

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

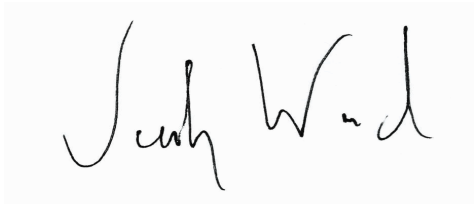
303.277.9310

August 26, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - Branch 1-3  
Work Order #2408153

Enclosed are the results of analyses for samples received by Summit Scientific on 08/15/24 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 - Branch 1-3

Project Number: C022-066

Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01 (2) 10FT	2408153-01	Soil	08/14/24 00:00	08/15/24 16:30
N02 (2) 10FT	2408153-02	Soil	08/14/24 00:00	08/15/24 16:30
N03 (2) 10FT	2408153-03	Soil	08/14/24 00:00	08/15/24 16:30
MW1 6FT	2408153-04	Soil	08/14/24 00:00	08/15/24 16:30
MW1 11FT	2408153-05	Soil	08/14/24 00:00	08/15/24 16:30
MW2 8FT	2408153-06	Soil	08/14/24 00:00	08/15/24 16:30
MW2 17FT	2408153-07	Soil	08/14/24 00:00	08/15/24 16:30
MW3 6FT	2408153-08	Soil	08/14/24 00:00	08/15/24 16:30
MW3 15FT	2408153-09	Soil	08/14/24 00:00	08/15/24 16:30
MW4 8FT	2408153-10	Soil	08/14/24 00:00	08/15/24 16:30
MW4 13FT	2408153-11	Soil	08/14/24 00:00	08/15/24 16:30
MW5 4FT	2408153-12	Soil	08/14/24 00:00	08/15/24 16:30
MW5 14FT	2408153-13	Soil	08/14/24 00:00	08/15/24 16:30

Summit Scientific

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# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2408153	

Client: Fremont Environmental, Inc.		Send Data To:		Send Invoice To:	
Address: 8305 6th St.,		Project Manager: Henshan		Company: Chevron	
City/State/Zip: Wellington, CO, 80549		E-Mail: Chevron Dist. List, POC Dist. List, Oilco Dist. List		Project Name/Location:	
Phone: 603-477-6907		Fremont Dist. List (@fremontenv.com) paulH, ethanB, nickL, mikeG, jeffG, chrisL, stanG, AaronO		AFE#:	
Sampler Name: Ethan Black / Aaron Otillar		Project Name: Noble - Branch 1-3		PO/Billing Codes: UWRWE-A1963	
		Project Number: C072-066		Contact: Dan Peterson	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested								Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, Naphthalene, TMBS	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	Metals (Table 915-1)	TDS, Chloride, Sulfate	
1	N01 (2) 10FT	8/14/24		2															
2	N02 (2) 10FT			2															
3	N03 (2) 10FT			2															
4	MW1 8' 6 FT			2															
5	MW1 11 FT																		
6	MW2 8 FT																		
7	MW2 17 FT																		
8	MW3 6 FT																		
9	MW3 15 FT																		
10	MW4 8 FT																		
11	MW4 13 FT																		
12	MW5 4 FT																		
13	MW5 14 FT																		
14																			
15																			

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>8/14/24 1720</u>	Received by: <u>S2 - North Office</u>	Date/Time: <u>8/14/24 1720</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: <u>S2</u>	Date/Time: <u>8/15/24 1030</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/15/24 1030</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by: <u>S2</u>	Date/Time: <u>8/15/24 1030</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/15/24 1030</u>	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>7.4</u>	Corrected Temperature: <u>7.4</u>	IR gun #:		HNO3 lot #:		

S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2408153Client: Fremont Client Project ID: Noble-Branch 1-3Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

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

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 7.4Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> 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? <sup>(1)</sup>	<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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no sample times
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<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)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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):				

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

AS

Custodian Printed Name

8/15/24  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**N01 (2) 10FT**  
**2408153-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0446	08/16/24	08/17/24	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: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0389	97.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0386	96.5 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0449	08/16/24	08/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.72	69.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**N01 (2) 10FT**  
**2408153-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHH0425	08/16/24	08/16/24	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: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0151	45.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0160	48.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHH0477	08/19/24	08/20/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**N01 (2) 10FT**  
**2408153-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.73	0.200	mg/kg dry	1	BHH0434	08/16/24	08/16/24	EPA 6020B
Barium	102	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	5.85	0.400	"	"	"	"	"	"
Lead	9.04	0.200	"	"	"	"	"	"
Nickel	5.55	0.400	"	"	"	"	"	"
Silver	0.0278	0.0200	"	"	"	"	"	"
Zinc	24.9	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0430	08/16/24	08/16/24	EPA 7196A	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	56.1	0.0500	mg/L dry	1	BHH0513	08/19/24	08/22/24	EPA 6020B	
Magnesium	30.5	0.0500	"	"	"	"	"	"	
Sodium	186	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.97	0.00100	units	1	BHH0704	08/23/24	08/23/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**N01 (2) 10FT**  
**2408153-01 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.3		%	1	BHH0467	08/19/24	08/20/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.11	0.0100	mmhos/cm	1	BHH0515	08/19/24	08/20/24	EPA 120.1	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.14		pH Units	1	BHH0514	08/19/24	08/20/24	EPA 9045D	

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**N02 (2) 10FT**  
**2408153-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0446	08/16/24	08/17/24	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: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0399	99.8 %	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: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0449	08/16/24	08/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.16	65.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Branch 1-3  
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Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**N02 (2) 10FT**  
**2408153-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0425	08/16/24	08/16/24	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: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0160	47.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0170	51.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0477	08/19/24	08/20/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/14/24 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 - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**N02 (2) 10FT**  
**2408153-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.02	0.200	mg/kg dry	1	BHH0434	08/16/24	08/16/24	EPA 6020B
Barium	149	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.24	0.400	"	"	"	"	"	"
Lead	5.14	0.200	"	"	"	"	"	"
Nickel	3.59	0.400	"	"	"	"	"	"
Silver	0.0280	0.0200	"	"	"	"	"	"
Zinc	15.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0430	08/16/24	08/16/24	EPA 7196A	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	133	0.0500	mg/L dry	1	BHH0513	08/19/24	08/22/24	EPA 6020B	
Magnesium	39.2	0.0500	"	"	"	"	"	"	
Sodium	159	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.11	0.00100	units	1	BHH0704	08/23/24	08/23/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**N02 (2) 10FT**  
**2408153-02 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	86.5			%	1	BHH0467	08/19/24	08/20/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.62	0.0100		mmhos/cm	1	BHH0515	08/19/24	08/20/24	EPA 120.1	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.07			pH Units	1	BHH0514	08/19/24	08/20/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**N03 (2) 10FT**  
**2408153-03 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0446	08/16/24	08/17/24	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: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0362	90.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0395	98.8 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0449	08/16/24	08/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.57	68.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**N03 (2) 10FT**  
**2408153-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0425	08/16/24	08/16/24	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: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0166	49.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0165	49.6 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0477	08/19/24	08/20/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**N03 (2) 10FT**  
**2408153-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.92	0.180	mg/kg dry	1	BHH0434	08/16/24	08/16/24	EPA 6020B
Barium	121	0.360	"	"	"	"	"	"
Cadmium	ND	0.180	"	"	"	"	"	"
Copper	3.52	0.360	"	"	"	"	"	"
Lead	4.69	0.180	"	"	"	"	"	"
Nickel	2.98	0.360	"	"	"	"	"	"
Silver	0.0243	0.0180	"	"	"	"	"	"
Zinc	13.2	0.360	"	"	"	"	"	"
Selenium	ND	0.234	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0430	08/16/24	08/16/24	EPA 7196A	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	86.7	0.0500	mg/L dry	1	BHH0513	08/19/24	08/22/24	EPA 6020B	
Magnesium	29.0	0.0500	"	"	"	"	"	"	
Sodium	285	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.77	0.00100	units	1	BHH0704	08/23/24	08/23/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**N03 (2) 10FT**  
**2408153-03 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.2		%	1	BHH0467	08/19/24	08/20/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.92	0.0100	mmhos/cm	1	BHH0515	08/19/24	08/20/24	EPA 120.1	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BHH0514	08/19/24	08/20/24	EPA 9045D	

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW1 6FT**  
**2408153-04 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0446	08/16/24	08/17/24	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: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0422	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0407	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0417	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0449	08/16/24	08/16/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.69	77.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW1 6FT**  
**2408153-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0425	08/16/24	08/16/24	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: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0147	44.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0155	46.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0477	08/19/24	08/20/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW1 6FT**  
**2408153-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.16	0.200	mg/kg dry	1	BHH0434	08/16/24	08/16/24	EPA 6020B
Barium	47.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.46	0.400	"	"	"	"	"	"
Lead	6.20	0.200	"	"	"	"	"	"
Nickel	3.40	0.400	"	"	"	"	"	"
Silver	0.0264	0.0200	"	"	"	"	"	"
Zinc	16.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0430	08/16/24	08/16/24	EPA 7196A	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	165	0.0500	mg/L dry	1	BHH0513	08/19/24	08/22/24	EPA 6020B	
Magnesium	50.0	0.0500	"	"	"	"	"	"	
Sodium	166	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.91	0.00100	units	1	BHH0704	08/23/24	08/23/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Wellington CO, 80549

Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW1 6FT**  
**2408153-04 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	92.7			%	1	BHH0467	08/19/24	08/20/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.91	0.0100		mmhos/cm	1	BHH0515	08/19/24	08/20/24	EPA 120.1	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.77			pH Units	1	BHH0514	08/19/24	08/20/24	EPA 9045D	

Summit Scientific

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW1 11FT**  
**2408153-05 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0446	08/16/24	08/17/24	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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>2.1</b>	0.50	"	"	"	"	"	"	

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0341	85.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0431	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0437	109 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<b>C10-C28 (DRO)</b>	<b>110</b>	50	mg/kg	1	BHH0449	08/16/24	08/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.83	78.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW1 11FT**  
**2408153-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0425	08/16/24	08/16/24	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	<b>0.0113</b>	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	<b>0.0169</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0193	58.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0163	49.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0477	08/19/24	08/20/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW1 11FT**  
**2408153-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	4.62	0.200	mg/kg dry	1	BHH0434	08/16/24	08/16/24	EPA 6020B
Barium	57.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	6.72	0.400	"	"	"	"	"	"
Lead	13.4	0.200	"	"	"	"	"	"
Nickel	6.99	0.400	"	"	"	"	"	"
Silver	0.0273	0.0200	"	"	"	"	"	"
Zinc	32.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0430	08/16/24	08/16/24	EPA 7196A	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	13.6	0.0500	mg/L dry	1	BHH0513	08/19/24	08/22/24	EPA 6020B	
Magnesium	33.4	0.0500	"	"	"	"	"	"	
Sodium	235	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.81	0.00100	units	1	BHH0704	08/23/24	08/23/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Summit Scientific

