

## Crestone Peak Resources

Sample Delivery Group: L899633  
Samples Received: 03/31/2017  
Project Number:  
Description: Moser 1  
Site: MOSER 1  
Report To: David Tewkesbury  
10188 E. Interstate 25 Frontage Rd.  
Firestone, CO 80504

Entire Report Reviewed By:



Shane Gambill  
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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## MW-01R L899633-01 GW

			Collected by David Tewkesbury	Collected date/time 03/29/17 14:30	Received date/time 03/31/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG967292	1	04/07/17 09:22	04/07/17 09:22	ACG

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

## MW-02R L899633-02 GW

			Collected by David Tewkesbury	Collected date/time 03/29/17 14:50	Received date/time 03/31/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG967292	1	04/07/17 09:35	04/07/17 09:35	ACG

## MW-03R L899633-03 GW

			Collected by David Tewkesbury	Collected date/time 03/29/17 15:10	Received date/time 03/31/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG967292	1	04/07/17 09:49	04/07/17 09:49	ACG

## MW-04R L899633-04 GW

			Collected by David Tewkesbury	Collected date/time 03/29/17 15:30	Received date/time 03/31/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG967292	1	04/07/17 10:03	04/07/17 10:03	ACG

## MW-05R L899633-05 GW

			Collected by David Tewkesbury	Collected date/time 03/29/17 15:50	Received date/time 03/31/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG967292	1	04/07/17 10:16	04/07/17 10:16	ACG

## MW-06R L899633-06 GW

			Collected by David Tewkesbury	Collected date/time 03/29/17 16:10	Received date/time 03/31/17 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG967292	25	04/07/17 10:29	04/07/17 10:29	ACG



All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Shane Gambill  
Technical Service Representative

### Sample Handling and Receiving

VOC pH outside of method requirement.

ESC Sample ID	Project Sample ID	Method
<a href="#">L899633-01</a>	<a href="#">MW-01R</a>	8260B
<a href="#">L899633-02</a>	<a href="#">MW-02R</a>	8260B
<a href="#">L899633-05</a>	<a href="#">MW-05R</a>	8260B
<a href="#">L899633-06</a>	<a href="#">MW-06R</a>	8260B

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0227		0.00100	1	04/07/2017 09:22	<a href="#">WG967292</a>
Toluene	ND		0.00100	1	04/07/2017 09:22	<a href="#">WG967292</a>
Ethylbenzene	ND		0.00100	1	04/07/2017 09:22	<a href="#">WG967292</a>
Total Xylenes	ND		0.00300	1	04/07/2017 09:22	<a href="#">WG967292</a>
(S) Toluene-d8	102		80.0-120		04/07/2017 09:22	<a href="#">WG967292</a>
(S) Dibromofluoromethane	88.7		76.0-123		04/07/2017 09:22	<a href="#">WG967292</a>
(S) a,a,a-Trifluorotoluene	94.7		80.0-120		04/07/2017 09:22	<a href="#">WG967292</a>
(S) 4-Bromofluorobenzene	112		80.0-120		04/07/2017 09:22	<a href="#">WG967292</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc



## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0146		0.00100	1	04/07/2017 09:35	<a href="#">WG967292</a>
Toluene	ND		0.00100	1	04/07/2017 09:35	<a href="#">WG967292</a>
Ethylbenzene	ND		0.00100	1	04/07/2017 09:35	<a href="#">WG967292</a>
Total Xylenes	ND		0.00300	1	04/07/2017 09:35	<a href="#">WG967292</a>
(S) Toluene-d8	102		80.0-120		04/07/2017 09:35	<a href="#">WG967292</a>
(S) Dibromofluoromethane	88.1		76.0-123		04/07/2017 09:35	<a href="#">WG967292</a>
(S) a,a,a-Trifluorotoluene	95.4		80.0-120		04/07/2017 09:35	<a href="#">WG967292</a>
(S) 4-Bromofluorobenzene	111		80.0-120		04/07/2017 09:35	<a href="#">WG967292</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00333		0.00100	1	04/07/2017 09:49	<a href="#">WG967292</a>
Toluene	ND		0.00100	1	04/07/2017 09:49	<a href="#">WG967292</a>
Ethylbenzene	ND		0.00100	1	04/07/2017 09:49	<a href="#">WG967292</a>
Total Xylenes	ND		0.00300	1	04/07/2017 09:49	<a href="#">WG967292</a>
(S) Toluene-d8	102		80.0-120		04/07/2017 09:49	<a href="#">WG967292</a>
(S) Dibromofluoromethane	88.8		76.0-123		04/07/2017 09:49	<a href="#">WG967292</a>
(S) a,a,a-Trifluorotoluene	95.0		80.0-120		04/07/2017 09:49	<a href="#">WG967292</a>
(S) 4-Bromofluorobenzene	113		80.0-120		04/07/2017 09:49	<a href="#">WG967292</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc



## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00884		0.00100	1	04/07/2017 10:03	<a href="#">WG967292</a>
Toluene	ND		0.00100	1	04/07/2017 10:03	<a href="#">WG967292</a>
Ethylbenzene	ND		0.00100	1	04/07/2017 10:03	<a href="#">WG967292</a>
Total Xylenes	ND		0.00300	1	04/07/2017 10:03	<a href="#">WG967292</a>
(S) Toluene-d8	102		80.0-120		04/07/2017 10:03	<a href="#">WG967292</a>
(S) Dibromofluoromethane	88.6		76.0-123		04/07/2017 10:03	<a href="#">WG967292</a>
(S) a,a,a-Trifluorotoluene	96.0		80.0-120		04/07/2017 10:03	<a href="#">WG967292</a>
(S) 4-Bromofluorobenzene	113		80.0-120		04/07/2017 10:03	<a href="#">WG967292</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc





## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	ND		0.00100	1	04/07/2017 10:16	<a href="#">WG967292</a>
Toluene	ND		0.00100	1	04/07/2017 10:16	<a href="#">WG967292</a>
Ethylbenzene	ND		0.00100	1	04/07/2017 10:16	<a href="#">WG967292</a>
Total Xylenes	ND		0.00300	1	04/07/2017 10:16	<a href="#">WG967292</a>
(S) Toluene-d8	102		80.0-120		04/07/2017 10:16	<a href="#">WG967292</a>
(S) Dibromofluoromethane	88.1		76.0-123		04/07/2017 10:16	<a href="#">WG967292</a>
(S) a,a,a-Trifluorotoluene	94.9		80.0-120		04/07/2017 10:16	<a href="#">WG967292</a>
(S) 4-Bromofluorobenzene	113		80.0-120		04/07/2017 10:16	<a href="#">WG967292</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc



## Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	3.08		0.0250	25	04/07/2017 10:29	<a href="#">WG967292</a>
Toluene	ND		0.0250	25	04/07/2017 10:29	<a href="#">WG967292</a>
Ethylbenzene	0.0391		0.0250	25	04/07/2017 10:29	<a href="#">WG967292</a>
Total Xylenes	ND		0.0750	25	04/07/2017 10:29	<a href="#">WG967292</a>
(S) Toluene-d8	103		80.0-120		04/07/2017 10:29	<a href="#">WG967292</a>
(S) Dibromofluoromethane	86.8		76.0-123		04/07/2017 10:29	<a href="#">WG967292</a>
(S) a,a,a-Trifluorotoluene	96.2		80.0-120		04/07/2017 10:29	<a href="#">WG967292</a>
(S) 4-Bromofluorobenzene	112		80.0-120		04/07/2017 10:29	<a href="#">WG967292</a>

<sup>1</sup> Cp<sup>2</sup> Tc<sup>3</sup> Ss<sup>4</sup> Cn<sup>5</sup> Sr<sup>6</sup> Qc<sup>7</sup> Gl<sup>8</sup> Al<sup>9</sup> Sc

Method Blank (MB)

(MB) R3209300-3 04/07/17 08:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000331	0.00100
Ethylbenzene	U		0.000384	0.00100
Toluene	U		0.000412	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	102			80.0-120
(S) Dibromofluoromethane	89.8			76.0-123
(S) a,a,a-Trifluorotoluene	95.5			80.0-120
(S) 4-Bromofluorobenzene	112			80.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3209300-1 04/07/17 08:11 • (LCSD) R3209300-2 04/07/17 08:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.0250	0.0180	0.0177	72.2	70.9	69.0-123			1.71	20
Ethylbenzene	0.0250	0.0219	0.0214	87.5	85.6	77.0-120			2.19	20
Toluene	0.0250	0.0201	0.0201	80.5	80.2	77.0-120			0.400	20
Xylenes, Total	0.0750	0.0653	0.0649	87.1	86.5	77.0-120			0.610	20
(S) Toluene-d8				101	102	80.0-120				
(S) Dibromofluoromethane				87.3	90.6	76.0-123				
(S) a,a,a-Trifluorotoluene				95.2	95.9	80.0-120				
(S) 4-Bromofluorobenzene				109	110	80.0-120				

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.

Qualifier	Description
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The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE**.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

## State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina <sup>1</sup>	DW21704
Florida	E87487	North Carolina <sup>2</sup>	41
Georgia	NELAP	North Dakota	R-140
Georgia <sup>1</sup>	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky <sup>1</sup>	90010	South Dakota	n/a
Kentucky <sup>2</sup>	16	Tennessee <sup>14</sup>	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

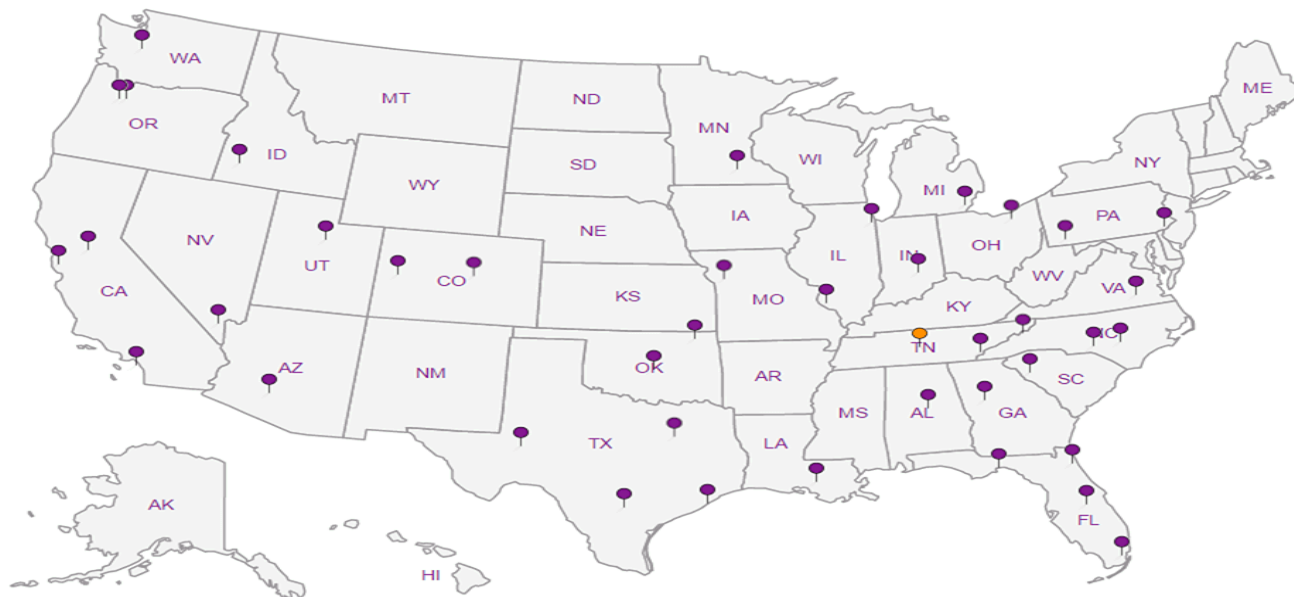
## Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>n/a</sup> Accreditation not applicable

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Crestone Peak Resources

## Billing Information:

Tarah Garza  
1801 California St  
Suite 2500  
Denver CO 80202  
tarah.garza@crestonepr.com

Pres  
Chk

## Analysis / Container / Preservative

Chain of Custody Page    of   

## YOUR LAB OF CHOICE

13065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



L# CREPEAFCO

I146

Acctnum:

Template:

Prelogin:

TSR:

PB:

Shipped Via:

Remarks

Sample # (lab only)

LB99633-01

02

03

04

05

06

Report to:

David Teukesbury

Email To:

david.teukesbury@crestonepr.com

Project

Description: Moser 1

City/State

Collected:

Phone: 7202365525  
Fax:

Client Project #

Lab Project #

Collected by (print):

David Teukesbury

Site/Facility ID #

moser 1

P.O. #

Collected by (signature):

David Teukesbury

Rush? (Lab MUST Be Notified)

\_\_\_ Same Day \_\_\_ Five Day

\_\_\_ Next Day \_\_\_ 5 Day (Rad Only)

\_\_\_ Two Day \_\_\_ 10 Day (Rad Only)

\_\_\_ Three Day

Quote #

Date Results Needed

Immediately

Packed on Ice N \_\_\_ Y ☒No.  
of  
Cntrs

BTEX

Sample ID

Comp/Grab

Matrix \*

Depth

Date

Time

MCW-01R

comp

Glu

3/29/17

1430

2

X

MCW-02R

↓

↓

↓

1450

↓

↓

MCW-03R

↓

↓

↓

1510

↓

↓

MCW-04R

↓

↓

↓

1530

↓

↓

MCW-05R

↓

↓

↓

1550

↓

↓

MCW-06R

↓

↓

↓

1610

↓

↓

## \* Matrix:

SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - Wastewater  
DW - Drinking Water  
OT - Other

## Remarks:

Samples returned via:

\_\_\_ UPS \_\_\_ FedEx \_\_\_ Courier

Tracking #

pH \_\_\_ Temp \_\_\_

Flow \_\_\_ Other \_\_\_

## Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ NCOC Signed/Accurate: ☒ Y ☐ NBottles arrive intact: ☒ Y ☐ NCorrect bottles used: ☒ Y ☐ NSufficient volume sent: ☒ Y ☐ N

## If Applicable

VOA Zero Headspace: ☒ Y ☐ NPreservation Correct/Checked: ☒ Y ☐ N

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes (No)

HCL / MeOH

TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: 17 °C Bottles Received: 12 = 12

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 3-31-17 Time: 845

Hold:

Condition:

NCF / OK