

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 20, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

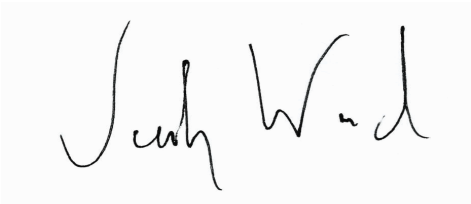
Wellington, CO 80549

RE: Noble - Lower Latham (Backgrounds)

Work Order #2403331

Enclosed are the results of analyses for samples received by Summit Scientific on 03/21/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "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 - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG 1 1FT	2403331-01	Soil	03/19/24 00:00	03/21/24 16:30
BKG 1 3FT	2403331-02	Soil	03/19/24 00:00	03/21/24 16:30
BKG 1 4FT	2403331-03	Soil	03/19/24 00:00	03/21/24 16:30
BKG 2 1FT	2403331-04	Soil	03/19/24 00:00	03/21/24 16:30
BKG 2 3FT	2403331-05	Soil	03/19/24 00:00	03/21/24 16:30
BKG 2 4FT	2403331-06	Soil	03/19/24 00:00	03/21/24 16:30
BKG 3 1FT	2403331-07	Soil	03/19/24 00:00	03/21/24 16:30
BKG 3 3FT	2403331-08	Soil	03/19/24 00:00	03/21/24 16:30
BKG 3 4FT	2403331-09	Soil	03/19/24 00:00	03/21/24 16:30
BKG 4 1FT	2403331-10	Soil	03/19/24 00:00	03/21/24 16:30
BKG 4 3FT	2403331-11	Soil	03/19/24 00:00	03/21/24 16:30
BKG 4 4FT	2403331-12	Soil	03/19/24 00:00	03/21/24 16:30
BKG 5 1FT	2403331-13	Soil	03/19/24 00:00	03/21/24 16:30
BKG 5 3FT	2403331-14	Soil	03/19/24 00:00	03/21/24 16:30
BKG 5 4FT	2403331-15	Soil	03/19/24 00:00	03/21/24 16:30

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

Lab ID	Page 1 of 1
2403331	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental, Inc.	Project Manager: Henehan	Company: Chevron	
Address: 8305 6th St.,	E-Mail: Chevron Dist. List POC Dist. List Online Dist. List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549	Fremont Dist. List (Chevron Dist. List) Paul H. Othman Mike Montoya John J. Othman Stanley Othman	AFE#:	
Phone: 603-477-6907	Project Name: Noble - Lower Latham (Backgrounds)	PO/Billing Codes: UWRWE-A2455-ARN	
Sampler Name: Ethan Black	Project Number: 000000	Contact: Mike Montoya	

				Preservative				Matrix				Analysis Requested						Special Instructions		
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	Metals (Table 915-1)	TDS, Chloride, Sulfate		
1	BKG 1 1FT	3/19/24		1			X			X						X	X			
2	BKG 1 3FT																			
3	BKG 1 4FT																			
4	BKG 2 1FT																			
5	BKG 2 3FT																			
6	BKG 2 4FT																			
7	BKG 3 1FT																			
8	BKG 3 3FT																			
9	BKG 3 4FT																			
10	BKG 4 1FT																			
11	BKG 4 3FT																			
12	BKG 4 4FT																			
13	BKG 5 1FT																			
14	BKG 5 3FT																			
15	BKG 5 4FT																			

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>3/21/24 1500</u>	Received by: <u>S2 - North Office</u>	Date/Time: <u>3/21/24 1500</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>S2</u>	Date/Time: <u>3/21/24 1630</u>	Received by: <u>[Signature]</u>	Date/Time: <u>3/21/24 1630</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by: <u>S2</u>	Date/Time: <u>3/21/24 1630</u>	Received by: <u>[Signature]</u>	Date/Time: <u>3/21/24 1630</u>	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>19.1</u>	Corrected Temperature: <u>8</u>	IR gun #: <u>1</u>	HNO3 lot #: <u></u>			

S₂

Sample Receipt Checklist

S2 Work Order# 2403331Client: FremontClient Project ID: Nide-lowerlatham (backgrounds)Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #: _____

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☐

Other

☐

Temp (°C)

19.1

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ON ICE
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	no sample times
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): <u>all bags</u>				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Custodian Printed Name

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 1 1FT
2403331-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.70	0.200		mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	66.0	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	3.50	0.400		"	"	"	"	"	"	
Lead	9.59	0.200		"	"	"	"	"	"	
Nickel	2.61	0.400		"	"	"	"	"	"	
Silver	0.0242	0.0200		"	"	"	"	"	"	
Zinc	13.7	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	1320	0.0500		mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	84.6	0.0500		"	"	"	"	"	"	
Sodium	20.3	0.0500		"	"	"	"	"	"	

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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 1 1FT
2403331-01 (Soil)

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Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.146	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.7		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.415	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.63		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 1 3FT
2403331-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.69	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	71.3	0.400	"	"	"	"	"	"	
Cadmium	0.224	0.200	"	"	"	"	"	"	
Copper	6.81	0.400	"	"	"	"	"	"	
Lead	13.9	0.200	"	"	"	"	"	"	
Nickel	3.62	0.400	"	"	"	"	"	"	
Silver	0.0259	0.0200	"	"	"	"	"	"	
Zinc	19.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	98.3	0.0500	mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	10.2	0.0500	"	"	"	"	"	"	
Sodium	8.26	0.0500	"	"	"	"	"	"	

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Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 1 3FT
2403331-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.212	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.8		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.458	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.39		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 1 4FT
2403331-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.58	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	81.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.83	0.400	"	"	"	"	"	"	
Lead	10.6	0.200	"	"	"	"	"	"	
Nickel	3.11	0.400	"	"	"	"	"	"	
Silver	0.0288	0.0200	"	"	"	"	"	"	
Zinc	16.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	74.3	0.0500	mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	7.96	0.0500	"	"	"	"	"	"	
Sodium	8.27	0.0500	"	"	"	"	"	"	

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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 1 4FT
2403331-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.244	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.8		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.286	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.99		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 2 1FT
2403331-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.96	0.200		mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Cadmium	0.428	0.200		"	"	"	"	"	"	
Copper	6.18	0.400		"	"	"	"	"	"	
Lead	11.8	0.200		"	"	"	"	"	"	
Nickel	5.85	0.400		"	"	"	"	"	"	
Silver	0.0386	0.0200		"	"	"	"	"	"	
Zinc	25.1	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	32.2	0.0500		mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	9.50	0.0500		"	"	"	"	"	"	
Sodium	8.09	0.0500		"	"	"	"	"	"	

Calculated Analysis

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Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 2 1FT
2403331-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.322	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.318	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

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Fremont Environmental	Project: Noble - Lower Latham (Backgrounds)	
PO Box 1289	Project Number: UWRWE-A2455-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	06/20/24 10:07

BKG 2 1FT
2403331-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: 03/19/24 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	128	0.362	mg/kg dry	1	BHE0650	05/21/24	05/25/24	EPA 6020B	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 2 3FT
2403331-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	4.10	0.200		mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	112	0.400		"	"	"	"	"	"	
Cadmium	0.348	0.200		"	"	"	"	"	"	
Copper	5.88	0.400		"	"	"	"	"	"	
Lead	11.3	0.200		"	"	"	"	"	"	
Nickel	5.70	0.400		"	"	"	"	"	"	
Silver	0.0355	0.0200		"	"	"	"	"	"	
Zinc	25.8	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	60.0	0.0500		mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	15.7	0.0500		"	"	"	"	"	"	
Sodium	15.2	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 2 3FT
2403331-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.452	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.4		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.628	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.71		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 2 4FT
2403331-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	6.04	0.200		mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	172	0.400		"	"	"	"	"	"	
Cadmium	0.472	0.200		"	"	"	"	"	"	
Copper	8.74	0.400		"	"	"	"	"	"	
Lead	15.8	0.200		"	"	"	"	"	"	
Nickel	8.25	0.400		"	"	"	"	"	"	
Silver	0.0486	0.0200		"	"	"	"	"	"	
Zinc	38.8	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	96.6	0.0500		mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	30.8	0.0500		"	"	"	"	"	"	
Sodium	23.7	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 2 4FT
2403331-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.538	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	59.3		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.753	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.99		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 3 1FT
2403331-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	5.66	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	110	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.74	0.400	"	"	"	"	"	"	
Lead	6.88	0.200	"	"	"	"	"	"	
Nickel	3.83	0.400	"	"	"	"	"	"	
Silver	0.0379	0.0200	"	"	"	"	"	"	
Zinc	17.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	24.1	0.0500	mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	4.24	0.0500	"	"	"	"	"	"	
Sodium	28.8	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 3 1FT
2403331-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.42	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.0		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.412	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 3 3FT
2403331-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	4.61	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.65	0.400	"	"	"	"	"	"	
Lead	6.55	0.200	"	"	"	"	"	"	
Nickel	3.57	0.400	"	"	"	"	"	"	
Silver	0.0324	0.0200	"	"	"	"	"	"	
Zinc	15.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	103	0.0500	mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	17.3	0.0500	"	"	"	"	"	"	
Sodium	59.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 3 3FT
2403331-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.43	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.9		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.29	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

Summit Scientific

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Lower Latham (Backgrounds) Project Number: UWRWE-A2455-ABN Project Manager: Paul Henchan	Reported: 06/20/24 10:07
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BKG 3 3FT
2403331-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: 03/19/24 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	107	0.400	mg/kg dry	1	BHE0650	05/21/24	05/25/24	EPA 6020B	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 3 4FT
2403331-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.96	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.61	0.400	"	"	"	"	"	"	
Lead	6.77	0.200	"	"	"	"	"	"	
Nickel	3.73	0.400	"	"	"	"	"	"	
Silver	0.0321	0.0200	"	"	"	"	"	"	
Zinc	16.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	56.3	0.0500	mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	9.78	0.0500	"	"	"	"	"	"	
Sodium	34.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 3 4FT
2403331-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.11	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.4		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.760	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN

Project Manager: Paul Henchan

Reported:

06/20/24 10:07

BKG 3 4FT
2403331-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	103	0.400		mg/kg dry	1	BHE0650	05/21/24	05/25/24	EPA 6020B	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 4 1FT
2403331-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.92	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	0.570	0.400	"	"	"	"	"	"	
Lead	4.77	0.200	"	"	"	"	"	"	
Nickel	1.01	0.400	"	"	"	"	"	"	
Silver	0.0285	0.0200	"	"	"	"	"	"	
Zinc	5.45	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	40.2	0.0500	mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	14.1	0.0500	"	"	"	"	"	"	
Sodium	54.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 4 1FT
2403331-10 (Soil)

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Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.88	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.4		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.813	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.59		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Lower Latham (Backgrounds) Project Number: UWRWE-A2455-ABN Project Manager: Paul Henchan	Reported: 06/20/24 10:07
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BKG 4 1FT
2403331-10 (Soil)

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Total Metals by EPA 6020B

Date Sampled: 03/19/24 00:00									
Analyte	Reporting								
	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	57.4	0.400	mg/kg dry	1	BHE0650	05/21/24	05/25/24	EPA 6020B	

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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 4 3FT
2403331-11 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.34	0.200		mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	52.8	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	0.566	0.400		"	"	"	"	"	"	
Lead	5.01	0.200		"	"	"	"	"	"	
Nickel	1.04	0.400		"	"	"	"	"	"	
Silver	0.0271	0.0200		"	"	"	"	"	"	
Zinc	5.62	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	46.5	0.0500		mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	17.8	0.0500		"	"	"	"	"	"	
Sodium	75.1	0.0500		"	"	"	"	"	"	

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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 4 3FT
2403331-11 (Soil)

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Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.37	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.1		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.04	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.34		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 4 4FT
2403331-12 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	4.08	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	0.580	0.400	"	"	"	"	"	"	
Lead	5.18	0.200	"	"	"	"	"	"	
Nickel	1.05	0.400	"	"	"	"	"	"	
Silver	0.0299	0.0200	"	"	"	"	"	"	
Zinc	5.27	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	44.7	0.0500	mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	17.0	0.0500	"	"	"	"	"	"	
Sodium	65.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

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PO Box 1289
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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 4 4FT
2403331-12 (Soil)

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Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.11	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.4		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.970	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 4 4FT
2403331-12 (Soil)

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Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Barium	62.1	0.400		mg/kg dry	1	BHE0650	05/21/24	05/25/24	EPA 6020B	

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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 5 1FT
2403331-13 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	4.73	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	109	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.13	0.400	"	"	"	"	"	"	
Lead	6.85	0.200	"	"	"	"	"	"	
Nickel	3.96	0.400	"	"	"	"	"	"	
Silver	0.0351	0.0200	"	"	"	"	"	"	
Zinc	16.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	104	0.0500	mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	16.1	0.0500	"	"	"	"	"	"	
Sodium	54.4	0.0500	"	"	"	"	"	"	

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Fremont Environmental
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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 5 1FT
2403331-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.31	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.5		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.21	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 5 3FT
2403331-14 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.65	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.17	0.400	"	"	"	"	"	"	
Lead	5.07	0.200	"	"	"	"	"	"	
Nickel	1.55	0.400	"	"	"	"	"	"	
Silver	0.0300	0.0200	"	"	"	"	"	"	
Zinc	7.29	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	100	0.0500	mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	26.9	0.0500	"	"	"	"	"	"	
Sodium	95.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 5 3FT
2403331-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.19	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.6		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.60	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.05		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Lower Latham (Backgrounds) Project Number: UWRWE-A2455-ABN Project Manager: Paul Henchan	Reported: 06/20/24 10:07
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BKG 5 3FT
2403331-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: 03/19/24 00:00									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	67.9	0.362	mg/kg dry	1	BHE0650	05/21/24	05/25/24	EPA 6020B	

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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 5 4FT
2403331-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHC0869	03/22/24	05/11/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	4.08	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B	
Barium	57.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	0.695	0.400	"	"	"	"	"	"	
Lead	4.99	0.200	"	"	"	"	"	"	
Nickel	1.14	0.400	"	"	"	"	"	"	
Silver	0.0320	0.0200	"	"	"	"	"	"	
Zinc	6.17	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0853	03/22/24	03/29/24	EPA 7196A	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	60.0	0.0500	mg/L dry	1	BHD0111	04/03/24	04/05/24	EPA 6020B	
Magnesium	25.0	0.0500	"	"	"	"	"	"	
Sodium	93.7	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

BKG 5 4FT
2403331-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.56	0.00100	units	1	BHD0205	04/06/24	04/06/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.2		%	1	BHC0850	03/22/24	03/28/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.33	0.0100	mmhos/cm	1	BHD0112	04/03/24	04/05/24	EPA 120.1	

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

Date Sampled: **03/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.26		pH Units	1	BHD0113	04/03/24	04/05/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

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 BHC0869 - EPA 3050B

Blank (BHC0869-BLK1)

Prepared: 03/22/24 Analyzed: 05/11/24

Boron ND 2.00 mg/L

LCS (BHC0869-BS1)

Prepared: 03/22/24 Analyzed: 05/11/24

Boron 4.93 2.00 mg/L 5.00 98.6 80-120

Duplicate (BHC0869-DUP1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 05/11/24

Boron 0.233 2.00 mg/L 0.155 40.5 20 QR-01

Matrix Spike (BHC0869-MS1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 05/11/24

Boron 4.86 2.00 mg/L 5.00 0.155 94.1 75-125

Matrix Spike Dup (BHC0869-MSD1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 05/11/24

Boron 4.88 2.00 mg/L 5.00 0.155 94.5 75-125 0.455 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

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 BHC0862 - EPA 3050B

Blank (BHC0862-BLK1)

Prepared: 03/22/24 Analyzed: 04/04/24

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 (BHC0862-BS1)

Prepared: 03/22/24 Analyzed: 04/04/24

Arsenic	37.8	0.200	mg/kg wet	40.0	94.5	80-120
Barium	38.6	0.400	"	40.0	96.4	80-120
Cadmium	1.96	0.200	"	2.00	98.0	80-120
Copper	41.9	0.400	"	40.0	105	80-120
Lead	19.3	0.200	"	20.0	96.6	80-120
Nickel	41.4	0.400	"	40.0	104	80-120
Silver	1.95	0.0200	"	2.00	97.5	80-120
Zinc	41.6	0.400	"	40.0	104	80-120
Selenium	3.81	0.260	"	4.00	95.3	80-120

Duplicate (BHC0862-DUP1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 04/04/24

Arsenic	3.59	0.200	mg/kg dry	2.70	28.3	20	QR-04
Barium	71.7	0.400	"	66.0	8.36	20	
Cadmium	0.140	0.200	"	0.131	6.70	20	
Copper	3.87	0.400	"	3.50	9.97	20	
Lead	12.4	0.200	"	9.59	25.6	20	QR-04
Nickel	3.21	0.400	"	2.61	20.7	20	QR-01
Silver	0.0358	0.0200	"	0.0242	38.8	20	QR-01
Zinc	15.6	0.400	"	13.7	13.1	20	
Selenium	0.183	0.260	"	ND	200	20	QR-01

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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

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 BHC0862 - EPA 3050B

Matrix Spike (BHC0862-MS1)		Source: 2403331-01			Prepared: 03/22/24 Analyzed: 04/04/24					
Arsenic	42.8	0.200	mg/kg dry	43.2	2.70	92.9	75-125			
Barium	103	0.400	"	43.2	66.0	85.5	75-125			
Cadmium	2.30	0.200	"	2.16	0.131	100	75-125			
Copper	35.5	0.400	"	43.2	3.50	74.1	75-125			QM-05
Lead	36.1	0.200	"	21.6	9.59	123	75-125			
Nickel	34.4	0.400	"	43.2	2.61	73.8	75-125			QM-05
Silver	2.14	0.0200	"	2.16	0.0242	97.9	75-125			
Zinc	47.0	0.400	"	43.2	13.7	77.2	75-125			
Selenium	3.64	0.260	"	4.32	ND	84.2	75-125			

Matrix Spike Dup (BHC0862-MSD1)		Source: 2403331-01			Prepared: 03/22/24 Analyzed: 04/04/24					
Arsenic	43.4	0.200	mg/kg dry	43.2	2.70	94.3	75-125	1.42	25	
Barium	102	0.400	"	43.2	66.0	83.1	75-125	0.996	25	
Cadmium	2.27	0.200	"	2.16	0.131	99.1	75-125	1.12	25	
Copper	35.1	0.400	"	43.2	3.50	73.2	75-125	1.12	25	QM-05
Lead	36.0	0.200	"	21.6	9.59	122	75-125	0.308	25	
Nickel	34.0	0.400	"	43.2	2.61	72.8	75-125	1.24	25	QM-05
Silver	2.12	0.0200	"	2.16	0.0242	97.1	75-125	0.750	25	
Zinc	46.2	0.400	"	43.2	13.7	75.2	75-125	1.79	25	
Selenium	3.62	0.260	"	4.32	ND	83.9	75-125	0.428	25	

Batch BHE0650 - EPA 3050B

Blank (BHE0650-BLK1)		Prepared: 05/21/24 Analyzed: 05/25/24								
Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

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 BHE0650 - EPA 3050B

LCS (BHE0650-BS1)

Prepared: 05/21/24 Analyzed: 05/25/24

Arsenic	36.4	0.200	mg/kg wet	38.2		95.4	80-120			
Barium	38.9	0.400	"	38.2		102	80-120			
Cadmium	2.01	0.200	"	1.91		105	80-120			
Copper	41.6	0.400	"	38.2		109	80-120			
Lead	19.5	0.200	"	19.1		102	80-120			
Nickel	41.3	0.400	"	38.2		108	80-120			
Silver	1.99	0.0200	"	1.91		104	80-120			
Zinc	41.9	0.400	"	38.2		110	80-120			
Selenium	4.21	0.260	"	3.82		110	80-120			

Duplicate (BHE0650-DUP1)

Source: 2403331-01RE1

Prepared: 05/21/24 Analyzed: 05/25/24

Arsenic	2.32	0.200	mg/kg dry		2.41			3.96	20	
Barium	58.5	0.400	"		58.4			0.169	20	
Cadmium	0.0980	0.200	"		0.0958			2.23	20	
Copper	3.35	0.400	"		3.36			0.231	20	
Lead	8.31	0.200	"		7.71			7.45	20	
Nickel	2.65	0.400	"		2.48			6.81	20	
Silver	0.0199	0.0200	"		0.0216			8.33	20	
Zinc	13.7	0.400	"		12.5			8.55	20	
Selenium	ND	0.260	"		ND				20	

Matrix Spike (BHE0650-MS1)

Source: 2403331-01RE1

Prepared: 05/21/24 Analyzed: 05/25/24

Arsenic	41.1	0.200	mg/kg dry	40.9	2.41	94.7	75-125			
Barium	101	0.400	"	40.9	58.4	105	75-125			
Cadmium	2.26	0.200	"	2.04	0.0958	106	75-125			
Copper	32.5	0.400	"	40.9	3.36	71.3	75-125			QM-07
Lead	30.2	0.200	"	20.4	7.71	110	75-125			
Nickel	31.5	0.400	"	40.9	2.48	71.0	75-125			QM-07
Silver	2.14	0.0200	"	2.04	0.0216	103	75-125			
Zinc	42.9	0.400	"	40.9	12.5	74.4	75-125			QM-07
Selenium	4.72	0.260	"	4.09	ND	116	75-125			

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Fremont Environmental
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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

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 BHE0650 - EPA 3050B

Matrix Spike Dup (BHE0650-MSD1)

Source: 2403331-01RE1

Prepared: 05/21/24 Analyzed: 05/25/24

Arsenic	43.3	0.200	mg/kg dry	43.2	2.41	94.7	75-125	5.13	25	
Barium	121	0.400	"	43.2	58.4	145	75-125	17.5	25	QM-07
Cadmium	2.43	0.200	"	2.16	0.0958	108	75-125	7.51	25	
Copper	34.6	0.400	"	43.2	3.36	72.4	75-125	6.31	25	QM-07
Lead	32.3	0.200	"	21.6	7.71	114	75-125	6.69	25	
Nickel	33.8	0.400	"	43.2	2.48	72.7	75-125	7.15	25	QM-07
Silver	2.29	0.0200	"	2.16	0.0216	105	75-125	6.76	25	
Zinc	46.1	0.400	"	43.2	12.5	77.8	75-125	7.14	25	
Selenium	4.74	0.260	"	4.32	ND	110	75-125	0.444	25	

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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

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 BHC0853 - 3060A Mod

Blank (BHC0853-BLK1)

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHC0853-BS1)

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent 24.6 0.30 mg/kg wet 25.0 98.2 80-120

Duplicate (BHC0853-DUP1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHC0853-MS1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent 27.6 0.30 mg/kg dry 27.0 ND 102 75-125

Matrix Spike Dup (BHC0853-MSD1)

Source: 2403331-01

Prepared: 03/22/24 Analyzed: 03/29/24

Chromium, Hexavalent 27.6 0.30 mg/kg dry 27.0 ND 102 75-125 0.00 20

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Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

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 BHD0111 - General Preparation

Blank (BHD0111-BLK1)

Prepared: 04/03/24 Analyzed: 04/05/24

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

LCS (BHD0111-BS1)

Prepared: 04/03/24 Analyzed: 04/05/24

Calcium	4.93	0.0500	mg/L wet	5.00	98.7	70-130
Magnesium	4.92	0.0500	"	5.00	98.4	70-130
Sodium	4.95	0.0500	"	5.00	98.9	70-130

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Fremont Environmental	Project: Noble - Lower Latham (Backgrounds)	
PO Box 1289	Project Number: UWRWE-A2455-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	06/20/24 10:07

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

Summit Scientific

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

Batch BHC0850 - General Preparation

Duplicate (BHC0850-DUP1)		Source: 2403331-01		Prepared: 03/22/24 Analyzed: 03/28/24						
% Solids	91.7		%		92.7			1.06	20	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

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 BHD0112 - General Preparation

Blank (BHD0112-BLK1)

Prepared: 04/03/24 Analyzed: 04/05/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0112-BS1)

Prepared: 04/03/24 Analyzed: 04/05/24

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 105 95-105

Duplicate (BHD0112-DUP1)

Source: 2403331-01

Prepared: 04/03/24 Analyzed: 04/05/24

Specific Conductance (EC) 0.410 0.0100 mmhos/cm 0.415 1.14 20

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

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 BHD0113 - General Preparation

LCS (BHD0113-BS1)

Prepared: 04/03/24 Analyzed: 04/05/24

pH	9.14	pH Units	9.18	99.6	95-105
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Duplicate (BHD0113-DUP1)

Source: 2403331-01

Prepared: 04/03/24 Analyzed: 04/05/24

pH	8.53	pH Units	8.63	1.17	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham (Backgrounds)

Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
06/20/24 10:07

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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