

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 28, 2021

James Miller
Civatas Resources
650 Southgate Drive
Windsor, CO 80550

RE: Brown 41-5

Work Order #2111197

Enclosed are the results of analyses for samples received by Summit Scientific on 11/10/21 14:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury
President



Civatas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Brown 41-5

Project Number: [none]

Project Manager: James Miller

Reported:
12/28/21 10:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Brown 41-5	2111197-01	Water	11/10/21 10:29	11/10/21 14:40
Brown 41-5	2111197-02	Water	11/10/21 10:29	11/10/21 14:40

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Summit Scientific

2111197



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

Client: Civitas Resources

Project Manager: James Miller

Address: 650 Southgate Drive

E-Mail: jmillier@civiresources.com

City/State/Zip: Windsor, CO 80550

AFE#: COCW56957

Phone: 720-984-7460

Project Name: Brown 41-5

Sampler Name: Josh Rios

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Anion	Cations	TDS	BTEX 8020	DRO	GRO	RSK-175			
1	Brown 41-5	#####	10:29	1		X								X	X	X	X	X	X	X		
2	Brown 41-5	#####	10:29	1										X	X	X	X	X	X	X		
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Relinquished by: *[Signature]* Date/Time: 11/10 2:40

Received by: *[Signature]* Date/Time: 11-10-21 14:40

Turn Around Time (Check)
 Same Day _____ 72 hours _____
 24 hours _____ Standard
 48 hours _____

Notes:
 COGCC EDD
 Bill to: Crestone

Relinquished by: _____ Date/Time: _____

Received by: _____ Date/Time: _____

Sample Integrity:
 Temperature Upon Receipt: 23.4
 Samples Intact: Yes No

S₂

2111197

Sample Receipt Checklist

S2 Work Order# _____

Client: Civitas Resources Client Project ID: Brown 41-5

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

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

Temp (°C)	234
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Thermometer ID: G86A9201901378

	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 if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HNO3
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.

Custodian Printed Name or Initials

11.10.21
Date/Time



Civatas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Brown 41-5

Project Number: [none]
Project Manager: James Miller

Reported:
12/28/21 10:49

Brown 41-5
2111197-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/10/21 10:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BEK0324	11/15/21	11/16/21	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500		"	"	"	"	"	"	

Date Sampled: **11/10/21 10:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		96.4 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		99.2 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.3 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/10/21 10:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	230000	5.0		mg/L	1	BEK0291	11/12/21	11/12/21	EPA 8015M	

Date Sampled: **11/10/21 10:29**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		183 %		58.9-148		"	"	"	"	S-02

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Project: Brown 41-5

Project Number: [none]
Project Manager: James Miller

Reported:
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Brown 41-5
2111197-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/10/21 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BEK0324	11/15/21	11/24/21	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	500	"	"	"	"	"	"	

Date Sampled: **11/10/21 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		99.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/10/21 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	430000	5.0	mg/L	1	BEK0291	11/12/21	11/12/21	EPA 8015M	

Date Sampled: **11/10/21 10:29**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		296 %	58.9-148		"	"	"	"	S-02

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Project: Brown 41-5

Project Number: [none]
Project Manager: James Miller

Reported:
12/28/21 10:49

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 BEK0324 - EPA 5030 Water MS

Blank (BEK0324-BLK1)

Prepared: 11/15/21 Analyzed: 11/16/21

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Gasoline Range Hydrocarbons	ND	500	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.8		"	13.3		95.9	23-173			
<i>Surrogate: Toluene-d8</i>	13.1		"	13.3		98.2	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	14.0		"	13.3		105	21-167			

LCS (BEK0324-BS1)

Prepared: 11/15/21 Analyzed: 11/16/21

Benzene	34.2	1.0	ug/l	41.7		82.1	70-130			
Toluene	35.6	1.0	"	41.7		85.6	70-130			
Ethylbenzene	41.6	1.0	"	41.7		99.8	70-130			
m,p-Xylene	80.7	2.0	"	83.3		96.9	70-130			
o-Xylene	38.3	1.0	"	41.7		91.9	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.1		"	13.3		98.1	23-173			
<i>Surrogate: Toluene-d8</i>	13.2		"	13.3		99.2	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.6		"	13.3		102	21-167			

Matrix Spike (BEK0324-MS1)

Source: 2111228-02

Prepared: 11/15/21 Analyzed: 11/16/21

Benzene	34.6	1.0	ug/l	41.7	ND	83.1	70-130			
Toluene	35.6	1.0	"	41.7	ND	85.5	70-130			
Ethylbenzene	42.2	1.0	"	41.7	ND	101	70-130			
m,p-Xylene	81.8	2.0	"	83.3	ND	98.1	70-130			
o-Xylene	38.9	1.0	"	41.7	ND	93.4	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.5		"	13.3		101	23-173			
<i>Surrogate: Toluene-d8</i>	13.3		"	13.3		99.9	20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	14.4		"	13.3		108	21-167			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BEK0324 - EPA 5030 Water MS

Matrix Spike Dup (BEK0324-MSD1)

Source: 2111228-02

Prepared: 11/15/21 Analyzed: 11/16/21

Benzene	34.4	1.0	ug/l	41.7	ND	82.6	70-130	0.666	30	
Toluene	35.0	1.0	"	41.7	ND	84.0	70-130	1.70	30	
Ethylbenzene	42.1	1.0	"	41.7	ND	101	70-130	0.190	30	
m,p-Xylene	81.2	2.0	"	83.3	ND	97.5	70-130	0.663	30	
o-Xylene	38.8	1.0	"	41.7	ND	93.0	70-130	0.412	30	
Surrogate: 1,2-Dichloroethane-d4	14.3		"	13.3		107	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.0	20-170			
Surrogate: 4-Bromofluorobenzene	14.3		"	13.3		107	21-167			

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Project: Brown 41-5

Project Number: [none]
Project Manager: James Miller

Reported:
12/28/21 10:49

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 BEK0291 - EPA 3520B

Blank (BEK0291-BLK1)

Prepared & Analyzed: 11/12/21

C10-C28 (DRO) ND 5.0 mg/L

LCS (BEK0291-BS1)

Prepared & Analyzed: 11/12/21

C10-C28 (DRO) 43.6 5.0 mg/L 50.0 87.2 70-130

LCS Dup (BEK0291-BSD1)

Prepared & Analyzed: 11/12/21

C10-C28 (DRO) 45.8 5.0 mg/L 50.0 91.6 70-130 4.98 20

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Project: Brown 41-5

Project Number: [none]
Project Manager: James Miller

Reported:
12/28/21 10:49

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