

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

April 14, 2025

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Noble - Millage C 64N64W

Work Order #2502337

Enclosed are the results of analyses for samples received by Summit Scientific on 02/18/25 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is written in a cursive, flowing style.

Natalie Tessier For Paul Shrewsbury  
President



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
 Project Manager: Paul Henchan

**Reported:**  
 04/14/25 08:08

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG1 1Ft	2502337-01	Soil	02/18/25 13:00	02/18/25 16:30
BKG1 3Ft	2502337-02	Soil	02/18/25 13:05	02/18/25 16:30
BKG1 5Ft	2502337-03	Soil	02/18/25 13:10	02/18/25 16:30
BKG1 6Ft	2502337-04	Soil	02/18/25 13:15	02/18/25 16:30
BKG1 16Ft	2502337-05	Soil	02/18/25 13:20	02/18/25 16:30
BKG1 17Ft	2502337-06	Soil	02/18/25 13:25	02/18/25 16:30
BKG2 1Ft	2502337-07	Soil	02/18/25 13:30	02/18/25 16:30
BKG2 3Ft	2502337-08	Soil	02/18/25 13:35	02/18/25 16:30
BKG2 5Ft	2502337-09	Soil	02/18/25 13:40	02/18/25 16:30
BKG2 6Ft	2502337-10	Soil	02/18/25 13:45	02/18/25 16:30
BKG2 16Ft	2502337-11	Soil	02/18/25 13:50	02/18/25 16:30
BKG2 17Ft	2502337-12	Soil	02/18/25 13:55	02/18/25 16:30
BKG3 1Ft	2502337-13	Soil	02/18/25 14:00	02/18/25 16:30
BKG3 3Ft	2502337-14	Soil	02/18/25 14:05	02/18/25 16:30
BKG3 5Ft	2502337-15	Soil	02/18/25 14:10	02/18/25 16:30
BKG3 6Ft	2502337-16	Soil	02/18/25 14:15	02/18/25 16:30
BKG3 16Ft	2502337-17	Soil	02/18/25 14:20	02/18/25 16:30
BKG3 17Ft	2502337-18	Soil	02/18/25 14:25	02/18/25 16:30
BKG4 1Ft	2502337-19	Soil	02/18/25 14:30	02/18/25 16:30
BKG4 3Ft	2502337-20	Soil	02/18/25 14:35	02/18/25 16:30
BKG4 5Ft	2502337-21	Soil	02/18/25 14:40	02/18/25 16:30
BKG4 6Ft	2502337-22	Soil	02/18/25 14:45	02/18/25 16:30
BKG4 16Ft	2502337-23	Soil	02/18/25 14:50	02/18/25 16:30
BKG4 17Ft	2502337-24	Soil	02/18/25 14:55	02/18/25 16:30
BKG5 1Ft	2502337-25	Soil	02/18/25 15:00	02/18/25 16:30
BKG5 3Ft	2502337-26	Soil	02/18/25 15:05	02/18/25 16:30
BKG5 5Ft	2502337-27	Soil	02/18/25 15:10	02/18/25 16:30

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG5 6Ft	2502337-28	Soil	02/18/25 15:15	02/18/25 16:30
BKG5 16Ft	2502337-29	Soil	02/18/25 15:20	02/18/25 16:30
BKG5 17Ft	2502337-30	Soil	02/18/25 15:25	02/18/25 16:30

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# SUMMIT SCIENTIFIC

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

Lab ID 2502337.1 Page 1 of 2

Send Data To:		Send Invoice To:	
ent: Fremont Environmental	Project Manager: <u>Paul Henehan</u>	Company: <u>Chevron (Noble)</u>	
dress: 8305 6th St.	E-Mail: <u>(Chevron Dist. List)</u> PDC Dist List, Civitas Dist List, Fremont Dist List: <u>(paulH)</u> mikeG,	Project Name/Location:	
y/State/Zip: Wellington, CO	nickL, <u>(ethanB)</u> jeffG, chrisL, stanG, aaronO, joshB, <u>(jordanS)</u> tammyA. (@fremontenv.com)	AFE#: <u>UWRWE-A1780-ENU</u>	
me: <u>864-423-2066</u>	Project Name: <u>Millage C 64N64W</u>	PO/Billing Codes:	
opler Name: <u>Jordan Suttler</u>	Project Number: <u>CO22-149</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)	Full Table 915-1 (Soil)	Full Table 915-1 (GW)		
BKG1 1Ft	2/18/25	13:00	2			X											
BKG1 3Ft		13:05	1														
BKG1 5Ft		13:10	1														
BKG1 6Ft		13:15	1														
BKG1 16Ft		13:20	1														
BKG1 17Ft		13:25	1														
BKG2 1Ft		13:30	1														
BKG2 3Ft		13:35	1														
BKG2 5Ft		13:40	1														
BKG2 6Ft		13:45	1														
BKG2 16Ft		13:50	1														
BKG2 17Ft		13:55	1														
BKG3 1Ft		14:00	1														
BKG3 3Ft		14:05	1														
BKG3 5Ft		14:10	1														

Relinquished by: <u>Jordan Suttler</u>	Date/Time: <u>2/18/25 16:30</u>	Received by: <u>S2 North office</u>	Date/Time: <u>2/18/25 16:30</u>	TAT Business Days	Field DO	Notes: Dist. Report to parties circled in the email line(s) only.
Relinquished by: <u>S2</u>	Date/Time: <u>2/18/25 16:30</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/18/25 16:30</u>	Same Day	Field EC	
Relinquished by: <u>"</u>	Date/Time: <u>16:30</u>	Received by: <u>[Signature]</u>	Date/Time: <u>16:30</u>	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>0.1</u>	Corrected Temperature: <u>6</u>	IR gun #: <u>1</u>	HNO3 lot #: <u></u>			

