-142	0.776	27	
cis-1,2-Dichloroethene	0.021	0.0005	mg/L	0.0200		105	73.8-128	1.98	5.73	
cis-1,3-Dichloropropene	0.019	0.0005	mg/L	0.0200		96.9	82.5-122	5.67	6.09	
Dibromochloromethane	0.020	0.0005	mg/L	0.0200		101	83.1-124	2.40	7.24	
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0529</i>		mg/L	<i>0.0500</i>		<i>106</i>	<i>82.4-141</i>			
Dibromomethane	0.021	0.0005	mg/L	0.0200		104	77-118	7.65	5.75	QR-04
Dichlorodifluoromethane	0.020	0.0005	mg/L	0.0200		101	38.7-147	6.83	22.6	
Ethylbenzene	0.018	0.0005	mg/L	0.0200		92.3	70.2-130	3.09	4.83	
Hexachlorobutadiene	0.023	0.0005	mg/L	0.0200		115	78.9-148	6.17	18.4	
Iodomethane	0.041	0.001	mg/L	0.0400		103	63.5-135	4.77	24.3	
Isopropylbenzene	0.020	0.0005	mg/L	0.0200		101	85-124	0.591	6.25	
m+p - Xylene	0.039	0.001	mg/L	0.0400		97.7	71.9-133	1.02	5.77	
Methyl tert-butyl ether	0.042	0.001	mg/L	0.0400		105	57.7-137	12.1	12.8	
Methylene chloride	0.022	0.0005	mg/L	0.0200		111	49.3-163	9.04	19.7	
Naphthalene	0.021	0.0005	mg/L	0.0200		106	62.1-141	23.1	33.5	
n-Butylbenzene	0.024	0.0005	mg/L	0.0200		118	75.4-132	0.0424	10.1	
n-Propylbenzene	0.020	0.0005	mg/L	0.0200		99.4	79.6-124	5.62	9.09	
o-Xylene	0.019	0.0005	mg/L	0.0200		96.7	69.4-132	0.464	6.29	
p-Isopropyltoluene	0.021	0.0005	mg/L	0.0200		105	79.8-131	4.35	9.26	
sec-Butylbenzene	0.019	0.0005	mg/L	0.0200		97.2	77.6-133	11.0	9.85	QR-04
Styrene	0.018	0.0005	mg/L	0.0200		87.6	71.7-128	6.03	7.55	
tert-Butylbenzene	0.020	0.0005	mg/L	0.0200		97.5	78.8-128	5.29	18.6	
Tetrachloroethene	0.020	0.0005	mg/L	0.0200		98.3	74.2-128	2.16	6.38	
Toluene	0.018	0.0005	mg/L	0.0200		89.1	68.1-127	2.60	5.67	
<i>Surrogate: Toluene-d8</i>	<i>0.0501</i>		mg/L	<i>0.0500</i>		<i>100</i>	<i>87.1-110</i>			
Total Xylenes	0.058	0.001	mg/L	0.0600		97.4	71.6-132	0.835	5.83	
trans-1,2-Dichloroethene	0.019	0.0005	mg/L	0.0200		93.9	65.2-133	8.81	19.1	
trans-1,3-Dichloropropene	0.021	0.0005	mg/L	0.0200		103	84-123	4.21	6.26	
trans-1,4-Dichloro-2-butene	0.045	0.010	mg/L	0.0400		112	9.3-235	0.808	92.8	
Trichloroethene	0.020	0.0005	mg/L	0.0200		99.8	79.3-114	7.43	4.92	QR-04
Trichlorofluoromethane	0.020	0.0005	mg/L	0.0200		101	28.6-162	11.9	19.8	
Vinyl acetate	0.023	0.0005	mg/L	0.0200		113	50.9-135	18.7	7.84	QR-04
Vinyl chloride	0.019	0.0005	mg/L	0.0200		94.6	61.6-133	11.8	23	

Green Analytical Laboratories

Veronica J. Wells

Veronica Wells, Project Manager

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



Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
12/26/24 15:23

Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
BS2	Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
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 'Veronica J. Wells'.

