

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 22, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Lower Latham Multi FL

Work Order #2403336

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 "Natalie Tessier". The signature is fluid and cursive, with the first name being more prominent.

Natalie Tessier For Paul Shrewsbury

President



Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Lower Latham Multi FL Project Number: UWRWE-A2455-ABN Project Manager: Paul Henchan	Reported: 05/22/24 10:30
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
2-8G, 1-32D, 2-22D FL02 3FT	2403336-01	Soil	03/19/24 00:00	03/21/24 16:30
2-8G, 1-32D, 2-22D FL05 3FT	2403336-02	Soil	03/19/24 00:00	03/21/24 16:30
02-01G Combi Trench 3FT	2403336-03	Soil	03/19/24 00:00	03/21/24 16:30

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2403336	

Send Data To:		Send Invoice To:
Client: Fremont Environmental, Inc.	Project Manager: Henghan	Company: Chevron
Address: 8305 6th St.	E-Mail: Chevron Dist. List, PDC Dist. List, Civitas Dist. List	Project Name/Location:
City/State/Zip: Wellington, CO, 80549	Fremont Dist. List (@fremontenv.com): paulH, ethanB, nickL, mikeG, jeffG, chrisL, stanG, saronO	AFE#:
Phone: 603-477-6907	Project Name: Noble - Lower Latham Multi: FL	PO/Billing Codes: UWRWE - A2455-ABU
Sampler Name: Ethan Black	Project Number:	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	2-8G 2-8G, 1-32D, 2-22D FLOS 3FT		3/19/24	2			X			X			X	X	X	X	X	X			
2	2-8G, 1-32D, 2-22D FLOS 3FT		↓	2			↓			↓			↓	↓	↓	↓	↓	↓			
3	02-01G Comb Trench 3FT		↓	2			↓			↓			↓	↓	↓	↓	↓	↓			
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: <i>Ethan Black</i>	Date/Time: 3/21/24 1500	Received by: S2 - North Office	Date/Time: 3/21/24 1500	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: S2	Date/Time: 3/21/24 1650	Received by: <i>[Signature]</i>	Date/Time: 3/21/24 1620	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 19.1	Corrected Temperature: 0	IR gun #: 1	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2403336Client: FremontClient Project ID: Noble-Lower Lathain multi FLShipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #:

	-			
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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"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	all good
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):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.AS
Custodian Printed Name3/21/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

2-8G, 1-32D, 2-22D FL02 3FT
2403336-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHC0938	03/25/24	03/26/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0384	96.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0408	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0396	99.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0935	03/25/24	03/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	5.25	42.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2-8G, 1-32D, 2-22D FL02 3FT
2403336-01 (Soil)

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PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0901	03/25/24	03/26/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0254	76.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0211	63.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0868	03/22/24	05/14/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

2-8G, 1-32D, 2-22D FL02 3FT
2403336-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.30	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B
Barium	81.2	0.400	"	"	"	"	"	"
Cadmium	0.218	0.200	"	"	"	"	"	"
Copper	3.48	0.400	"	"	"	"	"	"
Lead	8.00	0.200	"	"	"	"	"	"
Nickel	4.04	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	20.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0854	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	132	0.0500	mg/L dry	1	BHD0150	04/04/24	05/21/24	EPA 6020B	
Magnesium	57.8	0.0500	"	"	"	"	"	"	
Sodium	89.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.63	0.00100	units	1	BHE0676	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project Manager: Paul Henchan

Reported:
05/22/24 10:30

2-8G, 1-32D, 2-22D FL02 3FT
2403336-01 (Soil)

Summit Scientific

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)	1.88	0.0100	mmhos/cm	1	BHD0152	04/04/24	04/08/24	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	7.83		pH Units	1	BHD0151	04/04/24	04/08/24	EPA 9045D	

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Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

2-8G, 1-32D, 2-22D FL05 3FT
2403336-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0938	03/25/24	03/26/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0358	89.5 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0409	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0935	03/25/24	03/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	5.05	40.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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

Reported:
05/22/24 10:30

2-8G, 1-32D, 2-22D FL05 3FT
2403336-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0901	03/25/24	03/26/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0199	59.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0191	57.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0868	03/22/24	05/14/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

2-8G, 1-32D, 2-22D FL05 3FT
2403336-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	4.23	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B
Barium	126	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.43	0.400	"	"	"	"	"	"
Lead	7.01	0.200	"	"	"	"	"	"
Nickel	3.31	0.400	"	"	"	"	"	"
Silver	0.0365	0.0200	"	"	"	"	"	"
Zinc	15.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0854	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	89.3	0.0500	mg/L dry	1	BHD0150	04/04/24	05/21/24	EPA 6020B	
Magnesium	14.7	0.0500	"	"	"	"	"	"	
Sodium	43.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.12	0.00100	units	1	BHE0676	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

2-8G, 1-32D, 2-22D FL05 3FT
2403336-02 (Soil)

Summit Scientific

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	93.1		%	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)	1.05	0.0100	mmhos/cm	1	BHD0152	04/04/24	04/08/24	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	8.07		pH Units	1	BHD0151	04/04/24	04/08/24	EPA 9045D	

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Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

02-01G Combi Trench 3FT
2403336-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHC0938	03/25/24	03/26/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0375	93.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHC0935	03/25/24	03/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	4.86	38.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

02-01G Combi Trench 3FT
2403336-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHC0901	03/25/24	03/26/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0220	65.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0192	57.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHC0868	03/22/24	05/14/24	EPA 6020B	

Total Metals by EPA 6020B

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

02-01G Combi Trench 3FT
2403336-03 (Soil)

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Total Metals by EPA 6020B

Arsenic	2.45	0.200	mg/kg dry	1	BHC0862	03/22/24	04/04/24	EPA 6020B
Barium	121	0.400	"	"	"	"	"	"
Cadmium	0.230	0.200	"	"	"	"	"	"
Copper	3.66	0.400	"	"	"	"	"	"
Lead	7.84	0.200	"	"	"	"	"	"
Nickel	4.29	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	19.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHC0854	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 Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	98.2	0.0500	mg/L dry	1	BHD0150	04/04/24	05/21/24	EPA 6020B	
Magnesium	15.8	0.0500	"	"	"	"	"	"	
Sodium	2.51	0.0500	"	"	"	"	"	"	

Calculated Analysis

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0620	0.00100	units	1	BHE0676	05/22/24	05/22/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

02-01G Combi Trench 3FT
2403336-03 (Soil)

Summit Scientific

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)	0.219	0.0100	mmhos/cm	1	BHD0152	04/04/24	04/08/24	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	BHD0151	04/04/24	04/08/24	EPA 9045D	

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Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHC0938 - EPA 5030 Soil MS

Blank (BHC0938-BLK1)

Prepared: 03/25/24 Analyzed: 03/26/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0375		"	0.0400		93.7	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.4	50-150			

LCS (BHC0938-BS1)

Prepared: 03/25/24 Analyzed: 03/26/24

Benzene	0.111	0.0020	mg/kg	0.100		111	70-130			
Toluene	0.105	0.0050	"	0.100		105	70-130			
Ethylbenzene	0.0914	0.0050	"	0.100		91.4	70-130			
m,p-Xylene	0.186	0.010	"	0.200		93.0	70-130			
o-Xylene	0.0898	0.0050	"	0.100		89.8	70-130			
1,2,4-Trimethylbenzene	0.0850	0.0050	"	0.100		85.0	70-130			
1,3,5-Trimethylbenzene	0.0865	0.0050	"	0.100		86.5	70-130			
Naphthalene	0.0765	0.0038	"	0.100		76.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0372		"	0.0400		93.1	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.0	50-150			

Matrix Spike (BHC0938-MS1)

Source: 2403327-01

Prepared: 03/25/24 Analyzed: 03/26/24

Benzene	0.0989	0.0020	mg/kg	0.100	ND	98.9	70-130			
Toluene	0.0947	0.0050	"	0.100	ND	94.7	70-130			
Ethylbenzene	0.0852	0.0050	"	0.100	ND	85.2	70-130			
m,p-Xylene	0.171	0.010	"	0.200	ND	85.6	70-130			
o-Xylene	0.0828	0.0050	"	0.100	ND	82.8	70-130			
1,2,4-Trimethylbenzene	0.0778	0.0050	"	0.100	ND	77.8	70-130			
1,3,5-Trimethylbenzene	0.0788	0.0050	"	0.100	ND	78.8	70-130			
Naphthalene	0.0630	0.0038	"	0.100	ND	63.0	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0377		"	0.0400		94.3	50-150			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0405		"	0.0400		101	50-150			

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PO Box 1289
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Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BHC0938 - EPA 5030 Soil MS

Matrix Spike Dup (BHC0938-MSD1)	Source: 2403327-01			Prepared: 03/25/24 Analyzed: 03/26/24						
Benzene	0.0991	0.0020	mg/kg	0.100	ND	99.1	70-130	0.182	30	
Toluene	0.0941	0.0050	"	0.100	ND	94.1	70-130	0.699	30	
Ethylbenzene	0.0853	0.0050	"	0.100	ND	85.3	70-130	0.0352	30	
m,p-Xylene	0.171	0.010	"	0.200	ND	85.3	70-130	0.386	30	
o-Xylene	0.0831	0.0050	"	0.100	ND	83.1	70-130	0.434	30	
1,2,4-Trimethylbenzene	0.0761	0.0050	"	0.100	ND	76.1	70-130	2.22	30	
1,3,5-Trimethylbenzene	0.0794	0.0050	"	0.100	ND	79.4	70-130	0.796	30	
Naphthalene	0.0606	0.0038	"	0.100	ND	60.6	70-130	3.88	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0369		"	0.0400		92.2	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.0	50-150			

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PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHC0935 - EPA 3550A

Blank (BHC0935-BLK1)

Prepared: 03/25/24 Analyzed: 03/27/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	6.15		"	12.5		49.2	30-150			

LCS (BHC0935-BS1)

Prepared: 03/25/24 Analyzed: 03/27/24

C10-C28 (DRO)	484	50	mg/kg	500		96.9	70-130			
Surrogate: o-Terphenyl	5.21		"	12.5		41.7	30-150			

Matrix Spike (BHC0935-MS1)

Source: 2403327-01

Prepared: 03/25/24 Analyzed: 03/27/24

C10-C28 (DRO)	387	50	mg/kg	500	22.7	72.9	70-130			
Surrogate: o-Terphenyl	4.16		"	12.5		33.3	30-150			

Matrix Spike Dup (BHC0935-MSD1)

Source: 2403327-01

Prepared: 03/25/24 Analyzed: 03/27/24

C10-C28 (DRO)	397	50	mg/kg	500	22.7	74.8	70-130	2.45	20	
Surrogate: o-Terphenyl	4.20		"	12.5		33.6	30-150			

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PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0901 - EPA 5030 Soil MS

Blank (BHC0901-BLK1)

Prepared & Analyzed: 03/25/24

Acenaphthene	ND	0.00500	mg/kg
Anthracene	ND	0.00500	"
Benzo (a) anthracene	ND	0.00500	"
Benzo (a) pyrene	ND	0.00500	"
Benzo (b) fluoranthene	ND	0.00500	"
Benzo (k) fluoranthene	ND	0.00500	"
Chrysene	ND	0.00500	"
Dibenz (a,h) anthracene	ND	0.00500	"
Fluoranthene	ND	0.00500	"
Fluorene	ND	0.00500	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"
Pyrene	ND	0.00500	"
1-Methylnaphthalene	ND	0.00500	"
2-Methylnaphthalene	ND	0.00500	"

Surrogate: 2-Methylnaphthalene-d10	0.0424	"	0.0333	127	40-150
Surrogate: Fluoranthene-d10	0.0304	"	0.0333	91.3	40-150

LCS (BHC0901-BS1)

Prepared & Analyzed: 03/25/24

Acenaphthene	0.0267	0.00500	mg/kg	0.0333	80.2	31-137
Anthracene	0.0212	0.00500	"	0.0333	63.6	30-120
Benzo (a) anthracene	0.0161	0.00500	"	0.0333	48.4	30-120
Benzo (a) pyrene	0.0187	0.00500	"	0.0333	56.0	30-120
Benzo (b) fluoranthene	0.0233	0.00500	"	0.0333	70.0	30-120
Benzo (k) fluoranthene	0.0280	0.00500	"	0.0333	84.0	30-120
Chrysene	0.0237	0.00500	"	0.0333	71.2	30-120
Dibenz (a,h) anthracene	0.0282	0.00500	"	0.0333	84.5	30-120
Fluoranthene	0.0271	0.00500	"	0.0333	81.4	30-120
Fluorene	0.0279	0.00500	"	0.0333	83.7	30-120
Indeno (1,2,3-cd) pyrene	0.0212	0.00500	"	0.0333	63.7	30-120
Pyrene	0.0281	0.00500	"	0.0333	84.4	35-142
1-Methylnaphthalene	0.0140	0.00500	"	0.0333	42.0	35-142
2-Methylnaphthalene	0.0180	0.00500	"	0.0333	53.9	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0279	"	0.0333	83.6	40-150
Surrogate: Fluoranthene-d10	0.0278	"	0.0333	83.3	40-150

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Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHC0901 - EPA 5030 Soil MS

Matrix Spike (BHC0901-MS1)

Source: 2403322-01

Prepared: 03/25/24 Analyzed: 03/26/24

Acenaphthene	0.0259	0.00500	mg/kg	0.0333	ND	77.8	31-137		
Anthracene	0.0257	0.00500	"	0.0333	ND	77.2	30-120		
Benzo (a) anthracene	0.0275	0.00500	"	0.0333	ND	82.4	30-120		
Benzo (a) pyrene	0.0280	0.00500	"	0.0333	ND	83.9	30-120		
Benzo (b) fluoranthene	0.0273	0.00500	"	0.0333	ND	82.0	30-120		
Benzo (k) fluoranthene	0.0256	0.00500	"	0.0333	ND	76.9	30-120		
Chrysene	0.0252	0.00500	"	0.0333	ND	75.6	30-120		
Dibenz (a,h) anthracene	0.0220	0.00500	"	0.0333	ND	66.1	30-120		
Fluoranthene	0.0259	0.00500	"	0.0333	ND	77.6	30-120		
Fluorene	0.0262	0.00500	"	0.0333	ND	78.7	30-120		
Indeno (1,2,3-cd) pyrene	0.0214	0.00500	"	0.0333	ND	64.2	30-120		
Pyrene	0.0273	0.00500	"	0.0333	ND	82.0	35-142		
1-Methylnaphthalene	0.0399	0.00500	"	0.0333	ND	120	15-130		
2-Methylnaphthalene	0.0346	0.00500	"	0.0333	ND	104	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0430		"	0.0333		129	40-150		
Surrogate: Fluoranthene-d10	0.0265		"	0.0333		79.6	40-150		

Matrix Spike Dup (BHC0901-MSD1)

Source: 2403322-01

Prepared: 03/25/24 Analyzed: 03/26/24

Acenaphthene	0.0246	0.00500	mg/kg	0.0333	ND	73.7	31-137	5.35	30
Anthracene	0.0234	0.00500	"	0.0333	ND	70.1	30-120	9.60	30
Benzo (a) anthracene	0.0252	0.00500	"	0.0333	ND	75.5	30-120	8.70	30
Benzo (a) pyrene	0.0261	0.00500	"	0.0333	ND	78.3	30-120	6.87	30
Benzo (b) fluoranthene	0.0246	0.00500	"	0.0333	ND	73.7	30-120	10.7	30
Benzo (k) fluoranthene	0.0227	0.00500	"	0.0333	ND	68.0	30-120	12.2	30
Chrysene	0.0229	0.00500	"	0.0333	ND	68.6	30-120	9.75	30
Dibenz (a,h) anthracene	0.0206	0.00500	"	0.0333	ND	61.9	30-120	6.54	30
Fluoranthene	0.0229	0.00500	"	0.0333	ND	68.6	30-120	12.2	30
Fluorene	0.0244	0.00500	"	0.0333	ND	73.3	30-120	7.21	30
Indeno (1,2,3-cd) pyrene	0.0202	0.00500	"	0.0333	ND	60.5	30-120	5.83	30
Pyrene	0.0248	0.00500	"	0.0333	ND	74.5	35-142	9.60	30
1-Methylnaphthalene	0.0412	0.00500	"	0.0333	ND	124	15-130	3.22	50
2-Methylnaphthalene	0.0429	0.00500	"	0.0333	ND	129	15-130	21.4	50
Surrogate: 2-Methylnaphthalene-d10	0.0374		"	0.0333		112	40-150		
Surrogate: Fluoranthene-d10	0.0234		"	0.0333		70.3	40-150		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

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 BHC0868 - EPA 3050B

Blank (BHC0868-BLK1)

Prepared: 03/22/24 Analyzed: 05/13/24

Boron ND 2.00 mg/L

LCS (BHC0868-BS1)

Prepared: 03/22/24 Analyzed: 05/13/24

Boron 5.19 2.00 mg/L 5.00 104 80-120

Duplicate (BHC0868-DUP1)

Source: 2403326-01

Prepared: 03/22/24 Analyzed: 05/13/24

Boron 0.214 2.00 mg/L 0.294 31.9 20 QR-01

Matrix Spike (BHC0868-MS1)

Source: 2403326-01

Prepared: 03/22/24 Analyzed: 05/13/24

Boron 5.59 2.00 mg/L 5.00 0.294 106 75-125

Matrix Spike Dup (BHC0868-MSD1)

Source: 2403326-01

Prepared: 03/22/24 Analyzed: 05/13/24

Boron 5.80 2.00 mg/L 5.00 0.294 110 75-125 3.79 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

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

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

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	

Post Spike (BHC0862-PS1)		Source: 2403331-01			Prepared: 03/22/24 Analyzed: 04/04/24					
Arsenic	105		ug/l	100	6.26	99.2	75-125			
Barium	254		"	100	153	101	75-125			
Cadmium	5.35		"	5.00	0.303	101	75-125			
Copper	82.2		"	100	8.12	74.1	75-125			QM-01
Lead	72.0		"	50.0	22.2	99.6	75-125			
Nickel	80.0		"	100	6.05	73.9	75-125			QM-01
Silver	5.11		"	5.00	0.0560	101	75-125			
Zinc	106		"	100	31.8	74.0	75-125			QM-01
Selenium	9.17		"	10.0	0.260	89.1	75-125			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

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 BHC0854 - 3060A Mod

Blank (BHC0854-BLK1)

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

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHC0854-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 (BHC0854-DUP1)

Source: 2403326-01

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

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHC0854-MS1)

Source: 2403326-01

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

Chromium, Hexavalent 28.8 0.30 mg/kg dry 28.5 ND 101 75-125

Matrix Spike Dup (BHC0854-MSD1)

Source: 2403326-01

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

Chromium, Hexavalent 28.8 0.30 mg/kg dry 28.5 ND 101 75-125 0.00 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

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 BHD0150 - General Preparation

Blank (BHD0150-BLK1)

Prepared: 04/04/24 Analyzed: 05/21/24

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

LCS (BHD0150-BS1)

Prepared: 04/04/24 Analyzed: 05/21/24

Calcium	5.67	0.0500	mg/L wet	5.00	113	70-130
Magnesium	4.91	0.0500	"	5.00	98.3	70-130
Sodium	4.82	0.0500	"	5.00	96.4	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL

Project Number: UWRWE-A2455-ABN

Project Manager: Paul Henchan

Reported:
05/22/24 10:30

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

Summit Scientific

Analyte	Result	Reporting			Spike	Source	%REC		RPD		
		Limit	Units	Level	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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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

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 BHD0152 - General Preparation

Blank (BHD0152-BLK1)

Prepared: 04/04/24 Analyzed: 04/08/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHD0152-BS1)

Prepared: 04/04/24 Analyzed: 04/08/24

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

Duplicate (BHD0152-DUP1)

Source: 2403326-01

Prepared: 04/04/24 Analyzed: 04/08/24

Specific Conductance (EC) 0.353 0.0100 mmhos/cm 0.363 2.91 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL
Project Number: UWRWE-A2455-ABN
Project Manager: Paul Henchan

Reported:
05/22/24 10:30

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 BHD0151 - General Preparation

LCS (BHD0151-BS1)

Prepared: 04/04/24 Analyzed: 04/08/24

pH	9.08	pH Units	9.18	98.9	95-105
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Duplicate (BHD0151-DUP1)

Source: 2403326-01

Prepared: 04/04/24 Analyzed: 04/08/24

pH	8.50	pH Units	8.72	2.56	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lower Latham Multi FL

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

Reported:
05/22/24 10:30

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.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
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