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW1 11FT**  
**2408153-05 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.4		%	1	BHH0467	08/19/24	08/20/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.30	0.0100	mmhos/cm	1	BHH0515	08/19/24	08/20/24	EPA 120.1	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BHH0514	08/19/24	08/20/24	EPA 9045D	

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW2 8FT**  
**2408153-06 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0446	08/16/24	08/17/24	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: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0393	98.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0420	105 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0449	08/16/24	08/17/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.67	77.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW2 8FT**  
**2408153-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0425	08/16/24	08/16/24	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: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0166	49.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0140	42.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0477	08/19/24	08/20/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW2 8FT**  
**2408153-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.38	0.200	mg/kg dry	1	BHH0434	08/16/24	08/16/24	EPA 6020B
Barium	54.3	0.400	"	"	"	"	"	"
Cadmium	0.203	0.200	"	"	"	"	"	"
Copper	4.16	0.400	"	"	"	"	"	"
Lead	6.37	0.200	"	"	"	"	"	"
Nickel	3.20	0.400	"	"	"	"	"	"
Silver	0.0367	0.0200	"	"	"	"	"	"
Zinc	16.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0430	08/16/24	08/16/24	EPA 7196A	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	296	0.0500	mg/L dry	1	BHH0513	08/19/24	08/22/24	EPA 6020B	
Magnesium	98.4	0.0500	"	"	"	"	"	"	
Sodium	564	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.26	0.00100	units	1	BHH0704	08/23/24	08/23/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW2 8FT**  
**2408153-06 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	91.4	%	1	BHH0467	08/19/24	08/20/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.52	0.0100	mmhos/cm	1	BHH0515	08/19/24	08/20/24	EPA 120.1	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.80		pH Units	1	BHH0514	08/19/24	08/20/24	EPA 9045D	

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW2 17FT**  
**2408153-07 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0446	08/16/24	08/17/24	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: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0331	82.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0415	104 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0449	08/16/24	08/17/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.48	67.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW2 17FT**  
**2408153-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0425	08/16/24	08/16/24	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: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0162	48.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0140	42.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0477	08/19/24	08/20/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW2 17FT**  
**2408153-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.20	0.200	mg/kg dry	1	BHH0434	08/16/24	08/16/24	EPA 6020B
Barium	145	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.52	0.400	"	"	"	"	"	"
Lead	5.65	0.200	"	"	"	"	"	"
Nickel	4.11	0.400	"	"	"	"	"	"
Silver	0.0212	0.0200	"	"	"	"	"	"
Zinc	17.5	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0430	08/16/24	08/16/24	EPA 7196A	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	62.1	0.0500	mg/L dry	1	BHH0513	08/19/24	08/22/24	EPA 6020B	
Magnesium	21.9	0.0500	"	"	"	"	"	"	
Sodium	137	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.81	0.00100	units	1	BHH0704	08/23/24	08/23/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW2 17FT**  
**2408153-07 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.0		%	1	BHH0467	08/19/24	08/20/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.16	0.0100	mmhos/cm	1	BHH0515	08/19/24	08/20/24	EPA 120.1	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BHH0514	08/19/24	08/20/24	EPA 9045D	

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW3 6FT**  
**2408153-08 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0446	08/16/24	08/17/24	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: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0348	87.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0391	97.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0372	92.9 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0449	08/16/24	08/17/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.95	79.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW3 6FT**  
**2408153-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0425	08/16/24	08/16/24	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: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0144	43.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0172	51.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0477	08/19/24	08/20/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/14/24 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 - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW3 6FT**  
**2408153-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.55	0.200	mg/kg dry	1	BHH0434	08/16/24	08/16/24	EPA 6020B
Barium	68.2	0.400	"	"	"	"	"	"
Cadmium	0.210	0.200	"	"	"	"	"	"
Copper	4.42	0.400	"	"	"	"	"	"
Lead	6.12	0.200	"	"	"	"	"	"
Nickel	4.88	0.400	"	"	"	"	"	"
Silver	0.0225	0.0200	"	"	"	"	"	"
Zinc	16.4	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0430	08/16/24	08/16/24	EPA 7196A	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	57.6	0.0500	mg/L dry	1	BHH0513	08/19/24	08/22/24	EPA 6020B	
Magnesium	23.8	0.0500	"	"	"	"	"	"	
Sodium	65.6	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.84	0.00100	units	1	BHH0704	08/23/24	08/23/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/14/24 00:00**

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

Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW3 6FT**  
**2408153-08 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	90.4	%	1	BHH0467	08/19/24	08/20/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.891	0.0100	mmhos/cm	1	BHH0515	08/19/24	08/20/24	EPA 120.1	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.35		pH Units	1	BHH0514	08/19/24	08/20/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW3 15FT**  
**2408153-09 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0446	08/16/24	08/17/24	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: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0347	86.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0396	99.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.8 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0449	08/16/24	08/17/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.46	75.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW3 15FT**  
**2408153-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0425	08/16/24	08/16/24	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: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0146	43.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0144	43.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0477	08/19/24	08/20/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW3 15FT**  
**2408153-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	3.30	0.200	mg/kg dry	1	BHH0434	08/16/24	08/16/24	EPA 6020B
Barium	24.7	0.400	"	"	"	"	"	"
Cadmium	0.224	0.200	"	"	"	"	"	"
Copper	7.10	0.400	"	"	"	"	"	"
Lead	16.4	0.200	"	"	"	"	"	"
Nickel	7.31	0.400	"	"	"	"	"	"
Silver	0.0276	0.0200	"	"	"	"	"	"
Zinc	32.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0430	08/16/24	08/16/24	EPA 7196A	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.4	0.0500	mg/L dry	1	BHH0513	08/19/24	08/22/24	EPA 6020B	
Magnesium	20.8	0.0500	"	"	"	"	"	"	
Sodium	149	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.65	0.00100	units	1	BHH0704	08/23/24	08/23/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW3 15FT**  
**2408153-09 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	80.3	%	1	BHH0467	08/19/24	08/20/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.833	0.0100	mmhos/cm	1	BHH0515	08/19/24	08/20/24	EPA 120.1	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BHH0514	08/19/24	08/20/24	EPA 9045D	

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW4 8FT**  
**2408153-10 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0446	08/16/24	08/17/24	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: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0350	87.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0449	08/16/24	08/17/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.40	75.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW4 8FT**  
**2408153-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHH0425	08/16/24	08/17/24	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: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0149	44.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0164	49.1 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHH0477	08/19/24	08/20/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW4 8FT**  
**2408153-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.09	0.200	mg/kg dry	1	BHH0434	08/16/24	08/16/24	EPA 6020B
Barium	108	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.62	0.400	"	"	"	"	"	"
Lead	4.72	0.200	"	"	"	"	"	"
Nickel	4.27	0.400	"	"	"	"	"	"
Silver	0.0237	0.0200	"	"	"	"	"	"
Zinc	17.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0430	08/16/24	08/16/24	EPA 7196A	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	142	0.0500	mg/L dry	1	BHH0513	08/19/24	08/22/24	EPA 6020B	
Magnesium	46.5	0.0500	"	"	"	"	"	"	
Sodium	196	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.65	0.00100	units	1	BHH0704	08/23/24	08/23/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW4 8FT**  
**2408153-10 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.3		%	1	BHH0467	08/19/24	08/20/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.02	0.0100	mmhos/cm	1	BHH0515	08/19/24	08/20/24	EPA 120.1	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BHH0514	08/19/24	08/20/24	EPA 9045D	

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW4 13FT**  
**2408153-11 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0446	08/16/24	08/17/24	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	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.70</b>	0.50	"	"	"	"	"	"	

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0327	81.7 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0386	96.5 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0449	08/16/24	08/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.88	79.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW4 13FT**  
**2408153-11 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BHH0425	08/16/24	08/17/24	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	"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.00651</b>	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: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0166	49.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0140	42.0 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHH0477	08/19/24	08/20/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW4 13FT**  
**2408153-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	3.63	0.200	mg/kg dry	1	BHH0434	08/16/24	08/16/24	EPA 6020B
Barium	18.9	0.400	"	"	"	"	"	"
Cadmium	0.413	0.200	"	"	"	"	"	"
Copper	6.14	0.400	"	"	"	"	"	"
Lead	12.0	0.200	"	"	"	"	"	"
Nickel	7.34	0.400	"	"	"	"	"	"
Silver	0.0276	0.0200	"	"	"	"	"	"
Zinc	32.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0430	08/16/24	08/16/24	EPA 7196A	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	11.4	0.0500	mg/L dry	1	BHH0513	08/19/24	08/22/24	EPA 6020B	
Magnesium	24.2	0.0500	"	"	"	"	"	"	
Sodium	232	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	8.92	0.00100	units	1	BHH0704	08/23/24	08/23/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/14/24 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 - Branch 1-3

Project Number: C022-066

Project Manager: Paul Henchan

**Reported:**

08/26/24 09:03

**MW4 13FT**  
**2408153-11 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

% Solids	82.2	%	1	BHH0467	08/19/24	08/20/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.20	0.0100	mmhos/cm	1	BHH0515	08/19/24	08/20/24	EPA 120.1	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.72		pH Units	1	BHH0514	08/19/24	08/20/24	EPA 9045D	

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PO Box 1289  
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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW5 4FT**  
**2408153-12 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0446	08/16/24	08/17/24	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: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0335	83.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0449	08/16/24	08/17/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	8.79	70.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW5 4FT**  
**2408153-12 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0425	08/16/24	08/17/24	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: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0153	45.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0142	42.5 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0477	08/19/24	08/20/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/14/24 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 - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW5 4FT**  
**2408153-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.20	0.200	mg/kg dry	1	BHH0434	08/16/24	08/16/24	EPA 6020B
Barium	49.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.09	0.400	"	"	"	"	"	"
Lead	6.49	0.200	"	"	"	"	"	"
Nickel	3.25	0.400	"	"	"	"	"	"
Silver	0.0278	0.0200	"	"	"	"	"	"
Zinc	16.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0430	08/16/24	08/16/24	EPA 7196A	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	138	0.0500	mg/L dry	1	BHH0513	08/19/24	08/22/24	EPA 6020B	
Magnesium	40.6	0.0500	"	"	"	"	"	"	
Sodium	128	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.46	0.00100	units	1	BHH0704	08/23/24	08/23/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW5 4FT**  
**2408153-12 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.5		%	1	BHH0467	08/19/24	08/20/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.53	0.0100	mmhos/cm	1	BHH0515	08/19/24	08/20/24	EPA 120.1	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.90		pH Units	1	BHH0514	08/19/24	08/20/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW5 14FT**  
**2408153-13 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHH0446	08/16/24	08/17/24	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: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0398	99.4 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0449	08/16/24	08/19/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	5.26	42.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW5 14FT**  
**2408153-13 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0425	08/16/24	08/17/24	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: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0139	41.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0141	42.4 %	40-150		"	"	"	"	

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0477	08/19/24	08/20/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Wellington CO, 80549

Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW5 14FT**  
**2408153-13 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	1.51	0.179	mg/kg dry	1	BHH0434	08/16/24	08/16/24	EPA 6020B
Barium	97.0	0.357	"	"	"	"	"	"
Cadmium	ND	0.179	"	"	"	"	"	"
Copper	3.07	0.357	"	"	"	"	"	"
Lead	3.87	0.179	"	"	"	"	"	"
Nickel	2.59	0.357	"	"	"	"	"	"
Silver	0.0182	0.0179	"	"	"	"	"	"
Zinc	11.7	0.357	"	"	"	"	"	"
Selenium	ND	0.232	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0431	08/16/24	08/16/24	EPA 7196A	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	87.0	0.0500	mg/L dry	1	BHH0513	08/19/24	08/22/24	EPA 6020B	
Magnesium	44.5	0.0500	"	"	"	"	"	"	
Sodium	160	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.48	0.00100	units	1	BHH0704	08/23/24	08/23/24	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**MW5 14FT**  
**2408153-13 (Soil)**

**Summit Scientific**

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.3		%	1	BHH0467	08/19/24	08/20/24	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.40	0.0100	mmhos/cm	1	BHH0515	08/19/24	08/20/24	EPA 120.1	

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

Date Sampled: **08/14/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.94		pH Units	1	BHH0514	08/19/24	08/20/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

## 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 BHH0446 - EPA 5030 Soil MS

##### Blank (BHH0446-BLK1)

Prepared: 08/16/24 Analyzed: 08/17/24

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	0.0358		"	0.0400		89.4	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.8	50-150			

##### LCS (BHH0446-BS1)

Prepared: 08/16/24 Analyzed: 08/17/24

Benzene	0.0947	0.0020	mg/kg	0.100		94.7	70-130			
Toluene	0.112	0.0050	"	0.100		112	70-130			
Ethylbenzene	0.0979	0.0050	"	0.100		97.9	70-130			
m,p-Xylene	0.197	0.010	"	0.200		98.5	70-130			
o-Xylene	0.0989	0.0050	"	0.100		98.9	70-130			
1,2,4-Trimethylbenzene	0.0901	0.0050	"	0.100		90.1	70-130			
1,3,5-Trimethylbenzene	0.0881	0.0050	"	0.100		88.1	70-130			
Naphthalene	0.0810	0.0038	"	0.100		81.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0431		"	0.0400		108	50-150			
Surrogate: Toluene-d8	0.0422		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.6	50-150			

##### Matrix Spike (BHH0446-MS1)

Source: 2408153-01

Prepared: 08/16/24 Analyzed: 08/17/24

Benzene	0.0750	0.0020	mg/kg	0.100	ND	75.0	70-130			
Toluene	0.0845	0.0050	"	0.100	ND	84.5	70-130			
Ethylbenzene	0.0805	0.0050	"	0.100	ND	80.5	70-130			
m,p-Xylene	0.160	0.010	"	0.200	ND	79.8	70-130			
o-Xylene	0.0794	0.0050	"	0.100	ND	79.4	70-130			
1,2,4-Trimethylbenzene	0.0680	0.0050	"	0.100	ND	68.0	70-130			QM-07
1,3,5-Trimethylbenzene	0.0675	0.0050	"	0.100	ND	67.5	70-130			QM-07
Naphthalene	0.0580	0.0038	"	0.100	ND	58.0	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0327		"	0.0400		81.8	50-150			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	50-150			

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Fremont Environmental  
PO Box 1289  
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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**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 BHH0446 - EPA 5030 Soil MS**

Matrix Spike Dup (BHH0446-MSD1)		Source: 2408153-01			Prepared: 08/16/24 Analyzed: 08/17/24					
Benzene	0.0722	0.0020	mg/kg	0.100	ND	72.2	70-130	3.91	30	
Toluene	0.0819	0.0050	"	0.100	ND	81.9	70-130	3.14	30	
Ethylbenzene	0.0780	0.0050	"	0.100	ND	78.0	70-130	3.14	30	
m,p-Xylene	0.155	0.010	"	0.200	ND	77.3	70-130	3.11	30	
o-Xylene	0.0769	0.0050	"	0.100	ND	76.9	70-130	3.23	30	
1,2,4-Trimethylbenzene	0.0645	0.0050	"	0.100	ND	64.5	70-130	5.25	30	QM-07
1,3,5-Trimethylbenzene	0.0651	0.0050	"	0.100	ND	65.1	70-130	3.67	30	QM-07
Naphthalene	0.0574	0.0038	"	0.100	ND	57.4	70-130	1.14	30	QM-07
Surrogate: 1,2-Dichloroethane-d4		0.0397	"	0.0400		99.2	50-150			
Surrogate: Toluene-d8		0.0419	"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene		0.0387	"	0.0400		96.8	50-150			

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BHH0449 - EPA 3550A**

**Blank (BHH0449-BLK1)**

Prepared & Analyzed: 08/16/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	13.1		"	12.5	105	30-150				

**LCS (BHH0449-BS1)**

Prepared & Analyzed: 08/16/24

C10-C28 (DRO)	443	50	mg/kg	500	88.6	70-130				
Surrogate: o-Terphenyl	13.5		"	12.5	108	30-150				

**Matrix Spike (BHH0449-MS1)**

Source: 2408153-01

Prepared & Analyzed: 08/16/24

C10-C28 (DRO)	431	50	mg/kg	500	34.7	79.2	70-130			
Surrogate: o-Terphenyl	8.93		"	12.5	71.4	30-150				

**Matrix Spike Dup (BHH0449-MSD1)**

Source: 2408153-01

Prepared & Analyzed: 08/16/24

C10-C28 (DRO)	398	50	mg/kg	500	34.7	72.6	70-130	7.92	20	
Surrogate: o-Terphenyl	9.45		"	12.5	75.6	30-150				

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

## 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 BHH0425 - EPA 5030 Soil MS

##### Blank (BHH0425-BLK1)

Prepared & Analyzed: 08/16/24

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	0.0185		"	0.0333		55.6	40-150			
Surrogate: Fluoranthene-d10	0.0166		"	0.0333		49.7	40-150			

##### LCS (BHH0425-BS1)

Prepared & Analyzed: 08/16/24

Acenaphthene	0.0179	0.00500	mg/kg	0.0333		53.6	31-137			
Anthracene	0.0182	0.00500	"	0.0333		54.7	30-120			
Benzo (a) anthracene	0.0186	0.00500	"	0.0333		55.9	30-120			
Benzo (a) pyrene	0.0172	0.00500	"	0.0333		51.6	30-120			
Benzo (b) fluoranthene	0.0171	0.00500	"	0.0333		51.3	30-120			
Benzo (k) fluoranthene	0.0178	0.00500	"	0.0333		53.3	30-120			
Chrysene	0.0182	0.00500	"	0.0333		54.6	30-120			
Dibenz (a,h) anthracene	0.0158	0.00500	"	0.0333		47.5	30-120			
Fluoranthene	0.0182	0.00500	"	0.0333		54.7	30-120			
Fluorene	0.0182	0.00500	"	0.0333		54.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0165	0.00500	"	0.0333		49.6	30-120			
Pyrene	0.0184	0.00500	"	0.0333		55.1	35-142			
1-Methylnaphthalene	0.0172	0.00500	"	0.0333		51.6	35-142			
2-Methylnaphthalene	0.0160	0.00500	"	0.0333		47.9	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0181		"	0.0333		54.2	40-150			
Surrogate: Fluoranthene-d10	0.0191		"	0.0333		57.4	40-150			

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

## 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 BHH0425 - EPA 5030 Soil MS

##### Matrix Spike (BHH0425-MS1)

Source: 2408135-02

Prepared & Analyzed: 08/16/24

Acenaphthene	0.0159	0.00500	mg/kg	0.0333	ND	47.8	31-137				
Anthracene	0.0160	0.00500	"	0.0333	ND	48.1	30-120				
Benzo (a) anthracene	0.0165	0.00500	"	0.0333	ND	49.5	30-120				
Benzo (a) pyrene	0.0178	0.00500	"	0.0333	ND	53.3	30-120				
Benzo (b) fluoranthene	0.0176	0.00500	"	0.0333	ND	52.9	30-120				
Benzo (k) fluoranthene	0.0177	0.00500	"	0.0333	ND	53.2	30-120				
Chrysene	0.0159	0.00500	"	0.0333	ND	47.7	30-120				
Dibenz (a,h) anthracene	0.0151	0.00500	"	0.0333	ND	45.3	30-120				
Fluoranthene	0.0161	0.00500	"	0.0333	ND	48.3	30-120				
Fluorene	0.0164	0.00500	"	0.0333	ND	49.2	30-120				
Indeno (1,2,3-cd) pyrene	0.0157	0.00500	"	0.0333	ND	47.1	30-120				
Pyrene	0.0171	0.00500	"	0.0333	ND	51.3	35-142				
1-Methylnaphthalene	0.0163	0.00500	"	0.0333	ND	49.0	15-130				
2-Methylnaphthalene	0.0143	0.00500	"	0.0333	ND	43.0	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0158		"	0.0333		47.4	40-150				
Surrogate: Fluoranthene-d10	0.0164		"	0.0333		49.3	40-150				

##### Matrix Spike Dup (BHH0425-MSD1)

Source: 2408135-02

Prepared & Analyzed: 08/16/24

Acenaphthene	0.0192	0.00500	mg/kg	0.0333	ND	57.5	31-137	18.6	30
Anthracene	0.0146	0.00500	"	0.0333	ND	43.9	30-120	9.12	30
Benzo (a) anthracene	0.0155	0.00500	"	0.0333	ND	46.6	30-120	6.06	30
Benzo (a) pyrene	0.0167	0.00500	"	0.0333	ND	50.2	30-120	5.99	30
Benzo (b) fluoranthene	0.0164	0.00500	"	0.0333	ND	49.2	30-120	7.12	30
Benzo (k) fluoranthene	0.0168	0.00500	"	0.0333	ND	50.4	30-120	5.52	30
Chrysene	0.0149	0.00500	"	0.0333	ND	44.8	30-120	6.19	30
Dibenz (a,h) anthracene	0.0146	0.00500	"	0.0333	ND	43.8	30-120	3.20	30
Fluoranthene	0.0147	0.00500	"	0.0333	ND	44.2	30-120	8.88	30
Fluorene	0.0194	0.00500	"	0.0333	ND	58.3	30-120	16.9	30
Indeno (1,2,3-cd) pyrene	0.0148	0.00500	"	0.0333	ND	44.5	30-120	5.81	30
Pyrene	0.0159	0.00500	"	0.0333	ND	47.6	35-142	7.46	30
1-Methylnaphthalene	0.0179	0.00500	"	0.0333	ND	53.7	15-130	9.05	50
2-Methylnaphthalene	0.0158	0.00500	"	0.0333	ND	47.3	15-130	9.43	50
Surrogate: 2-Methylnaphthalene-d10	0.0177		"	0.0333		53.0	40-150		
Surrogate: Fluoranthene-d10	0.0152		"	0.0333		45.6	40-150		

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**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 BHH0477 - EPA 3050B**

**Blank (BHH0477-BLK1)**

Prepared: 08/19/24 Analyzed: 08/20/24

Boron ND 2.00 mg/L

**LCS (BHH0477-BS1)**

Prepared: 08/19/24 Analyzed: 08/20/24

Boron 4.86 2.00 mg/L 5.00 97.1 80-120

**Duplicate (BHH0477-DUP1)**

**Source: 2408153-01**

Prepared: 08/19/24 Analyzed: 08/20/24

Boron 0.292 2.00 mg/L 0.210 33.0 20 QR-01

**Matrix Spike (BHH0477-MS1)**

**Source: 2408153-01**

Prepared: 08/19/24 Analyzed: 08/20/24

Boron 5.24 2.00 mg/L 5.00 0.210 101 75-125

**Matrix Spike Dup (BHH0477-MSD1)**

**Source: 2408153-01**

Prepared: 08/19/24 Analyzed: 08/20/24

Boron 5.42 2.00 mg/L 5.00 0.210 104 75-125 3.46 25

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Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**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 BHH0434 - EPA 3050B**

**Blank (BHH0434-BLK1)**

Prepared & Analyzed: 08/16/24

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 (BHH0434-BS1)**

Prepared & Analyzed: 08/16/24

Arsenic	40.0	0.200	mg/kg wet	40.0	100	80-120
Barium	47.0	0.400	"	40.0	117	80-120
Cadmium	1.89	0.200	"	2.00	94.3	80-120
Copper	39.5	0.400	"	40.0	98.8	80-120
Lead	18.9	0.200	"	20.0	94.6	80-120
Nickel	39.4	0.400	"	40.0	98.5	80-120
Silver	1.92	0.0200	"	2.00	96.0	80-120
Zinc	38.7	0.400	"	40.0	96.6	80-120
Selenium	3.96	0.260	"	4.00	99.1	80-120

**Duplicate (BHH0434-DUP1)**

Source: 2408153-01

Prepared & Analyzed: 08/16/24

Arsenic	3.41	0.200	mg/kg dry	2.73	22.4	20	QR-02
Barium	89.3	0.400	"	102	13.0	20	
Cadmium	0.210	0.200	"	0.185	12.6	20	
Copper	6.66	0.400	"	5.85	12.8	20	
Lead	10.6	0.200	"	9.04	15.6	20	
Nickel	6.38	0.400	"	5.55	13.9	20	
Silver	0.0301	0.0200	"	0.0278	7.76	20	
Zinc	28.8	0.400	"	24.9	14.5	20	
Selenium	ND	0.260	"	ND		20	

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Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**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 BHH0434 - EPA 3050B**

**Matrix Spike (BHH0434-MS1)**

**Source: 2408153-01**

**Prepared & Analyzed: 08/16/24**

Arsenic	27.7	0.180	mg/kg dry	41.7	2.73	60.0	75-125			QM-05
Barium	91.6	0.360	"	41.7	102	NR	75-125			QM-07
Cadmium	2.10	0.180	"	2.08	0.185	91.7	75-125			
Copper	30.3	0.360	"	41.7	5.85	58.6	75-125			QM-05
Lead	25.4	0.180	"	20.8	9.04	78.6	75-125			
Nickel	30.5	0.360	"	41.7	5.55	59.9	75-125			QM-05
Silver	1.96	0.0180	"	2.08	0.0278	92.9	75-125			
Zinc	45.1	0.360	"	41.7	24.9	48.3	75-125			QM-05
Selenium	3.43	0.234	"	4.17	ND	82.2	75-125			

**Matrix Spike Dup (BHH0434-MSD1)**

**Source: 2408153-01**

**Prepared & Analyzed: 08/16/24**

Arsenic	26.1	0.179	mg/kg dry	41.4	2.73	56.6	75-125	5.87	25	QM-05
Barium	101	0.357	"	41.4	102	NR	75-125	9.55	25	QM-07
Cadmium	2.10	0.179	"	2.07	0.185	92.3	75-125	0.00353	25	
Copper	29.2	0.357	"	41.4	5.85	56.3	75-125	3.75	25	QM-05
Lead	25.6	0.179	"	20.7	9.04	80.0	75-125	0.610	25	
Nickel	29.6	0.357	"	41.4	5.55	58.0	75-125	3.18	25	QM-05
Silver	1.90	0.0179	"	2.07	0.0278	90.4	75-125	3.38	25	
Zinc	43.8	0.357	"	41.4	24.9	45.7	75-125	2.74	25	QM-05
Selenium	3.34	0.232	"	4.14	ND	80.8	75-125	2.51	25	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Branch 1-3  
Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**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 BHH0430 - 3060A Mod**

<b>Blank (BHH0430-BLK1)</b>					Prepared & Analyzed: 08/16/24					
Chromium, Hexavalent	ND	0.30	mg/kg wet							
<b>LCS (BHH0430-BS1)</b>					Prepared & Analyzed: 08/16/24					
Chromium, Hexavalent	25.0	0.30	mg/kg wet	25.0		100	80-120			
<b>Duplicate (BHH0430-DUP1)</b>					<b>Source: 2408135-02</b>		Prepared & Analyzed: 08/16/24			
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
<b>Matrix Spike (BHH0430-MS1)</b>					<b>Source: 2408135-02</b>		Prepared & Analyzed: 08/16/24			
Chromium, Hexavalent	26.5	0.30	mg/kg dry	26.5	ND	100	75-125			
<b>Matrix Spike Dup (BHH0430-MSD1)</b>					<b>Source: 2408135-02</b>		Prepared & Analyzed: 08/16/24			
Chromium, Hexavalent	26.0	0.30	mg/kg dry	26.5	ND	98.2	75-125	1.82	20	

**Batch BHH0431 - 3060A Mod**

<b>Blank (BHH0431-BLK1)</b>					Prepared & Analyzed: 08/16/24					
Chromium, Hexavalent	ND	0.30	mg/kg wet							
<b>LCS (BHH0431-BS1)</b>					Prepared & Analyzed: 08/16/24					
Chromium, Hexavalent	25.2	0.30	mg/kg wet	25.0		101	80-120			
<b>Duplicate (BHH0431-DUP1)</b>					<b>Source: 2408153-13</b>		Prepared & Analyzed: 08/16/24			
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND				20	
<b>Matrix Spike (BHH0431-MS1)</b>					<b>Source: 2408153-13</b>		Prepared & Analyzed: 08/16/24			
Chromium, Hexavalent	29.0	0.30	mg/kg dry	29.7	ND	97.8	75-125			

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: C022-066

Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

### Hexavalent Chromium by EPA Method 7196 - Quality Control

#### Summit Scientific

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

#### Batch BHH0431 - 3060A Mod

##### Matrix Spike Dup (BHH0431-MSD1)

Source: 2408153-13

Prepared & Analyzed: 08/16/24

Chromium, Hexavalent	28.3	0.30	mg/kg dry	29.7	ND	95.4	75-125	2.48	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

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

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

**Batch BHH0513 - General Preparation**

**Blank (BHH0513-BLK1)**

Prepared: 08/19/24 Analyzed: 08/22/24

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

**LCS (BHH0513-BS1)**

Prepared: 08/19/24 Analyzed: 08/22/24

Calcium	4.86	0.0500	mg/L wet	5.00	97.1	70-130
Magnesium	4.82	0.0500	"	5.00	96.4	70-130
Sodium	4.79	0.0500	"	5.00	95.8	70-130

Summit Scientific

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Fremont Environmental	Project: Noble - Branch 1-3	
PO Box 1289	Project Number: C022-066	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	08/26/24 09:03

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

Summit Scientific

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

Batch BHH0467 - General Preparation

Duplicate (BHH0467-DUP1)	Source: 2408153-01		Prepared: 08/19/24 Analyzed: 08/20/24		
% Solids	89.0	%	86.3	3.12	20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

**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 BHH0515 - General Preparation**

**Blank (BHH0515-BLK1)**

Prepared: 08/19/24 Analyzed: 08/20/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHH0515-BS1)**

Prepared: 08/19/24 Analyzed: 08/20/24

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 101 95-105

**Duplicate (BHH0515-DUP1)**

**Source: 2408153-01**

Prepared: 08/19/24 Analyzed: 08/20/24

Specific Conductance (EC) 1.09 0.0100 mmhos/cm 1.11 2.00 20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

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

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

**Batch BHH0514 - General Preparation**

**LCS (BHH0514-BS1)**

Prepared: 08/19/24 Analyzed: 08/20/24

pH	9.11	pH Units	9.18	99.2	95-105
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**Duplicate (BHH0514-DUP1)**

**Source: 2408153-01**

Prepared: 08/19/24 Analyzed: 08/20/24

pH	8.12	pH Units	8.14	0.246	20
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Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Branch 1-3

Project Number: C022-066  
Project Manager: Paul Henchan

**Reported:**  
08/26/24 09:03

### Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR-01	Analyses are not controlled on RPD values from sample concentrations below 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