

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 13, 2020

Brent Hedstrom

Crestone Peak Resources

2020 E. Grand Avenue, Suite 515

Laramie, WY 82070

RE: Morgan Hills 1F-7H

Work Order # 2008007

Enclosed are the results of analyses for samples received by Summit Scientific on 08/03/20 12:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Paul Shrewsbury

President



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

Project: Morgan Hills 1F-7H

Project Number: [none]
Project Manager: Brent Hedstrom

Reported:
08/13/20 14:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Morgan Hills 1F-7H	2008007-01	Water	07/29/20 00:00	08/03/20 12:45

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.

Summit Scientific

S₂

2008007

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

COGCC 446289 LOE C81149

Phone: 303-434-3007

Project Name: Morgan Hills 1F-7H

Sampler Name:

Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	Anion	Cations	TDS	BTEX 8020	DRO	GRO	RSK-175		
1	Morgan Hills 1F-7H	7/29/2020		11			X	X	X				X	X	X	X	X	X	X		
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time	(Check)	Notes:
<i>BL</i>	8/31/20 12:45 PM	<i>BD</i>	08-03-20 12:45	Same Day	72 hours	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours	Standard	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours		
				Sample Integrity:		ON ICE
				Temperature Upon Receipt:	15.1	
				Samples Intact:	Yes No	

Sample Receipt Checklist

S2 Work Order 2008007

Client: Crestone Peak Resources

Client Project ID: Morgan Hills 1F-7H

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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ? Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

MP

Custodian Printed Name or Initials



Signature of Custodian

8/3/20

Date/Time



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

Project: Morgan Hills 1F-7H

Project Number: [none]
Project Manager: Brent Hedstrom

Reported:
08/13/20 14:59

Morgan Hills 1F-7H
2008007-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/29/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1300	1000	ug/l	1000	2008018	08/04/20	08/05/20	EPA 8260B	
Toluene	16000	1000	"	"	"	"	"	"	
Ethylbenzene	12000	1000	"	"	"	"	"	"	
Xylenes (total)	85000	2000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	22000000	500000	"	"	"	"	"	"	

Date Sampled: **07/29/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	142 %	23-173			"	"	"	"	
Surrogate: Toluene-d8	123 %	20-170			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	199 %	21-167			"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/29/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	43000	500	mg/L	100	2008051	08/06/20	08/08/20	EPA 8015M	

Date Sampled: **07/29/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	21100 %	58.9-148			"	"	"	"	S-02

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: Morgan Hills 1F-7H

Project Number: [none]
Project Manager: Brent Hedstrom

Reported:
08/13/20 14:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 2008018 - EPA 5030 Water MS

Blank (2008018-BLK1)

Prepared & Analyzed: 08/04/20

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	14.6		"	13.3		110	23-173			
Surrogate: Toluene-d8	12.3		"	13.3		92.5	20-170			
Surrogate: 4-Bromofluorobenzene	12.2		"	13.3		91.4	21-167			

LCS (2008018-BS1)

Prepared & Analyzed: 08/04/20

Benzene	41.1	1.0	ug/l	41.7		98.5	70-130			
Toluene	43.0	1.0	"	41.7		103	70-130			
Ethylbenzene	43.0	1.0	"	41.7		103	70-130			
m,p-Xylene	86.0	2.0	"	83.3		103	70-130			
o-Xylene	42.8	1.0	"	41.7		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	15.6		"	13.3		117	23-173			
Surrogate: Toluene-d8	12.8		"	13.3		95.7	20-170			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.8	21-167			

Matrix Spike (2008018-MS1)

Source: 2008008-01

Prepared & Analyzed: 08/04/20

Benzene	41.8	1.0	ug/l	41.7	ND	100	70-130			
Toluene	43.7	1.0	"	41.7	ND	105	70-130			
Ethylbenzene	42.6	1.0	"	41.7	ND	102	70-130			
m,p-Xylene	85.8	2.0	"	83.3	ND	103	70-130			
o-Xylene	42.5	1.0	"	41.7	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	15.4		"	13.3		115	23-173			
Surrogate: Toluene-d8	13.5		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.3	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: Morgan Hills 1F-7H

Project Number: [none]
Project Manager: Brent Hedstrom

Reported:
08/13/20 14:59

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch 2008018 - EPA 5030 Water MS

Matrix Spike Dup (2008018-MSD1)	Source: 2008008-01			Prepared & Analyzed: 08/04/20						
Benzene	40.5	1.0	ug/l	41.7	ND	97.2	70-130	3.09	30	
Toluene	44.2	1.0	"	41.7	ND	106	70-130	1.09	30	
Ethylbenzene	42.8	1.0	"	41.7	ND	103	70-130	0.562	30	
m,p-Xylene	85.9	2.0	"	83.3	ND	103	70-130	0.163	30	
o-Xylene	43.0	1.0	"	41.7	ND	103	70-130	1.38	30	
Surrogate: 1,2-Dichloroethane-d4	16.2		"	13.3		122	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.5	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: Morgan Hills 1F-7H

Project Number: [none]
Project Manager: Brent Hedstrom

Reported:
08/13/20 14:59

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 2008051 - EPA 3520B

Blank (2008051-BLK1)

Prepared: 08/06/20 Analyzed: 08/08/20

C10-C28 (DRO) ND 5.0 mg/L

LCS (2008051-BS1)

Prepared: 08/06/20 Analyzed: 08/08/20

C10-C28 (DRO) 53.9 5.0 mg/L 50.0 108 70-130

LCS Dup (2008051-BSD1)

Prepared: 08/06/20 Analyzed: 08/08/20

C10-C28 (DRO) 54.5 5.0 mg/L 50.0 109 70-130 1.20 20

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: Morgan Hills 1F-7H

Project Number: [none]
Project Manager: Brent Hedstrom

Reported:
08/13/20 14:59

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
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