

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 25, 2023

Costin McQueen

Civitas Resources

650 Southgate Drive

Windsor, CO 80550

RE: Bittersweet 3-1-13

Work Order #2308699

Enclosed are the results of analyses for samples received by Summit Scientific on 08/31/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Mikayla Axtell". The signature is fluid and cursive, written on a light gray rectangular background.

Mikayla Axtell For Paul Shrewsbury
President



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Bittersweet 3-1-13

Project Number: COX1879

Project Manager: Costin McQueen

Reported:
09/25/23 09:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WC-01	2308699-01	Soil	08/30/23 15:00	08/31/23 16:30
BKWC-01	2308699-02	Soil	08/30/23 15:15	08/31/23 16:30

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.

Client: <u>Cintas Resources</u>		Send Data To:		Send Invoice To:	
Address: <u>650 Southgate Dr</u>		Project Manager: <u>Costin McQueen</u>		Company: <u>Cintas Resources</u>	
City/State/Zip: <u>Windsor, CO</u>		E-Mail: <u>C.McQueen@CintasResources.com</u>		Project Name/Location: <u>Bittersweet 03-01-13</u>	
Phone: <u>720-438-9064</u>		Project Name: <u>Bittersweet 3-1-13</u>		AFE#: <u>C/C: COX1879</u>	
Sampler Name: <u>Cam Frost</u>		Project Number:		PO/Billing Codes: <u>M/M: 8520.162</u>	
				Contact: <u>Costin McQueen</u>	

					Preservative				Matrix			Analysis Requested								Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other									
1	WC-01	8/30/23	3:00 pm	2						X											Full 915
2	BKWC-01	8/30/23	3:15 pm	2																	915 metals, EC, SAR, PH, Boron
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: <u>Cam Frost</u>	Date/Time: <u>8/31/23 7:30 am</u>	Received by:	Date/Time:	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: <u>52</u>	Date/Time: <u>8/31/23 10:30</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/31/23 10:30</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>8.10</u>	Corrected Temperature: <u>0</u>	IR gun #:		HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2308699Client: Cintas Client Project ID: Bittersweet 3-1-13Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #:

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 8.6 Thermometer # 1

	Yes	No	N/A	Comments (If any)
If samples require cooling, is the temperature < 6°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>
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Same day</u>
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<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"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<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"/>	
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"/>	
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, H ₂ SO ₄ , NaOH, HNO ₃ , 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"/>	
<u>Additional Comments (if any):</u>				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

AS
Custodian Printed Name8/31/23
Date/Time

4466



Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Bittersweet 3-1-13
Project Number: COX1879
Project Manager: Costin McQueen

Reported:
09/25/23 09:07

WC-01
2308699-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **08/30/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.045	0.0020	mg/kg	1	BGH1272	08/31/23	08/31/23	EPA 8260B	
Toluene	0.19	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.018	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.27	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.063	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.036	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	7.8	0.50	"	"	"	"	"	"	

Date Sampled: **08/30/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0293	73.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0464	116 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0386	96.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **08/30/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	600	50	mg/kg	1	BGH1273	08/31/23	08/31/23	EPA 8015M	
C28-C36 (ORO)	130	50	"	"	"	"	"	"	

Date Sampled: **08/30/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.7	118 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PAH by EPA Method 8270D SIM

Date Sampled: **08/30/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0011	09/01/23	09/02/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.121	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.00820	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.0817	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0383	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.0345	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0559	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.192	0.00500	"	"	"	"	"	"	E

Date Sampled: **08/30/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0197	59.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0398	120 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/30/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	17.0	0.0100	mg/L	1	BGI0026	09/01/23	09/05/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/30/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Total Metals by EPA 6020B

Arsenic	0.762	0.200	mg/kg dry	1	BGI0025	09/01/23	09/05/23	EPA 6020B
Copper	2.48	0.400	"	"	"	"	"	"
Lead	2.34	0.200	"	"	"	"	"	"
Nickel	2.24	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	43.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/30/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0010	09/01/23	09/01/23	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **08/30/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1060	0.0662	mg/L dry	1	BGH1263	08/31/23	09/04/23	EPA 6020B	
Magnesium	121	0.0662	"	"	"	"	"	"	
Sodium	4560	0.0662	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **08/30/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	35.4	0.00100	units	1	BGI0096	09/05/23	09/05/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/30/23 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	75.6		%	1	BGI0022	09/01/23	09/01/23	Calculation	

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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/30/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	20.2	0.0100		mmhos/cm	1	BGI0006	09/01/23	09/01/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **08/30/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	6.38			pH Units	1	BGI0005	09/01/23	09/01/23	EPA 9045D	

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WC-01
2308699-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **08/30/23 15:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	101	0.400		mg/kg dry	1	BGI0449	09/01/23	09/19/23	EPA 6020B	
Cadmium	0.258	0.200		"	"	"	"	"	"	

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BKWC-01
2308699-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **08/30/23 15:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.789	0.0100	mg/L	1	BGI0026	09/01/23	09/05/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **08/30/23 15:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.834	0.200	mg/kg dry	1	BGI0025	09/01/23	09/05/23	EPA 6020B	
Barium	99.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.54	0.400	"	"	"	"	"	"	
Lead	6.30	0.200	"	"	"	"	"	"	
Nickel	2.83	0.400	"	"	"	"	"	"	
Silver	0.0272	0.0200	"	"	"	"	"	"	
Zinc	11.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **08/30/23 15:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0010	09/01/23	09/01/23	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **08/30/23 15:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	81.5	0.0629	mg/L dry	1	BGH1263	08/31/23	09/04/23	EPA 6020B	
Magnesium	23.8	0.0629	"	"	"	"	"	"	
Sodium	11.2	0.0629	"	"	"	"	"	"	

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Reported:
09/25/23 09:07

BKWC-01
2308699-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **08/30/23 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.281	0.00100	units	1	BGI0096	09/05/23	09/05/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/30/23 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.5		%	1	BGI0022	09/01/23	09/01/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **08/30/23 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.924	0.0100	mmhos/cm	1	BGI0006	09/01/23	09/01/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **08/30/23 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.23		pH Units	1	BGI0005	09/01/23	09/01/23	EPA 9045D	

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Project Manager: Costin McQueen

Reported:
09/25/23 09:07

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 BGH1272 - EPA 5030 Soil MS

Blank (BGH1272-BLK1)

Prepared: 08/31/23 Analyzed: 09/01/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0377		"	0.0400		94.4	50-150			
Surrogate: Toluene-d8	0.0414		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0362		"	0.0400		90.4	50-150			

LCS (BGH1272-BS1)

Prepared: 08/31/23 Analyzed: 09/01/23

Benzene	0.112	0.0020	mg/kg	0.100		112	70-130			
Toluene	0.119	0.0050	"	0.100		119	70-130			
Ethylbenzene	0.102	0.0050	"	0.100		102	70-130			
m,p-Xylene	0.257	0.010	"	0.200		128	70-130			
o-Xylene	0.109	0.0050	"	0.100		109	70-130			
1,2,4-Trimethylbenzene	0.122	0.0050	"	0.100		122	70-130			
1,3,5-Trimethylbenzene	0.124	0.0050	"	0.100		124	70-130			
Naphthalene	0.110	0.0038	"	0.100		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0373		"	0.0400		93.2	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0347		"	0.0400		86.8	50-150			

Matrix Spike (BGH1272-MS1)

Source: 2308698-01

Prepared: 08/31/23 Analyzed: 09/01/23

Benzene	0.106	0.0020	mg/kg	0.100	ND	106	70-130			
Toluene	0.114	0.0050	"	0.100	ND	114	70-130			
Ethylbenzene	0.127	0.0050	"	0.100	ND	127	70-130			
m,p-Xylene	0.245	0.010	"	0.200	ND	122	70-130			
o-Xylene	0.101	0.0050	"	0.100	ND	101	70-130			
1,2,4-Trimethylbenzene	0.116	0.0050	"	0.100	ND	116	70-130			
1,3,5-Trimethylbenzene	0.118	0.0050	"	0.100	ND	118	70-130			
Naphthalene	0.111	0.0038	"	0.100	ND	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0365		"	0.0400		91.3	50-150			
Surrogate: Toluene-d8	0.0389		"	0.0400		97.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0347		"	0.0400		86.7	50-150			

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09/25/23 09:07

Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BGH1272 - EPA 5030 Soil MS

Matrix Spike Dup (BGH1272-MSD1)	Source: 2308698-01			Prepared: 08/31/23 Analyzed: 09/01/23						
Benzene	0.114	0.0020	mg/kg	0.100	ND	114	70-130	7.83	30	
Toluene	0.124	0.0050	"	0.100	ND	124	70-130	8.39	30	
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130	20.8	30	
m,p-Xylene	0.257	0.010	"	0.200	ND	128	70-130	4.77	30	
o-Xylene	0.108	0.0050	"	0.100	ND	108	70-130	6.08	30	
1,2,4-Trimethylbenzene	0.124	0.0050	"	0.100	ND	124	70-130	6.55	30	
1,3,5-Trimethylbenzene	0.126	0.0050	"	0.100	ND	126	70-130	6.74	30	
Naphthalene	0.121	0.0038	"	0.100	ND	121	70-130	8.39	30	
Surrogate: 1,2-Dichloroethane-d4	0.0386		"	0.0400		96.4	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.6	50-150			
Surrogate: 4-Bromofluorobenzene	0.0349		"	0.0400		87.3	50-150			

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Bittersweet 3-1-13
Project Number: COX1879
Project Manager: Costin McQueen

Reported:
09/25/23 09:07

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGH1273 - EPA 3550A

Blank (BGH1273-BLK1)

Prepared: 08/31/23 Analyzed: 09/01/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	13.8		"	12.5		110	30-150			

LCS (BGH1273-BS1)

Prepared: 08/31/23 Analyzed: 09/01/23

C10-C28 (DRO)	579	50	mg/kg	500		116	70-130			
Surrogate: o-Terphenyl	13.7		"	12.5		110	30-150			

Matrix Spike (BGH1273-MS1)

Source: 2308698-01

Prepared: 08/31/23 Analyzed: 09/01/23

C10-C28 (DRO)	510	50	mg/kg	500	13.9	99.2	70-130			
Surrogate: o-Terphenyl	13.5		"	12.5		108	30-150			

Matrix Spike Dup (BGH1273-MSD1)

Source: 2308698-01

Prepared: 08/31/23 Analyzed: 09/01/23

C10-C28 (DRO)	484	50	mg/kg	500	13.9	94.0	70-130	5.26	20	
Surrogate: o-Terphenyl	12.4		"	12.5		99.3	30-150			

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Bittersweet 3-1-13
Project Number: COX1879
Project Manager: Costin McQueen

Reported:
09/25/23 09:07

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGI0011 - EPA 5030 Soil MS

Blank (BGI0011-BLK1)

Prepared: 09/01/23 Analyzed: 09/02/23

Benzo (b) fluoranthene	ND	0.00500	mg/kg							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0339		"	0.0333		102	40-150			
Surrogate: Fluoranthene-d10	0.0173		"	0.0333		51.9	40-150			

LCS (BGI0011-BS1)

Prepared: 09/01/23 Analyzed: 09/02/23

Benzo (b) fluoranthene	0.0210	0.00500	mg/kg	0.0333		62.9	30-120			
Benzo (k) fluoranthene	0.0218	0.00500	"	0.0333		65.3	30-120			
Chrysene	0.0206	0.00500	"	0.0333		61.7	30-120			
Fluorene	0.0201	0.00500	"	0.0333		60.2	30-120			
Pyrene	0.0219	0.00500	"	0.0333		65.6	35-142			
1-Methylnaphthalene	0.0200	0.00500	"	0.0333		60.0	35-142			
2-Methylnaphthalene	0.0195	0.00500	"	0.0333		58.4	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0212		"	0.0333		63.6	40-150			
Surrogate: Fluoranthene-d10	0.0186		"	0.0333		55.9	40-150			

Matrix Spike (BGI0011-MS1)

Source: 2308632-20

Prepared: 09/01/23 Analyzed: 09/02/23

Benzo (b) fluoranthene	0.0324	0.00500	mg/kg	0.0333	ND	97.1	30-120			
Benzo (k) fluoranthene	0.0340	0.00500	"	0.0333	ND	102	30-120			
Chrysene	0.0286	0.00500	"	0.0333	ND	85.7	30-120			
Fluorene	0.0241	0.00500	"	0.0333	ND	72.2	30-120			
Pyrene	0.0306	0.00500	"	0.0333	ND	91.7	35-142			
1-Methylnaphthalene	0.0256	0.00500	"	0.0333	ND	76.7	15-130			
2-Methylnaphthalene	0.0208	0.00500	"	0.0333	ND	62.5	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0256		"	0.0333		76.8	40-150			
Surrogate: Fluoranthene-d10	0.0297		"	0.0333		89.0	40-150			

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Bittersweet 3-1-13
Project Number: COX1879
Project Manager: Costin McQueen

Reported:
09/25/23 09:07

PAH by EPA Method 8270D SIM - Quality Control
Summit Scientific

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

Batch BGI0011 - EPA 5030 Soil MS

Matrix Spike Dup (BGI0011-MSD1)		Source: 2308632-20			Prepared: 09/01/23 Analyzed: 09/02/23						
Benzo (b) fluoranthene	0.0278	0.00500	mg/kg	0.0333	ND	83.3	30-120	15.3	30		
Benzo (k) fluoranthene	0.0292	0.00500	"	0.0333	ND	87.5	30-120	15.2	30		
Chrysene	0.0284	0.00500	"	0.0333	ND	85.1	30-120	0.733	30		
Fluorene	0.0273	0.00500	"	0.0333	ND	81.9	30-120	12.6	30		
Pyrene	0.0303	0.00500	"	0.0333	ND	90.8	35-142	0.994	30		
1-Methylnaphthalene	0.0298	0.00500	"	0.0333	ND	89.3	15-130	15.2	50		
2-Methylnaphthalene	0.0294	0.00500	"	0.0333	ND	88.1	15-130	34.0	50		
Surrogate: 2-Methylnaphthalene-d10		0.0355	"	0.0333		107	40-150				
Surrogate: Fluoranthene-d10		0.0273	"	0.0333		81.9	40-150				

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Bittersweet 3-1-13

Project Number: COX1879

Project Manager: Costin McQueen

Reported:
09/25/23 09:07

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control

Summit Scientific

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

Batch BGI0026 - EPA 3050B

Blank (BGI0026-BLK1)

Prepared: 09/01/23 Analyzed: 09/05/23

Boron ND 0.0100 mg/L

LCS (BGI0026-BS1)

Prepared: 09/01/23 Analyzed: 09/05/23

Boron 5.32 0.0100 mg/L 5.00 106 80-120

Duplicate (BGI0026-DUP1)

Source: 2308698-01

Prepared: 09/01/23 Analyzed: 09/05/23

Boron 0.0855 0.0100 mg/L 0.121 33.9 20 QR-01

Matrix Spike (BGI0026-MS1)

Source: 2308698-01

Prepared: 09/01/23 Analyzed: 09/05/23

Boron 5.03 0.0100 mg/L 5.00 0.121 98.1 75-125

Matrix Spike Dup (BGI0026-MSD1)

Source: 2308698-01

Prepared: 09/01/23 Analyzed: 09/05/23

Boron 5.68 0.0100 mg/L 5.00 0.121 111 75-125 12.1 25

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Bittersweet 3-1-13
Project Number: COX1879
Project Manager: Costin McQueen

Reported:
09/25/23 09:07

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0025 - EPA 3050B

Blank (BGI0025-BLK1)

Prepared: 09/01/23 Analyzed: 09/05/23

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"
Selenium	ND	0.260	"

LCS (BGI0025-BS1)

Prepared: 09/01/23 Analyzed: 09/05/23

Arsenic	37.7	0.200	mg/kg wet	40.0	94.1	80-120
Barium	35.5	0.400	"	40.0	88.9	80-120
Cadmium	1.93	0.200	"	2.00	96.6	80-120
Copper	36.3	0.400	"	40.0	90.9	80-120
Lead	19.8	0.200	"	20.0	98.9	80-120
Nickel	36.1	0.400	"	40.0	90.4	80-120
Silver	1.99	0.0200	"	2.00	99.5	80-120
Zinc	36.9	0.400	"	40.0	92.3	80-120

Duplicate (BGI0025-DUP1)

Source: 2308698-01

Prepared: 09/01/23 Analyzed: 09/05/23

Arsenic	1.00	0.200	mg/kg dry	2.15	72.4	20	QR-01
Barium	49.3	0.400	"	50.8	3.05	20	
Cadmium	0.0260	0.200	"	0.0306	16.2	20	
Copper	0.477	0.400	"	0.707	38.9	20	QR-01
Lead	2.74	0.200	"	2.57	6.25	20	
Nickel	1.08	0.400	"	1.12	3.61	20	
Silver	0.0112	0.0200	"	0.0107	4.65	20	
Zinc	5.32	0.400	"	5.27	0.963	20	
Selenium	ND	0.260	"	ND		200	

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Bittersweet 3-1-13
Project Number: COX1879
Project Manager: Costin McQueen

Reported:
09/25/23 09:07

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0025 - EPA 3050B

Matrix Spike (BGI0025-MS1)		Source: 2308698-01			Prepared: 09/01/23		Analyzed: 09/05/23				
Arsenic	16.8	0.200	mg/kg dry	51.0	2.15	28.6	75-125				QM-01
Barium	81.2	0.400	"	51.0	50.8	59.6	75-125				QM-01
Cadmium	1.57	0.200	"	2.55	0.0306	60.1	75-125				QM-01
Copper	16.6	0.400	"	51.0	0.707	31.2	75-125				QM-01
Lead	17.5	0.200	"	25.5	2.57	58.5	75-125				QM-01
Nickel	17.4	0.400	"	51.0	1.12	31.9	75-125				QM-01
Silver	1.59	0.0200	"	2.55	0.0107	62.0	75-125				QM-01
Zinc	22.1	0.400	"	51.0	5.27	32.9	75-125				QM-01

Matrix Spike Dup (BGI0025-MSD1)		Source: 2308698-01			Prepared: 09/01/23		Analyzed: 09/05/23				
Arsenic	18.2	0.200	mg/kg dry	51.0	2.15	31.5	75-125	8.22	25		QM-01
Barium	95.3	0.400	"	51.0	50.8	87.1	75-125	15.9	25		
Cadmium	1.80	0.200	"	2.55	0.0306	69.4	75-125	14.1	25		QM-01
Copper	17.6	0.400	"	51.0	0.707	33.1	75-125	5.79	25		QM-01
Lead	19.8	0.200	"	25.5	2.57	67.7	75-125	12.6	25		QM-01
Nickel	18.3	0.400	"	51.0	1.12	33.6	75-125	4.96	25		QM-01
Silver	1.82	0.0200	"	2.55	0.0107	71.0	75-125	13.4	25		QM-01
Zinc	23.6	0.400	"	51.0	5.27	35.9	75-125	6.76	25		QM-01

Batch BGI0449 - EPA 3050B

Blank (BGI0449-BLK1)					Prepared: 09/15/23		Analyzed: 09/19/23				
Arsenic	ND	0.200	mg/kg wet								
Barium	ND	0.400	"								
Cadmium	ND	0.200	"								
Copper	ND	0.400	"								
Lead	ND	0.200	"								
Nickel	ND	0.400	"								
Silver	ND	0.0200	"								
Zinc	ND	0.400	"								
Selenium	ND	0.260	"								

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Bittersweet 3-1-13
Project Number: COX1879
Project Manager: Costin McQueen

Reported:
09/25/23 09:07

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0449 - EPA 3050B

LCS (BGI0449-BS1)

Prepared: 09/15/23 Analyzed: 09/19/23

Arsenic	42.8	0.200	mg/kg wet	40.0		107	80-120			
Barium	39.7	0.400	"	40.0		99.3	80-120			
Cadmium	1.95	0.200	"	2.00		97.4	80-120			
Copper	41.1	0.400	"	40.0		103	80-120			
Lead	21.4	0.200	"	20.0		107	80-120			
Nickel	42.3	0.400	"	40.0		106	80-120			
Silver	1.91	0.0200	"	2.00		95.3	80-120			
Zinc	41.0	0.400	"	40.0		103	80-120			

Duplicate (BGI0449-DUP1)

Source: 2309239-01

Prepared: 09/15/23 Analyzed: 09/19/23

Arsenic	1.35	0.200	mg/kg dry		1.26			6.49	20	
Barium	168	0.400	"		167			0.854	20	
Cadmium	0.251	0.200	"		0.186			30.0	20	QR-01
Copper	2.30	0.400	"		2.27			1.21	20	
Lead	9.43	0.200	"		8.67			8.43	20	
Nickel	3.03	0.400	"		12.0			119	20	QR-01
Silver	0.0783	0.0200	"		0.0672			15.2	20	
Zinc	8.64	0.400	"		12.0			32.2	20	QR-04
Selenium	ND	0.260	"		ND				200	

Matrix Spike (BGI0449-MS1)

Source: 2309239-01

Prepared: 09/15/23 Analyzed: 09/19/23

Arsenic	10.3	0.200	mg/kg dry	46.0	1.26	19.7	75-125			QM-01
Barium	172	0.400	"	46.0	167	10.6	75-125			QM-01
Cadmium	1.63	0.200	"	2.30	0.186	62.8	75-125			QM-01
Copper	11.3	0.400	"	46.0	2.27	19.7	75-125			QM-01
Lead	21.5	0.200	"	23.0	8.67	55.7	75-125			QM-01
Nickel	12.6	0.400	"	46.0	12.0	1.39	75-125			QM-01
Silver	1.47	0.0200	"	2.30	0.0672	60.8	75-125			QM-01
Zinc	18.1	0.400	"	46.0	12.0	13.4	75-125			QM-01

