

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 21, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Wells Ranch USX AE (Backgrounds)

Work Order #2410203

Enclosed are the results of analyses for samples received by Summit Scientific on 10/11/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01 - 0.5ft	2410203-01	Soil	10/10/24 00:00	10/11/24 16:30
BKG01 - 2ft	2410203-02	Soil	10/10/24 00:00	10/11/24 16:30
BKG01 - 3ft	2410203-03	Soil	10/10/24 00:00	10/11/24 16:30
BKG01 - 4ft	2410203-04	Soil	10/10/24 00:00	10/11/24 16:30
BKG01 - 5ft	2410203-05	Soil	10/10/24 00:00	10/11/24 16:30
BKG01 - 6ft	2410203-06	Soil	10/10/24 00:00	10/11/24 16:30
BKG02 - 0.5ft	2410203-07	Soil	10/10/24 00:00	10/11/24 16:30
BKG02 - 2ft	2410203-08	Soil	10/10/24 00:00	10/11/24 16:30
BKG02 - 3ft	2410203-09	Soil	10/10/24 00:00	10/11/24 16:30
BKG02 - 4ft	2410203-10	Soil	10/10/24 00:00	10/11/24 16:30
BKG02 - 5ft	2410203-11	Soil	10/10/24 00:00	10/11/24 16:30
BKG02 - 6ft	2410203-12	Soil	10/10/24 00:00	10/11/24 16:30
BKG03 - 0.5ft	2410203-13	Soil	10/10/24 00:00	10/11/24 16:30
BKG03 - 2ft	2410203-14	Soil	10/10/24 00:00	10/11/24 16:30
BKG03 - 3ft	2410203-15	Soil	10/10/24 00:00	10/11/24 16:30
BKG03 - 4ft	2410203-16	Soil	10/10/24 00:00	10/11/24 16:30
BKG03 - 5ft	2410203-17	Soil	10/10/24 00:00	10/11/24 16:30
BKG03 - 6ft	2410203-18	Soil	10/10/24 00:00	10/11/24 16:30
BKG04 - 0.5ft	2410203-19	Soil	10/10/24 00:00	10/11/24 16:30
BKG04 - 2ft	2410203-20	Soil	10/10/24 00:00	10/11/24 16:30
BKG04 - 3ft	2410203-21	Soil	10/10/24 00:00	10/11/24 16:30
BKG04 - 4ft	2410203-22	Soil	10/10/24 00:00	10/11/24 16:30
BKG04 - 5ft	2410203-23	Soil	10/10/24 00:00	10/11/24 16:30
BKG04 - 6ft	2410203-24	Soil	10/10/24 00:00	10/11/24 16:30
BKG05 - 0.5ft	2410203-25	Soil	10/10/24 00:00	10/11/24 16:30
BKG05 - 2ft	2410203-26	Soil	10/10/24 00:00	10/11/24 16:30
BKG05 - 3ft	2410203-27	Soil	10/10/24 00:00	10/11/24 16:30

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG05 - 4ft	2410203-28	Soil	10/10/24 00:00	10/11/24 16:30
BKG05 - 5ft	2410203-29	Soil	10/10/24 00:00	10/11/24 16:30
BKG05 - 6ft	2410203-30	Soil	10/10/24 00:00	10/11/24 16:30

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4553 Table Mountain Drive
 Golden, CO 80403
 303-277-9310

Lab ID 2410203 Page 1 of 2

Client: Fremont Environmental		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company: <u>Noble</u>	
Address:		E-Mail: Fremont Distribution List		Project Name/Location: :	
City/State/Zip:				AFE#:	
Phone: 303-261-6246		Project Name: <u>Wells Ranch USXAE (BKG)</u>		PO/Billing Codes: <u>UW RWE-44187-ABW</u>	
Sampler Name: Stanley Gilbert		Project Number:		Contact: <u>Mike Montoya</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested							Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate	HOLD	
1	BKG01-0.5Ft	10/10/24		1			X			X						X	X				
2	BKG01-2Ft																				
3	BKG01-3Ft																				
4	BKG01-4Ft																				
5	BKG01-5Ft																				
6	BKG01-6Ft																				
7	BKG02-0.5Ft																				
8	BKG02-2Ft																				
9	BKG02-3Ft																				
10	BKG02-4Ft																				
11	BKG02-5Ft																				
12	BKG02-6Ft																				
13	BKG03-0.5Ft																				
14	BKG03-2Ft																				
15	BKG03-3Ft																				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/10/24 17:30</u>	Received by: <u>Summit North</u>	Date/Time: <u>10/10/24 17:30</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>52</u>	Date/Time: <u>10/12/24 1630</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/12/24 1630</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: <u>0.1</u>	Corrected Temperature: <u>0</u>	IR gun #: <u>1</u>	HNO3 lot #:			



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 Golden, CO 80403
 303-277-9310

Lab ID 2410203 Page 2 of 2

		Send Data To:	Send Invoice To:
Client: Fremont Environmental		Project Manager: Paul Henehan	Company: <u>Noble</u>
Address:		E-Mail: Fremont Distribution List	Project Name/Location:
City/State/Zip:			AFE#:
Phone: 303-261-6246		Project Name: <u>Wells Ranch USX AE (BKG)</u>	PO/Billing Codes: <u>UWRWE-A4187-ABN</u>
Sampler Name: Stanley Gilbert		Project Number:	Contact: <u>Mike Montoya</u>

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested							Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate	HOLD
1	BKG03-4Ft	10/10/24		1			X			X						X	X			
2	BKG03-5Ft						X			X						X	X			
3	BKG03-6Ft						X			X						X	X			
4	BKG04-0.5Ft						X			X						X	X			
5	BKG04-2Ft						X			X						X	X			
6	BKG04-3Ft						X			X						X	X			
7	BKG04-4Ft						X			X						X	X			
8	BKG04-5Ft						X			X						X	X			
9	BKG04-6Ft						X			X						X	X			
10	BKG05-0.5Ft						X			X						X	X			
11	BKG05-2Ft						X			X						X	X			
12	BKG05-3Ft						X			X						X	X			
13	BKG05-4Ft						X			X						X	X			
14	BKG05-5Ft						X			X						X	X			
15	BKG05-6Ft						X			X						X	X			

Relinquished by:	Date/Time: 10/10/24 17:30	Received by: Summit North	Date/Time: 10/10/24 17:30	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time: 10/11/24 1630	Received by:	Date/Time: 10/11/24 1630	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: <u>6.1</u>	Corrected Temperature: <u>8</u>	IR gun #: <u>1</u>	HNO3 lot #: _____			

S₂

2/2

Sample Receipt Checklist

S2 Work Order# 2410203

Client: Fremont Client Project ID: Wells Ranch USAE (BKG)

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

[] [] [] [] []

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

Temp (°C) [6.1] Thermometer # [1]

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

Additional Comments (if any):

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

SU
Custodian Printed Name

10/11/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG01 - 0.5ft
2410203-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0675	10/17/24	10/18/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.788	0.200	mg/kg dry	1	BHJ0688	10/17/24	10/18/24	EPA 6020B	
Barium	54.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.13	0.400	"	"	"	"	"	"	
Lead	5.02	0.200	"	"	"	"	"	"	
Nickel	0.929	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.64	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	62.7	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/18/24	EPA 6020B	
Magnesium	6.73	0.0500	"	"	"	"	"	"	
Sodium	0.931	0.0500	"	"	"	"	"	"	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/21/24 10:18

BKG01 - 0.5ft
2410203-01 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0298	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.5		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0820	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.93		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG01 - 2ft
2410203-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHJ0675	10/17/24	10/18/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.14	0.200		mg/kg dry	1	BHJ0688	10/17/24	10/18/24	EPA 6020B	
Barium	99.6	0.400		"	"	"	"	"	"	
Cadmium	0.232	0.200		"	"	"	"	"	"	
Copper	2.09	0.400		"	"	"	"	"	"	
Lead	10.4	0.200		"	"	"	"	"	"	
Nickel	2.63	0.400		"	"	"	"	"	"	
Silver	0.0446	0.0200		"	"	"	"	"	"	
Zinc	9.41	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	40.7	0.0500		mg/L dry	1	BHJ0628	10/16/24	10/18/24	EPA 6020B	
Magnesium	8.10	0.0500		"	"	"	"	"	"	
Sodium	1.55	0.0500		"	"	"	"	"	"	

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Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG01 - 2ft
2410203-02 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0581	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.1		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0390	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.64		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Project Number: UWRWE-A4187-ABN
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Reported:
10/21/24 10:18

BKG01 - 3ft
2410203-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHJ0675	10/17/24	10/18/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	0.901	0.200		mg/kg dry	1	BHJ0688	10/17/24	10/18/24	EPA 6020B	
Barium	76.8	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	1.64	0.400		"	"	"	"	"	"	
Lead	5.96	0.200		"	"	"	"	"	"	
Nickel	1.85	0.400		"	"	"	"	"	"	
Silver	0.0263	0.0200		"	"	"	"	"	"	
Zinc	6.42	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	122	0.0500		mg/L dry	1	BHJ0628	10/16/24	10/18/24	EPA 6020B	
Magnesium	7.16	0.0500		"	"	"	"	"	"	
Sodium	2.17	0.0500		"	"	"	"	"	"	

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Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG01 - 3ft
2410203-03 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0517	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.0		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.123	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.66		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG01 - 4ft
2410203-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0675	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.804	0.200	mg/kg dry	1	BHJ0688	10/17/24	10/18/24	EPA 6020B	
Barium	43.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.35	0.400	"	"	"	"	"	"	
Lead	4.84	0.200	"	"	"	"	"	"	
Nickel	1.53	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	5.90	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	135	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/18/24	EPA 6020B	
Magnesium	9.36	0.0500	"	"	"	"	"	"	
Sodium	1.97	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG01 - 4ft
2410203-04 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0442	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.7		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.112	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.78		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG01 - 5ft
2410203-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0675	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.997	0.200	mg/kg dry	1	BHJ0688	10/17/24	10/18/24	EPA 6020B	
Barium	31.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.09	0.400	"	"	"	"	"	"	
Lead	4.11	0.200	"	"	"	"	"	"	
Nickel	1.35	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	5.01	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	54.4	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/18/24	EPA 6020B	
Magnesium	6.72	0.0500	"	"	"	"	"	"	
Sodium	1.91	0.0500	"	"	"	"	"	"	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/21/24 10:18

BKG01 - 5ft
2410203-05 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0650	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.3		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.107	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.91		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG01 - 6ft
2410203-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0675	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.921	0.200	mg/kg dry	1	BHJ0688	10/17/24	10/18/24	EPA 6020B	
Barium	40.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.27	0.400	"	"	"	"	"	"	
Lead	4.82	0.200	"	"	"	"	"	"	
Nickel	1.28	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	5.31	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	73.1	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/18/24	EPA 6020B	
Magnesium	10.4	0.0500	"	"	"	"	"	"	
Sodium	2.59	0.0500	"	"	"	"	"	"	

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Fremont Environmental
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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG01 - 6ft
2410203-06 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0751	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.3		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.106	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.98		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG02 - 0.5ft
2410203-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0675	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.704	0.200	mg/kg dry	1	BHJ0688	10/17/24	10/18/24	EPA 6020B	
Barium	57.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.19	0.400	"	"	"	"	"	"	
Lead	3.72	0.200	"	"	"	"	"	"	
Nickel	1.01	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	5.32	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	64.8	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/18/24	EPA 6020B	
Magnesium	18.1	0.0500	"	"	"	"	"	"	
Sodium	2.03	0.0500	"	"	"	"	"	"	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG02 - 0.5ft
2410203-07 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0575	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	99.5		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.389	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.17		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG02 - 2ft
2410203-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHJ0675	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.22	0.200		mg/kg dry	1	BHJ0688	10/17/24	10/18/24	EPA 6020B	
Barium	97.6	0.400		"	"	"	"	"	"	
Cadmium	0.206	0.200		"	"	"	"	"	"	
Copper	1.92	0.400		"	"	"	"	"	"	
Lead	8.86	0.200		"	"	"	"	"	"	
Nickel	2.42	0.400		"	"	"	"	"	"	
Silver	0.0486	0.0200		"	"	"	"	"	"	
Zinc	8.82	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	148	0.0500		mg/L dry	1	BHJ0628	10/16/24	10/18/24	EPA 6020B	
Magnesium	32.3	0.0500		"	"	"	"	"	"	
Sodium	2.35	0.0500		"	"	"	"	"	"	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG02 - 2ft
2410203-08 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0456	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.7		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0551	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.61		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG02 - 3ft
2410203-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0675	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.902	0.200	mg/kg dry	1	BHJ0688	10/17/24	10/18/24	EPA 6020B	
Barium	68.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.52	0.400	"	"	"	"	"	"	
Lead	6.25	0.200	"	"	"	"	"	"	
Nickel	1.84	0.400	"	"	"	"	"	"	
Silver	0.0220	0.0200	"	"	"	"	"	"	
Zinc	6.69	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	93.9	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/18/24	EPA 6020B	
Magnesium	6.38	0.0500	"	"	"	"	"	"	
Sodium	1.85	0.0500	"	"	"	"	"	"	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG02 - 3ft
2410203-09 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0499	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.8		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.112	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.70		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG02 - 4ft
2410203-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0675	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.848	0.200	mg/kg dry	1	BHJ0688	10/17/24	10/18/24	EPA 6020B	
Barium	37.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.15	0.400	"	"	"	"	"	"	
Lead	4.41	0.200	"	"	"	"	"	"	
Nickel	1.25	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	5.21	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	151	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/18/24	EPA 6020B	
Magnesium	11.4	0.0500	"	"	"	"	"	"	
Sodium	1.71	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/21/24 10:18

BKG02 - 4ft
2410203-10 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0361	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.7		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.109	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.79		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG02 - 5ft
2410203-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0675	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.950	0.200	mg/kg dry	1	BHJ0688	10/17/24	10/18/24	EPA 6020B	
Barium	47.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.38	0.400	"	"	"	"	"	"	
Lead	4.45	0.200	"	"	"	"	"	"	
Nickel	1.60	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	5.58	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	90.1	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	9.12	0.0500	"	"	"	"	"	"	
Sodium	1.99	0.0500	"	"	"	"	"	"	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG02 - 5ft
2410203-11 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0534	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.6		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.105	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.87		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG02 - 6ft
2410203-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0675	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.811	0.200	mg/kg dry	1	BHJ0688	10/17/24	10/18/24	EPA 6020B	
Barium	61.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.13	0.400	"	"	"	"	"	"	
Lead	4.26	0.200	"	"	"	"	"	"	
Nickel	1.21	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.67	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	54.7	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	9.47	0.0500	"	"	"	"	"	"	
Sodium	2.88	0.0500	"	"	"	"	"	"	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG02 - 6ft
2410203-12 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0946	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.9		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.156	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.60		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG03 - 0.5ft
2410203-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0675	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.52	0.200	mg/kg dry	1	BHJ0688	10/17/24	10/18/24	EPA 6020B	
Barium	44.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.02	0.400	"	"	"	"	"	"	
Lead	3.22	0.200	"	"	"	"	"	"	
Nickel	1.54	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.51	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	72.6	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	19.7	0.0500	"	"	"	"	"	"	
Sodium	27.9	0.0500	"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG03 - 0.5ft
2410203-13 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.749	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.4		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.683	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.37		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG03 - 2ft
2410203-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHJ0677	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	0.769	0.200		mg/kg dry	1	BHJ0688	10/17/24	10/18/24	EPA 6020B	
Barium	76.8	0.400		"	"	"	"	"	"	
Cadmium	0.277	0.200		"	"	"	"	"	"	
Copper	3.27	0.400		"	"	"	"	"	"	
Lead	16.2	0.200		"	"	"	"	"	"	
Nickel	2.68	0.400		"	"	"	"	"	"	
Silver	0.0892	0.0200		"	"	"	"	"	"	
Zinc	10.8	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	49.9	0.0500		mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	11.9	0.0500		"	"	"	"	"	"	
Sodium	6.71	0.0500		"	"	"	"	"	"	

Summit Scientific

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG03 - 2ft
2410203-14 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.222	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	75.4		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.246	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.17		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

Summit Scientific

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG03 - 3ft
2410203-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHJ0677	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	0.941	0.200		mg/kg dry	1	BHJ0688	10/17/24	10/18/24	EPA 6020B	
Barium	59.4	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	1.51	0.400		"	"	"	"	"	"	
Lead	4.82	0.200		"	"	"	"	"	"	
Nickel	1.66	0.400		"	"	"	"	"	"	
Silver	0.0212	0.0200		"	"	"	"	"	"	
Zinc	6.72	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	210	0.0500		mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	30.2	0.0500		"	"	"	"	"	"	
Sodium	5.63	0.0500		"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG03 - 3ft
2410203-15 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0962	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.9		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.188	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.33		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG03 - 4ft
2410203-16 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0677	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.10	0.200	mg/kg dry	1	BHJ0688	10/17/24	10/18/24	EPA 6020B	
Barium	46.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.24	0.400	"	"	"	"	"	"	
Lead	5.49	0.200	"	"	"	"	"	"	
Nickel	1.50	0.400	"	"	"	"	"	"	
Silver	0.0274	0.0200	"	"	"	"	"	"	
Zinc	5.69	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	216	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	22.9	0.0500	"	"	"	"	"	"	
Sodium	20.8	0.0500	"	"	"	"	"	"	

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG03 - 4ft
2410203-16 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.360	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.7		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.217	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.93		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG03 - 5ft
2410203-17 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0677	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.04	0.200	mg/kg dry	1	BHJ0688	10/17/24	10/18/24	EPA 6020B	
Barium	53.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.27	0.400	"	"	"	"	"	"	
Lead	5.13	0.200	"	"	"	"	"	"	
Nickel	1.50	0.400	"	"	"	"	"	"	
Silver	0.0275	0.0200	"	"	"	"	"	"	
Zinc	5.47	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	246	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	26.1	0.0500	"	"	"	"	"	"	
Sodium	21.6	0.0500	"	"	"	"	"	"	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/21/24 10:18

BKG03 - 5ft
2410203-17 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.350	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.9		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.213	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.94		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG03 - 6ft
2410203-18 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0677	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.907	0.200	mg/kg dry	1	BHJ0688	10/17/24	10/18/24	EPA 6020B	
Barium	47.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.41	0.400	"	"	"	"	"	"	
Lead	5.15	0.200	"	"	"	"	"	"	
Nickel	1.39	0.400	"	"	"	"	"	"	
Silver	0.0214	0.0200	"	"	"	"	"	"	
Zinc	6.32	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	86.2	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	13.1	0.0500	"	"	"	"	"	"	
Sodium	22.8	0.0500	"	"	"	"	"	"	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/21/24 10:18

BKG03 - 6ft
2410203-18 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.605	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.7		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.442	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.84		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG04 - 0.5ft
2410203-19 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0677	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	0.701	0.200	mg/kg dry	1	BHJ0688	10/17/24	10/18/24	EPA 6020B	
Barium	32.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.18	0.400	"	"	"	"	"	"	
Lead	3.61	0.200	"	"	"	"	"	"	
Nickel	1.34	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	5.23	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	75.9	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	12.1	0.0500	"	"	"	"	"	"	
Sodium	0.772	0.0500	"	"	"	"	"	"	

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Project: Noble - Wells Ranch USX AE (Backgrounds)
 Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/21/24 10:18

BKG04 - 0.5ft
2410203-19 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0217	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.0		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0428	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.87		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG04 - 2ft
2410203-20 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0677	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.81	0.200	mg/kg dry	1	BHJ0689	10/17/24	10/18/24	EPA 6020B	
Barium	29.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.63	0.400	"	"	"	"	"	"	
Lead	3.85	0.200	"	"	"	"	"	"	
Nickel	3.25	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0625	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	60.5	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	10.2	0.0500	"	"	"	"	"	"	
Sodium	1.06	0.0500	"	"	"	"	"	"	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/21/24 10:18

BKG04 - 2ft
2410203-20 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0332	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.1		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0295	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.07		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG04 - 3ft
2410203-21 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHJ0677	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.88	0.200		mg/kg dry	1	BHJ0689	10/17/24	10/18/24	EPA 6020B	
Barium	60.1	0.400		"	"	"	"	"	"	
Cadmium	0.248	0.200		"	"	"	"	"	"	
Copper	3.82	0.400		"	"	"	"	"	"	
Lead	7.75	0.200		"	"	"	"	"	"	
Nickel	6.07	0.400		"	"	"	"	"	"	
Silver	0.0213	0.0200		"	"	"	"	"	"	
Zinc	22.1	0.400		"	"	"	"	"	"	
Selenium	0.281	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHJ0626	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	203	0.0500		mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	11.9	0.0500		"	"	"	"	"	"	
Sodium	3.23	0.0500		"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/21/24 10:18

BKG04 - 3ft
2410203-21 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0596	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.6		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.140	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG04 - 4ft
2410203-22 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0677	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.97	0.200	mg/kg dry	1	BHJ0689	10/17/24	10/18/24	EPA 6020B	
Barium	56.2	0.400	"	"	"	"	"	"	
Cadmium	0.200	0.200	"	"	"	"	"	"	
Copper	3.11	0.400	"	"	"	"	"	"	
Lead	6.05	0.200	"	"	"	"	"	"	
Nickel	5.16	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	20.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0626	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	211	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	6.00	0.0500	"	"	"	"	"	"	
Sodium	3.26	0.0500	"	"	"	"	"	"	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG04 - 4ft
2410203-22 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0604	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.3		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.146	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.46		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG04 - 5ft
2410203-23 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0677	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.55	0.200	mg/kg dry	1	BHJ0689	10/17/24	10/18/24	EPA 6020B	
Barium	61.3	0.400	"	"	"	"	"	"	
Cadmium	0.226	0.200	"	"	"	"	"	"	
Copper	3.14	0.400	"	"	"	"	"	"	
Lead	5.91	0.200	"	"	"	"	"	"	
Nickel	5.25	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	19.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0626	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	103	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	4.65	0.0500	"	"	"	"	"	"	
Sodium	3.36	0.0500	"	"	"	"	"	"	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/21/24 10:18

BKG04 - 5ft
2410203-23 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0880	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.7		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.203	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.39		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG04 - 6ft
2410203-24 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHJ0677	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.89	0.200		mg/kg dry	1	BHJ0689	10/17/24	10/18/24	EPA 6020B	
Barium	96.6	0.400		"	"	"	"	"	"	
Cadmium	0.407	0.200		"	"	"	"	"	"	
Copper	3.05	0.400		"	"	"	"	"	"	
Lead	6.49	0.200		"	"	"	"	"	"	
Nickel	7.79	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	21.8	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHJ0626	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	169	0.0500		mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	5.75	0.0500		"	"	"	"	"	"	
Sodium	2.22	0.0500		"	"	"	"	"	"	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG04 - 6ft
2410203-24 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0458	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.5		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.133	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.63		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG05 - 0.5ft
2410203-25 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0677	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.66	0.200	mg/kg dry	1	BHJ0689	10/17/24	10/18/24	EPA 6020B	
Barium	32.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.60	0.400	"	"	"	"	"	"	
Lead	9.19	0.200	"	"	"	"	"	"	
Nickel	2.59	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0626	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	119	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	19.5	0.0500	"	"	"	"	"	"	
Sodium	1.35	0.0500	"	"	"	"	"	"	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG05 - 0.5ft
2410203-25 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0302	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.8		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.180	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.89		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG05 - 2ft
2410203-26 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0677	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.81	0.200	mg/kg dry	1	BHJ0689	10/17/24	10/18/24	EPA 6020B	
Barium	31.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.60	0.400	"	"	"	"	"	"	
Lead	3.67	0.200	"	"	"	"	"	"	
Nickel	3.31	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0626	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	98.3	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	15.2	0.0500	"	"	"	"	"	"	
Sodium	1.88	0.0500	"	"	"	"	"	"	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG05 - 2ft
2410203-26 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0466	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.7		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0894	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.48		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG05 - 3ft
2410203-27 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHJ0677	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.54	0.200		mg/kg dry	1	BHJ0689	10/17/24	10/18/24	EPA 6020B	
Barium	67.3	0.400		"	"	"	"	"	"	
Cadmium	0.267	0.200		"	"	"	"	"	"	
Copper	3.87	0.400		"	"	"	"	"	"	
Lead	7.96	0.200		"	"	"	"	"	"	
Nickel	6.22	0.400		"	"	"	"	"	"	
Silver	0.0202	0.0200		"	"	"	"	"	"	
Zinc	24.0	0.400		"	"	"	"	"	"	
Selenium	0.299	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHJ0626	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	244	0.0500		mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	6.54	0.0500		"	"	"	"	"	"	
Sodium	3.38	0.0500		"	"	"	"	"	"	

Calculated Analysis

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG05 - 3ft
2410203-27 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0583	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.5		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.136	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.32		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG05 - 4ft
2410203-28 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0677	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.33	0.200	mg/kg dry	1	BHJ0689	10/17/24	10/18/24	EPA 6020B	
Barium	64.1	0.400	"	"	"	"	"	"	
Cadmium	0.225	0.200	"	"	"	"	"	"	
Copper	3.48	0.400	"	"	"	"	"	"	
Lead	7.44	0.200	"	"	"	"	"	"	
Nickel	5.46	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	22.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0626	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	216	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	5.46	0.0500	"	"	"	"	"	"	
Sodium	3.45	0.0500	"	"	"	"	"	"	

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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/21/24 10:18

BKG05 - 4ft
2410203-28 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0633	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.1		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.197	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.20		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG05 - 5ft
2410203-29 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0677	10/17/24	10/19/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.09	0.200	mg/kg dry	1	BHJ0689	10/17/24	10/18/24	EPA 6020B	
Barium	62.3	0.400	"	"	"	"	"	"	
Cadmium	0.226	0.200	"	"	"	"	"	"	
Copper	3.14	0.400	"	"	"	"	"	"	
Lead	6.30	0.200	"	"	"	"	"	"	
Nickel	5.46	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	20.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0626	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	189	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	5.63	0.0500	"	"	"	"	"	"	
Sodium	2.28	0.0500	"	"	"	"	"	"	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/21/24 10:18

BKG05 - 5ft
2410203-29 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0446	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.3		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.124	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.61		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG05 - 6ft
2410203-30 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHJ0638	10/16/24	10/18/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.19	0.200	mg/kg dry	1	BHJ0689	10/17/24	10/18/24	EPA 6020B	
Barium	54.0	0.400	"	"	"	"	"	"	
Cadmium	0.202	0.200	"	"	"	"	"	"	
Copper	3.11	0.400	"	"	"	"	"	"	
Lead	6.13	0.200	"	"	"	"	"	"	
Nickel	5.11	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	19.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0626	10/16/24	10/17/24	EPA 7196A	

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

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

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	143	0.0500	mg/L dry	1	BHJ0628	10/16/24	10/19/24	EPA 6020B	
Magnesium	5.13	0.0500	"	"	"	"	"	"	
Sodium	2.31	0.0500	"	"	"	"	"	"	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

BKG05 - 6ft
2410203-30 (Soil)

Summit Scientific

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0517	0.00100	units	1	BHJ0802	10/19/24	10/19/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.0		%	1	BHJ0573	10/15/24	10/17/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.145	0.0100	mmhos/cm	1	BHJ0630	10/16/24	10/17/24	EPA 120.1	

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BHJ0629	10/16/24	10/17/24	EPA 9045D	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/21/24 10:18

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

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

Batch BHJ0638 - EPA 3050B

Blank (BHJ0638-BLK1)											Prepared: 10/16/24 Analyzed: 10/18/24	
Boron	ND	2.00	mg/L									
LCS (BHJ0638-BS1)											Prepared: 10/16/24 Analyzed: 10/18/24	
Boron	5.15	2.00	mg/L	5.00		103	80-120					
Duplicate (BHJ0638-DUP1)											Prepared: 10/16/24 Analyzed: 10/18/24	
Source: 2410203-30												
Boron	0.0847	2.00	mg/L		0.0566			39.8	20	QR-01		
Matrix Spike (BHJ0638-MS1)											Prepared: 10/16/24 Analyzed: 10/18/24	
Source: 2410203-30												
Boron	5.21	2.00	mg/L	4.98	0.0566	103	75-125					
Matrix Spike Dup (BHJ0638-MSD1)											Prepared: 10/16/24 Analyzed: 10/18/24	
Source: 2410203-30												
Boron	5.17	2.00	mg/L	4.98	0.0566	103	75-125	0.692	25			

Batch BHJ0675 - EPA 3050B

Blank (BHJ0675-BLK1)											Prepared: 10/17/24 Analyzed: 10/18/24	
Boron	ND	2.00	mg/L									
LCS (BHJ0675-BS1)											Prepared: 10/17/24 Analyzed: 10/18/24	
Boron	5.31	2.00	mg/L	5.00		106	80-120					
Duplicate (BHJ0675-DUP1)											Prepared: 10/17/24 Analyzed: 10/18/24	
Source: 2410202-01												
Boron	0.365	2.00	mg/L		0.393			7.53	20			
Matrix Spike (BHJ0675-MS1)											Prepared: 10/17/24 Analyzed: 10/18/24	
Source: 2410202-01												
Boron	5.35	2.00	mg/L	5.02	0.393	98.7	75-125					

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/21/24 10:18

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

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

Batch BHJ0675 - EPA 3050B

Matrix Spike Dup (BHJ0675-MSD1)		Source: 2410202-01			Prepared: 10/17/24 Analyzed: 10/18/24					
Boron	5.69	2.00	mg/L	5.02	0.393	105	75-125	6.19	25	

Batch BHJ0677 - EPA 3050B

Blank (BHJ0677-BLK1)					Prepared: 10/17/24 Analyzed: 10/19/24					
Boron	ND	2.00	mg/L							

LCS (BHJ0677-BS1)					Prepared: 10/17/24 Analyzed: 10/19/24					
Boron	5.47	2.00	mg/L	5.00		109	80-120			

Duplicate (BHJ0677-DUP1)		Source: 2410203-14			Prepared: 10/17/24 Analyzed: 10/19/24					
Boron	0.415	2.00	mg/L		0.442			6.26	20	

Matrix Spike (BHJ0677-MS1)		Source: 2410203-14			Prepared: 10/17/24 Analyzed: 10/19/24					
Boron	5.63	2.00	mg/L	5.02	0.442	103	75-125			

Matrix Spike Dup (BHJ0677-MSD1)		Source: 2410203-14			Prepared: 10/17/24 Analyzed: 10/19/24					
Boron	5.69	2.00	mg/L	5.02	0.442	105	75-125	1.08	25	

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Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

Total Metals by EPA 6020B - Quality Control
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Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

Batch BHJ0688 - EPA 3050B

Blank (BHJ0688-BLK1)

Prepared: 10/17/24 Analyzed: 10/18/24

Arsenic	ND	0.200	mg/kg wet						
Barium	ND	0.400	"						
Cadmium	ND	0.200	"						
Copper	ND	0.400	"						
Lead	ND	0.200	"						
Nickel	ND	0.400	"						
Silver	ND	0.0200	"						
Zinc	ND	0.400	"						
Selenium	ND	0.260	"						

LCS (BHJ0688-BS1)

Prepared: 10/17/24 Analyzed: 10/18/24

Arsenic	39.0	0.200	mg/kg wet	37.9		103	80-120
Barium	37.6	0.400	"	37.9		99.2	80-120
Cadmium	1.91	0.200	"	1.89		101	80-120
Copper	39.8	0.400	"	37.9		105	80-120
Lead	19.0	0.200	"	18.9		100	80-120
Nickel	39.5	0.400	"	37.9		104	80-120
Silver	1.89	0.0200	"	1.89		100	80-120
Zinc	38.4	0.400	"	37.9		101	80-120
Selenium	4.17	0.260	"	3.79		110	80-120

Duplicate (BHJ0688-DUP1)

Source: 2410203-01

Prepared: 10/17/24 Analyzed: 10/18/24

Arsenic	1.02	0.200	mg/kg dry	0.788		25.8	20	QR-01
Barium	31.7	0.400	"	54.6		52.9	20	QR-04
Cadmium	0.137	0.200	"	0.0977		33.5	20	QR-01
Copper	1.33	0.400	"	1.13		16.8	20	
Lead	4.70	0.200	"	5.02		6.54	20	
Nickel	1.18	0.400	"	0.929		23.9	20	QR-01
Silver	0.0130	0.0200	"	0.0168		25.4	20	QR-01
Zinc	5.50	0.400	"	4.64		17.0	20	
Selenium	ND	0.260	"	ND			20	

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Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

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 BHJ0688 - EPA 3050B

Matrix Spike (BHJ0688-MS1)

Source: 2410203-01

Prepared: 10/17/24 Analyzed: 10/18/24

Arsenic	18.7	0.200	mg/kg dry	42.4	0.788	42.3	75-125				QM-05
Barium	67.8	0.400	"	42.4	54.6	31.2	75-125				QM-05
Cadmium	2.17	0.200	"	2.12	0.0977	97.8	75-125				
Copper	19.5	0.400	"	42.4	1.13	43.5	75-125				QM-05
Lead	23.7	0.200	"	21.2	5.02	88.3	75-125				
Nickel	19.4	0.400	"	42.4	0.929	43.7	75-125				QM-05
Silver	2.01	0.0200	"	2.12	0.0168	94.2	75-125				
Zinc	23.4	0.400	"	42.4	4.64	44.3	75-125				QM-05
Selenium	4.44	0.260	"	4.24	ND	105	75-125				

Matrix Spike Dup (BHJ0688-MSD1)

Source: 2410203-01

Prepared: 10/17/24 Analyzed: 10/18/24

Arsenic	17.8	0.200	mg/kg dry	40.7	0.788	41.8	75-125	5.11	25		QM-05
Barium	71.5	0.400	"	40.7	54.6	41.7	75-125	5.38	25		QM-05
Cadmium	2.25	0.200	"	2.03	0.0977	106	75-125	3.60	25		
Copper	18.6	0.400	"	40.7	1.13	42.9	75-125	5.04	25		QM-05
Lead	25.0	0.200	"	20.3	5.02	98.1	75-125	5.17	25		
Nickel	18.5	0.400	"	40.7	0.929	43.2	75-125	4.99	25		QM-05
Silver	2.07	0.0200	"	2.03	0.0168	101	75-125	2.87	25		
Zinc	22.3	0.400	"	40.7	4.64	43.5	75-125	4.62	25		QM-05
Selenium	4.34	0.260	"	4.07	ND	107	75-125	2.39	25		

Batch BHJ0689 - EPA 3050B

Blank (BHJ0689-BLK1)

Prepared: 10/17/24 Analyzed: 10/18/24

Arsenic	ND	0.200	mg/kg wet								
Barium	ND	0.400	"								
Cadmium	ND	0.200	"								
Copper	ND	0.400	"								
Lead	ND	0.200	"								
Nickel	ND	0.400	"								
Silver	ND	0.0200	"								
Zinc	ND	0.400	"								
Selenium	ND	0.260	"								

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

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 BHJ0689 - EPA 3050B

LCS (BHJ0689-BS1)

Prepared: 10/17/24 Analyzed: 10/18/24

Arsenic	39.9	0.200	mg/kg wet	40.3		99.0	80-120			
Barium	40.7	0.400	"	40.3		101	80-120			
Cadmium	2.01	0.200	"	2.02		99.7	80-120			
Copper	42.8	0.400	"	40.3		106	80-120			
Lead	19.7	0.200	"	20.2		97.9	80-120			
Nickel	42.2	0.400	"	40.3		105	80-120			
Silver	2.01	0.0200	"	2.02		99.9	80-120			
Zinc	42.5	0.400	"	40.3		105	80-120			
Selenium	4.40	0.260	"	4.03		109	80-120			

Duplicate (BHJ0689-DUP1)

Source: 2410199-01

Prepared: 10/17/24 Analyzed: 10/18/24

Arsenic	2.01	0.200	mg/kg dry		2.24			10.8	20	
Barium	52.1	0.400	"		53.9			3.44	20	
Cadmium	0.174	0.200	"		0.176			0.887	20	
Copper	3.91	0.400	"		3.99			1.98	20	
Lead	8.32	0.200	"		7.75			7.09	20	
Nickel	3.74	0.400	"		3.79			1.36	20	
Silver	0.0281	0.0200	"		0.0305			8.47	20	
Zinc	15.8	0.400	"		15.9			0.712	20	
Selenium	ND	0.260	"		ND				20	

Matrix Spike (BHJ0689-MS1)

Source: 2410199-01

Prepared: 10/17/24 Analyzed: 10/18/24

Arsenic	45.1	0.200	mg/kg dry	45.3	2.24	94.6	75-125			
Barium	94.8	0.400	"	45.3	53.9	90.4	75-125			
Cadmium	2.35	0.200	"	2.26	0.176	95.9	75-125			
Copper	33.5	0.400	"	45.3	3.99	65.2	75-125			QM-05
Lead	28.0	0.200	"	22.6	7.75	89.2	75-125			
Nickel	33.5	0.400	"	45.3	3.79	65.5	75-125			QM-05
Silver	2.19	0.0200	"	2.26	0.0305	95.4	75-125			
Zinc	46.1	0.400	"	45.3	15.9	66.7	75-125			QM-05
Selenium	4.77	0.260	"	4.53	ND	105	75-125			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/21/24 10:18

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 BHJ0689 - EPA 3050B

Matrix Spike Dup (BHJ0689-MSD1)	Source: 2410199-01			Prepared: 10/17/24		Analyzed: 10/18/24				
Arsenic	43.8	0.200	mg/kg dry	44.2	2.24	94.0	75-125	2.88	25	
Barium	96.3	0.400	"	44.2	53.9	95.9	75-125	1.53	25	
Cadmium	2.37	0.200	"	2.21	0.176	99.5	75-125	1.15	25	
Copper	32.5	0.400	"	44.2	3.99	64.5	75-125	2.99	25	QM-05
Lead	28.2	0.200	"	22.1	7.75	92.7	75-125	1.02	25	
Nickel	32.4	0.400	"	44.2	3.79	64.7	75-125	3.28	25	QM-05
Silver	2.16	0.0200	"	2.21	0.0305	96.6	75-125	1.13	25	
Zinc	45.6	0.400	"	44.2	15.9	67.1	75-125	1.17	25	QM-05
Selenium	4.74	0.260	"	4.42	ND	107	75-125	0.774	25	

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHJ0625 - 3060A Mod

Blank (BHJ0625-BLK1)											
Prepared: 10/16/24 Analyzed: 10/17/24											
Chromium, Hexavalent	ND	0.30	mg/kg wet								
LCS (BHJ0625-BS1)											
Prepared: 10/16/24 Analyzed: 10/17/24											
Chromium, Hexavalent	27.2	0.30	mg/kg wet	25.0		109	80-120				
Duplicate (BHJ0625-DUP1)											
Source: 2410203-01 Prepared: 10/16/24 Analyzed: 10/17/24											
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
Matrix Spike (BHJ0625-MS1)											
Source: 2410203-01 Prepared: 10/16/24 Analyzed: 10/17/24											
Chromium, Hexavalent	27.2	0.30	mg/kg dry	25.6	ND	106	75-125				
Matrix Spike Dup (BHJ0625-MSD1)											
Source: 2410203-01 Prepared: 10/16/24 Analyzed: 10/17/24											
Chromium, Hexavalent	27.6	0.30	mg/kg dry	25.6	ND	108	75-125	1.50		20	

Batch BHJ0626 - 3060A Mod

Blank (BHJ0626-BLK1)											
Prepared: 10/16/24 Analyzed: 10/17/24											
Chromium, Hexavalent	ND	0.30	mg/kg wet								
LCS (BHJ0626-BS1)											
Prepared: 10/16/24 Analyzed: 10/17/24											
Chromium, Hexavalent	27.0	0.30	mg/kg wet	25.0		108	80-120				
Duplicate (BHJ0626-DUP1)											
Source: 2410203-21 Prepared: 10/16/24 Analyzed: 10/17/24											
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
Matrix Spike (BHJ0626-MS1)											
Source: 2410203-21 Prepared: 10/16/24 Analyzed: 10/17/24											
Chromium, Hexavalent	28.2	0.30	mg/kg dry	26.4	ND	107	75-125				

Summit Scientific

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/21/24 10:18

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 BHJ0626 - 3060A Mod

Matrix Spike Dup (BHJ0626-MSD1)

Source: 2410203-21

Prepared: 10/16/24 Analyzed: 10/17/24

Chromium, Hexavalent	27.7	0.30	mg/kg dry	26.4	ND	105	75-125	1.89	20	
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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/21/24 10:18

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 BHJ0628 - General Preparation

Blank (BHJ0628-BLK1)

Prepared: 10/16/24 Analyzed: 10/18/24

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

LCS (BHJ0628-BS1)

Prepared: 10/16/24 Analyzed: 10/18/24

Calcium	5.83	0.0500	mg/L wet	5.00		117	70-130			
Magnesium	5.38	0.0500	"	5.00		108	70-130			
Sodium	5.24	0.0500	"	5.00		105	70-130			

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/21/24 10:18

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 BHJ0573 - General Preparation

Duplicate (BHJ0573-DUP1)	Source: 2410203-01	Prepared: 10/15/24	Analyzed: 10/17/24		
% Solids	95.6	%	97.5	1.95	20

Summit Scientific

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/21/24 10:18

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

Summit Scientific

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

Batch BHJ0630 - General Preparation

Blank (BHJ0630-BLK1)

Prepared: 10/16/24 Analyzed: 10/17/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHJ0630-BS1)

Prepared: 10/16/24 Analyzed: 10/17/24

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BHJ0630-DUP1)

Source: 2410203-01

Prepared: 10/16/24 Analyzed: 10/17/24

Specific Conductance (EC) 0.0822 0.0100 mmhos/cm 0.0820 0.183 20

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Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
 Project Manager: Paul Henchan

Reported:
 10/21/24 10:18

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 BHJ0629 - General Preparation

LCS (BHJ0629-BS1)

Prepared: 10/16/24 Analyzed: 10/17/24

pH	9.16	pH Units	9.18	99.8	95-105
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Duplicate (BHJ0629-DUP1)

Source: 2410203-01

Prepared: 10/16/24 Analyzed: 10/17/24

pH	7.80	pH Units	7.93	1.65	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Wells Ranch USX AE (Backgrounds)

Project Number: UWRWE-A4187-ABN
Project Manager: Paul Henchan

Reported:
10/21/24 10:18

Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference