

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

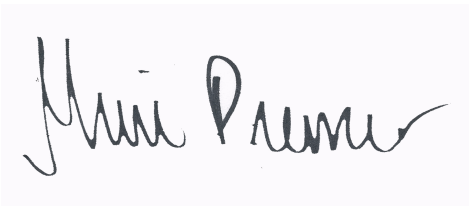
303.277.9310

January 25, 2021

Brent Hedstrom  
Crestone Peak Resources  
2020 E. Grand Avenue, Suite 515  
Laramie, WY 82070  
RE: North Rinn 2-4-9  
Work Order #2101137

Enclosed are the results of analyses for samples received by Summit Scientific on 01/14/21 14:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premier", is displayed on a light purple rectangular background.

Muri Premier For Paul Shrewsbury  
President



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

Project: North Rinn 2-4-9

Project Number: [none]  
Project Manager: Brent Hedstrom

**Reported:**  
01/25/21 16:44

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Surface Casing	2101137-01	Water	12/17/20 00:00	01/14/21 14:00

Summit Scientific

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# Summit Scientific

S<sub>2</sub>

2101137

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


Phone: 303-434-3007

Project Name: North Rinn 2-4-9

Sampler Name:

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions	
					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					X					X	X	X	X	X	X	X		COGCC 424109
2		12-17-20																				LOE/AFE W73383 8503
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time (Check)	Notes:
	1-14-21 / 1400	MP	1-14-21 14:00	Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	48 hours <input type="checkbox"/>	Sample Integrity: Temperature Upon Receipt: 3.7 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No
Relinquished by:	Date/Time:	Received by:	Date/Time:		

### Sample Receipt Checklist

S2 Work Order 2101137

Client: Crestone Peak Resources Client Project ID: North Rinn 2-4-9

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

☒ ☐ ☐ ☐ ☐

Matrix (check all that apply): ☐ Air ☐ Soil/Solid ☒ Water ☐ Other: \_\_\_\_\_  
(Describe)

Temp (°C)	3.7
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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> ? 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"/>	On Ice
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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation <b>(excluding cooling)</b> <sup>(1)</sup> ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	HNO3
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? Record the pH in Comments.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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):

Samples must be acid preserved by Summit at extraction

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

MP

Custodian Printed Name or Initials

Muri Premer  
Signature of Custodian

1/14/21

Date/Time



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

Project: North Rinn 2-4-9  
Project Number: [none]  
Project Manager: Brent Hedstrom

**Reported:**  
01/25/21 16:44

**Surface Casing**  
**2101137-01 (Water)**

**Summit Scientific**

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

**I-02**

Date Sampled: **12/17/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	690000	10000	ug/l	10000	BEA0155	01/15/21	01/15/21	EPA 8260B	
Toluene	830000	10000	"	"	"	"	"	"	
Ethylbenzene	410000	10000	"	"	"	"	"	"	
Xylenes (total)	2000000	20000	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	20000000	5000000	"	"	"	"	"	"	

Date Sampled: **12/17/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	373 %	23-173			"	"	"	"	S-02
Surrogate: Toluene-d8	2650 %	20-170			"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	1560 %	21-167			"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/17/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	430000	50	mg/L	10	BEA0178	01/18/21	01/19/21	EPA 8015M	

Date Sampled: **12/17/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	372 %	58.9-148			"	"	"	"	

**Dissolved Gases by RSK-175**

Date Sampled: **12/17/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Methane	1.8	1.0	mg/L	100	BEA0162	01/15/21	01/19/21	RSK-175 mod	I-02
Ethane	12	1.0	"	"	"	"	"	"	I-02
Propane	50	1.0	"	"	"	"	"	"	I-02

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Project: North Rinn 2-4-9  
Project Number: [none]  
Project Manager: Brent Hedstrom

**Reported:**  
01/25/21 16:44

**Surface Casing**  
**2101137-01 (Water)**

**Summit Scientific**

**Dissolved Gases by RSK-175**

Date Sampled: **12/17/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: Ethene		%	70-130		BEA0162	01/15/21	01/19/21	RSK-175 mod	I-02, S-01

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Project: North Rinn 2-4-9

Project Number: [none]  
Project Manager: Brent Hedstrom

**Reported:**  
01/25/21 16:44

## 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 BEA0155 - EPA 5030 Water MS

##### Blank (BEA0155-BLK1)

Prepared & Analyzed: 01/15/21

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	13.9		"	13.3		104	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		98.9	21-167			

##### LCS (BEA0155-BS1)

Prepared & Analyzed: 01/15/21

Benzene	26.6	1.0	ug/l	33.3		79.8	70-130			
Toluene	32.4	1.0	"	33.3		97.4	70-130			
Ethylbenzene	35.5	1.0	"	33.3		107	70-130			
m,p-Xylene	70.8	2.0	"	66.7		106	70-130			
o-Xylene	35.7	1.0	"	33.3		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.6		"	13.3		102	23-173			
Surrogate: Toluene-d8	13.8		"	13.3		103	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

##### Matrix Spike (BEA0155-MS1)

Source: 2101123-01

Prepared & Analyzed: 01/15/21

Benzene	26.9	1.0	ug/l	33.3	ND	80.6	70-130			
Toluene	32.1	1.0	"	33.3	ND	96.4	70-130			
Ethylbenzene	35.0	1.0	"	33.3	ND	105	70-130			
m,p-Xylene	69.8	2.0	"	66.7	ND	105	70-130			
o-Xylene	35.0	1.0	"	33.3	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.6		"	13.3		102	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.4	21-167			

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Project: North Rinn 2-4-9

Project Number: [none]  
Project Manager: Brent Hedstrom

**Reported:**  
01/25/21 16:44

**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 BEA0155 - EPA 5030 Water MS**

Matrix Spike Dup (BEA0155-MSD1)	Source: 2101123-01			Prepared & Analyzed: 01/15/21						
Benzene	27.1	1.0	ug/l	33.3	ND	81.3	70-130	0.889	30	
Toluene	32.3	1.0	"	33.3	ND	97.0	70-130	0.651	30	
Ethylbenzene	35.6	1.0	"	33.3	ND	107	70-130	1.67	30	
m,p-Xylene	70.9	2.0	"	66.7	ND	106	70-130	1.65	30	
o-Xylene	36.1	1.0	"	33.3	ND	108	70-130	2.90	30	
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3		104	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		100	21-167			

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Project: North Rinn 2-4-9

Project Number: [none]  
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**Reported:**  
01/25/21 16:44

**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 BEA0178 - EPA 3520B**

**Blank (BEA0178-BLK1)**

Prepared: 01/18/21 Analyzed: 01/19/21

C10-C28 (DRO) ND 5.0 mg/L

**LCS (BEA0178-BS1)**

Prepared: 01/18/21 Analyzed: 01/19/21

C10-C28 (DRO) 64.5 5.0 mg/L 50.0 129 70-130

**Matrix Spike (BEA0178-MS1)**

Source: 2101133-01

Prepared: 01/18/21 Analyzed: 01/19/21

C10-C28 (DRO) 50.8 5.0 mg/L 50.0 8.36 85.0 70-130

**Matrix Spike Dup (BEA0178-MSD1)**

Source: 2101133-01

Prepared: 01/18/21 Analyzed: 01/19/21

C10-C28 (DRO) 51.9 5.0 mg/L 50.0 8.36 87.0 70-130 2.02 20

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Laramie WY, 82070

Project: North Rinn 2-4-9

Project Number: [none]  
Project Manager: Brent Hedstrom

**Reported:**  
01/25/21 16:44

**Dissolved Gases by RSK-175 - Quality Control**  
**Summit Scientific**

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

**Batch BEA0162 - GC**

**Blank (BEA0162-BLK1)**

Prepared: 01/15/21 Analyzed: 01/18/21

Methane	ND	0.010	mg/L							
Ethane	ND	0.010	"							
Propane	ND	0.010	"							
Surrogate: Ethene	0.0336		"	0.0364		92.3	70-130			

**LCS (BEA0162-BS1)**

Prepared: 01/15/21 Analyzed: 01/18/21

Methane	0.035	0.010	mg/L	0.0428		82.5	70-130			
Ethane	0.069	0.010	"	0.0798		86.7	70-130			
Propane	0.10	0.010	"	0.139		75.3	70-130			
Surrogate: Ethene	0.0637		"	0.0728		87.5	70-130			

**LCS Dup (BEA0162-BSD1)**

Prepared: 01/15/21 Analyzed: 01/18/21

Methane	0.039	0.010	mg/L	0.0428		91.0	70-130	9.70	200	
Ethane	0.081	0.010	"	0.0798		102	70-130	15.8	200	
Propane	0.12	0.010	"	0.139		87.1	70-130	14.5	200	
Surrogate: Ethene	0.0762		"	0.0728		105	70-130			

**Duplicate (BEA0162-DUP1)**

Source: 2101094-01

Prepared: 01/15/21 Analyzed: 01/18/21

Methane	3.1	1.0	mg/L		3.1			0.325	30	
Ethane	ND	0.010	"		ND				30	
Propane	ND	0.010	"		ND				30	
Surrogate: Ethene	0.0410		"	0.0364		113	70-130			

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Project: North Rinn 2-4-9

Project Number: [none]  
Project Manager: Brent Hedstrom

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01/25/21 16:44

### 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.
S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
I-02	This sample was analyzed outside of the recommended holding time.
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