

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 04, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

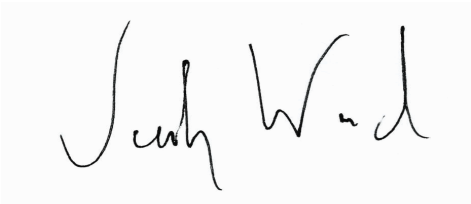
Wellington, CO 80549

RE: Noble - Booth CC 31-17D Tank (BKGs)

Work Order #2410158

Enclosed are the results of analyses for samples received by Summit Scientific on 10/10/24 16:33. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@2.0'	2410158-01	Soil	10/10/24 00:00	10/10/24 16:33
BKG01@4.0'	2410158-02	Soil	10/10/24 00:00	10/10/24 16:33
BKG01@7.0'	2410158-03	Soil	10/10/24 00:00	10/10/24 16:33
BKG02@2.0'	2410158-04	Soil	10/10/24 00:00	10/10/24 16:33
BKG02@4.0'	2410158-05	Soil	10/10/24 00:00	10/10/24 16:33
BKG02@7.0'	2410158-06	Soil	10/10/24 00:00	10/10/24 16:33
BKG03@2.0'	2410158-07	Soil	10/10/24 00:00	10/10/24 16:33
BKG03@4.0'	2410158-08	Soil	10/10/24 00:00	10/10/24 16:33
BKG03@7.0'	2410158-09	Soil	10/10/24 00:00	10/10/24 16:33
BKG04@2.0'	2410158-10	Soil	10/10/24 00:00	10/10/24 16:33
BKG04@4.0'	2410158-11	Soil	10/10/24 00:00	10/10/24 16:33
BKG04@7.0'	2410158-12	Soil	10/10/24 00:00	10/10/24 16:33
BKG05@2.0'	2410158-13	Soil	10/10/24 00:00	10/10/24 16:33
BKG05@4.0'	2410158-14	Soil	10/10/24 00:00	10/10/24 16:33
BKG05@7.0'	2410158-15	Soil	10/10/24 00:00	10/10/24 16:33

Case Narrative

This project has been renamed per client request on 12/4/2024.

This is a revision of the report originally sent on 10/15/2024 at 14:03 MT.

Summit Scientific

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

Lab ID	Page <u>1</u> of <u>1</u>
2410158	

Client: <u>Fremont Env</u>		Send Data To:		Send Invoice To:	
Address:		Project Manager: <u>Paul Henehan</u>		Company: <u>Noble</u>	
City/State/Zip:		E-Mail: <u>Paulh@Fremontenv.com</u>		Project Name/Location:	
Phone:		<u>Jeff@Fremontenv.com</u> <u>Ethan@Fremontenv.com</u>		AFE#:	
Sampler Name: <u>JG</u>		Project Name: <u>Booth CC 31-71D Tank (BK6s)</u>		PO/Billing Codes: <u>UWRWE-A2250-ABN</u>	
		Project Number:		Contact:	

					Preservative				Matrix			Analysis Requested						Special Instructions	
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	EC, pH, SAR, Bacon	Metals (915)					
1	BK601@2.0'	10/10/24		1			X			X			X	X					
2	BK601@4.0'																		
3	BK601@7.0'																		
4	BK602@2.0'																		
5	BK602@4.0'																		
6	BK602@7.0'																		
7	BK603@2.0'																		
8	BK603@4.0'																		
9	BK603@7.0'																		
10	BK604@2.0'																		
11	BK604@4.0'																		
12	BK604@7.0'																		
13	BK605@2.0'																		
14	BK605@4.0'																		
15	BK605@7.0'																		

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/10/24 16:33</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/10/24 16:33</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	X Field Turb.	
Temperature Upon Receipt: <u>4.3</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

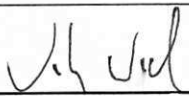
S2 Work Order# 2410158Client: Noble - Fremont Client Project ID: Booth CC 31-710 Tsnh (BKGs)Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 4.3Thermometer # 2

	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"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No Sample for S
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.				

