

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 20, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Noble - UPRC 23-11H4 Facility  
Work Order #2410574

Enclosed are the results of analyses for samples received by Summit Scientific on 10/30/24 09:30. 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 - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG-1 0.5 FT	2410574-01	Soil	10/29/24 00:00	10/30/24 09:30
BKG-1 6FT	2410574-02	Soil	10/29/24 00:00	10/30/24 09:30
BKG-1 7FT	2410574-03	Soil	10/29/24 00:00	10/30/24 09:30
BKG-2 0.5FT	2410574-04	Soil	10/29/24 00:00	10/30/24 09:30
BKG-2 6FT	2410574-05	Soil	10/29/24 00:00	10/30/24 09:30
BKG-2 7FT	2410574-06	Soil	10/29/24 00:00	10/30/24 09:30
BKG-3 0.5FT	2410574-07	Soil	10/29/24 00:00	10/30/24 09:30
BKG-3 6FT	2410574-08	Soil	10/29/24 00:00	10/30/24 09:30
BKG-3 7FT	2410574-09	Soil	10/29/24 00:00	10/30/24 09:30
BKG-4 0.5FT	2410574-10	Soil	10/29/24 00:00	10/30/24 09:30
BKG-4 6FT	2410574-11	Soil	10/29/24 00:00	10/30/24 09:30
BKG-4 7FT	2410574-12	Soil	10/29/24 00:00	10/30/24 09:30
BKG-5 0.5FT	2410574-13	Soil	10/29/24 00:00	10/30/24 09:30
BKG-5 6FT	2410574-14	Soil	10/29/24 00:00	10/30/24 09:30
BKG-5 7FT	2410574-15	Soil	10/29/24 00:00	10/30/24 09:30
SB-E 0.5FT	2410574-16	Soil	10/29/24 00:00	10/30/24 09:30
SB-E 6FT	2410574-17	Soil	10/29/24 00:00	10/30/24 09:30
SB-E 7FT	2410574-18	Soil	10/29/24 00:00	10/30/24 09:30
SB-W 0.5FT	2410574-19	Soil	10/29/24 00:00	10/30/24 09:30
SB-W 6FT	2410574-20	Soil	10/29/24 00:00	10/30/24 09:30
SB-W 7FT	2410574-21	Soil	10/29/24 00:00	10/30/24 09:30
SB-S 0.5FT	2410574-22	Soil	10/29/24 00:00	10/30/24 09:30
SB-S 6FT	2410574-23	Soil	10/29/24 00:00	10/30/24 09:30
SB-S 7FT	2410574-24	Soil	10/29/24 00:00	10/30/24 09:30
SB-NW 0.5FT	2410574-25	Soil	10/29/24 00:00	10/30/24 09:30
SB-NW 6FT	2410574-26	Soil	10/29/24 00:00	10/30/24 09:30
SB-NW 7FT	2410574-27	Soil	10/29/24 00:00	10/30/24 09:30

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Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-NE 0.5FT	2410574-28	Soil	10/29/24 00:00	10/30/24 09:30
SB-NE 6FT	2410574-29	Soil	10/29/24 00:00	10/30/24 09:30
SB-NE 7FT	2410574-30	Soil	10/29/24 00:00	10/30/24 09:30

Summit Scientific

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<b>Send Data To:</b>		<b>Send Invoice To:</b>	
ent: Fremont Environmental	Project Manager:	Company: <u>Noble (Chevron)</u>	
dress: 8305 6th St.	E-Mail: <u>Chevron Dist. List, PDC Dist List, Civitas Dist List, Fremont Dist List: (paulH)mikeG,</u>	Project Name/Location:	
y/State/Zip: Wellington, CO	nickL (ethanB) jeffG, chrisL, stanG, aaronO, joshB (jordanS), tammyA (@fremontenv.com)	AFE#: <u>UWRWE-A2187-ABN</u>	
ne: <u>864-423-2068</u>	Project Name: <u>Noble-UPRC 23-11H4 Facility</u>	PO/Billing Codes:	
ampler Name: <u>Jordan Suttles</u>	Project Number: <u>CO22-075</u>	Contact: <u>Dan Peterson</u>	

Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions		
				HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915-1 (Soil)	Full Table 915-1 (GW)	SAR, EC, pH, boron		Table 915-1 Metals	
BKG-1 0.5 FT	10/29/24		2														
BKG-1 10 FT																	
BKG-1 7 FT																	
BKG-2 0.5 FT																	
BKG-2 6 FT																	
BKG-2 7 FT																	
BKG-3 0.5 FT																	
BKG-3 6 FT																	
BKG-3 7 FT																	
BKG-4 0.5 FT																	
BKG-4 6 FT																	
BKG-4 7 FT																	
BKG-5 0.5 FT																	
BKG-5 6 FT																	
BKG-5 7 FT																	

Relinquished by: <u>Jordan Suttles</u> Date/Time: <u>10/29/24 17:13</u>	Received by: <u>S2 - North office</u> Date/Time: <u>10/29/24 17:13</u>	TAT Business Days Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> Standard <input checked="" type="checkbox"/>	Field DO <input type="checkbox"/> Field EC <input type="checkbox"/> Field ORP <input type="checkbox"/> Field pH <input type="checkbox"/> Field Temp. <input type="checkbox"/> Field Turb. <input type="checkbox"/>	<b>Notes:</b> Dist. Report to parties circled in the email line(s) only.
Relinquished by: <u>S2</u> Date/Time: <u>10/30/24 09:30</u>	Received by: <u>[Signature]</u> Date/Time: <u>10/30/24 09:30</u>			
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____			
Temperature Upon Receipt: <u>4.1</u>	Corrected Temperature: <u>8</u>	IR gun #: _____	HNO3 lot #: _____	



S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2410574

Client: Tremont Client Project ID: Node - UPRC 23-1144 Facility

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

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

Temp (°C)  Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> 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"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	duzce
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 checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input type="checkbox"/>	<input checked="" 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.				

