

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 15, 2021

Brent Hedstrom
Crestone Peak Resources
2020 E. Grand Avenue, Suite 515
Laramie, WY 82070
RE: Libsack 43-27
Work Order #2109022

Enclosed are the results of analyses for samples received by Summit Scientific on 09/01/21 08:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Paul Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury
President



Crestone Peak Resources
2020 E. Grand Avenue, Suite 515
Laramie WY, 82070

Project: Libsack 43-27

Project Number: [none]
Project Manager: Brent Hedstrom

Reported:
09/15/21 12:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Surface Casing	2109022-01	Water	08/10/21 00:00	09/01/21 08:50

Summit Scientific

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.

2109022

Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 1

Client: Crestone Peak Resources

Project Manager: Brent Hedstrom

Address: 10188 East I-25 Frontage road

E-Mail: brent.hedstrom@crestonepr.com

City/State/Zip: Firestone, CO 80504

LOE W10351 8503/ COGCC 270165



Phone: 303-434-3007

Project Name: Libsack 43-27

Sampler Name:

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions	
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	Anion	Cations	TDS	BTEX 8020	DRO	GRO	RSK-175			
1	Surface casing	8/10/2021		2										X	X	X	X	X	X	X		
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished by: 	Date/Time: 9/1/21 8:50 AM	Received by: 	Date/Time: 9-1-21 8:50	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: 3.4 Samples Intact: <input checked="" type="checkbox"/> Yes No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order 2109022

Client: CRESTONE Client Project ID LIBSACK 43-27

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other _____ Airbill #: _____

Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Temp (°C) 3.4

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	✓			
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
If custody seals are present, are they intact ⁽¹⁾ ?			X	
Are samples with holding times due within 48 hours sample due within 48 hours present?	✓			ANIONS
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			X	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			X	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

Muri P.
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

9-1-21
Date/Time



Crestone Peak Resources
 2020 E. Grand Avenue, Suite 515
 Laramie WY, 82070

Project: Libsack 43-27

Project Number: [none]
 Project Manager: Brent Hedstrom

Reported:
 09/15/21 12:07

Surface Casing
2109022-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/10/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1400000	10000	ug/l	10000	BEI0088	09/03/21	09/10/21	EPA 8260B	
Toluene	6000000	10000	"	"	"	"	"	"	
Ethylbenzene	770000	10000	"	"	"	"	"	"	
Xylenes (total)	9200000	20000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	630000000	5000000	"	"	"	"	"	"	

Date Sampled: **08/10/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		160 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		69.1 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		254 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/10/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	320000	5.0	mg/L	1	BEI0091	09/03/21	09/09/21	EPA 8015M	

Date Sampled: **08/10/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		151 %	58.9-148		"	"	"	"	

Summit Scientific

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.



Crestone Peak Resources
2020 E. Grand Avenue, Suite 515
Laramie WY, 82070

Project: Libsack 43-27

Project Number: [none]
Project Manager: Brent Hedstrom

Reported:
09/15/21 12:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEI0088 - EPA 5030 Water MS

Blank (BEI0088-BLK1)

Prepared: 09/03/21 Analyzed: 09/04/21

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Gasoline Range Hydrocarbons	ND	500	"								
Surrogate: 1,2-Dichloroethane-d4	11.3		"	13.3		84.8	23-173				
Surrogate: Toluene-d8	12.1		"	13.3		90.6	20-170				
Surrogate: 4-Bromofluorobenzene	13.7		"	13.3		103	21-167				

LCS (BEI0088-BS1)

Prepared: 09/03/21 Analyzed: 09/04/21

Benzene	26.3	1.0	ug/l	33.3		78.8	70-130				
Toluene	29.5	1.0	"	33.3		88.4	70-130				
Ethylbenzene	34.5	1.0	"	33.3		104	70-130				
m,p-Xylene	70.8	2.0	"	66.7		106	70-130				
o-Xylene	35.2	1.0	"	33.3		106	70-130				
Surrogate: 1,2-Dichloroethane-d4	10.7		"	13.3		80.4	23-173				
Surrogate: Toluene-d8	11.8		"	13.3		88.6	20-170				
Surrogate: 4-Bromofluorobenzene	12.1		"	13.3		90.5	21-167				

Matrix Spike (BEI0088-MS1)

Source: 2109011-01

Prepared: 09/03/21 Analyzed: 09/04/21

Benzene	27.3	1.0	ug/l	33.3	ND	81.8	70-130				
Toluene	30.3	1.0	"	33.3	ND	91.0	70-130				
Ethylbenzene	33.7	1.0	"	33.3	ND	101	70-130				
m,p-Xylene	68.7	2.0	"	66.7	ND	103	70-130				
o-Xylene	34.7	1.0	"	33.3	ND	104	70-130				
Surrogate: 1,2-Dichloroethane-d4	12.0		"	13.3		90.1	23-173				
Surrogate: Toluene-d8	11.9		"	13.3		89.4	20-170				
Surrogate: 4-Bromofluorobenzene	11.9		"	13.3		89.6	21-167				

Summit Scientific

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.



Crestone Peak Resources
 2020 E. Grand Avenue, Suite 515
 Laramie WY, 82070

Project: Libsack 43-27

Project Number: [none]
 Project Manager: Brent Hedstrom

Reported:
 09/15/21 12:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEI0088 - EPA 5030 Water MS

Matrix Spike Dup (BEI0088-MSD1)	Source: 2109011-01			Prepared: 09/03/21 Analyzed: 09/04/21						
Benzene	27.2	1.0	ug/l	33.3	ND	81.5	70-130	0.441	30	
Toluene	29.8	1.0	"	33.3	ND	89.4	70-130	1.80	30	
Ethylbenzene	34.3	1.0	"	33.3	ND	103	70-130	1.82	30	
m,p-Xylene	69.4	2.0	"	66.7	ND	104	70-130	0.927	30	
o-Xylene	34.9	1.0	"	33.3	ND	105	70-130	0.604	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>12.0</i>		<i>"</i>	<i>13.3</i>		<i>90.4</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>11.9</i>		<i>"</i>	<i>13.3</i>		<i>89.6</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.0</i>		<i>"</i>	<i>13.3</i>		<i>90.2</i>	<i>21-167</i>			

Summit Scientific

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.



Crestone Peak Resources
 2020 E. Grand Avenue, Suite 515
 Laramie WY, 82070

Project: Libsack 43-27

Project Number: [none]
 Project Manager: Brent Hedstrom

Reported:
 09/15/21 12:07

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEI0091 - EPA 3520B

Blank (BEI0091-BLK1)

Prepared: 09/03/21 Analyzed: 09/10/21

C10-C28 (DRO) ND 5.0 mg/L

Duplicate (BEI0091-DUP1)

Source: 2109021-01

Prepared: 09/03/21 Analyzed: 09/10/21

C10-C28 (DRO) 13.2 5.0 mg/L 11.7 12.1 200

Summit Scientific

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.



Crestone Peak Resources
2020 E. Grand Avenue, Suite 515
Laramie WY, 82070

Project: Libsack 43-27
Project Number: [none]
Project Manager: Brent Hedstrom

Reported:
09/15/21 12:07

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference