

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 written in a cursive, flowing style.

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

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

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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: Henahan	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, christL, stanG, aaronO	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	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested					Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	Metals (Table 915-1)	
1	7807 2-8G, 1-32D, 2-22D FLOS 3FT		3/19/24	2			X					X	X	X	X			
2	2-8G, 1-32D, 2-22D FLOS 3FT			2								X	X	X	X			
3	02-01G Combi Trench 3FT			2								X	X	X	X			
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: S2	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 19	Corrected Temperature: 0	IR gun #: 1	HNO3 lot #:	Standard	X Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2403336

Client: Fremont Client Project ID: Noble-Lower Lathain Multi FL

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

Matrix (Check all that apply) Air [] Soil/Solid [X] 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.	-			
If custody seals are present, are they intact? (1)	-			OK/CE
Are samples due within 48 hours present?		-		
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		-		
Is a chain-of-custody (COC) form present and filled out Completely? (1)	-			no sample times
Is the COC properly relinquished by the client w/ date and time recorded? (1)	-			
Were all samples received intact? (1)	✓			
Was adequate sample volume provided? (1)	✓			
Does the COC agree with the number and type of sample bottles received? (1)	✓			
Do the sample IDs on the bottle labels match the COC? (1)	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
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.			✓	
If samples are acid preserved for metals, is the pH ≤ 2? (1) Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				
(1) If NO, then contact the client before proceeding with analysis and note in case narrative.				

AS
Custodian Printed Name

3/21/24
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	5.25	42.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project Manager: Paul Henchan

Reported:
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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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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

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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**2-8G, 1-32D, 2-22D FL02 3FT
 2403336-01 (Soil)**

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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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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 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	0.0358	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 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	5.05	40.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2-8G, 1-32D, 2-22D FL05 3FT
2403336-02 (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	0.0199	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 Manager: Paul Henchan

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05/22/24 10:30

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

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 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 Number: UWRWE-A2455-ABN
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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 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	0.0375	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 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	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)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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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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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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

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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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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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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 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		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -Terphenyl	4.20		"	12.5		33.6	30-150				

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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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0424</i>		"	<i>0.0333</i>		<i>127</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0304</i>		"	<i>0.0333</i>		<i>91.3</i>	<i>40-150</i>			

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			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0279</i>		"	<i>0.0333</i>		<i>83.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0278</i>		"	<i>0.0333</i>		<i>83.3</i>	<i>40-150</i>			

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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

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

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			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0430</i>		<i>"</i>	<i>0.0333</i>		<i>129</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0265</i>		<i>"</i>	<i>0.0333</i>		<i>79.6</i>	<i>40-150</i>			

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	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0374</i>		<i>"</i>	<i>0.0333</i>		<i>112</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0234</i>		<i>"</i>	<i>0.0333</i>		<i>70.3</i>	<i>40-150</i>			

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

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

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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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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

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			

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

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

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 Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

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
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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

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

Summit Scientific

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

Batch 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

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		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

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	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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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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

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