J. J. V-d  
Custodian Printed Name

10/30/24 09:30  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-1 0.5 FT**  
**2410574-01 (Soil)**

Summit Scientific

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK0341	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Arsenic</b>	<b>1.11</b>	0.200		mg/kg dry	1	BHK0472	11/11/24	11/16/24	EPA 6020B	
<b>Barium</b>	<b>116</b>	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
<b>Copper</b>	<b>3.34</b>	0.400		"	"	"	"	"	"	
<b>Lead</b>	<b>6.80</b>	0.200		"	"	"	"	"	"	
<b>Nickel</b>	<b>2.31</b>	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
<b>Zinc</b>	<b>15.9</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Calcium</b>	<b>60.2</b>	0.0500		mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
<b>Magnesium</b>	<b>19.8</b>	0.0500		"	"	"	"	"	"	
<b>Sodium</b>	<b>4.33</b>	0.0500		"	"	"	"	"	"	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-1 0.5 FT**  
**2410574-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.124	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.8		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.09	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.92		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-1 6FT**  
**2410574-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0341	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>0.980</b>	0.200	mg/kg dry	1	BHK0472	11/11/24	11/16/24	EPA 6020B	
<b>Barium</b>	<b>52.3</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>2.10</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>4.55</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>2.41</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>15.7</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>19.6</b>	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
<b>Magnesium</b>	<b>4.21</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>5.96</b>	0.0500	"	"	"	"	"	"	

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 Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

**BKG-1 6FT**  
**2410574-02 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.319	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.1		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.187	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.63		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-1 7FT**  
**2410574-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0341	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>1.38</b>	0.200	mg/kg dry	1	BHK0472	11/11/24	11/16/24	EPA 6020B	
Barium	<b>74.9</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>3.29</b>	0.400	"	"	"	"	"	"	
Lead	<b>5.39</b>	0.200	"	"	"	"	"	"	
Nickel	<b>3.82</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0353</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>14.7</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>25.7</b>	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	<b>14.9</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>13.5</b>	0.0500	"	"	"	"	"	"	

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 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

**BKG-1 7FT**  
**2410574-03 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.524	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.7		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.402	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.51		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-2 0.5FT**  
**2410574-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0341	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>0.959</b>	0.200	mg/kg dry	1	BHK0472	11/11/24	11/16/24	EPA 6020B	
<b>Barium</b>	<b>30.6</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>2.77</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>4.51</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>2.37</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>12.7</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>27.1</b>	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
<b>Magnesium</b>	<b>8.61</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>4.31</b>	0.0500	"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-2 0.5FT**  
**2410574-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.185	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.6		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.301	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.01		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-2 6FT**  
**2410574-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0341	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>1.30</b>	0.200	mg/kg dry	1	BHK0472	11/11/24	11/16/24	EPA 6020B	
Barium	<b>50.4</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>3.23</b>	0.400	"	"	"	"	"	"	
Lead	<b>5.16</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.93</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0300</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>17.4</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>45.9</b>	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	<b>4.19</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>4.94</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

**BKG-2 6FT**  
**2410574-05 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.187	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.6		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.140	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.61		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-2 7FT**  
**2410574-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK0341	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.92	0.200		mg/kg dry	1	BHK0472	11/11/24	11/16/24	EPA 6020B	
Barium	78.4	0.400		"	"	"	"	"	"	
Cadmium	0.206	0.200		"	"	"	"	"	"	
Copper	2.89	0.400		"	"	"	"	"	"	
Lead	5.47	0.200		"	"	"	"	"	"	
Nickel	3.08	0.400		"	"	"	"	"	"	
Silver	0.0280	0.0200		"	"	"	"	"	"	
Zinc	19.2	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	40.4	0.0500		mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	4.79	0.0500		"	"	"	"	"	"	
Sodium	6.97	0.0500		"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-2 7FT**  
**2410574-06 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.276	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.1		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.242	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.57		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-3 0.5FT**  
**2410574-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0341	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>0.996</b>	0.200	mg/kg dry	1	BHK0472	11/11/24	11/16/24	EPA 6020B	
Barium	<b>26.4</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>2.75</b>	0.400	"	"	"	"	"	"	
Lead	<b>5.41</b>	0.200	"	"	"	"	"	"	
Nickel	<b>1.96</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0203</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>13.4</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>12.5</b>	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	<b>4.24</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>5.77</b>	0.0500	"	"	"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility  
 Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

**BKG-3 0.5FT**  
**2410574-07 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.360</b>	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>96.2</b>		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.244</b>	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>5.46</b>		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-3 6FT**  
**2410574-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Boron</b>	<b>4.99</b>	2.00	mg/L	1	BHK0341	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>0.747</b>	0.200	mg/kg dry	1	BHK0472	11/11/24	11/16/24	EPA 6020B	
<b>Barium</b>	<b>38.4</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>2.73</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>5.82</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>3.23</b>	0.400	"	"	"	"	"	"	
<b>Silver</b>	<b>0.0281</b>	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>14.4</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>2.47</b>	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
<b>Magnesium</b>	<b>6.69</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>464</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-3 6FT**  
**2410574-08 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	34.8	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.89	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.33		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-3 7FT**  
**2410574-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>1.39</b>	0.200	mg/kg dry	1	BHK0472	11/11/24	11/16/24	EPA 6020B	
Barium	<b>60.6</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>3.47</b>	0.400	"	"	"	"	"	"	
Lead	<b>5.53</b>	0.200	"	"	"	"	"	"	
Nickel	<b>3.67</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0225</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>15.5</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>4.57</b>	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	<b>8.91</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>455</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

**BKG-3 7FT**  
**2410574-09 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	28.5	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.9		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.04	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.36		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-4 0.5FT**  
**2410574-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.11	0.200		mg/kg dry	1	BHK0472	11/11/24	11/16/24	EPA 6020B	
Barium	41.5	0.400		"	"	"	"	"	"	
Cadmium	0.216	0.200		"	"	"	"	"	"	
Copper	4.14	0.400		"	"	"	"	"	"	
Lead	7.95	0.200		"	"	"	"	"	"	
Nickel	2.55	0.400		"	"	"	"	"	"	
Silver	0.0208	0.0200		"	"	"	"	"	"	
Zinc	21.5	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	36.9	0.0500		mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	10.6	0.0500		"	"	"	"	"	"	
Sodium	10.8	0.0500		"	"	"	"	"	"	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-4 0.5FT**  
**2410574-10 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.403	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.7		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.692	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.98		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-4 6FT**  
**2410574-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>2.18</b>	0.200	mg/kg dry	1	BHK0472	11/11/24	11/16/24	EPA 6020B	
<b>Barium</b>	<b>46.0</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>3.98</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>7.32</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>4.01</b>	0.400	"	"	"	"	"	"	
<b>Silver</b>	<b>0.0439</b>	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>18.8</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>8.33</b>	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
<b>Magnesium</b>	<b>6.07</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>108</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-4 6FT**  
**2410574-11 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.94	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.1		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.816	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.81		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-4 7FT**  
**2410574-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.54	0.200	mg/kg dry	1	BHK0472	11/11/24	11/16/24	EPA 6020B	
Barium	89.4	0.400	"	"	"	"	"	"	
Cadmium	0.236	0.200	"	"	"	"	"	"	
Copper	4.31	0.400	"	"	"	"	"	"	
Lead	7.71	0.200	"	"	"	"	"	"	
Nickel	4.14	0.400	"	"	"	"	"	"	
Silver	0.0466	0.0200	"	"	"	"	"	"	
Zinc	18.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	14.6	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	11.9	0.0500	"	"	"	"	"	"	
Sodium	158	0.0500	"	"	"	"	"	"	

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11/20/24 08:08

**BKG-4 7FT**  
**2410574-12 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.44	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.6		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.15	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.49		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-5 0.5FT**  
**2410574-13 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>1.41</b>	0.200	mg/kg dry	1	BHK0472	11/11/24	11/16/24	EPA 6020B	
Barium	<b>51.2</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>3.58</b>	0.400	"	"	"	"	"	"	
Lead	<b>5.92</b>	0.200	"	"	"	"	"	"	
Nickel	<b>2.94</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0248</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>17.2</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>40.2</b>	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	<b>5.42</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>5.36</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

**BKG-5 0.5FT**  
**2410574-13 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.211	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.7		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.447	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-5 6FT**  
**2410574-14 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Arsenic</b>	<b>1.55</b>	0.200		mg/kg dry	1	BHK0472	11/11/24	11/16/24	EPA 6020B	
<b>Barium</b>	<b>54.5</b>	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
<b>Copper</b>	<b>3.31</b>	0.400		"	"	"	"	"	"	
<b>Lead</b>	<b>5.26</b>	0.200		"	"	"	"	"	"	
<b>Nickel</b>	<b>2.82</b>	0.400		"	"	"	"	"	"	
<b>Silver</b>	<b>0.0322</b>	0.0200		"	"	"	"	"	"	
<b>Zinc</b>	<b>17.4</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Calcium</b>	<b>26.1</b>	0.0500		mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
<b>Magnesium</b>	<b>6.47</b>	0.0500		"	"	"	"	"	"	
<b>Sodium</b>	<b>12.2</b>	0.0500		"	"	"	"	"	"	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

**BKG-5 6FT**  
**2410574-14 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.554</b>	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>98.1</b>		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.349</b>	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>7.38</b>		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-5 7FT**  
**2410574-15 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	7.56	0.200	mg/kg dry	1	BHK0472	11/11/24	11/16/24	EPA 6020B	
Barium	229	0.400	"	"	"	"	"	"	
Cadmium	0.343	0.200	"	"	"	"	"	"	
Copper	7.40	0.400	"	"	"	"	"	"	
Lead	8.61	0.200	"	"	"	"	"	"	
Nickel	5.75	0.400	"	"	"	"	"	"	
Silver	0.0527	0.0200	"	"	"	"	"	"	
Zinc	19.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	87.1	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	209	0.0500	"	"	"	"	"	"	
Sodium	1390	0.0500	"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**BKG-5 7FT**  
**2410574-15 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	18.4	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.4		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	7.87	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-E 0.5FT**  
**2410574-16 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>1.98</b>	0.200	mg/kg dry	1	BHK0472	11/11/24	11/16/24	EPA 6020B	
Barium	<b>52.0</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>6.06</b>	0.400	"	"	"	"	"	"	
Lead	<b>5.48</b>	0.200	"	"	"	"	"	"	
Nickel	<b>3.17</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0223</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>25.2</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>110</b>	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	<b>36.8</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>152</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

**SB-E 0.5FT**  
**2410574-16 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.20	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.2		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.59	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.45		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-E 6FT**  
**2410574-17 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.20	0.200		mg/kg dry	1	BHK0548	11/12/24	11/15/24	EPA 6020B	
Barium	67.5	0.400		"	"	"	"	"	"	
Cadmium	0.262	0.200		"	"	"	"	"	"	
Copper	7.71	0.400		"	"	"	"	"	"	
Lead	8.53	0.200		"	"	"	"	"	"	
Nickel	3.94	0.400		"	"	"	"	"	"	
Silver	0.0469	0.0200		"	"	"	"	"	"	
Zinc	39.4	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	73.3	0.0500		mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	10.2	0.0500		"	"	"	"	"	"	
Sodium	27.3	0.0500		"	"	"	"	"	"	

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Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-E 6FT**  
**2410574-17 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.792</b>	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>82.7</b>		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.559</b>	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.06</b>		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-E 7FT**  
**2410574-18 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.66</b>	0.200	mg/kg dry	1	BHK0548	11/12/24	11/15/24	EPA 6020B	
<b>Barium</b>	<b>57.4</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>4.80</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>4.97</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>3.23</b>	0.400	"	"	"	"	"	"	
<b>Silver</b>	<b>0.0295</b>	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>23.0</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>39.9</b>	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
<b>Magnesium</b>	<b>9.55</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>18.4</b>	0.0500	"	"	"	"	"	"	

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 Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

**SB-E 7FT**  
**2410574-18 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.679</b>	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>90.8</b>		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.357</b>	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.45</b>		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-W 0.5FT**  
**2410574-19 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.27	0.200	mg/kg dry	1	BHK0548	11/12/24	11/15/24	EPA 6020B	
Barium	76.7	0.400	"	"	"	"	"	"	
Cadmium	0.259	0.200	"	"	"	"	"	"	
Copper	8.32	0.400	"	"	"	"	"	"	
Lead	6.44	0.200	"	"	"	"	"	"	
Nickel	3.45	0.400	"	"	"	"	"	"	
Silver	0.0216	0.0200	"	"	"	"	"	"	
Zinc	34.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	147	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	56.1	0.0500	"	"	"	"	"	"	
Sodium	238	0.0500	"	"	"	"	"	"	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

**SB-W 0.5FT**  
**2410574-19 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.23	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.5		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.82	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.71		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-W 6FT**  
**2410574-20 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.01	0.200	mg/kg dry	1	BHK0548	11/12/24	11/15/24	EPA 6020B	
Barium	93.7	0.400	"	"	"	"	"	"	
Cadmium	0.257	0.200	"	"	"	"	"	"	
Copper	6.84	0.400	"	"	"	"	"	"	
Lead	7.08	0.200	"	"	"	"	"	"	
Nickel	3.67	0.400	"	"	"	"	"	"	
Silver	0.0465	0.0200	"	"	"	"	"	"	
Zinc	35.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0623	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	33.1	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	5.67	0.0500	"	"	"	"	"	"	
Sodium	2.53	0.0500	"	"	"	"	"	"	

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Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-W 6FT**  
**2410574-20 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.107</b>	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>88.3</b>		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.298</b>	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.32</b>		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-W 7FT**  
**2410574-21 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>1.16</b>	0.200	mg/kg dry	1	BHK0548	11/12/24	11/15/24	EPA 6020B	
Barium	<b>52.1</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>3.45</b>	0.400	"	"	"	"	"	"	
Lead	<b>5.63</b>	0.200	"	"	"	"	"	"	
Nickel	<b>3.27</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0300</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>24.7</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0624	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>43.2</b>	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	<b>11.3</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>22.1</b>	0.0500	"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-W 7FT**  
**2410574-21 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.774</b>	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>84.0</b>		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.375</b>	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.37</b>		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-S 0.5FT**  
**2410574-22 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.65	0.200	mg/kg dry	1	BHK0548	11/12/24	11/15/24	EPA 6020B	
Barium	62.3	0.400	"	"	"	"	"	"	
Cadmium	0.227	0.200	"	"	"	"	"	"	
Copper	9.29	0.400	"	"	"	"	"	"	
Lead	6.92	0.200	"	"	"	"	"	"	
Nickel	3.66	0.400	"	"	"	"	"	"	
Silver	0.0250	0.0200	"	"	"	"	"	"	
Zinc	38.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0624	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	99.0	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	35.3	0.0500	"	"	"	"	"	"	
Sodium	148	0.0500	"	"	"	"	"	"	

