

# 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: Dreamweaver South 3E-21H-N268

Work Order #2109023

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 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury

President



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

Project: Dreamweaver South 3E-21H-N268

Project Number: [none]  
Project Manager: Brent Hedstrom

**Reported:**  
09/15/21 12:08

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Surface Casing	2109023-01	Water	08/16/21 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.*

2109023

# Summit Scientific

S<sub>2</sub>

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 C81100 8503/ COGCC 457513



Phone: 303-434-3007

Project Name: Dream Weaver South 3E-21H-N268

Sampler Name:

Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	Anion	Cations	TDS	BTEX 8020	DRO	GRO	RSK-175		
1	Surface casing	8/16/2021		2									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:
	9/1/21 8:50AM		9-1-21 8:50	Same Day _____ 72 hours _____	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours _____ Standard <input checked="" type="checkbox"/>	
				48 hours _____	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:	
				Temperature Upon Receipt: 3.4	
				Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	

# Sample Receipt Checklist

S2 Work Order

**2109023**

Client: CRESTINE

Client Project ID DREAM WEAVER SOUTH 3E-21H-N2408

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

Additional Comments (if any):

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

Muri P.  
Custodian Printed Name or Initials

RP  
Signature of Custodian

9-1-21  
Date/Time



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

Project: Dreamweaver South 3E-21H-N268  
Project Number: [none]  
Project Manager: Brent Hedstrom

**Reported:**  
09/15/21 12:08

**Surface Casing**  
**2109023-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/16/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	17000	1000	ug/l	1000	BEI0088	09/03/21	09/10/21	EPA 8260B	
Toluene	73000	10000	"	10000	"	"	"	"	
Ethylbenzene	14000	1000	"	1000	"	"	"	"	
Xylenes (total)	270000	20000	"	10000	"	"	"	"	
Gasoline Range Hydrocarbons	280000000	5000000	"	"	"	"	"	"	

Date Sampled: **08/16/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		191 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		84.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		128 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/16/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	930000	50	mg/L	10	BEI0091	09/03/21	09/09/21	EPA 8015M	

Date Sampled: **08/16/21 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		1350 %	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: Dreamweaver South 3E-21H-N268  
Project Number: [none]  
Project Manager: Brent Hedstrom

**Reported:**  
09/15/21 12:08

## 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 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: Dreamweaver South 3E-21H-N268  
Project Number: [none]  
Project Manager: Brent Hedstrom

**Reported:**  
09/15/21 12:08

**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 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	
Surrogate: 1,2-Dichloroethane-d4	12.0		"	13.3		90.4	23-173			
Surrogate: Toluene-d8	11.9		"	13.3		89.6	20-170			
Surrogate: 4-Bromofluorobenzene	12.0		"	13.3		90.2	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: Dreamweaver South 3E-21H-N268  
Project Number: [none]  
Project Manager: Brent Hedstrom

**Reported:**  
09/15/21 12:08

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**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: Dreamweaver South 3E-21H-N268

Project Number: [none]  
Project Manager: Brent Hedstrom

**Reported:**  
09/15/21 12:08

### 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