# SUMMIT SCIENTIFIC

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

Lab ID: 2502337.2 Page 2 of 2

Client: Fremont Environmental	Send Data To: Project Manager: <u>Paul Henehan</u>	Send Invoice To: Company: <u>Chevron (Noble)</u>
Address: 8305 6th St.	E-Mail: <u>Chevron Dist. List</u> PDC Dist List, Civitas Dist List, Fremont Dist List ( <u>paulH</u> ), <u>mikeG</u> , <u>nickL</u> , <u>ethanB</u> , <u>jeffU</u> , <u>chrisL</u> , <u>stanG</u> , <u>aaronO</u> , <u>joshB</u> , <u>jordanS</u> , <u>tanmyA</u> (@fremontenv.com)	Project Name/Location: <u>AFE#: UWRWE-A1780-ENV</u>
City/State/Zip: Wellington, CO	Project Name: <u>Millage C 64N64W</u>	PO/Billing Codes:
Phone: <u>864-423-2068</u>	Project Number: <u>6022-149</u>	Contact: <u>Dan Peterson</u>
Sampler Name: <u>Jordan Suttles</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)	Full Table 915-1 (Emergency)				
BKG3 6FT	14:15	2/18/25	2			X				X								
BKG3 16FT	14:20																	
BKG3 17FT	14:25																	
BKG4 1FT	14:30																	
BKG4 3FT	14:35																	
BKG4 5FT	14:40																	
BKG4 6FT	14:45																	
BKG4 16FT	14:50																	
BKG4 17FT	14:55																	
BKG5 1FT	15:00																	
BKG5 3FT	15:05																	
BKG5 5FT	15:10																	
BKG5 6FT	15:15																	
BKG5 16FT	15:20																	
BKG5 17FT	15:25																	

Relinquished by: <u>Jordan Suttles</u>	Date/Time: <u>2/18/25 16:30</u>	Received by: <u>SA North office</u>	Date/Time: <u>2/18/25 16:30</u>	TAT Business Days	Field DO	Notes: Dist. Report to parties circled in the email line(s) only.
Relinquished by: <u>SL</u>	Date/Time: <u>2/18/25 16:30</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/18/25 16:30</u>	Same Day	Field EC	
Relinquished by: <u>SL</u>	Date/Time: <u>2/18/25 16:30</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/18/25 16:30</u>	1 Day	Field ORP	
Relinquished by: <u>SL</u>	Date/Time: <u>2/18/25 16:30</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/18/25 16:30</u>	2 Days	Field pH	
Relinquished by: <u>SL</u>	Date/Time: <u>2/18/25 16:30</u>	Received by: <u>[Signature]</u>	Date/Time: <u>2/18/25 16:30</u>	3 Days	Field Temp.	
Temperature Upon Receipt: <u>0.1</u>	Corrected Temperature: <u>6</u>	IR gun #: <u>1</u>	HNO3 lot #: <u>X</u>	Standard	Field Turb.	





Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG1 1Ft**  
**2502337-01 (Soil)**

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

Date Sampled: **02/18/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIC0668	03/12/25	04/08/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.84	0.200	mg/kg dry	1	BIC1279	03/21/25	04/09/25	EPA 6020B	
Barium	132	0.400	"	"	"	"	"	"	
Cadmium	0.449	0.200	"	"	"	"	"	"	
Copper	8.07	0.400	"	"	"	"	"	"	
Lead	13.4	0.200	"	"	"	"	"	"	
Nickel	6.24	0.400	"	"	"	"	"	"	
Silver	0.0609	0.0200	"	"	"	"	"	"	
Zinc	34.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.9	0.0500	mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	10.2	0.0500	"	"	"	"	"	"	
Sodium	25.5	0.0500	"	"	"	"	"	"	

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Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG1 1Ft**  
**2502337-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.860</b>	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>84.8</b>		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.367</b>	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.06</b>		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG1 3Ft**  
**2502337-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0668	03/12/25	04/08/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.44	0.200	mg/kg dry	1	BIC1323	03/21/25	04/04/25	EPA 6020B	
Barium	158	0.400	"	"	"	"	"	"	
Cadmium	0.455	0.200	"	"	"	"	"	"	
Copper	8.37	0.400	"	"	"	"	"	"	
Lead	14.3	0.200	"	"	"	"	"	"	
Nickel	7.46	0.400	"	"	"	"	"	"	
Silver	0.0727	0.0200	"	"	"	"	"	"	
Zinc	27.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 13:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	97.5	0.0500	mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	23.6	0.0500	"	"	"	"	"	"	
Sodium	158	0.0500	"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG1 3Ft**  
**2502337-02 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.73	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.6		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.10	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 13:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.64		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG1 5Ft**  
**2502337-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0668	03/12/25	04/08/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.41	0.200		mg/kg dry	1	BIC1323	03/21/25	04/04/25	EPA 6020B	
Barium	109	0.400		"	"	"	"	"	"	
Cadmium	0.489	0.200		"	"	"	"	"	"	
Copper	8.41	0.400		"	"	"	"	"	"	
Lead	13.7	0.200		"	"	"	"	"	"	
Nickel	7.35	0.400		"	"	"	"	"	"	
Silver	0.0863	0.0200		"	"	"	"	"	"	
Zinc	27.9	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 13:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	60.8	0.0500		mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	17.4	0.0500		"	"	"	"	"	"	
Sodium	334	0.0500		"	"	"	"	"	"	

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Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG1 5Ft**  
**2502337-03 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.72	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.9		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.70	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 13:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG1 6Ft**  
**2502337-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0668	03/12/25	04/08/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.67	0.200		mg/kg dry	1	BIC1323	03/21/25	04/04/25	EPA 6020B	
Barium	201	0.400		"	"	"	"	"	"	
Cadmium	0.581	0.200		"	"	"	"	"	"	
Copper	9.65	0.400		"	"	"	"	"	"	
Lead	15.8	0.200		"	"	"	"	"	"	
Nickel	7.73	0.400		"	"	"	"	"	"	
Silver	0.0991	0.0200		"	"	"	"	"	"	
Zinc	31.1	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	97.9	0.0500		mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	26.7	0.0500		"	"	"	"	"	"	
Sodium	385	0.0500		"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG1 6Ft**  
**2502337-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.90	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.7		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.05	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG1 16Ft**  
**2502337-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0668	03/12/25	04/08/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.24	0.200		mg/kg dry	1	BIC1323	03/21/25	04/04/25	EPA 6020B	
Barium	66.6	0.400		"	"	"	"	"	"	
Cadmium	0.200	0.200		"	"	"	"	"	"	
Copper	4.24	0.400		"	"	"	"	"	"	
Lead	5.74	0.200		"	"	"	"	"	"	
Nickel	3.83	0.400		"	"	"	"	"	"	
Silver	0.0319	0.0200		"	"	"	"	"	"	
Zinc	16.6	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	67.7	0.0500		mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	18.2	0.0500		"	"	"	"	"	"	
Sodium	240	0.0500		"	"	"	"	"	"	

