

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 29, 2025

Sam Vogt

Tasman Geosciences

6855 W. 119th Ave.

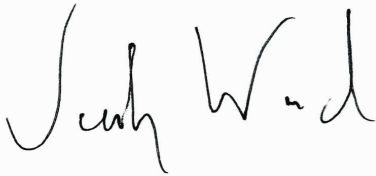
Broomfield, CO 80020

RE: Civitas - Anderson MB 33-3J

Work Order #2501245

Enclosed are the results of analyses for samples received by Summit Scientific on 01/16/25 18:06. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Anderson MB 33-3J

Project Number: 23729
Project Manager: Sam Vogt

Reported:
01/29/25 15:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	2501245-01	Soil	01/16/25 09:50	01/16/25 18:06
SP-CS02	2501245-02	Soil	01/16/25 10:00	01/16/25 18:06

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4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 1 of 1
2501245	

Client: Civitas/Tasman	Project Manager: Sam Vogt / Jacob Evans	Send Invoice To:
Address: 6855 W. 119th Ave.	E-Mail: svogt@tasman-geo.com / jevans@civiresources.com	Company:
City/State/Zip: Broomfield, CO 80020	Project Name: Anderson MB 33-3J	Project Name/Location:
Phone: PM Phone # (610) 405-9078	Project Number:	AFE#: 23729
Sampler Name: Max Sherwin		PO/Billing Codes: 8523.195
		Contact:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN	1,2,4 + 1,3,5 TMBs	TPH (GRO,DRO,ORO)	PAH	pH, EC, SAR	Boron	
1	WH-BOI26'	1/16/2025	950	2			X			X									pH, EC, SAR by Saturated paste preparation method Boron by Hot Water Soluble preparation Method Table 915 Metals - As, Ba, Cd, Cu, Pb, Ni, Sc, Ag, Zn, Cr VI Full Table 915
2	SP-CS02	↓	1000	↓			↓			↓								↓	
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <i>MSW</i>	Date/Time: 1/16/2025 1700	Received by: Tasman Lockbox	Date/Time: 1/16/2025 1700	TAT Business Days	Field DO	Notes:
Relinquished by: Tasman Lockbox	Date/Time: 1/16/2025 1700	Received by: <i>[Signature]</i>	Date/Time: 1/16/2025 1800	Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 4.0	Corrected Temperature: 5	IR gun #: /	HNO3 lot #:	Standard	Field Turb.	

S₂

S2 Work Order# 2501245

Sample Receipt Checklist

Client: Custast Turman Client Project ID: Anderson MB 33-3J

Received Via: H.D./R.U./FedEx/UPS/USPS/Other Airbill #: _____

Matrix (Circle all that apply) Air/Soil/Water/Other Temp (°C) 4.0 Thermometer # 1

Bottle ware (Circle all that apply) Glass Jar/Voa/Amber/Poly/Other

	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.	-			<u>on ice</u>
If custody seals are present, are they intact? ⁽¹⁾	-			
Are samples due within 48 hours?	-			<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, Total Residual Chlorine (TRC)		-		
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	-			
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	-			
Were all samples received intact? ⁽¹⁾	✓			
Was adequate sample volume provided? ⁽¹⁾	✓			
Were samples provided in appropriate bottle ware?	✓			
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	✓			
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
Are any samples/bottles preserved (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			✓	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Are there requested analysis that cannot be performed by S2? Note analysis in the comments column		✓		
<u>Additional Comments (if any):</u>				

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

Control Form #: SRC-001

AS

Custodian Printed Name

1/16/25
Date/Time



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Anderson MB 33-3J

Project Number: 23729
Project Manager: Sam Vogt

Reported:
01/29/25 15:43

WH-B01@6'
2501245-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIA0744	01/16/25	01/17/25	EPA 8260B	
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		"	"	"	"	"	"	