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Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

**SB-S 0.5FT**  
**2410574-22 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.25	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.8		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.44	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.66		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-S 6FT**  
**2410574-23 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>3.10</b>	0.200		mg/kg dry	1	BHK0548	11/12/24	11/15/24	EPA 6020B	
Barium	<b>102</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.240</b>	0.200		"	"	"	"	"	"	
Copper	<b>5.74</b>	0.400		"	"	"	"	"	"	
Lead	<b>6.05</b>	0.200		"	"	"	"	"	"	
Nickel	<b>3.66</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.0454</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>33.0</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0624	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>34.9</b>	0.0500		mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	<b>7.89</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>7.26</b>	0.0500		"	"	"	"	"	"	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-S 6FT**  
**2410574-23 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.289</b>	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>88.9</b>		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.305</b>	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.51</b>		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-S 7FT**  
**2410574-24 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.30	0.200		mg/kg dry	1	BHK0548	11/12/24	11/15/24	EPA 6020B	
Barium	95.1	0.400		"	"	"	"	"	"	
Cadmium	0.268	0.200		"	"	"	"	"	"	
Copper	7.15	0.400		"	"	"	"	"	"	
Lead	6.71	0.200		"	"	"	"	"	"	
Nickel	3.99	0.400		"	"	"	"	"	"	
Silver	0.0495	0.0200		"	"	"	"	"	"	
Zinc	35.0	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0624	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	30.2	0.0500		mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	14.2	0.0500		"	"	"	"	"	"	
Sodium	10.5	0.0500		"	"	"	"	"	"	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-S 7FT**  
**2410574-24 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.395	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.7		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.340	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.49		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

**SB-NW 0.5FT**  
**2410574-25 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.19	0.200		mg/kg dry	1	BHK0548	11/12/24	11/15/24	EPA 6020B	
Barium	56.5	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	8.30	0.400		"	"	"	"	"	"	
Lead	5.79	0.200		"	"	"	"	"	"	
Nickel	3.40	0.400		"	"	"	"	"	"	
Silver	0.0220	0.0200		"	"	"	"	"	"	
Zinc	34.1	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0624	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	125	0.0500		mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	50.0	0.0500		"	"	"	"	"	"	
Sodium	210	0.0500		"	"	"	"	"	"	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-NW 0.5FT**  
**2410574-25 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.02	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.1		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.12	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.65		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-NW 6FT**  
**2410574-26 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.21</b>	0.200	mg/kg dry	1	BHK0548	11/12/24	11/15/24	EPA 6020B	
<b>Barium</b>	<b>42.6</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>3.29</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>4.06</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>2.38</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>18.8</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0624	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>72.4</b>	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
<b>Magnesium</b>	<b>14.4</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>1.53</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-NW 6FT**  
**2410574-26 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0430	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.3		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0973	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.09		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-NW 7FT**  
**2410574-27 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.00</b>	0.200	mg/kg dry	1	BHK0548	11/12/24	11/15/24	EPA 6020B	
<b>Barium</b>	<b>39.0</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>2.87</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>3.42</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>2.14</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>15.1</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0624	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>77.0</b>	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
<b>Magnesium</b>	<b>15.9</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>1.78</b>	0.0500	"	"	"	"	"	"	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-NW 7FT**  
**2410574-27 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.0482</b>	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>95.6</b>		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.111</b>	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>7.89</b>		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-NE 0.5FT**  
**2410574-28 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.09	0.200		mg/kg dry	1	BHK0548	11/12/24	11/15/24	EPA 6020B	
Barium	54.5	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	8.09	0.400		"	"	"	"	"	"	
Lead	5.72	0.200		"	"	"	"	"	"	
Nickel	3.28	0.400		"	"	"	"	"	"	
Silver	0.0211	0.0200		"	"	"	"	"	"	
Zinc	33.7	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0624	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	87.7	0.0500		mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	30.6	0.0500		"	"	"	"	"	"	
Sodium	165	0.0500		"	"	"	"	"	"	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-NE 0.5FT**  
**2410574-28 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.87	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.0		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.42	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.75		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-NE 6FT**  
**2410574-29 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Arsenic</b>	<b>1.44</b>	0.200		mg/kg dry	1	BHK0548	11/12/24	11/15/24	EPA 6020B	
<b>Barium</b>	<b>43.2</b>	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
<b>Copper</b>	<b>4.30</b>	0.400		"	"	"	"	"	"	
<b>Lead</b>	<b>7.46</b>	0.200		"	"	"	"	"	"	
<b>Nickel</b>	<b>2.79</b>	0.400		"	"	"	"	"	"	
<b>Silver</b>	<b>0.0278</b>	0.0200		"	"	"	"	"	"	
<b>Zinc</b>	<b>32.8</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0624	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Calcium</b>	<b>36.3</b>	0.0500		mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
<b>Magnesium</b>	<b>7.09</b>	0.0500		"	"	"	"	"	"	
<b>Sodium</b>	<b>5.76</b>	0.0500		"	"	"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

