

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

March 09, 2023

Paul Henehan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Wells Ranch AE20

Work Order # 2303079

Enclosed are the results of analyses for samples received by Summit Scientific on 03/02/23 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely". The signature is fluid and cursive, with the first name "Scott" and last name "Sheely" clearly distinguishable.

Scott Sheely For Paul Shrewsbury

President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/09/23 12:18

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG N 6FT	2303079-01	Soil	03/01/23 00:00	03/02/23 16:30
BKG S 6FT	2303079-02	Soil	03/01/23 00:00	03/02/23 16:30
BKG E-N 6FT	2303079-03	Soil	03/01/23 00:00	03/02/23 16:30
BKG E-S 6FT	2303079-04	Soil	03/01/23 00:00	03/02/23 16:30
BKG W 6FT	2303079-05	Soil	03/01/23 00:00	03/02/23 16:30

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

2303079

# Summit Scientific

S<sub>2</sub>

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page

1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address:

E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG and ChrisL. @fremontenv.com

City/State/Zip:

Bill to: Dan

Phone:

Project Name: Noble - Wells Ranch AE20

Sampler Name:

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions		
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	50, 500, 1000 (ppb)	Metals (915)	TDS, Chloride, Sulfate	HOLD				
1	BKG N 6FT	3/1/23		2			X			X							X	X					
2	BKG S 6FT			1																			
3	BKG E-N 6FT			1																			
4	BKG E-S 6FT			1																			
5	BKG W 6FT			1																			
6																							
7																							
8																							
9																							
10																							

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time	(Check)	Notes:
EthanB	3/2/23 1424	S2	3/2/23 1424	Same Day	72 hours	
				24 hours	Standard	
				48 hours		
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:		
S2	3/2/23 1630		3/2/23 1630			
Relinquished by:	Date/Time:	Received by:	Date/Time:	Temperature Upon Receipt:	10.1	
				Samples Intact:	(Yes) No	

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2303079Client: FremontClient Project ID: Noble-Wells Ranch AE20Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐

Airbill #: \_\_\_\_\_

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply)

Air

☐

Spill/Solid

☐

Water

☐

Other

☐

Temp (°C)

10.1

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on ice</u>
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<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)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.
AS  
Custodian Printed Name

3/2/23  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/09/23 12:18

**BKG N 6FT**  
**2303079-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	2.87	0.216	0.182	mg/kg dry	1	BGC0119	03/05/23	03/07/23	EPA 6020B	
Barium	61.8	0.432	0.342	"	"	"	"	"	"	
Cadmium	0.129	0.216	0.00778	"	"	"	"	"	"	
Copper	2.54	0.432	0.0226	"	"	"	"	"	"	
Lead	4.14	0.216	0.0594	"	"	"	"	"	"	
Nickel	3.02	0.432	0.0659	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	
Silver	0.0134	0.0216	0.00289	"	"	"	"	"	"	
Zinc	10.3	0.432	0.288	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGC0110	03/04/23	03/04/23	EPA 7196A	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	92.5			%	1	BGC0196	03/07/23	03/08/23	Calculation	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.52			pH Units	1	BGC0108	03/04/23	03/04/23	EPA 9045D	

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.



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/09/23 12:18

**BKG S 6FT**  
**2303079-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	1.64	0.218	0.184	mg/kg dry	1	BGC0119	03/05/23	03/07/23	EPA 6020B	
Barium	22.5	0.436	0.345	"	"	"	"	"	"	
Cadmium	0.110	0.218	0.00785	"	"	"	"	"	"	
Copper	3.93	0.436	0.0228	"	"	"	"	"	"	
Lead	5.51	0.218	0.0599	"	"	"	"	"	"	
Nickel	2.28	0.436	0.0665	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	
Silver	0.0214	0.0218	0.00291	"	"	"	"	"	"	
Zinc	15.5	0.436	0.290	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGC0110	03/04/23	03/04/23	EPA 7196A	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	91.7			%	1	BGC0196	03/07/23	03/08/23	Calculation	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	6.21			pH Units	1	BGC0108	03/04/23	03/04/23	EPA 9045D	

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.





Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/09/23 12:18

**BKG E-N 6FT**  
**2303079-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	1.41	0.225	0.190	mg/kg dry	1	BGC0119	03/05/23	03/07/23	EPA 6020B	
Barium	85.8	0.451	0.356	"	"	"	"	"	"	
Cadmium	0.123	0.225	0.00812	"	"	"	"	"	"	
Copper	3.23	0.451	0.0236	"	"	"	"	"	"	
Lead	3.64	0.225	0.0620	"	"	"	"	"	"	
Nickel	2.43	0.451	0.0688	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	
Silver	0.0140	0.0225	0.00301	"	"	"	"	"	"	
Zinc	12.6	0.451	0.300	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGC0110	03/04/23	03/04/23	EPA 7196A	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	88.7			%	1	BGC0196	03/07/23	03/08/23	Calculation	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.09			pH Units	1	BGC0108	03/04/23	03/04/23	EPA 9045D	

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.



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/09/23 12:18

**BKG E-S 6FT**  
**2303079-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	1.55	0.239	0.201	mg/kg dry	1	BGC0119	03/05/23	03/07/23	EPA 6020B	
Barium	344	0.477	0.377	"	"	"	"	"	"	
Cadmium	0.137	0.239	0.00859	"	"	"	"	"	"	
Copper	4.21	0.477	0.0249	"	"	"	"	"	"	
Lead	3.38	0.239	0.0656	"	"	"	"	"	"	
Nickel	2.94	0.477	0.0728	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	
Silver	0.0177	0.0239	0.00319	"	"	"	"	"	"	
Zinc	14.4	0.477	0.317	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGC0110	03/04/23	03/04/23	EPA 7196A	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	83.8			%	1	BGC0196	03/07/23	03/08/23	Calculation	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.89			pH Units	1	BGC0108	03/04/23	03/04/23	EPA 9045D	

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.





Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/09/23 12:18

**BKG W 6FT**  
**2303079-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Arsenic	1.45	0.239	0.201	mg/kg dry	1	BGC0119	03/05/23	03/07/23	EPA 6020B	
Barium	78.4	0.478	0.377	"	"	"	"	"	"	
Cadmium	0.129	0.239	0.00860	"	"	"	"	"	"	
Copper	3.88	0.478	0.0250	"	"	"	"	"	"	
Lead	4.78	0.239	0.0656	"	"	"	"	"	"	
Nickel	2.55	0.478	0.0728	"	"	"	"	"	"	
Selenium	ND	0.260	0.175	"	"	"	"	"	"	
Silver	0.0158	0.0239	0.00319	"	"	"	"	"	"	
Zinc	15.6	0.478	0.318	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGC0110	03/04/23	03/04/23	EPA 7196A	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	83.8			%	1	BGC0196	03/07/23	03/08/23	Calculation	

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

Date Sampled: **03/01/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.96			pH Units	1	BGC0108	03/04/23	03/04/23	EPA 9045D	

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.



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/09/23 12:18

## Total Metals by EPA 6020B - Quality Control

### Summit Scientific

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

#### Batch BGC0119 - EPA 3050B

##### Blank (BGC0119-BLK1)

Prepared: 03/05/23 Analyzed: 03/07/23

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

##### LCS (BGC0119-BS1)

Prepared: 03/05/23 Analyzed: 03/07/23

Arsenic	46.4	0.200	mg/kg wet	40.0	116	80-120
Barium	45.6	0.400	"	40.0	114	80-120
Cadmium	2.34	0.200	"	2.00	117	80-120
Copper	44.5	0.400	"	40.0	111	80-120
Lead	20.4	0.200	"	20.0	102	80-120
Nickel	46.2	0.400	"	40.0	116	80-120
Selenium	4.71	0.260	"	4.00	118	80-120
Silver	2.35	0.0200	"	2.00	117	80-120
Zinc	47.6	0.400	"	40.0	119	80-120

##### Duplicate (BGC0119-DUP1)

Source: 2303079-01

Prepared: 03/05/23 Analyzed: 03/07/23

Arsenic	2.93	0.216	mg/kg dry	2.87	2.04	20
Barium	59.9	0.432	"	61.8	3.12	20
Cadmium	0.134	0.216	"	0.129	3.61	20
Copper	2.59	0.432	"	2.54	2.17	20
Lead	4.57	0.216	"	4.14	9.85	20
Nickel	3.12	0.432	"	3.02	3.36	20
Selenium	ND	0.260	"	ND		20
Silver	0.0104	0.0216	"	0.0134	25.5	20
Zinc	10.6	0.432	"	10.3	3.03	20

QR-01

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.



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/09/23 12:18

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGC0119 - EPA 3050B**

**Matrix Spike (BGC0119-MS1)**

**Source: 2303079-01**

Prepared: 03/05/23 Analyzed: 03/07/23

Arsenic	51.9	0.216	mg/kg dry	43.2	2.87	113	75-125			
Barium	103	0.432	"	43.2	61.8	95.6	75-125			
Cadmium	2.69	0.216	"	2.16	0.129	118	75-125			
Copper	45.1	0.432	"	43.2	2.54	98.5	75-125			
Lead	28.6	0.216	"	21.6	4.14	113	75-125			
Nickel	44.4	0.432	"	43.2	3.02	95.8	75-125			
Selenium	5.63	0.260	"	4.32	ND	130	75-125			QM-07
Silver	2.51	0.0216	"	2.16	0.0134	116	75-125			
Zinc	50.6	0.432	"	43.2	10.3	93.1	75-125			

**Matrix Spike Dup (BGC0119-MSD1)**

**Source: 2303079-01**

Prepared: 03/05/23 Analyzed: 03/07/23

Arsenic	52.9	0.216	mg/kg dry	43.2	2.87	116	75-125	2.07	25	
Barium	107	0.432	"	43.2	61.8	105	75-125	3.78	25	
Cadmium	2.79	0.216	"	2.16	0.129	123	75-125	3.71	25	
Copper	44.9	0.432	"	43.2	2.54	97.9	75-125	0.588	25	
Lead	29.9	0.216	"	21.6	4.14	119	75-125	4.30	25	
Nickel	44.5	0.432	"	43.2	3.02	95.9	75-125	0.0467	25	
Selenium	5.26	0.260	"	4.32	ND	122	75-125	6.77	25	
Silver	2.61	0.0216	"	2.16	0.0134	120	75-125	3.63	25	
Zinc	50.4	0.432	"	43.2	10.3	92.7	75-125	0.368	25	

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.*



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/09/23 12:18

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BGC0110 - 3060A Mod**

**Blank (BGC0110-BLK1)**

Prepared & Analyzed: 03/04/23

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BGC0110-BS1)**

Prepared & Analyzed: 03/04/23

Chromium, Hexavalent 23.4 0.30 mg/kg wet 25.0 93.4 80-120

**Duplicate (BGC0110-DUP1)**

**Source: 2303079-01**

Prepared & Analyzed: 03/04/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BGC0110-MS1)**

**Source: 2303079-01**

Prepared & Analyzed: 03/04/23

Chromium, Hexavalent 25.5 0.30 mg/kg dry 27.0 ND 94.2 75-125

**Matrix Spike Dup (BGC0110-MSD1)**

**Source: 2303079-01**

Prepared & Analyzed: 03/04/23

Chromium, Hexavalent 25.1 0.30 mg/kg dry 27.0 ND 92.8 75-125 1.50 20

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.*



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/09/23 12:18

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

#### Summit Scientific

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

#### Batch BGC0196 - General Preparation

Duplicate (BGC0196-DUP1)		Source: 2302120-32		Prepared: 03/07/23 Analyzed: 03/08/23	
% Solids	88.6		%	88.7	0.128 20

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.*



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/09/23 12:18

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

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

**Batch BGC0108 - General Preparation**

**LCS (BGC0108-BS1)**

Prepared & Analyzed: 03/04/23

pH	9.23	pH Units	9.18	101	95-105
----	------	----------	------	-----	--------

**Duplicate (BGC0108-DUP1)**

**Source: 2302478-03**

Prepared & Analyzed: 03/04/23

pH	8.19	pH Units	8.24	0.609	20
----	------	----------	------	-------	----

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.*



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Wells Ranch AE20

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
03/09/23 12:18

### Notes and Definitions

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.
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