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0479	120 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BIA0784	01/16/25	01/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.78	70.3 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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WH-B01@6'
2501245-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA0854	01/20/25	01/28/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0174	52.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0202	60.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0825	01/17/25	01/20/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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WH-B01@6'
2501245-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.14	0.200	mg/kg dry	1	BIA0805	01/17/25	01/19/25	EPA 6020B	
Barium	387	0.400	"	"	"	"	"	"	
Cadmium	0.217	0.200	"	"	"	"	"	"	
Copper	7.87	0.400	"	"	"	"	"	"	
Lead	26.5	0.200	"	"	"	"	"	"	
Nickel	8.55	0.400	"	"	"	"	"	"	
Silver	0.0457	0.0200	"	"	"	"	"	"	
Zinc	31.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0813	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	66.8	0.0500	mg/L dry	1	BIA0785	01/16/25	01/18/25	EPA 6020B	
Magnesium	15.4	0.0500	"	"	"	"	"	"	
Sodium	51.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.48	0.00100	units	1	BIA0840	01/19/25	01/19/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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WH-B01@6'
2501245-01 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.6	%	1	BIA0809	01/17/25	01/17/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/16/25 09:50**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.659	0.0100	mmhos/cm	1	BIA0786	01/16/25	01/17/25	EPA 120.1	

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

Date Sampled: **01/16/25 09:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.18		pH Units	1	BIA0787	01/16/25	01/17/25	EPA 9045D	

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01/29/25 15:43

SP-CS02
2501245-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/16/25 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BIA0744	01/16/25	01/17/25	EPA 8260B	
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		"	"	"	"	"	"	

Date Sampled: **01/16/25 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0484	121 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0415	104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/16/25 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	59	50		mg/kg	1	BIA0784	01/16/25	01/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/16/25 10:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.8	86.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2501245-02 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/16/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA0854	01/20/25	01/28/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.00561	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/16/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0230	69.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0253	75.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/16/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIA0825	01/17/25	01/20/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/16/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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01/29/25 15:43

SP-CS02
2501245-02 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.15	0.200	mg/kg dry	1	BIA0805	01/17/25	01/19/25	EPA 6020B	
Barium	320	0.400	"	"	"	"	"	"	
Cadmium	0.286	0.200	"	"	"	"	"	"	
Copper	10.2	0.400	"	"	"	"	"	"	
Lead	21.0	0.200	"	"	"	"	"	"	
Nickel	9.16	0.400	"	"	"	"	"	"	
Silver	0.0765	0.0200	"	"	"	"	"	"	
Zinc	34.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/16/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA0813	01/17/25	01/17/25	EPA 7196A	

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

Date Sampled: **01/16/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	51.1	0.0500	mg/L dry	1	BIA0785	01/16/25	01/18/25	EPA 6020B	
Magnesium	15.6	0.0500	"	"	"	"	"	"	
Sodium	115	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/16/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.61	0.00100	units	1	BIA0840	01/19/25	01/19/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/16/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: 23729
Project Manager: Sam Vogt

Reported:
01/29/25 15:43

SP-CS02
2501245-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.5	%	1	BIA0809	01/17/25	01/17/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/16/25 10:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.821	0.0100	mmhos/cm	1	BIA0786	01/16/25	01/17/25	EPA 120.1	

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

Date Sampled: **01/16/25 10:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BIA0787	01/16/25	01/17/25	EPA 9045D	

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Project Number: 23729
Project Manager: Sam Vogt

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01/29/25 15:43

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 BIA0744 - EPA 5030 Soil MS

Blank (BIA0744-BLK1)

Prepared: 01/16/25 Analyzed: 01/17/25

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0469		"	0.0400		117	50-150			
<i>Surrogate: Toluene-d8</i>	0.0400		"	0.0400		100	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0420		"	0.0400		105	50-150			

LCS (BIA0744-BS1)