Control Form #: SRC-001


 Custodian Printed Name

10/10/24 16:33
 Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG01@2.0'
2410158-01 (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	BHJ0476	10/14/24	10/14/24	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	1.67	0.200		mg/kg dry	1	BHJ0477	10/14/24	10/14/24	EPA 6020B	
Barium	61.8	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	3.10	0.400		"	"	"	"	"	"	
Lead	5.08	0.200		"	"	"	"	"	"	
Nickel	3.65	0.400		"	"	"	"	"	"	
Silver	0.0273	0.0200		"	"	"	"	"	"	
Zinc	13.4	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	BHJ0472	10/14/24	10/14/24	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	151	0.0500		mg/L dry	1	BHJ0465	10/14/24	10/15/24	EPA 6020B	
Magnesium	17.2	0.0500		"	"	"	"	"	"	
Sodium	2.94	0.0500		"	"	"	"	"	"	

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG01@2.0'
2410158-01 (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	0.0604	0.00100	units	1	BHJ0556	10/15/24	10/15/24	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	90.0		%	1	BHJ0459	10/14/24	10/14/24	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)	0.143	0.0100	mmhos/cm	1	BHJ0466	10/14/24	10/14/24	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	8.41		pH Units	1	BHJ0468	10/14/24	10/14/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG01@4.0'
2410158-02 (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	BHJ0476	10/14/24	10/14/24	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	1.36	0.200	mg/kg dry	1	BHJ0477	10/14/24	10/14/24	EPA 6020B	
Barium	64.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.61	0.400	"	"	"	"	"	"	
Lead	4.21	0.200	"	"	"	"	"	"	
Nickel	3.20	0.400	"	"	"	"	"	"	
Silver	0.0227	0.0200	"	"	"	"	"	"	
Zinc	12.0	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	BHJ0472	10/14/24	10/14/24	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	248	0.0500	mg/L dry	1	BHJ0465	10/14/24	10/15/24	EPA 6020B	
Magnesium	13.4	0.0500	"	"	"	"	"	"	
Sodium	3.78	0.0500	"	"	"	"	"	"	

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG01@4.0'
2410158-02 (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	0.0633	0.00100	units	1	BHJ0556	10/15/24	10/15/24	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	BHJ0459	10/14/24	10/14/24	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)	0.182	0.0100	mmhos/cm	1	BHJ0466	10/14/24	10/14/24	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	BHJ0468	10/14/24	10/14/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG01@7.0'
2410158-03 (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	BHJ0476	10/14/24	10/14/24	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	1.06	0.200	mg/kg dry	1	BHJ0477	10/14/24	10/14/24	EPA 6020B	
Barium	30.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.12	0.400	"	"	"	"	"	"	
Lead	2.48	0.200	"	"	"	"	"	"	
Nickel	1.89	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	8.42	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	BHJ0472	10/14/24	10/14/24	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	91.6	0.0500	mg/L dry	1	BHJ0465	10/14/24	10/15/24	EPA 6020B	
Magnesium	12.5	0.0500	"	"	"	"	"	"	
Sodium	4.73	0.0500	"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG01@7.0'
2410158-03 (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	0.123	0.00100	units	1	BHJ0556	10/15/24	10/15/24	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	94.9		%	1	BHJ0459	10/14/24	10/14/24	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)	0.104	0.0100	mmhos/cm	1	BHJ0466	10/14/24	10/14/24	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	9.06		pH Units	1	BHJ0468	10/14/24	10/14/24	EPA 9045D	

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Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG02@2.0'
2410158-04 (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	BHJ0476	10/14/24	10/14/24	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	1.53	0.200	mg/kg dry	1	BHJ0477	10/14/24	10/14/24	EPA 6020B	
Barium	55.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.05	0.400	"	"	"	"	"	"	
Lead	4.74	0.200	"	"	"	"	"	"	
Nickel	2.96	0.400	"	"	"	"	"	"	
Silver	0.0215	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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0472	10/14/24	10/14/24	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	86.2	0.0500	mg/L dry	1	BHJ0465	10/14/24	10/15/24	EPA 6020B	
Magnesium	13.9	0.0500	"	"	"	"	"	"	
Sodium	1.01	0.0500	"	"	"	"	"	"	

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Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG02@2.0'
2410158-04 (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	0.0266	0.00100	units	1	BHJ0556	10/15/24	10/15/24	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	91.5		%	1	BHJ0459	10/14/24	10/14/24	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)	0.0332	0.0100	mmhos/cm	1	BHJ0466	10/14/24	10/14/24	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	7.55		pH Units	1	BHJ0468	10/14/24	10/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG02@4.0'
2410158-05 (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	BHJ0476	10/14/24	10/14/24	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	1.01	0.200	mg/kg dry	1	BHJ0477	10/14/24	10/14/24	EPA 6020B	
Barium	53.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.23	0.400	"	"	"	"	"	"	
Lead	3.14	0.200	"	"	"	"	"	"	
Nickel	2.24	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.62	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	BHJ0472	10/14/24	10/14/24	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	325	0.0500	mg/L dry	1	BHJ0465	10/14/24	10/15/24	EPA 6020B	
Magnesium	18.9	0.0500	"	"	"	"	"	"	
Sodium	4.05	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG02@4.0'
2410158-05 (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	0.0591	0.00100	units	1	BHJ0556	10/15/24	10/15/24	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	96.6		%	1	BHJ0459	10/14/24	10/14/24	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)	0.114	0.0100	mmhos/cm	1	BHJ0466	10/14/24	10/14/24	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	8.88		pH Units	1	BHJ0468	10/14/24	10/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG02@7.0'
2410158-06 (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	BHJ0476	10/14/24	10/14/24	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	1.12	0.200	mg/kg dry	1	BHJ0477	10/14/24	10/14/24	EPA 6020B	
Barium	48.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.32	0.400	"	"	"	"	"	"	
Lead	3.07	0.200	"	"	"	"	"	"	
Nickel	2.40	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.85	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	BHJ0472	10/14/24	10/14/24	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	145	0.0500	mg/L dry	1	BHJ0465	10/14/24	10/15/24	EPA 6020B	
Magnesium	11.6	0.0500	"	"	"	"	"	"	
Sodium	2.38	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG02@7.0'
2410158-06 (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	0.0512	0.00100	units	1	BHJ0556	10/15/24	10/15/24	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	91.7		%	1	BHJ0459	10/14/24	10/14/24	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)	0.0787	0.0100	mmhos/cm	1	BHJ0466	10/14/24	10/14/24	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	9.06		pH Units	1	BHJ0468	10/14/24	10/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG03@2.0'
2410158-07 (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	BHJ0476	10/14/24	10/14/24	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	1.00	0.200	mg/kg dry	1	BHJ0477	10/14/24	10/15/24	EPA 6020B	
Barium	42.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.76	0.400	"	"	"	"	"	"	
Lead	3.71	0.200	"	"	"	"	"	"	
Nickel	2.58	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	10.5	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	BHJ0472	10/14/24	10/14/24	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	70.9	0.0500	mg/L dry	1	BHJ0465	10/14/24	10/15/24	EPA 6020B	
Magnesium	12.8	0.0500	"	"	"	"	"	"	
Sodium	0.984	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG03@2.0'
2410158-07 (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	0.0282	0.00100	units	1	BHJ0556	10/15/24	10/15/24	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	95.8		%	1	BHJ0459	10/14/24	10/14/24	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)	0.0749	0.0100	mmhos/cm	1	BHJ0466	10/14/24	10/14/24	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	6.96		pH Units	1	BHJ0468	10/14/24	10/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG03@4.0'
2410158-08 (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	BHJ0476	10/14/24	10/14/24	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	1.32	0.200	mg/kg dry	1	BHJ0477	10/14/24	10/15/24	EPA 6020B	
Barium	68.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.18	0.400	"	"	"	"	"	"	
Lead	5.19	0.200	"	"	"	"	"	"	
Nickel	3.45	0.400	"	"	"	"	"	"	
Silver	0.0303	0.0200	"	"	"	"	"	"	
Zinc	14.3	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	BHJ0472	10/14/24	10/14/24	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	204	0.0500	mg/L dry	1	BHJ0465	10/14/24	10/15/24	EPA 6020B	
Magnesium	40.7	0.0500	"	"	"	"	"	"	
Sodium	2.38	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG03@4.0'
2410158-08 (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	0.0398	0.00100	units	1	BHJ0556	10/15/24	10/15/24	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	92.2		%	1	BHJ0459	10/14/24	10/14/24	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)	0.0489	0.0100	mmhos/cm	1	BHJ0466	10/14/24	10/14/24	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	BHJ0468	10/14/24	10/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG03@7.0'
2410158-09 (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	BHJ0476	10/14/24	10/14/24	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	1.20	0.200		mg/kg dry	1	BHJ0477	10/14/24	10/15/24	EPA 6020B	
Barium	62.3	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	3.09	0.400		"	"	"	"	"	"	
Lead	4.97	0.200		"	"	"	"	"	"	
Nickel	3.34	0.400		"	"	"	"	"	"	
Silver	0.0248	0.0200		"	"	"	"	"	"	
Zinc	14.0	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	BHJ0472	10/14/24	10/14/24	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	83.4	0.0500		mg/L dry	1	BHJ0465	10/14/24	10/15/24	EPA 6020B	
Magnesium	16.8	0.0500		"	"	"	"	"	"	
Sodium	1.20	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG03@7.0'
2410158-09 (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	0.0314	0.00100	units	1	BHJ0556	10/15/24	10/15/24	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	84.6		%	1	BHJ0459	10/14/24	10/14/24	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)	0.0281	0.0100	mmhos/cm	1	BHJ0466	10/14/24	10/14/24	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	7.70		pH Units	1	BHJ0468	10/14/24	10/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG04@2.0'
2410158-10 (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	BHJ0476	10/14/24	10/14/24	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	0.971	0.200	mg/kg dry	1	BHJ0477	10/14/24	10/15/24	EPA 6020B	
Barium	49.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.84	0.400	"	"	"	"	"	"	
Lead	4.13	0.200	"	"	"	"	"	"	
Nickel	2.67	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.0	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	BHJ0472	10/14/24	10/14/24	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	97.7	0.0500	mg/L dry	1	BHJ0465	10/14/24	10/15/24	EPA 6020B	
Magnesium	17.5	0.0500	"	"	"	"	"	"	
Sodium	0.534	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG04@2.0'
2410158-10 (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	0.0131	0.00100	units	1	BHJ0556	10/15/24	10/15/24	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	93.1		%	1	BHJ0459	10/14/24	10/14/24	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)	0.0387	0.0100	mmhos/cm	1	BHJ0466	10/14/24	10/14/24	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	7.37		pH Units	1	BHJ0468	10/14/24	10/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG04@4.0'
2410158-11 (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	BHJ0476	10/14/24	10/14/24	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	0.976	0.200	mg/kg dry	1	BHJ0477	10/14/24	10/15/24	EPA 6020B	
Barium	62.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.20	0.400	"	"	"	"	"	"	
Lead	4.61	0.200	"	"	"	"	"	"	
Nickel	3.06	0.400	"	"	"	"	"	"	
Silver	0.0214	0.0200	"	"	"	"	"	"	
Zinc	13.3	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	BHJ0472	10/14/24	10/14/24	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	113	0.0500	mg/L dry	1	BHJ0465	10/14/24	10/15/24	EPA 6020B	
Magnesium	23.4	0.0500	"	"	"	"	"	"	
Sodium	1.79	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG04@4.0'
2410158-11 (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	0.0400	0.00100	units	1	BHJ0556	10/15/24	10/15/24	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	89.6		%	1	BHJ0459	10/14/24	10/14/24	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)	0.0275	0.0100	mmhos/cm	1	BHJ0466	10/14/24	10/14/24	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	8.04		pH Units	1	BHJ0468	10/14/24	10/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG04@7.0'
2410158-12 (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	BHJ0476	10/14/24	10/14/24	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	1.26	0.200	mg/kg dry	1	BHJ0477	10/14/24	10/15/24	EPA 6020B	
Barium	35.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.25	0.400	"	"	"	"	"	"	
Lead	2.74	0.200	"	"	"	"	"	"	
Nickel	2.29	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	8.97	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	BHJ0472	10/14/24	10/14/24	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	139	0.0500	mg/L dry	1	BHJ0465	10/14/24	10/15/24	EPA 6020B	
Magnesium	26.4	0.0500	"	"	"	"	"	"	
Sodium	3.48	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG04@7.0'
2410158-12 (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	0.0709	0.00100	units	1	BHJ0556	10/15/24	10/15/24	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	94.4		%	1	BHJ0459	10/14/24	10/14/24	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)	0.0598	0.0100	mmhos/cm	1	BHJ0466	10/14/24	10/14/24	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	8.14		pH Units	1	BHJ0468	10/14/24	10/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG05@2.0'
2410158-13 (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	BHJ0476	10/14/24	10/14/24	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	1.50	0.200	mg/kg dry	1	BHJ0477	10/14/24	10/15/24	EPA 6020B	
Barium	64.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.12	0.400	"	"	"	"	"	"	
Lead	5.53	0.200	"	"	"	"	"	"	
Nickel	3.53	0.400	"	"	"	"	"	"	
Silver	0.0303	0.0200	"	"	"	"	"	"	
Zinc	14.4	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	BHJ0472	10/14/24	10/14/24	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	91.1	0.0500	mg/L dry	1	BHJ0465	10/14/24	10/15/24	EPA 6020B	
Magnesium	17.4	0.0500	"	"	"	"	"	"	
Sodium	2.60	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG05@2.0'
2410158-13 (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	0.0654	0.00100	units	1	BHJ0556	10/15/24	10/15/24	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	96.2		%	1	BHJ0459	10/14/24	10/14/24	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)	0.0666	0.0100	mmhos/cm	1	BHJ0466	10/14/24	10/14/24	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	7.28		pH Units	1	BHJ0468	10/14/24	10/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG05@4.0'
2410158-14 (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	BHJ0476	10/14/24	10/14/24	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	1.93	0.200	mg/kg dry	1	BHJ0477	10/14/24	10/15/24	EPA 6020B	
Barium	76.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.85	0.400	"	"	"	"	"	"	
Lead	4.77	0.200	"	"	"	"	"	"	
Nickel	3.53	0.400	"	"	"	"	"	"	
Silver	0.0250	0.0200	"	"	"	"	"	"	
Zinc	13.2	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	BHJ0472	10/14/24	10/14/24	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	56.3	0.0500	mg/L dry	1	BHJ0465	10/14/24	10/15/24	EPA 6020B	
Magnesium	8.49	0.0500	"	"	"	"	"	"	
Sodium	4.79	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG05@4.0'
2410158-14 (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	0.157	0.00100	units	1	BHJ0556	10/15/24	10/15/24	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	95.2		%	1	BHJ0459	10/14/24	10/14/24	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)	0.226	0.0100	mmhos/cm	1	BHJ0466	10/14/24	10/14/24	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	8.28		pH Units	1	BHJ0468	10/14/24	10/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG05@7.0'
2410158-15 (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	BHJ0476	10/14/24	10/14/24	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	1.02	0.200	mg/kg dry	1	BHJ0477	10/14/24	10/15/24	EPA 6020B	
Barium	41.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.31	0.400	"	"	"	"	"	"	
Lead	3.27	0.200	"	"	"	"	"	"	
Nickel	2.25	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.83	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	BHJ0472	10/14/24	10/14/24	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	217	0.0500	mg/L dry	1	BHJ0465	10/14/24	10/15/24	EPA 6020B	
Magnesium	20.2	0.0500	"	"	"	"	"	"	
Sodium	6.13	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

BKG05@7.0'
2410158-15 (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	0.107	0.00100	units	1	BHJ0556	10/15/24	10/15/24	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	BHJ0459	10/14/24	10/14/24	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)	0.122	0.0100	mmhos/cm	1	BHJ0466	10/14/24	10/14/24	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	8.82		pH Units	1	BHJ0468	10/14/24	10/14/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

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

Summit Scientific

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

Batch BHJ0476 - EPA 3050B

Blank (BHJ0476-BLK1)

Prepared & Analyzed: 10/14/24

Boron ND 2.00 mg/L

LCS (BHJ0476-BS1)

Prepared & Analyzed: 10/14/24

Boron 5.35 2.00 mg/L 5.00 107 80-120

Duplicate (BHJ0476-DUP1)

Source: 2410158-01

Prepared & Analyzed: 10/14/24

Boron 0.130 2.00 mg/L 0.163 22.6 20 QR-01

Matrix Spike (BHJ0476-MS1)

Source: 2410158-01

Prepared & Analyzed: 10/14/24

Boron 5.30 2.00 mg/L 5.04 0.163 102 75-125

Matrix Spike Dup (BHJ0476-MSD1)

Source: 2410158-01

Prepared & Analyzed: 10/14/24

Boron 5.86 2.00 mg/L 5.04 0.163 113 75-125 10.0 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHJ0477 - EPA 3050B

Blank (BHJ0477-BLK1)

Prepared & Analyzed: 10/14/24

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

LCS (BHJ0477-BS1)

Prepared & Analyzed: 10/14/24

Arsenic	41.7	0.200	mg/kg wet	41.0	102	80-120
Barium	45.0	0.400	"	41.0	110	80-120
Cadmium	1.99	0.200	"	2.05	97.2	80-120
Copper	40.6	0.400	"	41.0	99.2	80-120
Lead	20.2	0.200	"	20.5	98.4	80-120
Nickel	40.7	0.400	"	41.0	99.2	80-120
Silver	2.02	0.0200	"	2.05	98.8	80-120
Zinc	40.4	0.400	"	41.0	98.7	80-120
Selenium	4.46	0.260	"	4.10	109	80-120

Duplicate (BHJ0477-DUP1)

Source: 2410158-01

Prepared & Analyzed: 10/14/24

Arsenic	1.59	0.200	mg/kg dry	1.67	4.91	20
Barium	59.1	0.400	"	61.8	4.48	20
Cadmium	0.124	0.200	"	0.125	1.03	20
Copper	3.04	0.400	"	3.10	1.68	20
Lead	4.99	0.200	"	5.08	1.88	20
Nickel	3.53	0.400	"	3.65	3.39	20
Silver	0.0235	0.0200	"	0.0273	15.1	20
Zinc	13.2	0.400	"	13.4	1.44	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHJ0477 - EPA 3050B

Matrix Spike (BHJ0477-MS1)

Source: 2410158-01

Prepared & Analyzed: 10/14/24

Arsenic	30.5	0.200	mg/kg dry	43.1	1.67	66.9	75-125			QM-05
Barium	106	0.400	"	43.1	61.8	103	75-125			
Cadmium	2.27	0.200	"	2.15	0.125	99.5	75-125			
Copper	30.8	0.400	"	43.1	3.10	64.3	75-125			QM-05
Lead	26.0	0.200	"	21.5	5.08	97.0	75-125			
Nickel	32.1	0.400	"	43.1	3.65	66.0	75-125			QM-05
Silver	2.12	0.0200	"	2.15	0.0273	97.2	75-125			
Zinc	42.3	0.400	"	43.1	13.4	67.0	75-125			QM-05
Selenium	3.95	0.260	"	4.31	ND	91.8	75-125			

Matrix Spike Dup (BHJ0477-MSD1)

Source: 2410158-01

Prepared & Analyzed: 10/14/24

Arsenic	33.2	0.200	mg/kg dry	45.5	1.67	69.3	75-125	8.57	25	QM-05
Barium	104	0.400	"	45.5	61.8	93.4	75-125	1.91	25	
Cadmium	2.39	0.200	"	2.28	0.125	99.6	75-125	5.41	25	
Copper	33.8	0.400	"	45.5	3.10	67.5	75-125	9.43	25	QM-05
Lead	26.9	0.200	"	22.8	5.08	95.7	75-125	3.41	25	
Nickel	34.8	0.400	"	45.5	3.65	68.5	75-125	8.29	25	QM-05
Silver	2.25	0.0200	"	2.28	0.0273	97.4	75-125	5.76	25	
Zinc	44.0	0.400	"	45.5	13.4	67.1	75-125	3.93	25	QM-05
Selenium	4.32	0.260	"	4.55	ND	94.9	75-125	8.94	25	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHJ0472 - 3060A Mod

Blank (BHJ0472-BLK1)

Prepared & Analyzed: 10/14/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHJ0472-BS1)

Prepared & Analyzed: 10/14/24

Chromium, Hexavalent 26.2 0.30 mg/kg wet 25.0 105 80-120

Duplicate (BHJ0472-DUP1)

Source: 2410158-01

Prepared & Analyzed: 10/14/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHJ0472-MS1)

Source: 2410158-01

Prepared & Analyzed: 10/14/24

Chromium, Hexavalent 29.8 0.30 mg/kg dry 27.8 ND 107 75-125

Matrix Spike Dup (BHJ0472-MSD1)

Source: 2410158-01

Prepared & Analyzed: 10/14/24

Chromium, Hexavalent 29.2 0.30 mg/kg dry 27.8 ND 105 75-125 2.26 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BHJ0465 - General Preparation

Blank (BHJ0465-BLK1)

Prepared: 10/14/24 Analyzed: 10/15/24

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

LCS (BHJ0465-BS1)

Prepared: 10/14/24 Analyzed: 10/15/24

Calcium	4.78	0.0500	mg/L wet	5.00	95.6	70-130
Magnesium	4.67	0.0500	"	5.00	93.4	70-130
Sodium	4.71	0.0500	"	5.00	94.2	70-130

Summit Scientific

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Fremont Environmental	Project: Noble - Booth CC 31-17D Tank (BKGs)	
PO Box 1289	Project Number: UWRWE-A2250-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	12/04/24 12:32

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

Summit Scientific

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

Batch BHJ0459 - General Preparation

Duplicate (BHJ0459-DUP1)	Source: 2410158-01	Prepared & Analyzed: 10/14/24
% Solids	90.5	% 90.0 0.589 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)
Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

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

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

Batch BHJ0466 - General Preparation

Blank (BHJ0466-BLK1)

Prepared & Analyzed: 10/14/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHJ0466-BS1)

Prepared & Analyzed: 10/14/24

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BHJ0466-DUP1)

Source: 2410145-01

Prepared & Analyzed: 10/14/24

Specific Conductance (EC) 0.850 0.0100 mmhos/cm 0.854 0.505 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)

Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

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

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

Batch BHJ0468 - General Preparation

LCS (BHJ0468-BS1)

Prepared & Analyzed: 10/14/24

pH	9.19	pH Units	9.18	100	95-105
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Duplicate (BHJ0468-DUP1)

Source: 2410145-01

Prepared & Analyzed: 10/14/24

pH	8.11	pH Units	8.14	0.369	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Booth CC 31-17D Tank (BKGs)

Project Number: UWRWE-A2250-ABN
Project Manager: Paul Henchan

Reported:
12/04/24 12:32

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