

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

September 18, 2023

Martin Eckert III

Eagle Environmental Consulting

8000 W 44th Ave

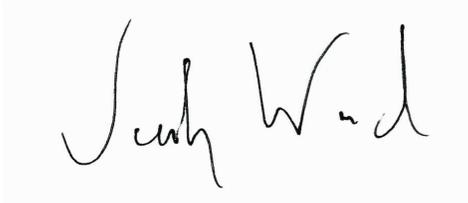
Wheat Ridge, CO 80033

RE: Civitas - Sam 25H-M166

Work Order # 2309133

Enclosed are the results of analyses for samples received by Summit Scientific on 09/08/23 18:50. 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 distinct "W".

Jacob Wood For Paul Shrewsbury

President



Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/18/23 10:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background01@5'	2309133-01	Soil	09/08/23 16:48	09/08/23 18:50
Background02@5'	2309133-02	Soil	09/08/23 16:52	09/08/23 18:50
Background03@5'	2309133-03	Soil	09/08/23 17:01	09/08/23 18:50
Background04@8'	2309133-04	Soil	09/08/23 17:17	09/08/23 18:50
Background05@8'	2309133-05	Soil	09/08/23 17:23	09/08/23 18:50
Background06@8'	2309133-06	Soil	09/08/23 17:46	09/08/23 18:50

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.

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

Lab ID
2309133
Page **1** of **1**

Send Data To:		Send Invoice To:	
Client: <i>Eagle Environmental Consulting</i>	Project Manager: <i>Martin Eckert III</i>	Company: <i>Civitas</i>	
Address: <i>8000 W 44th Ave</i>	E-Mail: <i>mee3@eagle-enviro.com</i>	Project Name/Location: <i>Sam 25H-M166</i>	
City/State/Zip: <i>Wheat Ridge, CO 80053</i>		AFE#:	
Phone: <i>303-433-0479</i>	Project Name: <i>Sam 25H-M166</i>	PO/Billing Codes:	
Sampler Name: <i>IM/B3</i>	Project Number:	Contact: <i>Costin</i>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil			Baron-DIPA/50:50:10:10 EC-9070A	SAR-203 pH-9045D	Table 915 Metals -60203	Cr VI-7196A	
1	Background 01 @ 5'	9-8-23	11:48	2			X					X	X	X	X	EC/SAR/pH = saturated paste prep Ⓢ MDLs needed	
2	Background 02 @ 5'	↓	11:52	↓			↓					↓	↓	↓	↓		
3	Background 03 @ 5'	↓	17:01	↓			↓					↓	↓	↓	↓		
4	Background 04 @ 8'	↓	17:17	↓			↓					↓	↓	↓	↓		
5	Background 05 @ 8'	↓	17:23	↓			↓					↓	↓	↓	↓		
6	Background 06 @ 8'	↓	17:46	↓			↓					↓	↓	↓	↓		
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Relinquished by: <i>Adam Walsh</i>	Date/Time: <i>9/8/23 18:47</i>	Received by: <i>Costin</i>	Date/Time: <i>9/8/23 18:50</i>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: <i>4.5</i>	Corrected Temperature	IR gun #: <i>2</i>	HNO3 lot #:	Standard	Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2309133

Client: Eagle Environmental Client Project ID: Sam 25H-M166

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

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) 4.5 Thermometer # 2

	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"/>	on ice
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"/>	Same day
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"/>	

Additional Comments (if any):

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

AS 9/8/23
Custodian Printed Name Date/Time



Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/18/23 10:26

Background01@5'
2309133-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/08/23 16:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0692	0.0100	0.00690	mg/L	1	BGI0225	09/11/23	09/11/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/08/23 16:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	1.01	0.200	0.168	mg/kg dry	1	BGI0231	09/11/23	09/13/23	EPA 6020B	
Barium	52.0	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0811	0.200	0.00720	"	"	"	"	"	"	J
Copper	2.31	0.400	0.0209	"	"	"	"	"	"	
Lead	4.30	0.200	0.0550	"	"	"	"	"	"	
Nickel	2.38	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0133	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	9.95	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/08/23 16:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0245	09/11/23	09/11/23	EPA 7196A	

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

Date Sampled: **09/08/23 16:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	67.2	0.0520		mg/L dry	1	BGI0236	09/11/23	09/12/23	EPA 6020B	
Magnesium	17.3	0.0520		"	"	"	"	"	"	
Sodium	1.95	0.0520		"	"	"	"	"	"	

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 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 09/18/23 10:26

Background01@5'
2309133-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/08/23 16:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Sodium Adsorption Ratio	0.0549	0.00100		units	1	BGI0380	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/08/23 16:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	96.2			%	1	BGI0229	09/11/23	09/11/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/08/23 16:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.116	0.0100	0.00100	mmhos/cm	1	BGI0287	09/12/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/08/23 16:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.22			pH Units	1	BGI0288	09/12/23	09/12/23	EPA 9045D	

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/18/23 10:26

Background02@5'
2309133-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/08/23 16:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.185	0.0100	0.00690	mg/L	1	BGI0225	09/11/23	09/11/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/08/23 16:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	0.894	0.200	0.168	mg/kg dry	1	BGI0231	09/11/23	09/13/23	EPA 6020B	
Barium	54.7	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0755	0.200	0.00720	"	"	"	"	"	"	J
Copper	2.22	0.400	0.0209	"	"	"	"	"	"	
Lead	3.87	0.200	0.0550	"	"	"	"	"	"	
Nickel	2.38	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0152	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	9.14	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/08/23 16:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0245	09/11/23	09/11/23	EPA 7196A	

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

Date Sampled: **09/08/23 16:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	42.9	0.0513		mg/L dry	1	BGI0236	09/11/23	09/12/23	EPA 6020B	
Magnesium	11.2	0.0513		"	"	"	"	"	"	
Sodium	1.78	0.0513		"	"	"	"	"	"	

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 09/18/23 10:26

Background02@5'
2309133-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/08/23 16:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Sodium Adsorption Ratio	0.0626	0.00100		units	1	BGI0380	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/08/23 16:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	97.4			%	1	BGI0229	09/11/23	09/11/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/08/23 16:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.118	0.0100	0.00100	mmhos/cm	1	BGI0287	09/12/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/08/23 16:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.21			pH Units	1	BGI0288	09/12/23	09/12/23	EPA 9045D	

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8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/18/23 10:26

Background03@5'
2309133-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/08/23 17:01**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.142	0.0100	0.00690	mg/L	1	BGI0225	09/11/23	09/11/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/08/23 17:01**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	1.08	0.200	0.168	mg/kg dry	1	BGI0231	09/11/23	09/13/23	EPA 6020B	
Barium	55.2	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0850	0.200	0.00720	"	"	"	"	"	"	J
Copper	2.48	0.400	0.0209	"	"	"	"	"	"	
Lead	4.99	0.200	0.0550	"	"	"	"	"	"	
Nickel	2.66	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0222	0.0200	0.00267	"	"	"	"	"	"	
Zinc	10.4	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/08/23 17:01**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0245	09/11/23	09/11/23	EPA 7196A	

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

Date Sampled: **09/08/23 17:01**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	24.8	0.0514		mg/L dry	1	BGI0236	09/11/23	09/12/23	EPA 6020B	
Magnesium	6.90	0.0514		"	"	"	"	"	"	
Sodium	2.12	0.0514		"	"	"	"	"	"	

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 09/18/23 10:26

Background03@5'
2309133-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/08/23 17:01**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Sodium Adsorption Ratio	0.0971	0.00100		units	1	BGI0380	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/08/23 17:01**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	97.4			%	1	BGI0229	09/11/23	09/11/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/08/23 17:01**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.153	0.0100	0.00100	mmhos/cm	1	BGI0287	09/12/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/08/23 17:01**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.29			pH Units	1	BGI0288	09/12/23	09/12/23	EPA 9045D	

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/18/23 10:26

Background04@8'
2309133-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/08/23 17:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0996	0.0100	0.00690	mg/L	1	BGI0225	09/11/23	09/11/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/08/23 17:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	1.43	0.200	0.168	mg/kg dry	1	BGI0231	09/11/23	09/13/23	EPA 6020B	
Barium	51.0	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.119	0.200	0.00720	"	"	"	"	"	"	J
Copper	2.56	0.400	0.0209	"	"	"	"	"	"	
Lead	5.95	0.200	0.0550	"	"	"	"	"	"	
Nickel	2.89	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0195	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	12.5	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/08/23 17:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0245	09/11/23	09/11/23	EPA 7196A	

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

Date Sampled: **09/08/23 17:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	29.8	0.0518		mg/L dry	1	BGI0236	09/11/23	09/12/23	EPA 6020B	
Magnesium	6.79	0.0518		"	"	"	"	"	"	
Sodium	11.4	0.0518		"	"	"	"	"	"	

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 09/18/23 10:26

Background04@8'
2309133-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/08/23 17:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Sodium Adsorption Ratio	0.490	0.00100		units	1	BGI0380	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/08/23 17:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	96.5			%	1	BGI0229	09/11/23	09/11/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/08/23 17:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.244	0.0100	0.00100	mmhos/cm	1	BGI0287	09/12/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/08/23 17:17**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.41			pH Units	1	BGI0288	09/12/23	09/12/23	EPA 9045D	

Summit Scientific

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/18/23 10:26

Background05@8'
2309133-05 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/08/23 17:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0987	0.0100	0.00690	mg/L	1	BGI0225	09/11/23	09/11/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/08/23 17:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	1.21	0.200	0.168	mg/kg dry	1	BGI0231	09/11/23	09/13/23	EPA 6020B	
Barium	45.7	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0919	0.200	0.00720	"	"	"	"	"	"	J
Copper	2.36	0.400	0.0209	"	"	"	"	"	"	
Lead	4.97	0.200	0.0550	"	"	"	"	"	"	
Nickel	2.80	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0154	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	10.8	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/08/23 17:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0245	09/11/23	09/11/23	EPA 7196A	

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

Date Sampled: **09/08/23 17:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	25.3	0.0520		mg/L dry	1	BGI0236	09/11/23	09/12/23	EPA 6020B	
Magnesium	6.91	0.0520		"	"	"	"	"	"	
Sodium	12.8	0.0520		"	"	"	"	"	"	

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 09/18/23 10:26

Background05@8'
2309133-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/08/23 17:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Sodium Adsorption Ratio	0.582	0.00100		units	1	BGI0380	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/08/23 17:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	96.2			%	1	BGI0229	09/11/23	09/11/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/08/23 17:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.224	0.0100	0.00100	mmhos/cm	1	BGI0287	09/12/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/08/23 17:23**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.34			pH Units	1	BGI0288	09/12/23	09/12/23	EPA 9045D	

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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/18/23 10:26

Background06@8'
2309133-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/08/23 17:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.0951	0.0100	0.00690	mg/L	1	BGI0225	09/11/23	09/11/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/08/23 17:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	1.20	0.200	0.168	mg/kg dry	1	BGI0231	09/11/23	09/13/23	EPA 6020B	
Barium	51.9	0.400	0.316	"	"	"	"	"	"	
Cadmium	0.0803	0.200	0.00720	"	"	"	"	"	"	J
Copper	2.41	0.400	0.0209	"	"	"	"	"	"	
Lead	4.84	0.200	0.0550	"	"	"	"	"	"	
Nickel	2.79	0.400	0.0610	"	"	"	"	"	"	
Silver	0.0175	0.0200	0.00267	"	"	"	"	"	"	J
Zinc	11.6	0.400	0.266	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/08/23 17:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30	0.040	mg/kg dry	1	BGI0245	09/11/23	09/11/23	EPA 7196A	

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

Date Sampled: **09/08/23 17:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Calcium	30.8	0.0520		mg/L dry	1	BGI0236	09/11/23	09/13/23	EPA 6020B	
Magnesium	8.92	0.0520		"	"	"	"	"	"	
Sodium	10.4	0.0520		"	"	"	"	"	"	

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 09/18/23 10:26

Background06@8'
2309133-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/08/23 17:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Sodium Adsorption Ratio	0.425	0.00100		units	1	BGI0380	09/13/23	09/13/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/08/23 17:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	96.2			%	1	BGI0229	09/11/23	09/11/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/08/23 17:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.160	0.0100	0.00100	mmhos/cm	1	BGI0287	09/12/23	09/12/23	EPA 120.1	

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

Date Sampled: **09/08/23 17:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.52			pH Units	1	BGI0288	09/12/23	09/12/23	EPA 9045D	

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 09/18/23 10:26

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

Summit Scientific

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

Batch BGI0225 - EPA 3050B

Blank (BGI0225-BLK1)

Prepared & Analyzed: 09/11/23

Boron ND 0.0100 mg/L

LCS (BGI0225-BS1)

Prepared & Analyzed: 09/11/23

Boron 5.93 0.0100 mg/L 5.00 119 80-120

Duplicate (BGI0225-DUP1)

Source: 2309117-01

Prepared & Analyzed: 09/11/23

Boron 0.0740 0.0100 mg/L 0.113 42.0 20 QR-01

Matrix Spike (BGI0225-MS1)

Source: 2309117-01

Prepared & Analyzed: 09/11/23

Boron 5.96 0.0100 mg/L 5.00 0.113 117 75-125

Matrix Spike Dup (BGI0225-MSD1)

Source: 2309117-01

Prepared & Analyzed: 09/11/23

Boron 6.41 0.0100 mg/L 5.00 0.113 126 75-125 7.21 25 QM-07

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 09/18/23 10:26

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGI0231 - EPA 3050B

Blank (BGI0231-BLK1)

Prepared: 09/11/23 Analyzed: 09/12/23

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 (BGI0231-BS1)

Prepared: 09/11/23 Analyzed: 09/12/23

Arsenic	40.0	0.200	mg/kg wet	40.0	100	80-120				
Barium	40.4	0.400	"	40.0	101	80-120				
Cadmium	2.39	0.200	"	2.00	119	80-120				
Copper	45.8	0.400	"	40.0	115	80-120				
Lead	23.9	0.200	"	20.0	120	80-120				
Nickel	45.9	0.400	"	40.0	115	80-120				
Silver	2.30	0.0200	"	2.00	115	80-120				
Zinc	45.2	0.400	"	40.0	113	80-120				

Duplicate (BGI0231-DUP1)

Source: 2309117-01

Prepared: 09/11/23 Analyzed: 09/12/23

Arsenic	3.64	0.200	mg/kg dry	4.02	9.95	20				
Barium	111	0.400	"	119	7.57	20				
Cadmium	0.183	0.200	"	0.185	0.757	20				J
Copper	5.37	0.400	"	5.43	1.18	20				
Lead	8.31	0.200	"	8.95	7.51	20				
Nickel	6.48	0.400	"	6.84	5.27	20				
Silver	0.0297	0.0200	"	0.0288	3.17	20				
Zinc	25.1	0.400	"	33.1	27.6	20				QR-04
Selenium	ND	0.260	"	ND		200				

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 09/18/23 10:26

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 BGI0231 - EPA 3050B

Matrix Spike (BGI0231-MS1)

Source: 2309117-01

Prepared: 09/11/23 Analyzed: 09/12/23

Arsenic	46.2	0.200	mg/kg dry	46.4	4.02	91.0	75-125				
Barium	165	0.400	"	46.4	119	97.6	75-125				
Cadmium	2.74	0.200	"	2.32	0.185	110	75-125				
Copper	32.1	0.400	"	46.4	5.43	57.5	75-125				QM-07
Lead	33.3	0.200	"	23.2	8.95	105	75-125				
Nickel	33.6	0.400	"	46.4	6.84	57.7	75-125				QM-07
Silver	2.43	0.0200	"	2.32	0.0288	103	75-125				
Zinc	52.8	0.400	"	46.4	33.1	42.4	75-125				QM-07

Matrix Spike Dup (BGI0231-MSD1)

Source: 2309117-01

Prepared: 09/11/23 Analyzed: 09/13/23

Arsenic	33.3	0.200	mg/kg dry	46.4	4.02	63.2	75-125	32.4	25		QM-07
Barium	145	0.400	"	46.4	119	55.6	75-125	12.6	25		QM-07
Cadmium	2.01	0.200	"	2.32	0.185	78.5	75-125	31.1	25		QM-07
Copper	24.2	0.400	"	46.4	5.43	40.5	75-125	28.0	25		QM-07
Lead	25.4	0.200	"	23.2	8.95	70.8	75-125	27.1	25		QM-07
Nickel	25.6	0.400	"	46.4	6.84	40.6	75-125	26.9	25		QM-07
Silver	1.72	0.0200	"	2.32	0.0288	72.8	75-125	34.2	25		QM-07
Zinc	43.9	0.400	"	46.4	33.1	23.3	75-125	18.3	25		QM-07

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 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 09/18/23 10:26

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 BGI0245 - 3060A Mod

Blank (BGI0245-BLK1)

Prepared & Analyzed: 09/11/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGI0245-BS1)

Prepared & Analyzed: 09/11/23

Chromium, Hexavalent 26.2 0.30 mg/kg wet 25.0 105 80-120

Duplicate (BGI0245-DUP1)

Source: 2309125-01

Prepared & Analyzed: 09/11/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGI0245-MS1)

Source: 2309125-01

Prepared & Analyzed: 09/11/23

Chromium, Hexavalent 35.8 0.30 mg/kg dry 35.0 ND 102 75-125

Matrix Spike Dup (BGI0245-MSD1)

Source: 2309125-01

Prepared & Analyzed: 09/11/23

Chromium, Hexavalent 35.2 0.30 mg/kg dry 35.0 ND 101 75-125 1.77 20

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 09/18/23 10:26

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 BGI0236 - General Preparation

Blank (BGI0236-BLK1)

Prepared: 09/11/23 Analyzed: 09/12/23

Calcium	0.00816	0.0500	mg/L wet							J
Magnesium	0.00518	0.0500	"							J
Sodium	0.0294	0.0500	"							J

LCS (BGI0236-BS1)

Prepared: 09/11/23 Analyzed: 09/12/23

Calcium	4.93	0.0500	mg/L wet	5.00	98.7	70-130				
Magnesium	5.26	0.0500	"	5.00	105	70-130				
Sodium	5.38	0.0500	"	5.00	108	70-130				

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 09/18/23 10:26

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

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

Batch BGI0229 - General Preparation

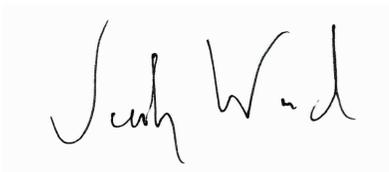
Duplicate (BGI0229-DUP1)

Source: 2309117-01

Prepared & Analyzed: 09/11/23

% Solids	86.2	%		86.2		0.00792	20
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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 09/18/23 10:26

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 BGI0287 - General Preparation

Blank (BGI0287-BLK1)

Prepared & Analyzed: 09/12/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGI0287-BS1)

Prepared & Analyzed: 09/12/23

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BGI0287-DUP1)

Source: 2309117-01

Prepared & Analyzed: 09/12/23

Specific Conductance (EC) 0.124 0.0100 mmhos/cm 0.124 0.00 20

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Eagle Environmental Consulting
 8000 W 44th Ave
 Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
 Project Manager: Martin Eckert III

Reported:
 09/18/23 10:26

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 BGI0288 - General Preparation

LCS (BGI0288-BS1)

Prepared & Analyzed: 09/12/23

pH	9.19		pH Units	9.18		100	95-105			
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Duplicate (BGI0288-DUP1)

Source: 2309117-01

Prepared & Analyzed: 09/12/23

pH	8.37		pH Units	8.02		4.27	20			
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Eagle Environmental Consulting
8000 W 44th Ave
Wheat Ridge CO, 80033

Project: Civitas - Sam 25H-M166

Project Number: [none]
Project Manager: Martin Eckert III

Reported:
09/18/23 10:26

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-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration
- 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