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Bittersweet 3-1-13
Project Number: COX1879
Project Manager: Costin McQueen

Reported:
09/25/23 09:07

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0449 - EPA 3050B

Matrix Spike Dup (BGI0449-MSD1)		Source: 2309239-01			Prepared: 09/15/23 Analyzed: 09/19/23					
Arsenic	10.2	0.200	mg/kg dry	46.0	1.26	19.4	75-125	1.31	25	QM-01
Barium	173	0.400	"	46.0	167	12.7	75-125	0.584	25	QM-01
Cadmium	1.64	0.200	"	2.30	0.186	63.2	75-125	0.647	25	QM-01
Copper	11.2	0.400	"	46.0	2.27	19.4	75-125	1.33	25	QM-01
Lead	21.6	0.200	"	23.0	8.67	56.2	75-125	0.440	25	QM-01
Nickel	12.5	0.400	"	46.0	12.0	1.21	75-125	0.659	25	QM-01
Silver	1.48	0.0200	"	2.30	0.0672	61.5	75-125	1.16	25	QM-01
Zinc	17.9	0.400	"	46.0	12.0	12.9	75-125	1.36	25	QM-01

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Bittersweet 3-1-13
Project Number: COX1879
Project Manager: Costin McQueen

Reported:
09/25/23 09:07

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BGI0010 - 3060A Mod

Blank (BGI0010-BLK1)

Prepared & Analyzed: 09/01/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGI0010-BS1)

Prepared & Analyzed: 09/01/23

Chromium, Hexavalent 25.4 0.30 mg/kg wet 25.0 101 80-120

Duplicate (BGI0010-DUP1)

Source: 2308698-01

Prepared & Analyzed: 09/01/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGI0010-MS1)

Source: 2308698-01

Prepared & Analyzed: 09/01/23

Chromium, Hexavalent 43.2 0.30 mg/kg dry 31.9 ND 135 75-125 QM-05

Matrix Spike Dup (BGI0010-MSD1)

Source: 2308698-01

Prepared & Analyzed: 09/01/23

Chromium, Hexavalent 42.9 0.30 mg/kg dry 31.9 ND 135 75-125 0.593 20 QM-05

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Bittersweet 3-1-13

Project Number: COX1879

Project Manager: Costin McQueen

Reported:
09/25/23 09:07

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BGH1263 - General Preparation

Blank (BGH1263-BLK1)

Prepared: 08/31/23 Analyzed: 09/04/23

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BGH1263-BS1)

Prepared: 08/31/23 Analyzed: 09/04/23

Calcium	4.35	0.0500	mg/L wet	5.00	87.1	70-130
Magnesium	5.63	0.0500	"	5.00	113	70-130
Sodium	5.67	0.0500	"	5.00	113	70-130

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Bittersweet 3-1-13

Project Number: COX1879

Project Manager: Costin McQueen

Reported:
09/25/23 09:07

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BGI0022 - General Preparation

Duplicate (BGI0022-DUP1)

Source: 2308698-01

Prepared & Analyzed: 09/01/23

% Solids	79.2	%		78.4		1.04	20
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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Bittersweet 3-1-13

Project Number: COX1879
Project Manager: Costin McQueen

Reported:
09/25/23 09:07

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BGI0006 - General Preparation

Blank (BGI0006-BLK1)

Prepared & Analyzed: 09/01/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGI0006-BS1)

Prepared & Analyzed: 09/01/23

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BGI0006-DUP1)

Source: 2308667-01

Prepared & Analyzed: 09/01/23

Specific Conductance (EC) 3.81 0.0100 mmhos/cm 3.79 0.395 20

Summit Scientific

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Civitas Resources
650 Southgate Drive
Windsor CO, 80550

Project: Bittersweet 3-1-13

Project Number: COX1879

Project Manager: Costin McQueen

Reported:
09/25/23 09:07

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BGI0005 - General Preparation

LCS (BGI0005-BS1)

Prepared & Analyzed: 09/01/23

pH	9.12	pH Units	9.18	99.3	95-105
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Duplicate (BGI0005-DUP1)

Source: 2308667-01

Prepared & Analyzed: 09/01/23

pH	7.67	pH Units	7.65	0.261	20
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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.



Civitas Resources
650 Southgate Drive
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Project: Bittersweet 3-1-13

Project Number: COX1879
Project Manager: Costin McQueen

Reported:
09/25/23 09:07

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
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