

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 15, 2021

Chris Roy

WSP

4600 West 60th Avenue

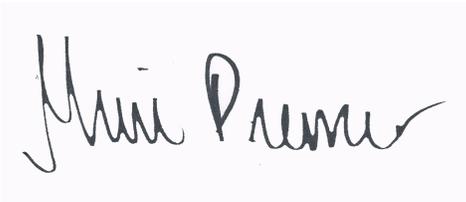
Arvada, CO 80003

RE: Critter Creek 9-15H

Work Order #2110130

Enclosed are the results of analyses for samples received by Summit Scientific on 10/08/21 11:10. 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



WSP
4600 West 60th Avenue
Arvada CO, 80003

Project: Critter Creek 9-15H
Project Number: TE027318130
Project Manager: Chris Roy

Reported:
10/15/21 09:14

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS04@0-6"	2110130-01	Soil	10/05/21 00:00	10/08/21 11:10
SS04@18-24"	2110130-02	Soil	10/05/21 00:00	10/08/21 11:10
SS05@0-6"	2110130-03	Soil	10/05/21 00:00	10/08/21 11:10
SS05@18-24"	2110130-04	Soil	10/05/21 00:00	10/08/21 11:10
SS07@0-6"	2110130-05	Soil	10/05/21 00:00	10/08/21 11:10

Summit Scientific

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S₂

2110130

Sample Receipt Checklist

S2 Work Order# _____

Client: WSP Client Project ID: Critter Creek 9-ISH

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

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

Temp (°C)	<u>13.6</u>
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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 ⁽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"/>	<u>on ice</u>
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 type="checkbox"/>	<input checked="" 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 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.

AT
Custodian Printed Name or Initials

10.8.21
Date/Time



WSP
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Arvada CO, 80003

Project: Critter Creek 9-15H

Project Number: TE027318130
Project Manager: Chris Roy

Reported:
10/15/21 09:14

SS04@0-6"
2110130-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BEJ0215	10/12/21	10/13/21	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		130 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		150 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	190	50		mg/kg	1	BEJ0214	10/12/21	10/13/21	EPA 8015M	
C28-C36 (ORO)	72	50		"	"	"	"	"	"	

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		106 %		30-150		"	"	"	"	

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Project: Critter Creek 9-15H

Project Number: TE027318130
Project Manager: Chris Roy

Reported:
10/15/21 09:14

SS04@18-24"
2110130-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BEJ0215	10/12/21	10/13/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		121 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		142 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	260	50	mg/kg	1	BEJ0214	10/12/21	10/13/21	EPA 8015M	
C28-C36 (ORO)	120	50	"	"	"	"	"	"	

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		101 %	30-150		"	"	"	"	

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Project: Critter Creek 9-15H

Project Number: TE027318130
Project Manager: Chris Roy

Reported:
10/15/21 09:14

SS05@0-6''
2110130-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BEJ0215	10/12/21	10/13/21	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.1	0.50		"	"	"	"	"	"	

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		135 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		154 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		117 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	820	50		mg/kg	1	BEJ0214	10/12/21	10/13/21	EPA 8015M	
C28-C36 (ORO)	310	50		"	"	"	"	"	"	

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		106 %		30-150		"	"	"	"	

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Project: Critter Creek 9-15H

Project Number: TE027318130
Project Manager: Chris Roy

Reported:
10/15/21 09:14

SS05@18-24"
2110130-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BEJ0215	10/12/21	10/13/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		131 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		136 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		115 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	350	50	mg/kg	1	BEJ0214	10/12/21	10/13/21	EPA 8015M	
C28-C36 (ORO)	150	50	"	"	"	"	"	"	

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

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Project: Critter Creek 9-15H

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Project Manager: Chris Roy

Reported:
10/15/21 09:14

SS07@0-6''
2110130-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BEJ0215	10/12/21	10/13/21	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	630	5.0	"	10	"	"	"	"	

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		81.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		114 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		316 %	21-167		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	4400	50	mg/kg	1	BEJ0214	10/12/21	10/13/21	EPA 8015M	
C28-C36 (ORO)	460	50	"	"	"	"	"	"	