Prepared: 01/16/25 Analyzed: 01/17/25

Benzene	0.0895	0.0020	mg/kg	0.100		89.5	70-130			
Toluene	0.0874	0.0050	"	0.100		87.4	70-130			
Ethylbenzene	0.0833	0.0050	"	0.100		83.3	70-130			
m,p-Xylene	0.163	0.010	"	0.200		81.5	70-130			
o-Xylene	0.0835	0.0050	"	0.100		83.5	70-130			
1,2,4-Trimethylbenzene	0.0840	0.0050	"	0.100		84.0	70-130			
1,3,5-Trimethylbenzene	0.0824	0.0050	"	0.100		82.4	70-130			
Naphthalene	0.0978	0.0038	"	0.100		97.8	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0460		"	0.0400		115	50-150			
<i>Surrogate: Toluene-d8</i>	0.0402		"	0.0400		100	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0409		"	0.0400		102	50-150			

Matrix Spike (BIA0744-MS1)

Source: 2501243-01

Prepared: 01/16/25 Analyzed: 01/17/25

Benzene	0.0791	0.0020	mg/kg	0.100	ND	79.1	70-130			
Toluene	0.0781	0.0050	"	0.100	ND	78.1	70-130			
Ethylbenzene	0.0736	0.0050	"	0.100	ND	73.6	70-130			
m,p-Xylene	0.146	0.010	"	0.200	ND	72.9	70-130			
o-Xylene	0.0737	0.0050	"	0.100	ND	73.7	70-130			
1,2,4-Trimethylbenzene	0.0729	0.0050	"	0.100	ND	72.9	70-130			
1,3,5-Trimethylbenzene	0.0724	0.0050	"	0.100	ND	72.4	70-130			
Naphthalene	0.0829	0.0038	"	0.100	ND	82.9	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0479		"	0.0400		120	50-150			
<i>Surrogate: Toluene-d8</i>	0.0395		"	0.0400		98.8	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0411		"	0.0400		103	50-150			

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Anderson MB 33-3J

Project Number: 23729
Project Manager: Sam Vogt

Reported:
01/29/25 15:43

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 BIA0744 - EPA 5030 Soil MS

Matrix Spike Dup (BIA0744-MSD1)	Source: 2501243-01			Prepared: 01/16/25 Analyzed: 01/17/25						
Benzene	0.0803	0.0020	mg/kg	0.100	ND	80.3	70-130	1.54	30	
Toluene	0.0782	0.0050	"	0.100	ND	78.2	70-130	0.0384	30	
Ethylbenzene	0.0770	0.0050	"	0.100	ND	77.0	70-130	4.58	30	
m,p-Xylene	0.154	0.010	"	0.200	ND	77.1	70-130	5.66	30	
o-Xylene	0.0773	0.0050	"	0.100	ND	77.3	70-130	4.73	30	
1,2,4-Trimethylbenzene	0.0769	0.0050	"	0.100	ND	76.9	70-130	5.33	30	
1,3,5-Trimethylbenzene	0.0763	0.0050	"	0.100	ND	76.3	70-130	5.33	30	
Naphthalene	0.0874	0.0038	"	0.100	ND	87.4	70-130	5.36	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0470</i>		<i>"</i>	<i>0.0400</i>		<i>117</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0405</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0412</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>			

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Project: Civitas - Anderson MB 33-3J

Project Number: 23729
Project Manager: Sam Vogt

Reported:
01/29/25 15:43

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BIA0784 - EPA 3550A

Blank (BIA0784-BLK1)

Prepared: 01/16/25 Analyzed: 01/17/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	10.8		"	12.5		86.5	30-150				

LCS (BIA0784-BS1)

Prepared: 01/16/25 Analyzed: 01/17/25

C10-C28 (DRO)	609	50	mg/kg	500		122	70-130				
Surrogate: <i>o</i> -Terphenyl	13.4		"	12.5		107	30-150				

Matrix Spike (BIA0784-MS1)

Source: 2501242-01

Prepared: 01/16/25 Analyzed: 01/17/25

C10-C28 (DRO)	526	50	mg/kg	500	31.0	98.9	70-130				
Surrogate: <i>o</i> -Terphenyl	11.1		"	12.5		88.7	30-150				

Matrix Spike Dup (BIA0784-MSD1)

Source: 2501242-01

Prepared: 01/16/25 Analyzed: 01/17/25

C10-C28 (DRO)	524	50	mg/kg	500	31.0	98.7	70-130	0.244	20		
Surrogate: <i>o</i> -Terphenyl	10.9		"	12.5		87.4	30-150				

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Project: Civitas - Anderson MB 33-3J

Project Number: 23729
Project Manager: Sam Vogt

Reported:
01/29/25 15:43

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIA0854 - EPA 5030 Soil MS

Blank (BIA0854-BLK1)

Prepared: 01/20/25 Analyzed: 01/28/25

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0207</i>		"	<i>0.0333</i>		<i>62.2</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0249</i>		"	<i>0.0333</i>		<i>74.6</i>	<i>40-140</i>			

LCS (BIA0854-BS1)

Prepared: 01/20/25 Analyzed: 01/28/25

Acenaphthene	0.0256	0.00500	mg/kg	0.0333		76.7	40-140			
Anthracene	0.0256	0.00500	"	0.0333		76.8	40-140			
Benzo (a) anthracene	0.0263	0.00500	"	0.0333		79.0	40-140			
Benzo (a) pyrene	0.0244	0.00500	"	0.0333		73.3	40-140			
Benzo (b) fluoranthene	0.0248	0.00500	"	0.0333		74.5	40-140			
Benzo (k) fluoranthene	0.0258	0.00500	"	0.0333		77.3	40-140			
Chrysene	0.0265	0.00500	"	0.0333		79.6	40-140			
Dibenz (a,h) anthracene	0.0283	0.00500	"	0.0333		84.8	40-140			
Fluoranthene	0.0257	0.00500	"	0.0333		77.0	40-140			
Fluorene	0.0257	0.00500	"	0.0333		77.1	40-140			
Indeno (1,2,3-cd) pyrene	0.0175	0.00500	"	0.0333		52.5	40-140			
Pyrene	0.0280	0.00500	"	0.0333		83.9	40-140			
1-Methylnaphthalene	0.0230	0.00500	"	0.0333		69.1	40-140			
2-Methylnaphthalene	0.0240	0.00500	"	0.0333		72.1	40-140			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0235</i>		"	<i>0.0333</i>		<i>70.4</i>	<i>40-140</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0255</i>		"	<i>0.0333</i>		<i>76.6</i>	<i>40-140</i>			

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Broomfield CO, 80020

Project: Civitas - Anderson MB 33-3J

Project Number: 23729
Project Manager: Sam Vogt

Reported:
01/29/25 15:43

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIA0854 - EPA 5030 Soil MS

Matrix Spike (BIA0854-MS1)	Source: 2501127-01			Prepared: 01/20/25 Analyzed: 01/28/25					
Acenaphthene	0.0218	0.00500	mg/kg	0.0333	ND	65.4	40-140		
Anthracene	0.0220	0.00500	"	0.0333	ND	65.9	40-140		
Benzo (a) anthracene	0.0216	0.00500	"	0.0333	ND	64.8	40-140		
Benzo (a) pyrene	0.0191	0.00500	"	0.0333	ND	57.2	40-140		
Benzo (b) fluoranthene	0.0189	0.00500	"	0.0333	ND	56.8	40-140		
Benzo (k) fluoranthene	0.0197	0.00500	"	0.0333	ND	59.0	40-140		
Chrysene	0.0215	0.00500	"	0.0333	ND	64.4	40-140		
Dibenz (a,h) anthracene	0.0232	0.00500	"	0.0333	ND	69.7	40-140		
Fluoranthene	0.0212	0.00500	"	0.0333	ND	63.6	40-140		
Fluorene	0.0220	0.00500	"	0.0333	ND	66.0	40-140		
Indeno (1,2,3-cd) pyrene	0.0212	0.00500	"	0.0333	ND	63.5	40-140		
Pyrene	0.0227	0.00500	"	0.0333	ND	68.0	40-140		
1-Methylnaphthalene	0.0192	0.00500	"	0.0333	ND	57.5	40-140		
2-Methylnaphthalene	0.0190	0.00500	"	0.0333	ND	57.0	40-140		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0188</i>		"	<i>0.0333</i>		<i>56.5</i>	<i>40-140</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0212</i>		"	<i>0.0333</i>		<i>63.6</i>	<i>40-140</i>		

Matrix Spike Dup (BIA0854-MSD1)	Source: 2501127-01			Prepared: 01/20/25 Analyzed: 01/28/25					
Acenaphthene	0.0268	0.00500	mg/kg	0.0333	ND	80.3	40-140	20.6	30
Anthracene	0.0267	0.00500	"	0.0333	ND	80.2	40-140	19.6	30
Benzo (a) anthracene	0.0274	0.00500	"	0.0333	ND	82.3	40-140	23.8	30
Benzo (a) pyrene	0.0244	0.00500	"	0.0333	ND	73.1	40-140	24.5	30
Benzo (b) fluoranthene	0.0244	0.00500	"	0.0333	ND	73.2	40-140	25.3	30
Benzo (k) fluoranthene	0.0246	0.00500	"	0.0333	ND	73.7	40-140	22.1	30
Chrysene	0.0265	0.00500	"	0.0333	ND	79.4	40-140	20.9	30
Dibenz (a,h) anthracene	0.0315	0.00500	"	0.0333	ND	94.5	40-140	30.2	30
Fluoranthene	0.0261	0.00500	"	0.0333	ND	78.4	40-140	20.9	30
Fluorene	0.0268	0.00500	"	0.0333	ND	80.4	40-140	19.7	30
Indeno (1,2,3-cd) pyrene	0.0189	0.00500	"	0.0333	ND	56.6	40-140	11.6	30
Pyrene	0.0283	0.00500	"	0.0333	ND	84.8	40-140	22.0	30
1-Methylnaphthalene	0.0240	0.00500	"	0.0333	ND	72.1	40-140	22.5	30
2-Methylnaphthalene	0.0247	0.00500	"	0.0333	ND	74.1	40-140	26.0	30
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0244</i>		"	<i>0.0333</i>		<i>73.3</i>	<i>40-140</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0260</i>		"	<i>0.0333</i>		<i>78.0</i>	<i>40-140</i>		

QR-02

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Anderson MB 33-3J

Project Number: 23729
Project Manager: Sam Vogt

Reported:
01/29/25 15:43

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

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

Batch BIA0825 - EPA 3050B

Blank (BIA0825-BLK1)

Prepared: 01/17/25 Analyzed: 01/20/25

Boron ND 2.00 mg/L

LCS (BIA0825-BS1)

Prepared: 01/17/25 Analyzed: 01/20/25

Boron 5.33 2.00 mg/L 5.00 107 80-120

Duplicate (BIA0825-DUP1)

Source: 2501242-01

Prepared: 01/17/25 Analyzed: 01/20/25

Boron 0.669 2.00 mg/L 0.674 0.796 20

Matrix Spike (BIA0825-MS1)

Source: 2501242-01

Prepared: 01/17/25 Analyzed: 01/20/25

Boron 5.86 2.00 mg/L 5.00 0.674 104 75-125

Matrix Spike Dup (BIA0825-MSD1)

Source: 2501242-01

Prepared: 01/17/25 Analyzed: 01/20/25

Boron 5.70 2.00 mg/L 5.00 0.674 101 75-125 2.84 25

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Tasman Geosciences
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Broomfield CO, 80020