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Fremont Environmental  
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Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG1 16Ft**  
**2502337-05 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.69	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.7		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.35	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG1 17Ft**  
**2502337-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0668	03/12/25	04/08/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>0.334</b>	0.200	mg/kg dry	1	BIC1323	03/21/25	04/04/25	EPA 6020B	
<b>Barium</b>	<b>8.44</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>0.762</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>1.54</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>0.843</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>4.50</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 13:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>40.3</b>	0.0500	mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
<b>Magnesium</b>	<b>11.8</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>206</b>	0.0500	"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG1 17Ft**  
**2502337-06 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.34	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.2		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.12	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 13:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.40		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG2 1Ft**  
**2502337-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>4.39</b>	0.200		mg/kg dry	1	BIC1323	03/21/25	04/04/25	EPA 6020B	
Barium	<b>157</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.564</b>	0.200		"	"	"	"	"	"	
Copper	<b>8.94</b>	0.400		"	"	"	"	"	"	
Lead	<b>16.9</b>	0.200		"	"	"	"	"	"	
Nickel	<b>7.04</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.0818</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>40.3</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 13:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>23.8</b>	0.0500		mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	<b>4.83</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>31.8</b>	0.0500		"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG2 1Ft**  
**2502337-07 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.55	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.5		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.253	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 13:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.51		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG2 3Ft**  
**2502337-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.24	0.200		mg/kg dry	1	BIC1323	03/21/25	04/04/25	EPA 6020B	
Barium	97.2	0.400		"	"	"	"	"	"	
Cadmium	0.312	0.200		"	"	"	"	"	"	
Copper	6.17	0.400		"	"	"	"	"	"	
Lead	9.23	0.200		"	"	"	"	"	"	
Nickel	5.32	0.400		"	"	"	"	"	"	
Silver	0.0582	0.0200		"	"	"	"	"	"	
Zinc	21.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 13:35**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	296	0.0500		mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	84.7	0.0500		"	"	"	"	"	"	
Sodium	623	0.0500		"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG2 3Ft**  
**2502337-08 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.22	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.9		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.87	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 13:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.80		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG2 5Ft**  
**2502337-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 13:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 13:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.38	0.200		mg/kg dry	1	BIC1323	03/21/25	04/04/25	EPA 6020B	
Barium	190	0.400		"	"	"	"	"	"	
Cadmium	0.471	0.200		"	"	"	"	"	"	
Copper	8.53	0.400		"	"	"	"	"	"	
Lead	12.8	0.200		"	"	"	"	"	"	
Nickel	7.15	0.400		"	"	"	"	"	"	
Silver	0.0835	0.0200		"	"	"	"	"	"	
Zinc	28.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 13:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 13:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	262	0.0500		mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	54.6	0.0500		"	"	"	"	"	"	
Sodium	425	0.0500		"	"	"	"	"	"	

Summit Scientific

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Wellington CO, 80549

Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG2 5Ft**  
**2502337-09 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.24	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.3		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.80	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 13:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG2 6Ft**  
**2502337-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 13:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 13:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.87	0.200		mg/kg dry	1	BIC1323	03/21/25	04/04/25	EPA 6020B	
Barium	113	0.400		"	"	"	"	"	"	
Cadmium	0.225	0.200		"	"	"	"	"	"	
Copper	4.81	0.400		"	"	"	"	"	"	
Lead	7.43	0.200		"	"	"	"	"	"	
Nickel	5.54	0.400		"	"	"	"	"	"	
Silver	0.0340	0.0200		"	"	"	"	"	"	
Zinc	19.6	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 13:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 13:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	96.6	0.0500		mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	21.1	0.0500		"	"	"	"	"	"	
Sodium	316	0.0500		"	"	"	"	"	"	

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Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG2 6Ft**  
**2502337-10 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.59	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.6		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.92	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 13:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.15		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG2 16Ft**  
**2502337-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.10</b>	0.200	mg/kg dry	1	BIC1323	03/21/25	04/04/25	EPA 6020B	
<b>Barium</b>	<b>12.3</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>1.58</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>2.50</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>1.48</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>7.73</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 13:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>85.1</b>	0.0500	mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
<b>Magnesium</b>	<b>18.1</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>260</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG2 16Ft**  
**2502337-11 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.68	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.3		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.51	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 13:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.98		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG2 17Ft**  
**2502337-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.11</b>	0.200	mg/kg dry	1	BIC1323	03/21/25	04/04/25	EPA 6020B	
<b>Barium</b>	<b>17.6</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>1.70</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>3.15</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>3.05</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>8.84</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>59.0</b>	0.0500	mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
<b>Magnesium</b>	<b>18.8</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>198</b>	0.0500	"	"	"	"	"	"	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG2 17Ft**  
**2502337-12 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.75	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.4		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.22	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.15		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG3 1Ft**  
**2502337-13 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.15	0.200		mg/kg dry	1	BIC1323	03/21/25	04/04/25	EPA 6020B	
Barium	137	0.400		"	"	"	"	"	"	
Cadmium	0.479	0.200		"	"	"	"	"	"	
Copper	8.27	0.400		"	"	"	"	"	"	
Lead	15.3	0.200		"	"	"	"	"	"	
Nickel	6.68	0.400		"	"	"	"	"	"	
Silver	0.0734	0.0200		"	"	"	"	"	"	
Zinc	35.1	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 14:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	23.8	0.0500		mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	4.83	0.0500		"	"	"	"	"	"	
Sodium	61.2	0.0500		"	"	"	"	"	"	

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Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG3 1Ft**  
**2502337-13 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.99	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.3		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.351	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.57		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG3 3Ft**  
**2502337-14 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.71	0.200	mg/kg dry	1	BIC1323	03/21/25	04/04/25	EPA 6020B	
Barium	144	0.400	"	"	"	"	"	"	
Cadmium	0.426	0.200	"	"	"	"	"	"	
Copper	7.79	0.400	"	"	"	"	"	"	
Lead	12.3	0.200	"	"	"	"	"	"	
Nickel	6.61	0.400	"	"	"	"	"	"	
Silver	0.0791	0.0200	"	"	"	"	"	"	
Zinc	26.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	110	0.0500	mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	34.5	0.0500	"	"	"	"	"	"	
Sodium	450	0.0500	"	"	"	"	"	"	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG3 3Ft**  
**2502337-14 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.59	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.1		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.89	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.11		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

Summit Scientific

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG3 5Ft**  
**2502337-15 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 14:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 14:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.15	0.200		mg/kg dry	1	BIC1323	03/21/25	04/04/25	EPA 6020B	
Barium	77.4	0.400		"	"	"	"	"	"	
Cadmium	0.204	0.200		"	"	"	"	"	"	
Copper	4.41	0.400		"	"	"	"	"	"	
Lead	6.09	0.200		"	"	"	"	"	"	
Nickel	4.22	0.400		"	"	"	"	"	"	
Silver	0.0314	0.0200		"	"	"	"	"	"	
Zinc	16.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 14:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 14:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	250	0.0500		mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	54.5	0.0500		"	"	"	"	"	"	
Sodium	310	0.0500		"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG3 5Ft**  
**2502337-15 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.63	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.0		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.62	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG3 6Ft**  
**2502337-16 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.73	0.200		mg/kg dry	1	BIC1323	03/21/25	04/04/25	EPA 6020B	
Barium	137	0.400		"	"	"	"	"	"	
Cadmium	0.340	0.200		"	"	"	"	"	"	
Copper	6.60	0.400		"	"	"	"	"	"	
Lead	10.1	0.200		"	"	"	"	"	"	
Nickel	7.10	0.400		"	"	"	"	"	"	
Silver	0.0520	0.0200		"	"	"	"	"	"	
Zinc	25.6	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 14:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	166	0.0500		mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	39.6	0.0500		"	"	"	"	"	"	
Sodium	280	0.0500		"	"	"	"	"	"	

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Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG3 6Ft**  
**2502337-16 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.07	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.9		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.98	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG3 16Ft**  
**2502337-17 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 14:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 14:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>0.436</b>	0.200	mg/kg dry	1	BIC1323	03/21/25	04/04/25	EPA 6020B	
<b>Barium</b>	<b>7.62</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>0.834</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>1.79</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>0.956</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>4.97</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 14:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 14:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>91.4</b>	0.0500	mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
<b>Magnesium</b>	<b>31.7</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>226</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG3 16Ft**  
**2502337-17 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.19	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.4		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.50	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG3 17Ft**  
**2502337-18 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 14:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 14:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>0.208</b>	0.200	mg/kg dry	1	BIC1323	03/21/25	04/04/25	EPA 6020B	
<b>Barium</b>	<b>4.13</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>1.03</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>1.21</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>1.10</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>4.08</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 14:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 14:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>81.8</b>	0.0500	mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
<b>Magnesium</b>	<b>33.7</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>207</b>	0.0500	"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG3 17Ft**  
**2502337-18 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.86	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.8		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.46	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 14:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.42		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG4 1Ft**  
**2502337-19 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>3.98</b>	0.200	mg/kg dry	1	BIC1323	03/21/25	04/04/25	EPA 6020B	
Barium	<b>134</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.443</b>	0.200	"	"	"	"	"	"	
Copper	<b>7.67</b>	0.400	"	"	"	"	"	"	
Lead	<b>13.4</b>	0.200	"	"	"	"	"	"	
Nickel	<b>6.61</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0729</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>30.1</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>331</b>	0.0500	mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	<b>49.2</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>144</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG4 1Ft**  
**2502337-19 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.95	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.9		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.89	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.76		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG4 3Ft**  
**2502337-20 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 14:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 14:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.07	0.200	mg/kg dry	1	BIC1323	03/21/25	04/04/25	EPA 6020B	
Barium	138	0.400	"	"	"	"	"	"	
Cadmium	0.459	0.200	"	"	"	"	"	"	
Copper	8.14	0.400	"	"	"	"	"	"	
Lead	13.7	0.200	"	"	"	"	"	"	
Nickel	7.01	0.400	"	"	"	"	"	"	
Silver	0.0737	0.0200	"	"	"	"	"	"	
Zinc	31.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 14:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1490	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 14:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	267	0.0500	mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	83.9	0.0500	"	"	"	"	"	"	
Sodium	476	0.0500	"	"	"	"	"	"	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG4 3Ft**  
**2502337-20 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.51	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	75.0		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.20	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

Summit Scientific

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG4 5Ft**  
**2502337-21 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.50	0.200	mg/kg dry	1	BIC1324	03/21/25	04/11/25	EPA 6020B	
Barium	212	0.400	"	"	"	"	"	"	
Cadmium	0.431	0.200	"	"	"	"	"	"	
Copper	9.18	0.400	"	"	"	"	"	"	
Lead	13.3	0.200	"	"	"	"	"	"	
Nickel	7.60	0.400	"	"	"	"	"	"	
Silver	0.0754	0.0200	"	"	"	"	"	"	
Zinc	31.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1492	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	50.1	0.0500	mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	19.7	0.0500	"	"	"	"	"	"	
Sodium	506	0.0500	"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG4 5Ft**  
**2502337-21 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	15.3	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	73.9		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.25	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 14:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG4 6Ft**  
**2502337-22 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.73	0.200	mg/kg dry	1	BIC1324	03/21/25	04/11/25	EPA 6020B	
Barium	141	0.400	"	"	"	"	"	"	
Cadmium	0.356	0.200	"	"	"	"	"	"	
Copper	8.04	0.400	"	"	"	"	"	"	
Lead	10.8	0.200	"	"	"	"	"	"	
Nickel	6.54	0.400	"	"	"	"	"	"	
Silver	0.0555	0.0200	"	"	"	"	"	"	
Zinc	27.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1492	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	32.1	0.0500	mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	11.9	0.0500	"	"	"	"	"	"	
Sodium	365	0.0500	"	"	"	"	"	"	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
 Project Manager: Paul Henchan

**Reported:**  
 04/14/25 08:08

**BKG4 6Ft**  
**2502337-22 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	14.0	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.8		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.78	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG4 16Ft**  
**2502337-23 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.97	0.200	mg/kg dry	1	BIC1324	03/21/25	04/11/25	EPA 6020B	
Barium	86.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.02	0.400	"	"	"	"	"	"	
Lead	6.21	0.200	"	"	"	"	"	"	
Nickel	4.61	0.400	"	"	"	"	"	"	
Silver	0.0276	0.0200	"	"	"	"	"	"	
Zinc	19.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1492	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 14:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	88.5	0.0500	mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	22.6	0.0500	"	"	"	"	"	"	
Sodium	275	0.0500	"	"	"	"	"	"	

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Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG4 16Ft**  
**2502337-23 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.75	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.2		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.64	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.00		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG4 17Ft**  
**2502337-24 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 14:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 14:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>0.417</b>	0.200	mg/kg dry	1	BIC1324	03/21/25	04/11/25	EPA 6020B	
<b>Barium</b>	<b>11.3</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>1.39</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>1.72</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>1.29</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>8.36</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 14:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1492	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 14:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>61.8</b>	0.0500	mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
<b>Magnesium</b>	<b>25.8</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>212</b>	0.0500	"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG4 17Ft**  
**2502337-24 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.72	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.3		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.36	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 14:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.90		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG5 1Ft**  
**2502337-25 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 15:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 15:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.66	0.200	mg/kg dry	1	BIC1324	03/21/25	04/11/25	EPA 6020B	
Barium	150	0.400	"	"	"	"	"	"	
Cadmium	0.453	0.200	"	"	"	"	"	"	
Copper	9.43	0.400	"	"	"	"	"	"	
Lead	14.9	0.200	"	"	"	"	"	"	
Nickel	7.63	0.400	"	"	"	"	"	"	
Silver	0.0759	0.0200	"	"	"	"	"	"	
Zinc	38.8	0.400	"	"	"	"	"	"	
Selenium	0.302	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 15:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1492	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 15:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	155	0.0500	mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	31.9	0.0500	"	"	"	"	"	"	
Sodium	159	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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Project: Noble - Millage C 64N64W  
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Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG5 1Ft**  
**2502337-25 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.04	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.3		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.39	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG5 3Ft**  
**2502337-26 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 15:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0669	03/12/25	03/25/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 15:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	5.06	0.200		mg/kg dry	1	BIC1324	03/21/25	04/11/25	EPA 6020B	
Barium	97.8	0.400		"	"	"	"	"	"	
Cadmium	0.375	0.200		"	"	"	"	"	"	
Copper	8.78	0.400		"	"	"	"	"	"	
Lead	12.6	0.200		"	"	"	"	"	"	
Nickel	7.05	0.400		"	"	"	"	"	"	
Silver	0.0649	0.0200		"	"	"	"	"	"	
Zinc	31.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 15:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIB1492	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 15:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	357	0.0500		mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	80.7	0.0500		"	"	"	"	"	"	
Sodium	269	0.0500		"	"	"	"	"	"	

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Project Number: UWRWE-A1780-ENV CO22-149  
 Project Manager: Paul Henchan

**Reported:**  
 04/14/25 08:08

**BKG5 3Ft**  
**2502337-26 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.35	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.3		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.39	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 15:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.58		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG5 5Ft**  
**2502337-27 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 15:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0671	03/12/25	03/26/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 15:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.32	0.200	mg/kg dry	1	BIC1324	03/21/25	04/11/25	EPA 6020B	
Barium	170	0.400	"	"	"	"	"	"	
Cadmium	0.400	0.200	"	"	"	"	"	"	
Copper	8.80	0.400	"	"	"	"	"	"	
Lead	12.6	0.200	"	"	"	"	"	"	
Nickel	7.12	0.400	"	"	"	"	"	"	
Silver	0.0726	0.0200	"	"	"	"	"	"	
Zinc	30.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 15:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1492	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 15:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	153	0.0500	mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	58.3	0.0500	"	"	"	"	"	"	
Sodium	392	0.0500	"	"	"	"	"	"	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
 Project Manager: Paul Henchan

**Reported:**  
 04/14/25 08:08

**BKG5 5Ft**  
**2502337-27 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.84	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.5		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.48	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 15:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG5 6Ft**  
**2502337-28 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 15:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BIC0671	03/12/25	03/26/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 15:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.99	0.200		mg/kg dry	1	BIC1324	03/21/25	04/11/25	EPA 6020B	
Barium	130	0.400		"	"	"	"	"	"	
Cadmium	0.231	0.200		"	"	"	"	"	"	
Copper	5.85	0.400		"	"	"	"	"	"	
Lead	8.10	0.200		"	"	"	"	"	"	
Nickel	5.95	0.400		"	"	"	"	"	"	
Silver	0.0331	0.0200		"	"	"	"	"	"	
Zinc	23.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 15:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BIB1492	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 15:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	183	0.0500		mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
Magnesium	63.5	0.0500		"	"	"	"	"	"	
Sodium	370	0.0500		"	"	"	"	"	"	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG5 6Ft**  
**2502337-28 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.01	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.0		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.80	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG5 16Ft**  
**2502337-29 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 15:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0671	03/12/25	03/26/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 15:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>0.914</b>	0.200	mg/kg dry	1	BIC1324	03/21/25	04/11/25	EPA 6020B	
<b>Barium</b>	<b>20.2</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>1.91</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>1.93</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>2.38</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>5.89</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 15:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1492	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 15:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>120</b>	0.0500	mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
<b>Magnesium</b>	<b>41.4</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>253</b>	0.0500	"	"	"	"	"	"	

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Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG5 16Ft**  
**2502337-29 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.08	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.0		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.86	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 15:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.99		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG5 17Ft**  
**2502337-30 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/18/25 15:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BIC0671	03/12/25	03/26/25	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/18/25 15:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>7.29</b>	0.200	mg/kg dry	1	BIC1324	03/21/25	04/11/25	EPA 6020B	
<b>Barium</b>	<b>33.8</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>2.23</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>1.49</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>1.34</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>6.71</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/18/25 15:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIB1492	02/26/25	02/27/25	EPA 7196A	

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

Date Sampled: **02/18/25 15:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>129</b>	0.0500	mg/L dry	1	BIC0878	03/14/25	03/29/25	EPA 6020B	
<b>Magnesium</b>	<b>46.1</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>304</b>	0.0500	"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

**BKG5 17Ft**  
**2502337-30 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **02/18/25 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.85	0.00100	units	1	BIC1828	03/30/25	03/30/25	Calculation	

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

Date Sampled: **02/18/25 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.3		%	1	BIB1367	02/24/25	02/25/25	Calculation	

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

Date Sampled: **02/18/25 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.13	0.0100	mmhos/cm	1	BIC0880	03/14/25	03/18/25	EPA 120.1	

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

Date Sampled: **02/18/25 15:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.23		pH Units	1	BIC0879	03/14/25	03/18/25	EPA 9045D	

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

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

**Summit Scientific**

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

**Batch BIC0668 - EPA 3050B**

<b>Blank (BIC0668-BLK1)</b>				Prepared: 03/12/25 Analyzed: 04/08/25							
Boron	ND	2.00	mg/L								
<b>LCS (BIC0668-BS1)</b>				Prepared: 03/12/25 Analyzed: 04/08/25							
Boron	4.87	2.00	mg/L	5.00		97.3	80-120				
<b>Duplicate (BIC0668-DUP1)</b>				Source: 2502336-09 Prepared: 03/12/25 Analyzed: 04/08/25							
Boron	0.0696	2.00	mg/L		0.142			68.6	20	QR-01	
<b>Matrix Spike (BIC0668-MS1)</b>				Source: 2502336-09 Prepared: 03/12/25 Analyzed: 04/08/25							
Boron	5.02	2.00	mg/L	5.00	0.142	97.5	75-125				
<b>Matrix Spike Dup (BIC0668-MSD1)</b>				Source: 2502336-09 Prepared: 03/12/25 Analyzed: 04/08/25							
Boron	5.04	2.00	mg/L	5.00	0.142	98.0	75-125	0.485	25		

**Batch BIC0669 - EPA 3050B**

<b>Blank (BIC0669-BLK1)</b>				Prepared: 03/12/25 Analyzed: 03/25/25							
Boron	ND	2.00	mg/L								
<b>LCS (BIC0669-BS1)</b>				Prepared: 03/12/25 Analyzed: 03/25/25							
Boron	4.75	2.00	mg/L	5.00		94.9	80-120				
<b>Duplicate (BIC0669-DUP1)</b>				Source: 2502337-07 Prepared: 03/12/25 Analyzed: 03/25/25							
Boron	0.839	2.00	mg/L		0.827			1.37	20		
<b>Matrix Spike (BIC0669-MS1)</b>				Source: 2502337-07 Prepared: 03/12/25 Analyzed: 03/25/25							
Boron	5.75	2.00	mg/L	4.99	0.827	98.7	75-125				

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
 Project Manager: Paul Henchan

**Reported:**  
 04/14/25 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 BIC0669 - EPA 3050B**

<b>Matrix Spike Dup (BIC0669-MSD1)</b>		<b>Source: 2502337-07</b>			Prepared: 03/12/25 Analyzed: 03/25/25						
Boron	5.78	2.00	mg/L	4.99	0.827	99.2	75-125	0.422	25		

**Batch BIC0671 - EPA 3050B**

<b>Blank (BIC0671-BLK1)</b>					Prepared: 03/12/25 Analyzed: 03/26/25						
Boron	ND	2.00	mg/L								

<b>LCS (BIC0671-BS1)</b>					Prepared: 03/12/25 Analyzed: 03/26/25						
Boron	4.89	2.00	mg/L	5.00		97.8	80-120				

<b>Duplicate (BIC0671-DUP1)</b>		<b>Source: 2502337-27</b>			Prepared: 03/12/25 Analyzed: 03/26/25						
Boron	0.301	2.00	mg/L		0.306			1.50	20		

<b>Matrix Spike (BIC0671-MS1)</b>		<b>Source: 2502337-27</b>			Prepared: 03/12/25 Analyzed: 03/26/25						
Boron	5.34	2.00	mg/L	5.00	0.306	101	75-125				

<b>Matrix Spike Dup (BIC0671-MSD1)</b>		<b>Source: 2502337-27</b>			Prepared: 03/12/25 Analyzed: 03/26/25						
Boron	5.42	2.00	mg/L	5.00	0.306	102	75-125	1.51	25		

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Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

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

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

**Batch BIC1279 - EPA 3050B**

**Blank (BIC1279-BLK1)**

Prepared: 03/21/25 Analyzed: 04/09/25

Arsenic	ND	0.200	mg/kg wet								
Barium	ND	0.400	"								
Cadmium	ND	0.200	"								
Copper	ND	0.400	"								
Lead	ND	0.200	"								
Nickel	ND	0.400	"								
Silver	ND	0.0200	"								
Zinc	ND	0.400	"								
Selenium	ND	0.260	"								

**LCS (BIC1279-BS1)**

Prepared: 03/21/25 Analyzed: 04/09/25

Arsenic	34.4	0.200	mg/kg wet	41.7	82.6	80-120					
Barium	36.4	0.400	"	41.7	87.5	80-120					
Cadmium	1.74	0.200	"	2.08	83.6	80-120					
Copper	36.3	0.400	"	41.7	87.2	80-120					
Lead	17.4	0.200	"	20.8	83.3	80-120					
Nickel	35.9	0.400	"	41.7	86.2	80-120					
Silver	1.74	0.0200	"	2.08	83.4	80-120					
Zinc	36.0	0.400	"	41.7	86.3	80-120					
Selenium	3.57	0.260	"	4.17	85.7	80-120					

**Duplicate (BIC1279-DUP1)**

Source: 2502336-14

Prepared: 03/21/25 Analyzed: 04/09/25

Arsenic	4.83	0.200	mg/kg dry	3.77	24.6	20				QR-04
Barium	106	0.400	"	84.4	22.2	20				QR-04
Cadmium	0.294	0.200	"	0.231	24.0	20				QR-04
Copper	5.84	0.400	"	4.85	18.5	20				
Lead	8.93	0.200	"	7.18	21.8	20				QR-04
Nickel	7.57	0.400	"	6.27	18.9	20				
Silver	0.0448	0.0200	"	0.0370	19.0	20				
Zinc	24.6	0.400	"	20.2	19.4	20				
Selenium	0.179	0.260	"	ND	200	20				QR-01

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 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 BIC1279 - EPA 3050B**

<b>Matrix Spike (BIC1279-MS1)</b>		<b>Source: 2502336-14</b>			Prepared: 03/21/25		Analyzed: 04/09/25	
Arsenic	41.3	0.200	mg/kg dry	45.7	3.77	82.2	75-125	
Barium	146	0.400	"	45.7	84.4	136	75-125	QM-05
Cadmium	2.13	0.200	"	2.28	0.231	83.3	75-125	
Copper	28.0	0.400	"	45.7	4.85	50.6	75-125	QM-05
Lead	27.1	0.200	"	22.8	7.18	87.3	75-125	
Nickel	29.8	0.400	"	45.7	6.27	51.4	75-125	QM-05
Silver	1.88	0.0200	"	2.28	0.0370	80.5	75-125	
Zinc	45.9	0.400	"	45.7	20.2	56.2	75-125	QM-05
Selenium	3.35	0.260	"	4.57	ND	73.2	75-125	QM-05

<b>Matrix Spike Dup (BIC1279-MSD1)</b>		<b>Source: 2502336-14</b>			Prepared: 03/21/25		Analyzed: 04/09/25	
Arsenic	43.6	0.200	mg/kg dry	47.6	3.77	83.6	75-125	5.24 25
Barium	143	0.400	"	47.6	84.4	123	75-125	2.35 25
Cadmium	2.28	0.200	"	2.38	0.231	86.2	75-125	6.59 25
Copper	29.8	0.400	"	47.6	4.85	52.5	75-125	6.38 25 QM-05
Lead	28.4	0.200	"	23.8	7.18	89.2	75-125	4.61 25
Nickel	31.7	0.400	"	47.6	6.27	53.4	75-125	6.10 25 QM-05
Silver	1.99	0.0200	"	2.38	0.0370	82.1	75-125	5.90 25
Zinc	48.8	0.400	"	47.6	20.2	60.0	75-125	6.04 25 QM-05
Selenium	3.55	0.260	"	4.76	ND	74.5	75-125	5.82 25 QM-05

**Batch BIC1323 - EPA 3050B**

<b>Blank (BIC1323-BLK1)</b>					Prepared: 03/21/25		Analyzed: 04/04/25	
Arsenic	ND	0.200	mg/kg wet					
Barium	ND	0.400	"					
Cadmium	ND	0.200	"					
Copper	ND	0.400	"					
Lead	ND	0.200	"					
Nickel	ND	0.400	"					
Silver	ND	0.0200	"					
Zinc	ND	0.400	"					
Selenium	ND	0.260	"					

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 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 BIC1323 - EPA 3050B**

**LCS (BIC1323-BS1)**

Prepared: 03/21/25 Analyzed: 04/04/25

Arsenic	42.8	0.200	mg/kg wet	41.3		104	80-120			
Barium	43.7	0.400	"	41.3		106	80-120			
Cadmium	2.08	0.200	"	2.07		101	80-120			
Copper	44.6	0.400	"	41.3		108	80-120			
Lead	21.1	0.200	"	20.7		102	80-120			
Nickel	44.0	0.400	"	41.3		106	80-120			
Silver	2.11	0.0200	"	2.07		102	80-120			
Zinc	43.9	0.400	"	41.3		106	80-120			
Selenium	4.40	0.260	"	4.13		107	80-120			

**Duplicate (BIC1323-DUP1)**

Source: 2502337-02

Prepared: 03/21/25 Analyzed: 04/04/25

Arsenic	5.48	0.200	mg/kg dry		5.44			0.744	20	
Barium	148	0.400	"		158			6.55	20	
Cadmium	0.441	0.200	"		0.455			2.94	20	
Copper	8.40	0.400	"		8.37			0.439	20	
Lead	13.8	0.200	"		14.3			3.14	20	
Nickel	7.21	0.400	"		7.46			3.32	20	
Silver	0.0759	0.0200	"		0.0727			4.27	20	
Zinc	28.0	0.400	"		27.6			1.59	20	
Selenium	0.178	0.260	"		0.183			2.91	20	

**Matrix Spike (BIC1323-MS1)**

Source: 2502337-02

Prepared: 03/21/25 Analyzed: 04/04/25

Arsenic	54.3	0.200	mg/kg dry	48.8	5.44	100	75-125			
Barium	202	0.400	"	48.8	158	89.7	75-125			
Cadmium	2.90	0.200	"	2.44	0.455	100	75-125			
Copper	28.6	0.400	"	48.8	8.37	41.4	75-125			QM-05
Lead	38.6	0.200	"	24.4	14.3	99.8	75-125			
Nickel	28.0	0.400	"	48.8	7.46	42.1	75-125			QM-05
Silver	2.51	0.0200	"	2.44	0.0727	99.7	75-125			
Zinc	51.3	0.400	"	48.8	27.6	48.7	75-125			QM-05
Selenium	3.71	0.260	"	4.88	0.183	72.2	75-125			QM-05

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 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 BIC1323 - EPA 3050B**

**Matrix Spike Dup (BIC1323-MSD1)**

Source: 2502337-02

Prepared: 03/21/25 Analyzed: 04/04/25

Analyte	Result	Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Notes
Arsenic	52.6	0.200	mg/kg dry	48.8	5.44	96.7	75-125	3.05	25	
Barium	191	0.400	"	48.8	158	66.5	75-125	5.77	25	QM-05
Cadmium	2.87	0.200	"	2.44	0.455	98.9	75-125	1.22	25	
Copper	28.4	0.400	"	48.8	8.37	41.0	75-125	0.703	25	QM-05
Lead	38.3	0.200	"	24.4	14.3	98.5	75-125	0.807	25	
Nickel	27.7	0.400	"	48.8	7.46	41.4	75-125	1.24	25	QM-05
Silver	2.47	0.0200	"	2.44	0.0727	98.4	75-125	1.35	25	
Zinc	51.0	0.400	"	48.8	27.6	48.0	75-125	0.651	25	QM-05
Selenium	3.69	0.260	"	4.88	0.183	71.8	75-125	0.568	25	QM-05

**Batch BIC1324 - EPA 3050B**

**Blank (BIC1324-BLK1)**

Prepared: 03/21/25 Analyzed: 04/11/25

Analyte	Result	Limit	Units
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 (BIC1324-BS1)**

Prepared: 03/21/25 Analyzed: 04/11/25

Analyte	Result	Limit	Units	Spike Level	%REC	Limits
Arsenic	37.5	0.200	mg/kg wet	41.3	90.8	80-120
Barium	39.5	0.400	"	41.3	95.5	80-120
Cadmium	1.99	0.200	"	2.07	96.1	80-120
Copper	45.5	0.400	"	41.3	110	80-120
Lead	20.2	0.200	"	20.7	97.8	80-120
Nickel	44.7	0.400	"	41.3	108	80-120
Silver	2.01	0.0200	"	2.07	97.5	80-120
Zinc	45.5	0.400	"	41.3	110	80-120
Selenium	4.20	0.260	"	4.13	102	80-120

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 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 BIC1324 - EPA 3050B**

**Duplicate (BIC1324-DUP1)**

Source: 2502337-21

Prepared: 03/21/25 Analyzed: 04/11/25

Arsenic	4.15	0.200	mg/kg dry	4.50			8.23	20	
Barium	171	0.400	"	212			21.5	20	QR-04
Cadmium	0.387	0.200	"	0.431			10.8	20	
Copper	8.74	0.400	"	9.18			5.00	20	
Lead	12.0	0.200	"	13.3			10.3	20	
Nickel	7.38	0.400	"	7.60			3.00	20	
Silver	0.0572	0.0200	"	0.0754			27.5	20	QR-04
Zinc	30.9	0.400	"	31.9			3.02	20	
Selenium	ND	0.260	"	0.184			200	20	QR-01