Veronica Wells, Project Manager

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Cottonwood Consulting
PO Box 1653
Durango CO, 81302

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

Reported:
12/26/24 15:23

Qualifier Summary

LabNumber	Analysis	Analyte	Qualifier	TextBody
4121709-BS1	Volatile 8260	1,1,2,2-Tetrachloroethane	BS2	Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
4121709-BS1	Volatile 8260	1,2-Dibromo-3-chloropropane	BS2	Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
4121709-BS1	Volatile 8260	2-Hexanone	BS2	Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
4121709-BS1	Volatile 8260	Acetone	BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
4121709-BS1	Volatile 8260	Carbon disulfide	BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
4121709-BSD1	Volatile 8260	1,1,2,2-Tetrachloroethane	QR-04	The RPD for the BS/BSD was outside of historical limits.
4121709-BSD1	Volatile 8260	1,1-Dichloroethane	QR-04	The RPD for the BS/BSD was outside of historical limits.
4121709-BSD1	Volatile 8260	1,2-Dibromo-3-chloropropane	QR-04	The RPD for the BS/BSD was outside of historical limits.
4121709-BSD1	Volatile 8260	1,2-Dibromoethane	QR-04	The RPD for the BS/BSD was outside of historical limits.
4121709-BSD1	Volatile 8260	2-Butanone	QR-04	The RPD for the BS/BSD was outside of historical limits.
4121709-BSD1	Volatile 8260	2-Hexanone	QR-04	The RPD for the BS/BSD was outside of historical limits.
4121709-BSD1	Volatile 8260	4-Methyl-2-pentanone	QR-04	The RPD for the BS/BSD was outside of historical limits.
4121709-BSD1	Volatile 8260	Acetone	BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
4121709-BSD1	Volatile 8260	Acrylonitrile	QR-04	The RPD for the BS/BSD was outside of historical limits.
4121709-BSD1	Volatile 8260	Dibromomethane	QR-04	The RPD for the BS/BSD was outside of historical limits.
4121709-BSD1	Volatile 8260	sec-Butylbenzene	QR-04	The RPD for the BS/BSD was outside of historical limits.
4121709-BSD1	Volatile 8260	Trichloroethene	QR-04	The RPD for the BS/BSD was outside of historical limits.
4121709-BSD1	Volatile 8260	Vinyl acetate	QR-04	The RPD for the BS/BSD was outside of historical limits.
2412123-01	Volatile 8260	Toluene	E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).

Green Analytical Laboratories

Veronica Wells, Project Manager

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

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

Company or Client: Cottonwood Consulting LLC

Address: PO Box 1653

City: Durango

State: CO Zip: 81302

Phone #: 970-764-7356

Contact Person: Kyle Siesser

Email Report to: ksiesser@cottonwoodconsulting.com

Project Name(optional):

Mudge LS #006

Sampler Name (Print): Kelsey O'Brien

Bill to (if different):

ANALYSIS REQUEST

P.O. #:

Rush?

Y ☐ N ☐

TAT Needed?

Matrix (check one)

of containers

Lab I.D.

2412-123

Lab Use Only

Sample Name or Location

Collected

Date

Time

61

1) MW #1

2) 12/11/24

6925

Y

GROUNDWATER
SURFACE WATER
WASTEWATER
PRODUCED WATER
DRINKING WATER
SOIL
OTHER:
No preservation
Nitric Acid
Hydrochloric Acid
Sulfuric Acid
Sodium Hydroxide
OTHER:

EPA Method 8260 (VOCs)

Y

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

Relinquished By:

Date: 12/11/24

Time: 16:15

Received By:

Date: 12/12/24

Time: 16:15

Temperature at receipt:

8.4 °C

Checked by:

On Ice? N

Therm. used:

Relinquished By:

Date: 12/11/24

Time: 16:15

Received By:

Date: 12/12/24

Time: 16:15

Temperature at receipt:

8.4 °C

Checked by:

On Ice? N

Therm. used:

Relinquished By:

Date: 12/11/24

Time: 16:15

Received By:

Date: 12/12/24

Time: 16:15

Temperature at receipt:

8.4 °C

Checked by:

On Ice? N

Therm. used:

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



Table of Contents

Date/Initials of person
examining contents: 12-11-21Labeled by initials: _____
(if different than above)

SAMPLE CONDITION RECEIPT FORM

Client Name: Cottonwood ConsultingWork Order # 2412-123Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Kangaroo ☐ Third Party ☐ OtherCustody Seals on Box/Cooler Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☐ No GAL Cooler #: _____Thermometer Used: #2 Samples on ice, cooling process has begun: ☒ Yes ☐ NoType of Ice: ☒ Wet ☐ Blue ☐ None Cooler Temp: Observed Temp: 8.4°C Correction Factor: 0°C Final Temp: 8.4°C

*Temp should be above freezing 6°C

Compliance: ☐ Yes ☒ No

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

Client Notification/Resolution:

Person Contacted: _____

Date/Time: _____

 Comments/Resolution: _____

COTTONWOOD CONSULTING LLC

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : SIMCOE LLC

MUDGE LS #6
 Unit M Sec 11 T31N R11W

LABORATORY (S) USED :

GAL

Date :

DS 3/27/24

DEVELOPER / SAMPLER :

DS/KO

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	-	-	23.21	26.30	0920	7.29	4.26	12.7	3
2	100.50	-	23.92	32.36	Screened interval crimped/damaged approx 20.80 ft from top				
9	-	-	13.10	21.65	-	-	-	-	-

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

Ideally a minimum of three (3) wellbore volumes:

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

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

Comments or note well diameter if not standard 2".

Strong industrial odor when well #2 was opened

Top of casing MW #1 ~ 2.20 ft., MW #2 ~ 2.40 ft., MW #9 ~ 2.00 ft. above grade.

on-site	<u>0745</u>	temp	<u>40°F</u>
off-site	<u>0930</u>	temp	<u>40°F</u>
sky cond.	<u>clear</u>		
wind speed	<u>5-10</u>	direct.	<u>W</u>

COTTONWOOD CONSULTING LLC

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : SIMCOE LLC

MUDGE LS #6
 Unit M Sec 11 T31N R11W

LABORATORY (S) USED :

GAL

Date :

6/13/24

DEVELOPER / SAMPLER :

DS/KO

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	-	-	<u>22.40</u>	26.30	<u>0925</u>	<u>6.62</u>	<u>3730</u>	<u>20.2</u>	<u>1.9</u>
2	100.50	-	<u>23.14</u>	32.36	<u>Screened interval crimped/damaged approx 20.80 ft from top</u>				
9	-	-	<u>14.20</u>	21.65	-	-	-	-	-

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

Ideally a minimum of three (3) wellbore volumes:

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

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

Comments or note well diameter if not standard 2".

Top of casing MW #1 ~ 2.20 ft. , MW #2 ~ 2.40 ft. , MW #9 ~ 2.00 ft. above grade .

on-site		temp	
off-site		temp	
sky cond.			
wind speed		direct.	

COTTONWOOD CONSULTING LLC

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : SIMCOE LLC

MUDGE LS #6

Unit M Sec 11 T31N R11W

LABORATORY (S) USED : GAL

Date : 9/18/24

DEVELOPER / SAMPLER : YD / DS

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	-	-	22.32	26.30	0920	7.10	4.35	14.7	2
2	100.50	- 23.01	22.32	32.36	Screened interval crimped/damaged approx 20.80 ft from top				
9	-	-	13.77	21.65	-	-	-	-	-

NOTES : Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).
(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

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

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

Comments or note well diameter if not standard 2".

Top of casing MW #1 ~ 2.20 ft. , MW #2 ~ 2.40 ft. , MW #9 ~ 2.00 ft. above grade .

on-site		temp	
off-site		temp	
sky cond.			
wind speed		direct.	

COTTONWOOD CONSULTING LLC

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : SIMCOE LLC

MUDGE LS #6
 Unit M Sec 11 T31N R11W

LABORATORY (S) USED :

GAL

Date :

12/11/24

DEVELOPER / SAMPLER :

DS/KG

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	-	-	<u>22.22</u>	26.30	<u>0925</u>	<u>7.88</u>	<u>4.18</u>	<u>12.1</u>	<u>1.99</u>
2	100.50	-	<u>23.01</u>	32.36	<u>Screened interval crimped/damaged approx 20.80 ft from top</u>				
9	-	-	<u>13.81</u>	21.65	-	-	-	-	-

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

Ideally a minimum of three (3) wellbore volumes:

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

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

Comments or note well diameter if not standard 2".

Top of casing MW # 1 ~ 2.20 ft. , MW # 2 ~ 2.40 ft. , MW # 9 ~ 2.00 ft. above grade .

on-site	temp	
off-site	temp	
sky cond.		
wind speed	direct.	

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

General Information
Phone: (505) 629-6116

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

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

CONDITIONS

Action 415791

CONDITIONS

Operator: SIMCOE LLC 1199 Main Ave., Suite 101 Durango, CO 81301	OGRID: 329736
	Action Number: 415791
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Mudge LS #006 Groundwater Monitoring Lab Results and associated field forms for the site are accepted for the incident record. App ID: 415791	1/9/2025