Project: Civitas - Anderson MB 33-3J

Project Number: 23729
Project Manager: Sam Vogt

Reported:
01/29/25 15:43

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIA0805 - EPA 3050B

Blank (BIA0805-BLK1)

Prepared: 01/17/25 Analyzed: 01/19/25

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 (BIA0805-BS1)

Prepared: 01/17/25 Analyzed: 01/19/25

Arsenic	42.9	0.200	mg/kg wet	41.3	104	80-120
Barium	42.3	0.400	"	41.3	102	80-120
Cadmium	2.05	0.200	"	2.07	99.3	80-120
Copper	42.7	0.400	"	41.3	103	80-120
Lead	20.4	0.200	"	20.7	98.6	80-120
Nickel	43.3	0.400	"	41.3	105	80-120
Silver	2.03	0.0200	"	2.07	98.5	80-120
Zinc	42.8	0.400	"	41.3	104	80-120
Selenium	4.15	0.260	"	4.13	100	80-120

Duplicate (BIA0805-DUP1)

Source: 2501242-01

Prepared: 01/17/25 Analyzed: 01/19/25

Arsenic	5.45	0.200	mg/kg dry	5.64	3.32	20
Barium	159	0.400	"	160	0.467	20
Cadmium	0.360	0.200	"	0.361	0.217	20
Copper	10.8	0.400	"	10.7	0.961	20
Lead	12.6	0.200	"	12.6	0.212	20
Nickel	7.59	0.400	"	7.57	0.314	20
Silver	0.0860	0.0200	"	0.0867	0.784	20
Zinc	27.5	0.400	"	27.3	0.847	20
Selenium	ND	0.260	"	ND		20

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Project: Civitas - Anderson MB 33-3J

Project Number: 23729
Project Manager: Sam Vogt

Reported:
01/29/25 15:43

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BIA0805 - EPA 3050B

Matrix Spike (BIA0805-MS1)

Source: 2501242-01

Prepared: 01/17/25 Analyzed: 01/19/25

Arsenic	60.4	0.200	mg/kg dry	53.9	5.64	102	75-125			
Barium	242	0.400	"	53.9	160	152	75-125			QM-05
Cadmium	3.06	0.200	"	2.69	0.361	100	75-125			
Copper	40.8	0.400	"	53.9	10.7	55.8	75-125			QM-05
Lead	38.9	0.200	"	26.9	12.6	97.9	75-125			
Nickel	38.5	0.400	"	53.9	7.57	57.4	75-125			QM-05
Silver	2.74	0.0200	"	2.69	0.0867	98.6	75-125			
Zinc	60.0	0.400	"	53.9	27.3	60.7	75-125			QM-05
Selenium	4.18	0.260	"	5.39	ND	77.6	75-125			

Matrix Spike Dup (BIA0805-MSD1)

Source: 2501242-01

Prepared: 01/17/25 Analyzed: 01/19/25

Arsenic	60.6	0.200	mg/kg dry	53.4	5.64	103	75-125	0.346	25	
Barium	241	0.400	"	53.4	160	151	75-125	0.482	25	QM-05
Cadmium	3.03	0.200	"	2.67	0.361	99.9	75-125	1.12	25	
Copper	40.5	0.400	"	53.4	10.7	55.7	75-125	0.727	25	QM-05
Lead	38.5	0.200	"	26.7	12.6	97.3	75-125	0.963	25	
Nickel	38.3	0.400	"	53.4	7.57	57.5	75-125	0.595	25	QM-05
Silver	2.71	0.0200	"	2.67	0.0867	98.3	75-125	1.16	25	
Zinc	59.5	0.400	"	53.4	27.3	60.3	75-125	0.872	25	QM-05
Selenium	4.13	0.260	"	5.34	ND	77.3	75-125	1.20	25	