**Matrix Spike (BIC1324-MS1)**

Source: 2502337-21

Prepared: 03/21/25 Analyzed: 04/11/25

Arsenic	54.0	0.200	mg/kg dry	54.6	4.50	90.7	75-125		
Barium	204	0.400	"	54.6	212	NR	75-125		QM-05
Cadmium	3.35	0.200	"	2.73	0.431	107	75-125		
Copper	38.1	0.400	"	54.6	9.18	52.9	75-125		QM-05
Lead	40.5	0.200	"	27.3	13.3	99.7	75-125		
Nickel	36.9	0.400	"	54.6	7.60	53.7	75-125		QM-05
Silver	2.98	0.0200	"	2.73	0.0754	107	75-125		
Zinc	61.6	0.400	"	54.6	31.9	54.4	75-125		QM-05
Selenium	5.64	0.260	"	5.46	0.184	99.9	75-125		

**Matrix Spike Dup (BIC1324-MSD1)**

Source: 2502337-21

Prepared: 03/21/25 Analyzed: 04/11/25

Arsenic	52.9	0.200	mg/kg dry	55.0	4.50	87.9	75-125	2.14	25
Barium	224	0.400	"	55.0	212	22.6	75-125	9.43	25
Cadmium	3.16	0.200	"	2.75	0.431	99.0	75-125	5.98	25
Copper	37.3	0.400	"	55.0	9.18	51.0	75-125	2.17	25
Lead	39.4	0.200	"	27.5	13.3	94.9	75-125	2.72	25
Nickel	36.2	0.400	"	55.0	7.60	52.1	75-125	1.88	25
Silver	2.78	0.0200	"	2.75	0.0754	98.5	75-125	6.92	25
Zinc	61.3	0.400	"	55.0	31.9	53.5	75-125	0.461	25
Selenium	6.58	0.260	"	5.50	0.184	116	75-125	15.5	25

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W  
Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 08:08

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

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

**Batch BIB1490 - 3060A Mod**

<b>Blank (BIB1490-BLK1)</b>										
Prepared: 02/26/25 Analyzed: 02/27/25										
Chromium, Hexavalent	ND	0.30	mg/kg wet							
<b>LCS (BIB1490-BS1)</b>										
Prepared: 02/26/25 Analyzed: 02/27/25										
Chromium, Hexavalent	24.2	0.30	mg/kg wet	25.0		97.0	80-120			
<b>Duplicate (BIB1490-DUP1)</b>										
Source: 2502337-01 Prepared: 02/26/25 Analyzed: 02/27/25										
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
<b>Matrix Spike (BIB1490-MS1)</b>										
Source: 2502337-01 Prepared: 02/26/25 Analyzed: 02/27/25										
Chromium, Hexavalent	31.0	0.30	mg/kg dry	28.9	ND	107	75-125			
<b>Matrix Spike Dup (BIB1490-MSD1)</b>										
Source: 2502337-01 Prepared: 02/26/25 Analyzed: 02/27/25										
Chromium, Hexavalent	28.1	0.30	mg/kg dry	28.6	ND	98.2	75-125	9.92	20	

**Batch BIB1492 - 3060A Mod**

<b>Blank (BIB1492-BLK1)</b>										
Prepared: 02/26/25 Analyzed: 02/27/25										
Chromium, Hexavalent	ND	0.30	mg/kg wet							
<b>LCS (BIB1492-BS1)</b>										
Prepared: 02/26/25 Analyzed: 02/27/25										
Chromium, Hexavalent	23.5	0.30	mg/kg wet	24.3		97.0	80-120			
<b>Duplicate (BIB1492-DUP1)</b>										
Source: 2502337-21 Prepared: 02/26/25 Analyzed: 02/27/25										
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
<b>Matrix Spike (BIB1492-MS1)</b>										
Source: 2502337-21 Prepared: 02/26/25 Analyzed: 02/27/25										
Chromium, Hexavalent	22.2	0.30	mg/kg dry	34.2	ND	65.0	75-125			<b>QM-05</b>

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
 Project Manager: Paul Henchan

**Reported:**  
 04/14/25 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 BIB1492 - 3060A Mod**

Matrix Spike Dup (BIB1492-MSD1)	Source: 2502337-21			Prepared: 02/26/25 Analyzed: 02/27/25		QM-05				
Chromium, Hexavalent	23.1	0.30	mg/kg dry	32.9	ND	70.4	75-125	4.02	20	

Summit Scientific

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 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
 Project Manager: Paul Henchan

**Reported:**  
 04/14/25 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 BIC0878 - General Preparation**

**Blank (BIC0878-BLK1)**

Prepared: 03/14/25 Analyzed: 03/30/25

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

**LCS (BIC0878-BS1)**

Prepared: 03/14/25 Analyzed: 03/29/25

Calcium	5.31	0.0500	mg/L wet	5.00	106	70-130				
Magnesium	5.17	0.0500	"	5.00	103	70-130				
Sodium	5.38	0.0500	"	5.00	108	70-130				

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 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
 Project Manager: Paul Henchan

**Reported:**  
 04/14/25 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 BIB1367 - General Preparation**

**Duplicate (BIB1367-DUP1)**

**Source: 2502337-01**

Prepared: 02/24/25 Analyzed: 02/25/25

% Solids	84.1		%		84.8			0.877	20	
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Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
 Project Manager: Paul Henchan

**Reported:**  
 04/14/25 08:08

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

**Summit Scientific**

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

**Batch BIC0880 - General Preparation**

**Blank (BIC0880-BLK1)**

Prepared: 03/14/25 Analyzed: 03/18/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BIC0880-BS1)**

Prepared: 03/14/25 Analyzed: 03/18/25

Specific Conductance (EC) 1.38 0.0100 mmhos/cm 1.41 97.5 95-105

**Duplicate (BIC0880-DUP1)**

Source: 2502337-01

Prepared: 03/14/25 Analyzed: 03/18/25

Specific Conductance (EC) 0.366 0.0100 mmhos/cm 0.367 0.266 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
 Project Manager: Paul Henchan

**Reported:**  
 04/14/25 08:08

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

**Summit Scientific**

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

**Batch BIC0879 - General Preparation**

**LCS (BIC0879-BS1)**

Prepared: 03/14/25 Analyzed: 03/18/25

pH	9.09	pH Units	9.18	99.0	95-105
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**Duplicate (BIC0879-DUP1)**

Source: 2502337-01

Prepared: 03/14/25 Analyzed: 03/18/25

pH	8.08	pH Units	8.06	0.254	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Millage C 64N64W

Project Number: UWRWE-A1780-ENV CO22-149  
Project Manager: Paul Henchan

**Reported:**  
04/14/25 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. Only applies to source/DUP and MS/MSD pairs.
- 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