Date Sampled: **10/05/21 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		224 %	30-150		"	"	"	"	S-02

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Project: Critter Creek 9-15H
Project Number: TE027318130
Project Manager: Chris Roy

Reported:
10/15/21 09:14

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 BEJ0215 - EPA 5030 Soil MS

Blank (BEJ0215-BLK1)

Prepared: 10/12/21 Analyzed: 10/14/21

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0225		"	0.0400		56.2	23-173			
Surrogate: Toluene-d8	0.0378		"	0.0400		94.5	20-170			
Surrogate: 4-Bromofluorobenzene	0.0440		"	0.0400		110	21-167			

LCS (BEJ0215-BS1)

Prepared: 10/12/21 Analyzed: 10/14/21

Benzene	0.0775	0.0020	mg/kg	0.100		77.5	70-130			
Toluene	0.0807	0.0050	"	0.100		80.7	70-130			
Ethylbenzene	0.0785	0.0050	"	0.100		78.5	70-130			
m,p-Xylene	0.155	0.010	"	0.200		77.3	70-130			
o-Xylene	0.0752	0.0050	"	0.100		75.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0419		"	0.0400		105	23-173			
Surrogate: Toluene-d8	0.0431		"	0.0400		108	20-170			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	21-167			

Matrix Spike (BEJ0215-MS1)

Source: 2110129-01

Prepared: 10/12/21 Analyzed: 10/14/21

Benzene	0.0754	0.0020	mg/kg	0.100	ND	75.4	70-130			
Toluene	0.0819	0.0050	"	0.100	ND	81.9	70-130			
Ethylbenzene	0.0811	0.0050	"	0.100	ND	81.1	70-130			
m,p-Xylene	0.161	0.010	"	0.200	ND	80.7	70-130			
o-Xylene	0.0775	0.0050	"	0.100	ND	77.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0397		"	0.0400		99.2	23-173			
Surrogate: Toluene-d8	0.0436		"	0.0400		109	20-170			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.7	21-167			

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Project: Critter Creek 9-15H

Project Number: TE027318130
Project Manager: Chris Roy

Reported:
10/15/21 09:14

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEJ0215 - EPA 5030 Soil MS

Matrix Spike Dup (BEJ0215-MSD1)	Source: 2110129-01			Prepared: 10/12/21 Analyzed: 10/14/21					
Benzene	0.0748	0.0020	mg/kg	0.100	ND	74.8	70-130	0.719	30
Toluene	0.0793	0.0050	"	0.100	ND	79.3	70-130	3.16	30
Ethylbenzene	0.0807	0.0050	"	0.100	ND	80.7	70-130	0.445	30
m,p-Xylene	0.159	0.010	"	0.200	ND	79.6	70-130	1.31	30
o-Xylene	0.0771	0.0050	"	0.100	ND	77.1	70-130	0.504	30
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	23-173		
Surrogate: Toluene-d8	0.0418		"	0.0400		105	20-170		
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	21-167		

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Reported:
10/15/21 09:14

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 BEJ0214 - EPA 3550A

Blank (BEJ0214-BLK1)

Prepared: 10/12/21 Analyzed: 10/13/21

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							

LCS (BEJ0214-BS1)

Prepared: 10/12/21 Analyzed: 10/13/21

C10-C28 (DRO)	597	50	mg/kg	500	119	70-130				
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Matrix Spike (BEJ0214-MS1)

Source: 2110129-01

Prepared: 10/12/21 Analyzed: 10/13/21

C10-C28 (DRO)	632	50	mg/kg	500	13.6	124	70-130			
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Matrix Spike Dup (BEJ0214-MSD1)

Source: 2110129-01

Prepared: 10/12/21 Analyzed: 10/13/21

C10-C28 (DRO)	569	50	mg/kg	500	13.6	111	70-130	10.5	20	
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Project: Critter Creek 9-15H
Project Number: TE027318130
Project Manager: Chris Roy

Reported:
10/15/21 09:14

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