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Anderson MB 33-3J

Project Number: 23729
Project Manager: Sam Vogt

Reported:
01/29/25 15:43

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BIA0813 - 3060A Mod

Blank (BIA0813-BLK1)

Prepared & Analyzed: 01/17/25

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BIA0813-BS1)

Prepared & Analyzed: 01/17/25

Chromium, Hexavalent 26.1 0.30 mg/kg wet 26.0 100 80-120

Duplicate (BIA0813-DUP1)

Source: 2501085-01

Prepared & Analyzed: 01/17/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BIA0813-MS1)

Source: 2501085-01

Prepared & Analyzed: 01/17/25

Chromium, Hexavalent 26.1 0.30 mg/kg dry 29.0 ND 90.2 75-125

Matrix Spike Dup (BIA0813-MSD1)

Source: 2501085-01

Prepared & Analyzed: 01/17/25

Chromium, Hexavalent 26.8 0.30 mg/kg dry 29.0 ND 92.6 75-125 2.63 20

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Project: Civitas - Anderson MB 33-3J

Project Number: 23729
Project Manager: Sam Vogt

Reported:
01/29/25 15:43

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

Summit Scientific

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

Batch BIA0785 - General Preparation

Blank (BIA0785-BLK1)

Prepared: 01/16/25 Analyzed: 01/17/25

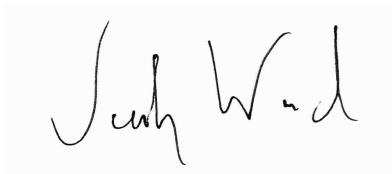
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BIA0785-BS1)

Prepared: 01/16/25 Analyzed: 01/17/25

Calcium	5.66	0.0500	mg/L wet	5.00		113	70-130			
Magnesium	4.94	0.0500	"	5.00		98.8	70-130			
Sodium	4.68	0.0500	"	5.00		93.6	70-130			

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.



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: Civitas - Anderson MB 33-3J

Project Number: 23729
Project Manager: Sam Vogt

Reported:
01/29/25 15:43

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

Summit Scientific

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

Batch BIA0809 - General Preparation


Duplicate (BIA0809-DUP1)

Source: 2501242-01

Prepared & Analyzed: 01/17/25

% Solids	75.7		%		76.7			1.33	20	
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Summit Scientific



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Tasman Geosciences
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Broomfield CO, 80020

Project: Civitas - Anderson MB 33-3J

Project Number: 23729
Project Manager: Sam Vogt

Reported:
01/29/25 15:43

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

Summit Scientific

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

Batch BIA0786 - General Preparation

Blank (BIA0786-BLK1)

Prepared: 01/16/25 Analyzed: 01/17/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIA0786-BS1)

Prepared: 01/16/25 Analyzed: 01/17/25

Specific Conductance (EC) 1.40 0.0100 mmhos/cm 1.41 99.0 95-105

Duplicate (BIA0786-DUP1)

Source: 2501242-01

Prepared: 01/16/25 Analyzed: 01/17/25

Specific Conductance (EC) 0.456 0.0100 mmhos/cm 0.457 0.216 20

Summit Scientific

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Broomfield CO, 80020

Project: Civitas - Anderson MB 33-3J

Project Number: 23729
Project Manager: Sam Vogt

Reported:
01/29/25 15:43

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

Summit Scientific

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

Batch BIA0787 - General Preparation

LCS (BIA0787-BS1)

Prepared: 01/16/25 Analyzed: 01/17/25

pH	9.29	pH Units	9.18	101	95-105
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Duplicate (BIA0787-DUP1)

Source: 2501242-01

Prepared: 01/16/25 Analyzed: 01/17/25

pH	8.91	pH Units	8.93	0.227	20
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Summit Scientific



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Tasman Geosciences
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Broomfield CO, 80020

Project: Civitas - Anderson MB 33-3J

Project Number: 23729
Project Manager: Sam Vogt

Reported:
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Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- 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