**SB-NE 6FT**  
**2410574-29 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.229</b>	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>89.8</b>		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.218</b>	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.45</b>		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**SB-NE 7FT**  
**2410574-30 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0342	11/07/24	11/09/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.66	0.200	mg/kg dry	1	BHK0548	11/12/24	11/15/24	EPA 6020B	
Barium	70.1	0.400	"	"	"	"	"	"	
Cadmium	0.584	0.200	"	"	"	"	"	"	
Copper	14.6	0.400	"	"	"	"	"	"	
Lead	16.2	0.200	"	"	"	"	"	"	
Nickel	2.95	0.400	"	"	"	"	"	"	
Silver	0.0930	0.0200	"	"	"	"	"	"	
Zinc	64.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0624	11/13/24	11/13/24	EPA 7196A	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	10.4	0.0500	mg/L dry	1	BHK0387	11/07/24	11/12/24	EPA 6020B	
Magnesium	7.62	0.0500	"	"	"	"	"	"	
Sodium	16.2	0.0500	"	"	"	"	"	"	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

**SB-NE 7FT**  
**2410574-30 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.931</b>	0.00100	units	1	BHK0631	11/13/24	11/13/24	Calculation	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>92.3</b>		%	1	BHK0190	11/05/24	11/05/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.222</b>	0.0100	mmhos/cm	1	BHK0389	11/07/24	11/08/24	EPA 120.1	

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

Date Sampled: **10/29/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.88</b>		pH Units	1	BHK0388	11/07/24	11/08/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**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 BHK0341 - EPA 3050B**

<b>Blank (BHK0341-BLK1)</b>											
Prepared: 11/07/24 Analyzed: 11/09/24											
Boron	ND	2.00	mg/L								
<b>LCS (BHK0341-BS1)</b>											
Prepared: 11/07/24 Analyzed: 11/09/24											
Boron	4.78	2.00	mg/L	5.00		95.5	80-120				
<b>Duplicate (BHK0341-DUP1)</b>											
Source: 2410573-07 Prepared: 11/07/24 Analyzed: 11/09/24											
Boron	0.363	2.00	mg/L		0.303			17.9	20		
<b>Matrix Spike (BHK0341-MS1)</b>											
Source: 2410573-07 Prepared: 11/07/24 Analyzed: 11/09/24											
Boron	5.62	2.00	mg/L	5.02	0.303	106	75-125				
<b>Matrix Spike Dup (BHK0341-MSD1)</b>											
Source: 2410573-07 Prepared: 11/07/24 Analyzed: 11/09/24											
Boron	5.57	2.00	mg/L	5.02	0.303	105	75-125	0.796	25		

**Batch BHK0342 - EPA 3050B**

<b>Blank (BHK0342-BLK1)</b>											
Prepared: 11/07/24 Analyzed: 11/09/24											
Boron	ND	2.00	mg/L								
<b>LCS (BHK0342-BS1)</b>											
Prepared: 11/07/24 Analyzed: 11/09/24											
Boron	5.17	2.00	mg/L	5.00		103	80-120				
<b>Duplicate (BHK0342-DUP1)</b>											
Source: 2410574-09 Prepared: 11/07/24 Analyzed: 11/09/24											
Boron	1.66	2.00	mg/L		1.59			4.13	20		
<b>Matrix Spike (BHK0342-MS1)</b>											
Source: 2410574-09 Prepared: 11/07/24 Analyzed: 11/09/24											
Boron	7.17	2.00	mg/L	4.97	1.59	112	75-125				

Summit Scientific

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

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

**Summit Scientific**

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

**Batch BHK0342 - EPA 3050B**

**Matrix Spike Dup (BHK0342-MSD1)**

**Source: 2410574-09**

Prepared: 11/07/24 Analyzed: 11/09/24

Boron	7.68	2.00	mg/L	4.97	1.59	122	75-125	6.88	25	
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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

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

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

**Batch BHK0472 - EPA 3050B**

**Blank (BHK0472-BLK1)**

Prepared: 11/11/24 Analyzed: 11/16/24

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 (BHK0472-BS1)**

Prepared: 11/11/24 Analyzed: 11/16/24

Arsenic	36.8	0.200	mg/kg wet	41.0	89.7	80-120
Barium	38.3	0.400	"	41.0	93.4	80-120
Cadmium	1.97	0.200	"	2.05	96.1	80-120
Copper	41.8	0.400	"	41.0	102	80-120
Lead	19.1	0.200	"	20.5	93.4	80-120
Nickel	40.9	0.400	"	41.0	99.8	80-120
Silver	1.70	0.0200	"	2.05	82.8	80-120
Zinc	41.2	0.400	"	41.0	101	80-120
Selenium	3.57	0.260	"	4.10	87.1	80-120

**Duplicate (BHK0472-DUP1)**

Source: 2410563-33

Prepared: 11/11/24 Analyzed: 11/16/24

Arsenic	1.10	0.200	mg/kg dry	0.942	15.4	20
Barium	36.6	0.400	"	33.7	8.34	20
Cadmium	0.0798	0.200	"	0.0758	5.21	20
Copper	1.91	0.400	"	1.82	4.66	20
Lead	2.85	0.200	"	2.59	9.59	20
Nickel	1.96	0.400	"	1.91	2.64	20
Silver	0.0107	0.0200	"	0.0106	0.882	20
Zinc	8.34	0.400	"	8.18	2.02	20
Selenium	ND	0.260	"	ND		20

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**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 BHK0472 - EPA 3050B**

**Matrix Spike (BHK0472-MS1)**

Source: 2410563-33

Prepared: 11/11/24 Analyzed: 11/16/24

Arsenic	41.4	0.200	mg/kg dry	44.0	0.942	92.1	75-125			
Barium	75.2	0.400	"	44.0	33.7	94.4	75-125			
Cadmium	2.24	0.200	"	2.20	0.0758	98.5	75-125			
Copper	37.1	0.400	"	44.0	1.82	80.3	75-125			
Lead	24.0	0.200	"	22.0	2.59	97.4	75-125			
Nickel	37.0	0.400	"	44.0	1.91	79.8	75-125			
Silver	1.82	0.0200	"	2.20	0.0106	82.2	75-125			
Zinc	46.2	0.400	"	44.0	8.18	86.5	75-125			
Selenium	3.68	0.260	"	4.40	ND	83.6	75-125			

**Matrix Spike Dup (BHK0472-MSD1)**

Source: 2410563-33

Prepared: 11/11/24 Analyzed: 11/16/24

Arsenic	40.7	0.200	mg/kg dry	43.3	0.942	91.8	75-125	1.86	25
Barium	75.2	0.400	"	43.3	33.7	95.9	75-125	0.00984	25
Cadmium	2.23	0.200	"	2.16	0.0758	99.4	75-125	0.623	25
Copper	36.8	0.400	"	43.3	1.82	80.9	75-125	0.803	25
Lead	23.4	0.200	"	21.6	2.59	96.1	75-125	2.62	25
Nickel	36.9	0.400	"	43.3	1.91	80.9	75-125	0.260	25
Silver	1.80	0.0200	"	2.16	0.0106	82.5	75-125	1.29	25
Zinc	43.8	0.400	"	43.3	8.18	82.3	75-125	5.31	25
Selenium	3.63	0.260	"	4.33	ND	83.9	75-125	1.31	25

**Batch BHK0548 - EPA 3050B**

**Blank (BHK0548-BLK1)**

Prepared: 11/12/24 Analyzed: 11/14/24

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	"						

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**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 BHK0548 - EPA 3050B**

**LCS (BHK0548-BS1)**

Prepared: 11/12/24 Analyzed: 11/14/24

Arsenic	35.8	0.200	mg/kg wet	40.3		88.9	80-120			
Barium	37.6	0.400	"	40.3		93.1	80-120			
Cadmium	1.87	0.200	"	2.02		92.7	80-120			
Copper	36.5	0.400	"	40.3		90.5	80-120			
Lead	18.6	0.200	"	20.2		92.3	80-120			
Nickel	38.2	0.400	"	40.3		94.8	80-120			
Silver	2.08	0.0200	"	2.02		103	80-120			
Zinc	36.0	0.400	"	40.3		89.4	80-120			
Selenium	3.71	0.260	"	4.03		92.1	80-120			

**Duplicate (BHK0548-DUP1)**

Source: 2410345-06

Prepared: 11/12/24 Analyzed: 11/14/24

Arsenic	2.23	0.200	mg/kg dry		1.49		40.1	20		QR-04
Barium	55.2	0.400	"		52.0		6.07	20		
Cadmium	0.123	0.200	"		0.0948		26.1	20		QR-01
Copper	2.83	0.400	"		2.56		10.2	20		
Lead	4.16	0.200	"		3.47		18.2	20		
Nickel	2.14	0.400	"		1.82		16.1	20		
Silver	0.0112	0.0200	"		0.0111		0.810	20		
Zinc	12.1	0.400	"		10.5		13.9	20		
Selenium	ND	0.260	"		ND			20		

**Matrix Spike (BHK0548-MS1)**

Source: 2410345-06

Prepared: 11/12/24 Analyzed: 11/14/24

Arsenic	39.6	0.200	mg/kg dry	39.4	1.49	96.7	75-125			
Barium	96.0	0.400	"	39.4	52.0	112	75-125			
Cadmium	2.06	0.200	"	1.97	0.0948	99.8	75-125			
Copper	39.9	0.400	"	39.4	2.56	94.7	75-125			
Lead	22.9	0.200	"	19.7	3.47	98.7	75-125			
Nickel	33.0	0.400	"	39.4	1.82	79.1	75-125			
Silver	0.0793	0.0200	"	1.97	0.0111	3.46	75-125			QM-05
Zinc	50.6	0.400	"	39.4	10.5	102	75-125			
Selenium	3.36	0.260	"	3.94	ND	85.2	75-125			

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

**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 BHK0548 - EPA 3050B**

<b>Matrix Spike Dup (BHK0548-MSD1)</b>	<b>Source: 2410345-06</b>			<b>Prepared: 11/12/24 Analyzed: 11/14/24</b>						
Arsenic	39.8	0.200	mg/kg dry	41.4	1.49	92.7	75-125	0.436	25	
Barium	96.2	0.400	"	41.4	52.0	107	75-125	0.161	25	
Cadmium	2.12	0.200	"	2.07	0.0948	98.0	75-125	2.85	25	
Copper	42.1	0.400	"	41.4	2.56	95.6	75-125	5.42	25	
Lead	23.8	0.200	"	20.7	3.47	98.2	75-125	3.61	25	
Nickel	37.1	0.400	"	41.4	1.82	85.2	75-125	11.6	25	
Silver	0.0806	0.0200	"	2.07	0.0111	3.36	75-125	1.73	25	QM-05
Zinc	50.7	0.400	"	41.4	10.5	97.1	75-125	0.145	25	
Selenium	3.61	0.260	"	4.14	ND	87.3	75-125	7.15	25	

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

**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 BHK0623 - 3060A Mod**

<b>Blank (BHK0623-BLK1)</b>		Prepared & Analyzed: 11/13/24									
Chromium, Hexavalent	ND	0.30	mg/kg wet								
<b>LCS (BHK0623-BS1)</b>		Prepared & Analyzed: 11/13/24									
Chromium, Hexavalent	26.3	0.30	mg/kg wet	25.0	105	80-120					
<b>Duplicate (BHK0623-DUP1)</b>		<b>Source: 2410574-01</b>		Prepared & Analyzed: 11/13/24							
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
<b>Matrix Spike (BHK0623-MS1)</b>		<b>Source: 2410574-01</b>		Prepared & Analyzed: 11/13/24							
Chromium, Hexavalent	26.8	0.30	mg/kg dry	25.8	ND	104	75-125				
<b>Matrix Spike Dup (BHK0623-MSD1)</b>		<b>Source: 2410574-01</b>		Prepared & Analyzed: 11/13/24							
Chromium, Hexavalent	26.7	0.30	mg/kg dry	25.8	ND	103	75-125	0.579		20	

**Batch BHK0624 - 3060A Mod**

<b>Blank (BHK0624-BLK1)</b>		Prepared & Analyzed: 11/13/24									
Chromium, Hexavalent	ND	0.30	mg/kg wet								
<b>LCS (BHK0624-BS1)</b>		Prepared & Analyzed: 11/13/24									
Chromium, Hexavalent	26.2	0.30	mg/kg wet	25.0	105	80-120					
<b>Duplicate (BHK0624-DUP1)</b>		<b>Source: 2410574-21</b>		Prepared & Analyzed: 11/13/24							
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
<b>Matrix Spike (BHK0624-MS1)</b>		<b>Source: 2410574-21</b>		Prepared & Analyzed: 11/13/24							
Chromium, Hexavalent	30.2	0.30	mg/kg dry	29.8	ND	102	75-125				

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

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

**Summit Scientific**

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

**Batch BHK0624 - 3060A Mod**

**Matrix Spike Dup (BHK0624-MSD1)**

Source: 2410574-21

Prepared & Analyzed: 11/13/24

Chromium, Hexavalent	31.4	0.30	mg/kg dry	29.8	ND	106	75-125	3.86	20	
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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

**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 BHK0387 - General Preparation**

**Blank (BHK0387-BLK1)**

Prepared: 11/07/24 Analyzed: 11/12/24

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

**LCS (BHK0387-BS1)**

Prepared: 11/07/24 Analyzed: 11/12/24

Calcium	5.92	0.0500	mg/L wet	5.00		118	70-130			
Magnesium	5.12	0.0500	"	5.00		102	70-130			
Sodium	5.15	0.0500	"	5.00		103	70-130			

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Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

**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 BHK0190 - General Preparation**

**Duplicate (BHK0190-DUP1)**

**Source: 2410574-01**

Prepared & Analyzed: 11/05/24

% Solids	96.7		%		96.8			0.119	20	
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 Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

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

**Summit Scientific**

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

**Batch BHK0389 - General Preparation**

**Blank (BHK0389-BLK1)**

Prepared: 11/07/24 Analyzed: 11/08/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHK0389-BS1)**

Prepared: 11/07/24 Analyzed: 11/08/24

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

**Duplicate (BHK0389-DUP1)**

**Source: 2410574-01**

Prepared: 11/07/24 Analyzed: 11/08/24

Specific Conductance (EC) 1.08 0.0100 mmhos/cm 1.09 1.38 20

Summit Scientific

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 Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
 Project Manager: Paul Henchan

**Reported:**  
 11/20/24 08:08

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

**Summit Scientific**

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

**Batch BHK0388 - General Preparation**

**LCS (BHK0388-BS1)**

Prepared: 11/07/24 Analyzed: 11/08/24

pH	9.16	pH Units	9.18	99.8	95-105
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**Duplicate (BHK0388-DUP1)**

Source: 2410574-01

Prepared: 11/07/24 Analyzed: 11/08/24

pH	6.88	pH Units	6.92	0.580	20
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Summit Scientific

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Wellington CO, 80549

Project: Noble - UPRC 23-11H4 Facility

Project Number: C022-075  
Project Manager: Paul Henchan

**Reported:**  
11/20/24 08:08

### Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference