

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 21, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Fanny B 01 Tank

Work Order #2410610

Enclosed are the results of analyses for samples received by Summit Scientific on 10/31/24 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 - Fanny B 01 Tank
Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
11/21/24 13:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST 0.5 Ft(2)	2410610-01	Soil	10/31/24 00:00	10/31/24 16:30
BKG 1 0.5Ft	2410610-02	Soil	10/31/24 00:00	10/31/24 16:30
BKG 1 4Ft	2410610-03	Soil	10/31/24 00:00	10/31/24 16:30
BKG 2 0.5Ft	2410610-04	Soil	10/31/24 00:00	10/31/24 16:30
BKG 2 4Ft	2410610-05	Soil	10/31/24 00:00	10/31/24 16:30
BKG 3 0.5Ft	2410610-06	Soil	10/31/24 00:00	10/31/24 16:30
BKG 3 4Ft	2410610-07	Soil	10/31/24 00:00	10/31/24 16:30
BKG 4 0.5Ft	2410610-08	Soil	10/31/24 00:00	10/31/24 16:30
BKG 4 4Ft	2410610-09	Soil	10/31/24 00:00	10/31/24 16:30
BKG 5 0.5Ft	2410610-10	Soil	10/31/24 00:00	10/31/24 16:30
BKG 5 4Ft	2410610-11	Soil	10/31/24 00:00	10/31/24 16:30



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

Lab ID

Page 1 of 1

2410610

		Send Data To:		Send Invoice To:	
Client: Fremont Environmental		Project Manager:		Company: Chevron	
Address: 8305 6th St.		E-Mail: Chevron Dist. List, paulH, ethanB, joshB (@fremontenv.com)		Project Name/Location:	
City/State/Zip: Wellington, CO		ethanB, joshB (@fremontenv.com)		AFE#:	
Phone: 813-514-7730		Project Name: Noble - Fanny B #1 Tank Battery		PO/Billing Codes: UWRWE-2820-ABN	
Sampler Name: Joshua Belongus		Project Number: C023-242		Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested								Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	Full Table 915-1 (Soil)	Full Table 915-1 (GW)	NBTEX, TMBs	TPH (C6-C36)	PAHs	SAR, EC,pH, Boron	Table 915-1 Metals		TDS, Chloride, Sulfate
1	AST 0.5 Ft (2)	10/31		2			X			X							X	X			
2	BKG 1 0.5 Ft	↓		2			X			X							X	X			
3	BKG 1 4 Ft			2			X			X								X	X		
4	BKG 2 0.5 Ft			2			X			X								X	X		
5	BKG 2 4 Ft			2			X			X								X	X		
6	BKG 3 0.5 Ft			2			X			X								X	X		
7	BKG 3 4 Ft			2			X			X								X	X		
8	BKG 4 0.5 Ft			2			X			X								X	X		
9	BKG 4 4 Ft			2			X			X								X	X		
10	BKG 5 0.5 Ft			2			X			X								X	X		
11	BKG 5 4 Ft			2			X			X								X	X		
12																					
13																					
14																					
15																					

Relinquished by:	Date/Time: 10/31 1400	Received by: Summit North	Date/Time: 10/31 1400	TAT Business Days	Field DO	Notes: Dist. Report to parties circled in the email line(s) only.
				Same Day	Field EC	
Relinquished by: SL	Date/Time: 10/31 1430	Received by:	Date/Time: 10/31 1430	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 5.7	Corrected Temperature: 5	IR gun #:		HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2410610

Client: Fremont

Client Project ID: Fanny B #1 Tank Battery

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

Airbill #: _____

-

Matrix (Check all that apply)

Air

Soil

Water

Other

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>cu2ce</u>
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input 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 checked="" 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.

AS

Custodian Printed Name

10/31/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Fanny B 01 Tank

Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
11/21/24 13:04

**AST 0.5 Ft(2)
2410610-01 (Soil)**

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHK0403	11/08/24	11/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.98	0.200		mg/kg dry	1	BHK0578	11/12/24	11/13/24	EPA 6020B	
Barium	46.4	0.400		"	"	"	"	"	"	
Cadmium	0.201	0.200		"	"	"	"	"	"	
Copper	5.75	0.400		"	"	"	"	"	"	
Lead	7.14	0.200		"	"	"	"	"	"	
Nickel	4.07	0.400		"	"	"	"	"	"	
Silver	0.0529	0.0200		"	"	"	"	"	"	
Zinc	21.5	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHK0659	11/13/24	11/21/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	20.1	0.0500		mg/L dry	1	BHK0499	11/11/24	11/13/24	EPA 6020B	
Magnesium	4.27	0.0500		"	"	"	"	"	"	
Sodium	30.6	0.0500		"	"	"	"	"	"	

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Project: Noble - Fanny B 01 Tank
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 Project Manager: Paul Henchan

Reported:
 11/21/24 13:04

**AST 0.5 Ft(2)
 2410610-01 (Soil)**

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.62	0.00100	units	1	BHK0753	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.5		%	1	BHK0264	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.165	0.0100	mmhos/cm	1	BHK0522	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BHK0521	11/11/24	11/14/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Fanny B 01 Tank
Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
11/21/24 13:04

BKG 1 0.5Ft
2410610-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0403	11/08/24	11/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	2.45	0.200	mg/kg dry	1	BHK0578	11/12/24	11/13/24	EPA 6020B	
Barium	67.3	0.400	"	"	"	"	"	"	
Cadmium	0.499	0.200	"	"	"	"	"	"	
Copper	16.5	0.400	"	"	"	"	"	"	
Lead	17.5	0.200	"	"	"	"	"	"	
Nickel	5.03	0.400	"	"	"	"	"	"	
Silver	0.227	0.0200	"	"	"	"	"	"	
Zinc	50.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0659	11/13/24	11/21/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	13.9	0.0500	mg/L dry	1	BHK0499	11/11/24	11/13/24	EPA 6020B	
Magnesium	3.95	0.0500	"	"	"	"	"	"	
Sodium	17.7	0.0500	"	"	"	"	"	"	

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Reported:
 11/21/24 13:04

BKG 1 0.5Ft
2410610-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.08	0.00100	units	1	BHK0753	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.9		%	1	BHK0264	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.174	0.0100	mmhos/cm	1	BHK0522	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.61		pH Units	1	BHK0521	11/11/24	11/14/24	EPA 9045D	

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Project: Noble - Fanny B 01 Tank

Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
11/21/24 13:04

BKG 1 4Ft
2410610-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0403	11/08/24	11/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.49	0.200	mg/kg dry	1	BHK0578	11/12/24	11/13/24	EPA 6020B	
Barium	51.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.25	0.400	"	"	"	"	"	"	
Lead	5.73	0.200	"	"	"	"	"	"	
Nickel	3.73	0.400	"	"	"	"	"	"	
Silver	0.0417	0.0200	"	"	"	"	"	"	
Zinc	19.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0659	11/13/24	11/21/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	16.3	0.0500	mg/L dry	1	BHK0499	11/11/24	11/13/24	EPA 6020B	
Magnesium	4.94	0.0500	"	"	"	"	"	"	
Sodium	11.4	0.0500	"	"	"	"	"	"	

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Fanny B 01 Tank
 Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 11/21/24 13:04

BKG 1 4Ft
2410610-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.635	0.00100	units	1	BHK0753	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.6		%	1	BHK0264	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0830	0.0100	mmhos/cm	1	BHK0522	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.87		pH Units	1	BHK0521	11/11/24	11/14/24	EPA 9045D	

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Project: Noble - Fanny B 01 Tank
Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
11/21/24 13:04

BKG 2 0.5Ft
2410610-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0403	11/08/24	11/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.82	0.200	mg/kg dry	1	BHK0578	11/12/24	11/13/24	EPA 6020B	
Barium	60.6	0.400	"	"	"	"	"	"	
Cadmium	0.323	0.200	"	"	"	"	"	"	
Copper	14.3	0.400	"	"	"	"	"	"	
Lead	10.2	0.200	"	"	"	"	"	"	
Nickel	4.61	0.400	"	"	"	"	"	"	
Silver	0.116	0.0200	"	"	"	"	"	"	
Zinc	43.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0659	11/13/24	11/21/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	15.9	0.0500	mg/L dry	1	BHK0499	11/11/24	11/13/24	EPA 6020B	
Magnesium	4.85	0.0500	"	"	"	"	"	"	
Sodium	30.4	0.0500	"	"	"	"	"	"	

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 Project Manager: Paul Henchan

Reported:
 11/21/24 13:04

BKG 2 0.5Ft
2410610-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.71	0.00100	units	1	BHK0753	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.6		%	1	BHK0264	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.165	0.0100	mmhos/cm	1	BHK0522	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.51		pH Units	1	BHK0521	11/11/24	11/14/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Fanny B 01 Tank
Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
11/21/24 13:04

BKG 2 4Ft
2410610-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0403	11/08/24	11/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.30	0.200	mg/kg dry	1	BHK0578	11/12/24	11/13/24	EPA 6020B	
Barium	47.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.05	0.400	"	"	"	"	"	"	
Lead	4.59	0.200	"	"	"	"	"	"	
Nickel	3.20	0.400	"	"	"	"	"	"	
Silver	0.0405	0.0200	"	"	"	"	"	"	
Zinc	14.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0659	11/13/24	11/21/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	38.1	0.0500	mg/L dry	1	BHK0499	11/11/24	11/13/24	EPA 6020B	
Magnesium	18.0	0.0500	"	"	"	"	"	"	
Sodium	76.8	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Fanny B 01 Tank
 Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 11/21/24 13:04

BKG 2 4Ft
2410610-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.57	0.00100	units	1	BHK0753	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.2		%	1	BHK0264	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.662	0.0100	mmhos/cm	1	BHK0522	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.26		pH Units	1	BHK0521	11/11/24	11/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Fanny B 01 Tank
Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
11/21/24 13:04

BKG 3 0.5Ft
2410610-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0403	11/08/24	11/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.54	0.200	mg/kg dry	1	BHK0578	11/12/24	11/13/24	EPA 6020B	
Barium	39.2	0.400	"	"	"	"	"	"	
Cadmium	0.244	0.200	"	"	"	"	"	"	
Copper	9.51	0.400	"	"	"	"	"	"	
Lead	8.81	0.200	"	"	"	"	"	"	
Nickel	3.64	0.400	"	"	"	"	"	"	
Silver	0.0882	0.0200	"	"	"	"	"	"	
Zinc	32.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0659	11/13/24	11/21/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	30.5	0.0500	mg/L dry	1	BHK0499	11/11/24	11/13/24	EPA 6020B	
Magnesium	11.2	0.0500	"	"	"	"	"	"	
Sodium	63.7	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Fanny B 01 Tank
 Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 11/21/24 13:04

BKG 3 0.5Ft
2410610-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.51	0.00100	units	1	BHK0753	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.9		%	1	BHK0264	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.627	0.0100	mmhos/cm	1	BHK0522	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.18		pH Units	1	BHK0521	11/11/24	11/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Fanny B 01 Tank

Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
11/21/24 13:04

BKG 3 4Ft
2410610-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0403	11/08/24	11/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.32	0.200	mg/kg dry	1	BHK0578	11/12/24	11/13/24	EPA 6020B	
Barium	37.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.64	0.400	"	"	"	"	"	"	
Lead	3.34	0.200	"	"	"	"	"	"	
Nickel	3.05	0.400	"	"	"	"	"	"	
Silver	0.0258	0.0200	"	"	"	"	"	"	
Zinc	12.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0659	11/13/24	11/21/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	37.3	0.0500	mg/L dry	1	BHK0499	11/11/24	11/13/24	EPA 6020B	
Magnesium	3.45	0.0500	"	"	"	"	"	"	
Sodium	37.6	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Fanny B 01 Tank
 Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 11/21/24 13:04

BKG 3 4Ft
2410610-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.58	0.00100	units	1	BHK0753	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.8		%	1	BHK0264	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.244	0.0100	mmhos/cm	1	BHK0522	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.78		pH Units	1	BHK0521	11/11/24	11/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Fanny B 01 Tank
Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
11/21/24 13:04

