

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 09, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Spike State CC (BKG)

Work Order #2407023

Enclosed are the results of analyses for samples received by Summit Scientific on 07/02/24 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 "Natalie Tessier". The signature is fluid and cursive, written in a professional style.

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
Project Manager: Paul Henchan

Reported:
07/09/24 13:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01 - 4FT	2407023-01	Soil	07/02/24 00:00	07/02/24 16:30
BKG01 - 5FT	2407023-02	Soil	07/02/24 00:00	07/02/24 16:30
BKG02 - 4FT	2407023-03	Soil	07/02/24 00:00	07/02/24 16:30
BKG02 - 5FT	2407023-04	Soil	07/02/24 00:00	07/02/24 16:30
BKG03 - 4FT	2407023-05	Soil	07/02/24 00:00	07/02/24 16:30
BKG03 - 5FT	2407023-06	Soil	07/02/24 00:00	07/02/24 16:30
BKG04 - 4FT	2407023-07	Soil	07/02/24 00:00	07/02/24 16:30
BKG04 - 5FT	2407023-08	Soil	07/02/24 00:00	07/02/24 16:30
BKG05 - 4FT	2407023-09	Soil	07/02/24 00:00	07/02/24 16:30
BKG05 - 5FT	2407023-10	Soil	07/02/24 00:00	07/02/24 16:30

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

Lab ID	Page	of
2407023		1

Client: Fremont Environmental		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company: Noble	
Address:		E-Mail: Fremont Distribution List		Project Name/Location:	
City/State/Zip:				AFE#:	
Phone: 303-261-6246		Project Name: Spike State CC (BKG)		PO/Billing Codes:	
Sampler Name: Stanley Gilbert		Project Number: C023-156		Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested							Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate	HOLD
1	BKG01-4ft	7/2/24		1			X			X						X	X			
2	BKG01-5ft																			
3	BKG02-4ft																			
4	BKG02-5ft																			
5	BKG03-4ft																			
6	BKG03-5ft																			
7	BKG04-4ft																			
8	BKG04-5ft																			
9	BKG05-4ft																			
10	BKG05-5ft																			
11																				
12																				
13																				
14																				
15																				

Relinquished by:	Date/Time: 7/2/24 15:50	Received by: Summit North	Date/Time: 7/2/24 15:50	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by:	Date/Time: 7/2/24 16:30	Received by:	Date/Time: 7/2/24 14:30	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: 9.6	Corrected Temperature: 9	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2407023

Client: Fremont

Client Project ID: Spike State CC (BKG)

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

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

Temp (°C) 9.6

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 20F</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 checked="" type="checkbox"/>	<input type="checkbox"/>	<u>no sample times</u>
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

Custodian Printed Name

7/2/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
Project Manager: Paul Henchan

Reported:
07/09/24 13:53

BKG01 - 4FT
2407023-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHG0111	07/03/24	07/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.25	0.200		mg/kg dry	1	BHG0092	07/03/24	07/04/24	EPA 6020B	
Barium	35.6	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	2.64	0.400		"	"	"	"	"	"	
Lead	3.02	0.200		"	"	"	"	"	"	
Nickel	2.68	0.400		"	"	"	"	"	"	
Silver	0.0216	0.0200		"	"	"	"	"	"	
Zinc	11.7	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHG0107	07/03/24	07/03/24	EPA 7196A	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	71.5	0.0500		mg/L dry	1	BHG0089	07/02/24	07/04/24	EPA 6020B	
Magnesium	16.1	0.0500		"	"	"	"	"	"	
Sodium	0.754	0.0500		"	"	"	"	"	"	

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Project Number: CO23-156
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Reported:
07/09/24 13:53

BKG01 - 4FT
2407023-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0210	0.00100	units	1	BHG0192	07/08/24	07/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.6		%	1	BHG0115	07/03/24	07/08/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.153	0.0100	mmhos/cm	1	BHG0091	07/02/24	07/08/24	EPA 120.1	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.67		pH Units	1	BHG0090	07/02/24	07/08/24	EPA 9045D	

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Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
Project Manager: Paul Henchan

Reported:
07/09/24 13:53

BKG01 - 5FT
2407023-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHG0111	07/03/24	07/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.32	0.200	mg/kg dry	1	BHG0092	07/03/24	07/04/24	EPA 6020B	
Barium	36.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.91	0.400	"	"	"	"	"	"	
Lead	3.41	0.200	"	"	"	"	"	"	
Nickel	3.09	0.400	"	"	"	"	"	"	
Silver	0.0337	0.0200	"	"	"	"	"	"	
Zinc	12.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0107	07/03/24	07/03/24	EPA 7196A	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	64.0	0.0500	mg/L dry	1	BHG0089	07/02/24	07/04/24	EPA 6020B	
Magnesium	14.8	0.0500	"	"	"	"	"	"	
Sodium	0.743	0.0500	"	"	"	"	"	"	

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Project Number: CO23-156
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Reported:
 07/09/24 13:53

BKG01 - 5FT
2407023-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0218	0.00100	units	1	BHG0192	07/08/24	07/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.3		%	1	BHG0115	07/03/24	07/08/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.133	0.0100	mmhos/cm	1	BHG0091	07/02/24	07/08/24	EPA 120.1	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.37		pH Units	1	BHG0090	07/02/24	07/08/24	EPA 9045D	

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Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
Project Manager: Paul Henchan

Reported:
07/09/24 13:53

BKG02 - 4FT
2407023-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHG0111	07/03/24	07/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.42	0.200	mg/kg dry	1	BHG0092	07/03/24	07/04/24	EPA 6020B	
Barium	36.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.68	0.400	"	"	"	"	"	"	
Lead	3.31	0.200	"	"	"	"	"	"	
Nickel	2.78	0.400	"	"	"	"	"	"	
Silver	0.0297	0.0200	"	"	"	"	"	"	
Zinc	11.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0107	07/03/24	07/03/24	EPA 7196A	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	62.1	0.0500	mg/L dry	1	BHG0089	07/02/24	07/04/24	EPA 6020B	
Magnesium	14.1	0.0500	"	"	"	"	"	"	
Sodium	0.764	0.0500	"	"	"	"	"	"	

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 Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
 Project Manager: Paul Henchan

Reported:
 07/09/24 13:53

BKG02 - 4FT
2407023-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0228	0.00100	units	1	BHG0192	07/08/24	07/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.0		%	1	BHG0115	07/03/24	07/08/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0742	0.0100	mmhos/cm	1	BHG0091	07/02/24	07/08/24	EPA 120.1	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.76		pH Units	1	BHG0090	07/02/24	07/08/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
Project Manager: Paul Henchan

Reported:
07/09/24 13:53

BKG02 - 5FT
2407023-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHG0111	07/03/24	07/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.38	0.200		mg/kg dry	1	BHG0092	07/03/24	07/04/24	EPA 6020B	
Barium	35.2	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	2.71	0.400		"	"	"	"	"	"	
Lead	3.25	0.200		"	"	"	"	"	"	
Nickel	2.81	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	12.0	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHG0107	07/03/24	07/03/24	EPA 7196A	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	66.3	0.0500		mg/L dry	1	BHG0089	07/02/24	07/04/24	EPA 6020B	
Magnesium	15.9	0.0500		"	"	"	"	"	"	
Sodium	0.840	0.0500		"	"	"	"	"	"	

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Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
 Project Manager: Paul Henchan

Reported:
 07/09/24 13:53

BKG02 - 5FT
2407023-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0240	0.00100	units	1	BHG0192	07/08/24	07/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.8		%	1	BHG0115	07/03/24	07/08/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0845	0.0100	mmhos/cm	1	BHG0091	07/02/24	07/08/24	EPA 120.1	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.56		pH Units	1	BHG0090	07/02/24	07/08/24	EPA 9045D	

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Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
Project Manager: Paul Henchan

Reported:
07/09/24 13:53

BKG03 - 4FT
2407023-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHG0111	07/03/24	07/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.33	0.200	mg/kg dry	1	BHG0092	07/03/24	07/04/24	EPA 6020B	
Barium	42.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.77	0.400	"	"	"	"	"	"	
Lead	4.13	0.200	"	"	"	"	"	"	
Nickel	2.87	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0107	07/03/24	07/03/24	EPA 7196A	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	76.3	0.0500	mg/L dry	1	BHG0089	07/02/24	07/04/24	EPA 6020B	
Magnesium	18.1	0.0500	"	"	"	"	"	"	
Sodium	0.740	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
Project Manager: Paul Henchan

Reported:
07/09/24 13:53

BKG03 - 4FT
2407023-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0198	0.00100	units	1	BHG0192	07/08/24	07/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.1		%	1	BHG0115	07/03/24	07/08/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0905	0.0100	mmhos/cm	1	BHG0091	07/02/24	07/08/24	EPA 120.1	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.01		pH Units	1	BHG0090	07/02/24	07/08/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
Project Manager: Paul Henchan

Reported:
07/09/24 13:53

BKG03 - 5FT
2407023-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHG0111	07/03/24	07/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.54	0.200	mg/kg dry	1	BHG0092	07/03/24	07/04/24	EPA 6020B	
Barium	42.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.20	0.400	"	"	"	"	"	"	
Lead	3.82	0.200	"	"	"	"	"	"	
Nickel	3.16	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0107	07/03/24	07/03/24	EPA 7196A	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	89.8	0.0500	mg/L dry	1	BHG0089	07/02/24	07/04/24	EPA 6020B	
Magnesium	21.3	0.0500	"	"	"	"	"	"	
Sodium	1.13	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
 Project Manager: Paul Henchan

Reported:
 07/09/24 13:53

BKG03 - 5FT
2407023-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0278	0.00100	units	1	BHG0192	07/08/24	07/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.4		%	1	BHG0115	07/03/24	07/08/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0338	0.0100	mmhos/cm	1	BHG0091	07/02/24	07/08/24	EPA 120.1	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.02		pH Units	1	BHG0090	07/02/24	07/08/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
Project Manager: Paul Henchan

Reported:
07/09/24 13:53

BKG04 - 4FT
2407023-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHG0111	07/03/24	07/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.37	0.200		mg/kg dry	1	BHG0092	07/03/24	07/04/24	EPA 6020B	
Barium	44.8	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	2.89	0.400		"	"	"	"	"	"	
Lead	3.48	0.200		"	"	"	"	"	"	
Nickel	3.20	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	13.6	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHG0107	07/03/24	07/03/24	EPA 7196A	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	72.5	0.0500		mg/L dry	1	BHG0089	07/02/24	07/04/24	EPA 6020B	
Magnesium	15.8	0.0500		"	"	"	"	"	"	
Sodium	0.741	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
 Project Manager: Paul Henchan

Reported:
 07/09/24 13:53

BKG04 - 4FT
2407023-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0206	0.00100	units	1	BHG0192	07/08/24	07/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.4		%	1	BHG0115	07/03/24	07/08/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0172	0.0100	mmhos/cm	1	BHG0091	07/02/24	07/08/24	EPA 120.1	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.32		pH Units	1	BHG0090	07/02/24	07/08/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
Project Manager: Paul Henchan

Reported:
07/09/24 13:53

BKG04 - 5FT
2407023-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHG0111	07/03/24	07/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.21	0.200	mg/kg dry	1	BHG0092	07/03/24	07/04/24	EPA 6020B	
Barium	39.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.28	0.400	"	"	"	"	"	"	
Lead	3.45	0.200	"	"	"	"	"	"	
Nickel	2.87	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0107	07/03/24	07/03/24	EPA 7196A	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	43.9	0.0500	mg/L dry	1	BHG0089	07/02/24	07/04/24	EPA 6020B	
Magnesium	9.24	0.0500	"	"	"	"	"	"	
Sodium	0.728	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
 Project Manager: Paul Henchan

Reported:
 07/09/24 13:53

BKG04 - 5FT
2407023-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0261	0.00100	units	1	BHG0192	07/08/24	07/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.5		%	1	BHG0115	07/03/24	07/08/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.118	0.0100	mmhos/cm	1	BHG0091	07/02/24	07/08/24	EPA 120.1	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BHG0090	07/02/24	07/08/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
Project Manager: Paul Henchan

Reported:
07/09/24 13:53

BKG05 - 4FT
2407023-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHG0111	07/03/24	07/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.03	0.200	mg/kg dry	1	BHG0092	07/03/24	07/04/24	EPA 6020B	
Barium	57.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.98	0.400	"	"	"	"	"	"	
Lead	5.15	0.200	"	"	"	"	"	"	
Nickel	5.40	0.400	"	"	"	"	"	"	
Silver	0.0208	0.0200	"	"	"	"	"	"	
Zinc	23.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0107	07/03/24	07/03/24	EPA 7196A	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	149	0.0500	mg/L dry	1	BHG0089	07/02/24	07/04/24	EPA 6020B	
Magnesium	34.7	0.0500	"	"	"	"	"	"	
Sodium	0.826	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
 Project Manager: Paul Henchan

Reported:
 07/09/24 13:53

BKG05 - 4FT
2407023-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0158	0.00100	units	1	BHG0192	07/08/24	07/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.8		%	1	BHG0115	07/03/24	07/08/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.119	0.0100	mmhos/cm	1	BHG0091	07/02/24	07/08/24	EPA 120.1	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.84		pH Units	1	BHG0090	07/02/24	07/08/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
Project Manager: Paul Henchan

Reported:
07/09/24 13:53

BKG05 - 5FT
2407023-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHG0111	07/03/24	07/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.01	0.200	mg/kg dry	1	BHG0092	07/03/24	07/04/24	EPA 6020B	
Barium	63.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.48	0.400	"	"	"	"	"	"	
Lead	5.45	0.200	"	"	"	"	"	"	
Nickel	5.98	0.400	"	"	"	"	"	"	
Silver	0.0314	0.0200	"	"	"	"	"	"	
Zinc	25.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHG0107	07/03/24	07/03/24	EPA 7196A	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	172	0.0500	mg/L dry	1	BHG0089	07/02/24	07/04/24	EPA 6020B	
Magnesium	35.2	0.0500	"	"	"	"	"	"	
Sodium	0.910	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
 Project Manager: Paul Henchan

Reported:
 07/09/24 13:53

BKG05 - 5FT
2407023-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0165	0.00100	units	1	BHG0192	07/08/24	07/08/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.7		%	1	BHG0115	07/03/24	07/08/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.224	0.0100	mmhos/cm	1	BHG0091	07/02/24	07/08/24	EPA 120.1	

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

Date Sampled: **07/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.71		pH Units	1	BHG0090	07/02/24	07/08/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
 Project Manager: Paul Henchan

Reported:
 07/09/24 13:53

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 BHG0111 - EPA 3050B

Blank (BHG0111-BLK1)

Prepared: 07/03/24 Analyzed: 07/04/24

Boron ND 2.00 mg/L

LCS (BHG0111-BS1)

Prepared: 07/03/24 Analyzed: 07/04/24

Boron 5.02 2.00 mg/L 5.00 100 80-120

Duplicate (BHG0111-DUP1)

Source: 2407020-01

Prepared: 07/03/24 Analyzed: 07/04/24

Boron 0.0649 2.00 mg/L 0.107 48.6 20 QR-01

Matrix Spike (BHG0111-MS1)

Source: 2407020-01

Prepared: 07/03/24 Analyzed: 07/04/24

Boron 5.13 2.00 mg/L 4.98 0.107 101 75-125

Matrix Spike Dup (BHG0111-MSD1)

Source: 2407020-01

Prepared: 07/03/24 Analyzed: 07/04/24

Boron 5.57 2.00 mg/L 4.98 0.107 110 75-125 8.34 25

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
 Project Manager: Paul Henchan

Reported:
 07/09/24 13:53

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 BHG0092 - EPA 3050B

Blank (BHG0092-BLK1)

Prepared: 07/03/24 Analyzed: 07/04/24

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 (BHG0092-BS1)

Prepared: 07/03/24 Analyzed: 07/04/24

Arsenic	38.9	0.200	mg/kg wet	40.0	97.3	80-120
Barium	39.7	0.400	"	40.0	99.1	80-120
Cadmium	1.90	0.200	"	2.00	95.2	80-120
Copper	39.0	0.400	"	40.0	97.4	80-120
Lead	19.1	0.200	"	20.0	95.5	80-120
Nickel	38.6	0.400	"	40.0	96.5	80-120
Silver	1.91	0.0200	"	2.00	95.4	80-120
Zinc	38.5	0.400	"	40.0	96.4	80-120
Selenium	4.48	0.260	"	4.00	112	80-120

Duplicate (BHG0092-DUP1)

Source: 2407020-01

Prepared: 07/03/24 Analyzed: 07/09/24

Arsenic	1.24	0.200	mg/kg dry	1.15	7.39	20	
Barium	30.2	0.400	"	38.7	24.5	20	QR-04
Cadmium	0.0867	0.200	"	0.0759	13.3	20	
Copper	4.99	0.400	"	4.61	8.04	20	
Lead	2.74	0.200	"	2.40	13.3	20	
Nickel	4.06	0.400	"	3.75	7.93	20	
Silver	0.00945	0.0200	"	0.0171	57.7	20	QR-01
Zinc	14.1	0.400	"	13.7	3.18	20	
Selenium	ND	0.260	"	ND		20	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
Project Manager: Paul Henchan

Reported:
07/09/24 13:53

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 BHG0092 - EPA 3050B

Matrix Spike (BHG0092-MS1)

Source: 2407020-01

Prepared: 07/03/24 Analyzed: 07/09/24

Arsenic	31.0	0.200	mg/kg dry	41.1	1.15	72.7	75-125				QM-07
Barium	78.0	0.400	"	41.1	38.7	95.8	75-125				
Cadmium	2.14	0.200	"	2.05	0.0759	100	75-125				
Copper	44.7	0.400	"	41.1	4.61	97.5	75-125				
Lead	22.4	0.200	"	20.5	2.40	97.3	75-125				
Nickel	44.3	0.400	"	41.1	3.75	98.6	75-125				
Silver	1.99	0.0200	"	2.05	0.0171	96.2	75-125				
Zinc	54.2	0.400	"	41.1	13.7	98.7	75-125				
Selenium	3.53	0.260	"	4.11	ND	86.0	75-125				

Matrix Spike Dup (BHG0092-MSD1)

Source: 2407020-01

Prepared: 07/03/24 Analyzed: 07/09/24

Arsenic	30.1	0.200	mg/kg dry	41.1	1.15	70.6	75-125	2.87	25		QM-07
Barium	92.7	0.400	"	41.1	38.7	132	75-125	17.3	25		QM-05
Cadmium	2.17	0.200	"	2.05	0.0759	102	75-125	1.36	25		
Copper	45.6	0.400	"	41.1	4.61	99.7	75-125	1.96	25		
Lead	23.0	0.200	"	20.5	2.40	100	75-125	2.89	25		
Nickel	44.9	0.400	"	41.1	3.75	100	75-125	1.35	25		
Silver	2.02	0.0200	"	2.05	0.0171	97.3	75-125	1.09	25		
Zinc	56.1	0.400	"	41.1	13.7	103	75-125	3.38	25		
Selenium	3.52	0.260	"	4.11	ND	85.7	75-125	0.338	25		

Post Spike (BHG0092-PS1)

Source: 2407020-01

Prepared: 07/03/24 Analyzed: 07/04/24

Arsenic	110		ug/l	100	2.80	107	75-125				
Barium	168		"	100	94.1	74.3	75-125				QM-01
Cadmium	5.13		"	5.00	0.185	99.0	75-125				
Copper	114		"	100	11.2	103	75-125				
Lead	54.5		"	50.0	5.85	97.3	75-125				
Nickel	112		"	100	9.14	102	75-125				
Silver	4.98		"	5.00	0.0417	98.7	75-125				
Zinc	136		"	100	33.3	102	75-125				
Selenium	10.9		"	10.0	0.0540	108	75-125				

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Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
 Project Manager: Paul Henchan

Reported:
 07/09/24 13:53

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHG0107 - 3060A Mod

Blank (BHG0107-BLK1)

Prepared & Analyzed: 07/03/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHG0107-BS1)

Prepared & Analyzed: 07/03/24

Chromium, Hexavalent 25.9 0.30 mg/kg wet 25.0 104 80-120

Duplicate (BHG0107-DUP1)

Source: 2407020-01

Prepared & Analyzed: 07/03/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHG0107-MS1)

Source: 2407020-01

Prepared & Analyzed: 07/03/24

Chromium, Hexavalent 26.9 0.30 mg/kg dry 25.7 ND 105 75-125

Matrix Spike Dup (BHG0107-MSD1)

Source: 2407020-01

Prepared & Analyzed: 07/03/24

Chromium, Hexavalent 26.0 0.30 mg/kg dry 25.7 ND 101 75-125 3.50 20

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Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
 Project Manager: Paul Henchan

Reported:
 07/09/24 13:53

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

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

Batch BHG0089 - General Preparation

Blank (BHG0089-BLK1)

Prepared: 07/02/24 Analyzed: 07/03/24

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

LCS (BHG0089-BS1)

Prepared: 07/02/24 Analyzed: 07/03/24

Calcium	5.48	0.0500	mg/L wet	5.00	110	70-130				
Magnesium	5.38	0.0500	"	5.00	108	70-130				
Sodium	5.50	0.0500	"	5.00	110	70-130				

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Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
 Project Manager: Paul Henchan

Reported:
 07/09/24 13:53

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 BHG0115 - General Preparation

Duplicate (BHG0115-DUP1)	Source: 2407023-01		Prepared: 07/03/24 Analyzed: 07/08/24	
% Solids	96.1	%	95.6	0.515 20

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Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
 Project Manager: Paul Henchan

Reported:
 07/09/24 13:53

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

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

Batch BHG0091 - General Preparation

Blank (BHG0091-BLK1)

Prepared: 07/02/24 Analyzed: 07/08/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHG0091-BS1)

Prepared: 07/02/24 Analyzed: 07/08/24

Specific Conductance (EC) 0.154 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BHG0091-DUP1)

Source: 2407020-01

Prepared: 07/02/24 Analyzed: 07/08/24

Specific Conductance (EC) 0.243 0.0100 mmhos/cm 0.247 1.84 20

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Fremont Environmental
 PO Box 1289
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Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
 Project Manager: Paul Henchan

Reported:
 07/09/24 13:53

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

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

Batch BHG0090 - General Preparation

LCS (BHG0090-BS1)

Prepared: 07/02/24 Analyzed: 07/08/24

pH	9.16	pH Units	9.18	99.8	95-105
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Duplicate (BHG0090-DUP1)

Source: 2407020-01

Prepared: 07/02/24 Analyzed: 07/08/24

pH	8.82	pH Units	8.85	0.340	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Spike State CC (BKG)

Project Number: CO23-156
Project Manager: Paul Henchan

Reported:
07/09/24 13:53

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.
- 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.
- 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