BKG 4 0.5Ft
2410610-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0403	11/08/24	11/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.50	0.200	mg/kg dry	1	BHK0578	11/12/24	11/13/24	EPA 6020B	
Barium	39.4	0.400	"	"	"	"	"	"	
Cadmium	0.295	0.200	"	"	"	"	"	"	
Copper	8.98	0.400	"	"	"	"	"	"	
Lead	11.2	0.200	"	"	"	"	"	"	
Nickel	3.52	0.400	"	"	"	"	"	"	
Silver	0.101	0.0200	"	"	"	"	"	"	
Zinc	35.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0659	11/13/24	11/21/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	15.0	0.0500	mg/L dry	1	BHK0499	11/11/24	11/13/24	EPA 6020B	
Magnesium	4.75	0.0500	"	"	"	"	"	"	
Sodium	2.83	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Fanny B 01 Tank
 Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 11/21/24 13:04

BKG 4 0.5Ft
2410610-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.163	0.00100	units	1	BHK0753	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.6		%	1	BHK0264	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.174	0.0100	mmhos/cm	1	BHK0522	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.90		pH Units	1	BHK0521	11/11/24	11/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Fanny B 01 Tank

Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
11/21/24 13:04

BKG 4 4Ft
2410610-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0403	11/08/24	11/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.42	0.200	mg/kg dry	1	BHK0578	11/12/24	11/13/24	EPA 6020B	
Barium	45.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.86	0.400	"	"	"	"	"	"	
Lead	4.46	0.200	"	"	"	"	"	"	
Nickel	3.31	0.400	"	"	"	"	"	"	
Silver	0.0274	0.0200	"	"	"	"	"	"	
Zinc	14.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0659	11/13/24	11/21/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	42.4	0.0500	mg/L dry	1	BHK0499	11/11/24	11/13/24	EPA 6020B	
Magnesium	17.3	0.0500	"	"	"	"	"	"	
Sodium	75.1	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Fanny B 01 Tank
 Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 11/21/24 13:04

BKG 4 4Ft
2410610-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.46	0.00100	units	1	BHK0753	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.3		%	1	BHK0264	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.658	0.0100	mmhos/cm	1	BHK0522	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.77		pH Units	1	BHK0521	11/11/24	11/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Fanny B 01 Tank

Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
11/21/24 13:04

BKG 5 0.5Ft
2410610-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0403	11/08/24	11/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.59	0.200	mg/kg dry	1	BHK0578	11/12/24	11/13/24	EPA 6020B	
Barium	40.8	0.400	"	"	"	"	"	"	
Cadmium	0.326	0.200	"	"	"	"	"	"	
Copper	10.0	0.400	"	"	"	"	"	"	
Lead	12.2	0.200	"	"	"	"	"	"	
Nickel	3.40	0.400	"	"	"	"	"	"	
Silver	0.119	0.0200	"	"	"	"	"	"	
Zinc	38.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0659	11/13/24	11/21/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	13.4	0.0500	mg/L dry	1	BHK0499	11/11/24	11/13/24	EPA 6020B	
Magnesium	3.28	0.0500	"	"	"	"	"	"	
Sodium	3.02	0.0500	"	"	"	"	"	"	

Summit Scientific

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





Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Fanny B 01 Tank
 Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 11/21/24 13:04

BKG 5 0.5Ft
2410610-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.192	0.00100	units	1	BHK0753	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.4		%	1	BHK0264	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.112	0.0100	mmhos/cm	1	BHK0522	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.04		pH Units	1	BHK0521	11/11/24	11/14/24	EPA 9045D	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Fanny B 01 Tank
Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
11/21/24 13:04

BKG 5 4Ft
2410610-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHK0403	11/08/24	11/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.47	0.200	mg/kg dry	1	BHK0578	11/12/24	11/13/24	EPA 6020B	
Barium	42.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.28	0.400	"	"	"	"	"	"	
Lead	5.04	0.200	"	"	"	"	"	"	
Nickel	3.27	0.400	"	"	"	"	"	"	
Silver	0.0322	0.0200	"	"	"	"	"	"	
Zinc	15.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHK0659	11/13/24	11/21/24	EPA 7196A	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	12.6	0.0500	mg/L dry	1	BHK0499	11/11/24	11/13/24	EPA 6020B	
Magnesium	4.08	0.0500	"	"	"	"	"	"	
Sodium	13.0	0.0500	"	"	"	"	"	"	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Fanny B 01 Tank
 Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 11/21/24 13:04

BKG 5 4Ft
2410610-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.814	0.00100	units	1	BHK0753	11/14/24	11/14/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.2		%	1	BHK0264	11/06/24	11/07/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.111	0.0100	mmhos/cm	1	BHK0522	11/11/24	11/14/24	EPA 120.1	

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

Date Sampled: **10/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.76		pH Units	1	BHK0521	11/11/24	11/14/24	EPA 9045D	

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Fanny B 01 Tank
 Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 11/21/24 13:04

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

Summit Scientific

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

Batch BHK0403 - EPA 3050B

Blank (BHK0403-BLK1)

Prepared: 11/08/24 Analyzed: 11/11/24

Boron ND 2.00 mg/L

LCS (BHK0403-BS1)

Prepared: 11/08/24 Analyzed: 11/11/24

Boron 5.41 2.00 mg/L 5.00 108 80-120

Duplicate (BHK0403-DUP1)

Source: 2410596-10

Prepared: 11/08/24 Analyzed: 11/11/24

Boron 0.463 2.00 mg/L 0.491 5.91 20

Matrix Spike (BHK0403-MS1)

Source: 2410596-10

Prepared: 11/08/24 Analyzed: 11/11/24

Boron 5.84 2.00 mg/L 5.00 0.491 107 75-125

Matrix Spike Dup (BHK0403-MSD1)

Source: 2410596-10

Prepared: 11/08/24 Analyzed: 11/11/24

Boron 6.21 2.00 mg/L 5.00 0.491 114 75-125 6.09 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Fanny B 01 Tank
Project Number: UWRWE-A2820-ABN
Project Manager: Paul Henchan

Reported:
11/21/24 13:04

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 BHK0578 - EPA 3050B

Blank (BHK0578-BLK1)

Prepared: 11/12/24 Analyzed: 11/13/24

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 (BHK0578-BS1)

Prepared: 11/12/24 Analyzed: 11/13/24

Arsenic	38.3	0.200	mg/kg wet	40.3	95.0	80-120
Barium	39.2	0.400	"	40.3	97.2	80-120
Cadmium	2.00	0.200	"	2.02	99.2	80-120
Copper	40.6	0.400	"	40.3	101	80-120
Lead	19.3	0.200	"	20.2	95.6	80-120
Nickel	40.2	0.400	"	40.3	99.8	80-120
Silver	1.94	0.0200	"	2.02	96.1	80-120
Zinc	41.3	0.400	"	40.3	102	80-120
Selenium	4.66	0.260	"	4.03	116	80-120

Duplicate (BHK0578-DUP1)

Source: 2410595-01

Prepared: 11/12/24 Analyzed: 11/13/24

Arsenic	1.41	0.200	mg/kg dry	1.52	6.97	20
Barium	46.7	0.400	"	48.5	3.70	20
Cadmium	0.168	0.200	"	0.185	9.40	20
Copper	3.34	0.400	"	3.44	2.80	20
Lead	4.82	0.200	"	5.29	9.19	20
Nickel	3.06	0.400	"	3.12	2.03	20
Silver	0.0211	0.0200	"	0.0264	22.6	20
Zinc	14.6	0.400	"	15.4	5.31	20
Selenium	ND	0.260	"	ND		20

QR-01

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Fanny B 01 Tank

Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 11/21/24 13:04

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 BHK0578 - EPA 3050B

Matrix Spike (BHK0578-MS1)

Source: 2410595-01

Prepared: 11/12/24 Analyzed: 11/13/24

Arsenic	45.5	0.200	mg/kg dry	46.3	1.52	95.1	75-125				
Barium	91.9	0.400	"	46.3	48.5	94.0	75-125				
Cadmium	2.45	0.200	"	2.31	0.185	98.0	75-125				
Copper	38.6	0.400	"	46.3	3.44	75.9	75-125				
Lead	27.1	0.200	"	23.1	5.29	94.4	75-125				
Nickel	38.6	0.400	"	46.3	3.12	76.7	75-125				
Silver	0.393	0.0200	"	2.31	0.0264	15.9	75-125				QM-05
Zinc	52.2	0.400	"	46.3	15.4	79.5	75-125				
Selenium	4.82	0.260	"	4.63	ND	104	75-125				

Matrix Spike Dup (BHK0578-MSD1)

Source: 2410595-01

Prepared: 11/12/24 Analyzed: 11/13/24

Arsenic	47.6	0.200	mg/kg dry	47.4	1.52	97.2	75-125	4.46	25		
Barium	101	0.400	"	47.4	48.5	111	75-125	9.30	25		
Cadmium	2.54	0.200	"	2.37	0.185	99.3	75-125	3.50	25		
Copper	40.7	0.400	"	47.4	3.44	78.6	75-125	5.38	25		
Lead	27.4	0.200	"	23.7	5.29	93.3	75-125	1.06	25		
Nickel	40.6	0.400	"	47.4	3.12	79.1	75-125	5.02	25		
Silver	0.399	0.0200	"	2.37	0.0264	15.7	75-125	1.52	25		QM-05
Zinc	53.3	0.400	"	47.4	15.4	79.9	75-125	2.14	25		
Selenium	5.10	0.260	"	4.74	ND	108	75-125	5.63	25		

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Fanny B 01 Tank

Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 11/21/24 13:04

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 BHK0659 - 3060A Mod

Blank (BHK0659-BLK1)

Prepared: 11/13/24 Analyzed: 11/21/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHK0659-BS1)

Prepared: 11/13/24 Analyzed: 11/21/24

Chromium, Hexavalent 27.0 0.30 mg/kg wet 25.0 108 80-120

Duplicate (BHK0659-DUP1)

Source: 2410596-20

Prepared: 11/13/24 Analyzed: 11/21/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHK0659-MS1)

Source: 2410596-20

Prepared: 11/13/24 Analyzed: 11/21/24

Chromium, Hexavalent 27.2 0.30 mg/kg dry 26.6 ND 102 75-125

Matrix Spike Dup (BHK0659-MSD1)

Source: 2410596-20

Prepared: 11/13/24 Analyzed: 11/21/24

Chromium, Hexavalent 27.2 0.30 mg/kg dry 26.6 ND 103 75-125 0.195 20

Summit Scientific

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Project: Noble - Fanny B 01 Tank

Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 11/21/24 13:04

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 BHK0499 - General Preparation

Blank (BHK0499-BLK1)

Prepared: 11/11/24 Analyzed: 11/13/24

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

LCS (BHK0499-BS1)

Prepared: 11/11/24 Analyzed: 11/13/24

Calcium	5.61	0.0500	mg/L wet	5.00		112	70-130			
Magnesium	5.08	0.0500	"	5.00		102	70-130			
Sodium	5.35	0.0500	"	5.00		107	70-130			

Summit Scientific

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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - Fanny B 01 Tank

Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 11/21/24 13:04

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 BHK0264 - General Preparation

Duplicate (BHK0264-DUP1)	Source: 2410610-01		Prepared: 11/06/24 Analyzed: 11/07/24	
% Solids	91.0	%	91.5	0.623 20

Summit Scientific

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Project: Noble - Fanny B 01 Tank
 Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 11/21/24 13:04

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 BHK0522 - General Preparation

Blank (BHK0522-BLK1)

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

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHK0522-BS1)

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

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 102 95-105

Duplicate (BHK0522-DUP1)

Source: 2410609-01

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

Specific Conductance (EC) 0.0616 0.0100 mmhos/cm 0.0621 0.727 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Fanny B 01 Tank

Project Number: UWRWE-A2820-ABN
 Project Manager: Paul Henchan

Reported:
 11/21/24 13:04

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 BHK0521 - General Preparation

LCS (BHK0521-BS1)

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

pH 9.27 pH Units 9.18 101 95-105

Duplicate (BHK0521-DUP1)

Source: 2410609-01

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

pH 9.28 pH Units 9.35 0.751 20

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Fanny B 01 Tank

Project Number: UWRWE-A2820-ABN

Project Manager: Paul Henchan

Reported:
11/21/24 13:04

Notes and Definitions

- 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