

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 03, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Loustalet -64N64W 30NESE

Work Order #2408239

Enclosed are the results of analyses for samples received by Summit Scientific on 08/21/24 16:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury

President



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP01@5.5' (SB)	2408239-01	Soil	08/21/24 00:00	08/21/24 16:10
SEP02@5.5' (SB)	2408239-02	Soil	08/21/24 00:00	08/21/24 16:10
SB-1 (15.0')	2408239-03	Soil	08/21/24 00:00	08/21/24 16:10
SB-1 (20.0')	2408239-04	Soil	08/21/24 00:00	08/21/24 16:10
SB-1 (22.0')	2408239-05	Soil	08/21/24 00:00	08/21/24 16:10
SB-1 (24.0')	2408239-06	Soil	08/21/24 00:00	08/21/24 16:10
MW-1 (14.0')	2408239-07	Soil	08/21/24 00:00	08/21/24 16:10
MW-1 (18.0')	2408239-08	Soil	08/21/24 00:00	08/21/24 16:10
SB-3 (1.0')	2408239-09	Soil	08/21/24 00:00	08/21/24 16:10
SB-3 (20.0')	2408239-10	Soil	08/21/24 00:00	08/21/24 16:10
SB-4 (15.0')	2408239-11	Soil	08/21/24 00:00	08/21/24 16:10
SB-4 (18.0')	2408239-12	Soil	08/21/24 00:00	08/21/24 16:10
SB-5 (17.0')	2408239-13	Soil	08/21/24 00:00	08/21/24 16:10
SB-5 (20.0')	2408239-14	Soil	08/21/24 00:00	08/21/24 16:10
SB-6 (16.0')	2408239-15	Soil	08/21/24 00:00	08/21/24 16:10
SB-6 (20.0')	2408239-16	Soil	08/21/24 00:00	08/21/24 16:10
SB-7 (16.0')	2408239-17	Soil	08/21/24 00:00	08/21/24 16:10
SB-7 (19.0')	2408239-18	Soil	08/21/24 00:00	08/21/24 16:10
SB-8 (15.0')	2408239-19	Soil	08/21/24 00:00	08/21/24 16:10
SB-8 (19.0')	2408239-20	Soil	08/21/24 00:00	08/21/24 16:10
SB-9 (16.0')	2408239-21	Soil	08/21/24 00:00	08/21/24 16:10
SB-9 (18.0')	2408239-22	Soil	08/21/24 00:00	08/21/24 16:10
SB-10 (16.0')	2408239-23	Soil	08/21/24 00:00	08/21/24 16:10
SB-10 (20.0')	2408239-24	Soil	08/21/24 00:00	08/21/24 16:10
MW-1	2408239-25	Water	08/21/24 00:00	08/21/24 16:10

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

---

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# SUMMIT SCIENTIFIC

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

Lab ID	Page <u>1</u> of <u>2</u>
<u>2408239.1</u>	

Send Data To:		Send Invoice To:	
Client: <u>Fremont Env</u>	Project Manager: <u>Paul Henahan</u>	Company: <u>Noble</u>	
Address:	E-Mail: <u>Paulh@fremontenv.com</u>	Project Name/Location:	
City/State/Zip:	<u>jeff@fremontenv.com Eth@fremontenv.com</u>	AFE#:	
Phone:	Project Name: <u>Loustalet-64NG4U 3ONESE</u>	PO/Billing Codes:	
Sampler Name: <u>JG</u>	Project Number:	Contact:	

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+N	TMBs (915)	DR0,OR0,GR0	PAHs (915)	EC-PH,S APs Boron		Metals (915)	PH Only	TDS,Cl,Sulfides				
1	SEPO125.5' (SB)	8/21/24		1			X			X															
2	SEPO225.5' (SB)			1																					
3	SB-1 (15.0')			1																					
4	SB-1 (20.0')																								
5	SB-1 (22.0')																								
6	SB-1 (24.0')																								
7	MW-1 (14.0')																								
8	MW-1 (18.0')																								
9	SB-3 (1.0')																								
10	SB-2 (20.0')																								
11	SB-4 (15.0')																								
12	SB-4 (18.0')																								
13	SB-5 (17.0')																								
14	SB-5 (20.0')																								
15	SB-6 (16.0')																								

Relinquished by: <u>[Signature]</u>	Date/Time: <u>8/21/24</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/21/24 16:10</u>	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: <u>65</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

# SUMMIT SCIENTIFIC

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

Lab ID	Page 2 of 2
2408239.2	

Send Data To:		Send Invoice To:	
Client: <u>Fremont Env</u>	Project Manager: <u>Paul Henchen</u>	Company: <u>Noble</u>	
Address:	E-Mail: <u>Paulh@fremontenv.com</u>	Project Name/Location:	
City/State/Zip:	<u>jc@fremontenv.com Ethenb@fremontenv.com</u>	AFE#:	
Phone:	Project Name: <u>Loustalet-G4NG4W 3ONESE</u>	PO/Billing Codes:	
Sampler Name: <u>JG</u>	Project Number:	Contact:	

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+N	TMBs (915)	DRD,ORO,GRO	PAHs (915)	EC,PH,SAP, Boron	Metals (915)		PH Only
1	SB-6 (20.0')	8/21/24		2			X			X			X	X	X	X	X			
2	SB-7 (16.0')	↓																		
3	SB-7 (19.0')																			
4	SB-8 (15.0')																			
5	SB-8 (19.0')																			
6	SB-9 (16.0')																			
7	SB-9 (18.0')																			
8	SB-10 (16.0')																			
9	SB-10 (20.0')															X	X	X	X	
10	MW-2		↓		4	X		X		X					↓	↓				X
11																				
12																				
13																				
14																				
15																				

Relinquished by: <u>[Signature]</u> Date/Time: <u>8/21/24</u>	Received by: <u>[Signature]</u> Date/Time: <u>8/21/24 16:10</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Received by:	Same Day	Field EC	
Relinquished by:	Received by:	1 Day	Field ORP	
Relinquished by:	Received by:	2 Days	Field pH	
Relinquished by:	Received by:	3 Days	Field Temp.	
Temperature Upon Receipt: <u>6.5</u>	Corrected Temperature _____	IR gun #: <u>2</u>	HNO3 lot #: _____	

S<sub>2</sub>

S2 Work Order# 2408239

Sample Receipt Checklist

Client: Firemont Client Project ID: Loustalet - 64N64W 30NESE

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other      Airbill #: \_\_\_\_\_

Matrix (Check all that apply) Air  Soil/Solid  Water  Other

Temp (°C) 6.5 Thermometer # 2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <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 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no relinquish time
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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
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.

Control Form #: SRC-001

AS

Custodian Printed Name

8/21/21

Date/Time



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SEP01@5.5' (SB)**

**2408239-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.64</b>		pH Units	1	BHH0624	08/22/24	08/22/24	EPA 9045D	

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 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SEP02@5.5' (SB)**  
**2408239-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>7.22</b>		pH Units	1	BHH0624	08/22/24	08/22/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-1 (15.0')**  
**2408239-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/23/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0447	112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.6	101 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-1 (15.0')**  
**2408239-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/23/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0148	44.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0187	56.0 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-1 (15.0')**  
**2408239-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.09	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B	
Barium	28.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.15	0.400	"	"	"	"	"	"	
Lead	2.32	0.200	"	"	"	"	"	"	
Nickel	2.44	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.14	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	46.6	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	10.3	0.0500	"	"	"	"	"	"	
Sodium	34.2	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.18	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-1 (15.0')**  
**2408239-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.2		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.202	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.06		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-1 (20.0')**  
**2408239-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.20	mg/kg	100	BHH0654	08/22/24	08/26/24	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	"
<b>Ethylbenzene</b>	<b>0.42</b>	0.0050	"	1	"	"	08/23/24	"	
Xylenes (total)	ND	1.0	"	100	"	"	08/26/24	"	
1,2,4-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.50	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.069</b>	0.0038	"	1	"	"	08/23/24	"	
Gasoline Range Hydrocarbons	ND	50	"	100	"	"	08/26/24	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.221	553 %	50-150	"	"	"	08/23/24	"	S-02
Surrogate: Toluene-d8	0.321	802 %	50-150	"	"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.392	980 %	50-150	"	"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>C10-C28 (DRO)</b>	<b>320</b>	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>54</b>	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	8.94	71.5 %	30-150	"	"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-1 (20.0')**  
**2408239-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/23/24	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>0.0219</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0261</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0408</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.00580	17.4 %	40-150		"	"	"	"	S-02
Surrogate: Fluoranthene-d10	0.0138	41.3 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-1 (20.0')**  
**2408239-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.19	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B	
Barium	35.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.81	0.400	"	"	"	"	"	"	
Lead	3.00	0.200	"	"	"	"	"	"	
Nickel	3.97	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.8	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	27.3	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	5.94	0.0500	"	"	"	"	"	"	
Sodium	25.4	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.15	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SB-1 (20.0')**  
**2408239-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.0		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.419	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-1 (22.0')**  
**2408239-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.29	0.0020	mg/kg	1	BHH0654	08/22/24	08/23/24	EPA 8260B	
Toluene	0.15	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.23	0.0050	"	"	"	"	"	"	
Xylenes (total)	1.6	0.010	"	"	"	"	"	"	E
1,2,4-Trimethylbenzene	0.46	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.29	0.0050	"	"	"	"	"	"	
Naphthalene	0.11	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	79	0.50	"	"	"	"	"	"	E

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0476	119 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0753	188 %	50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.0581	145 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	120	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.18	73.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-1 (22.0')**  
**2408239-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/23/24	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>0.00672</b>	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0198</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0316</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0142	42.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0188	56.3 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-1 (22.0')**  
**2408239-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.72	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	46.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	15.4	0.400	"	"	"	"	"	"
Lead	10.2	0.200	"	"	"	"	"	"
Nickel	4.31	0.400	"	"	"	"	"	"
Silver	0.0329	0.0200	"	"	"	"	"	"
Zinc	12.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.0	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	5.89	0.0500	"	"	"	"	"	"	
Sodium	86.1	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.68	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SB-1 (22.0')**  
**2408239-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.1		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.571	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.13		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-1 (24.0')**  
**2408239-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.18	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
Toluene	0.12	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.057	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.43	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.066	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.037	0.0050	"	"	"	"	"	"	
Naphthalene	0.032	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	7.7	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0455	114 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0430	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0413	103 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.44	51.5 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-1 (24.0')**  
**2408239-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/23/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0149	44.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0203	60.9 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-1 (24.0')**  
**2408239-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	7.30	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	75.9	0.400	"	"	"	"	"	"
Cadmium	0.581	0.200	"	"	"	"	"	"
Copper	32.7	0.400	"	"	"	"	"	"
Lead	24.6	0.200	"	"	"	"	"	"
Nickel	28.4	0.400	"	"	"	"	"	"
Silver	0.0374	0.0200	"	"	"	"	"	"
Zinc	151	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	11.0	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	4.87	0.0500	"	"	"	"	"	"	
Sodium	14.2	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.896	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SB-1 (24.0')**  
**2408239-06 (Soil)**

**Summit Scientific**

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

% Solids	82.9	%	1	BHH0625	08/22/24	08/22/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.186	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.50		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**MW-1 (14.0')  
2408239-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.062</b>	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
Toluene	ND	0.50	"	100	"	"	08/26/24	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>14</b>	1.0	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>7.9</b>	0.50	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>5.2</b>	0.50	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.21</b>	0.0038	"	1	"	"	08/24/24	"	
<b>Gasoline Range Hydrocarbons</b>	<b>370</b>	50	"	100	"	"	08/26/24	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0418	105 %	50-150	"	"	"	08/24/24	"	
Surrogate: Toluene-d8	0.211	527 %	50-150	"	"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.276	691 %	50-150	"	"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>940</b>	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>87</b>	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.8	111 %	30-150	"	"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**MW-1 (14.0')  
2408239-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.00806</b>	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	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.359</b>	0.00500	"	"	"	"	"	"	E
<b>2-Methylnaphthalene</b>	<b>0.661</b>	0.00500	"	"	"	"	"	"	E

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0241	72.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0219	65.8 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**MW-1 (14.0')  
2408239-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.17	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B	
Barium	38.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.32	0.400	"	"	"	"	"	"	
Lead	2.75	0.200	"	"	"	"	"	"	
Nickel	2.64	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	28.0	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	4.29	0.0500	"	"	"	"	"	"	
Sodium	1.68	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0781	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**MW-1 (14.0')  
 2408239-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	95.9		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.261	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**MW-1 (18.0')  
2408239-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.20		mg/kg	100	BHH0654	08/22/24	08/26/24	EPA 8260B	
<b>Toluene</b>	<b>4.8</b>	0.50		"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1.2</b>	0.50		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>20</b>	1.0		"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>5.7</b>	0.50		"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>3.9</b>	0.50		"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.15</b>	0.0038		"	1	"	"	08/24/24	"	
<b>Gasoline Range Hydrocarbons</b>	<b>780</b>	50		"	100	"	"	08/26/24	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.327	817 %		50-150		"	"	08/24/24	"	S-02
Surrogate: Toluene-d8	0.00	%		50-150		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene	0.510	1280 %		50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>C10-C28 (DRO)</b>	<b>120</b>	50		mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.48	59.8 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**MW-1 (18.0')  
2408239-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0121</b>	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.00677</b>	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	"	"	"	"	"	"	
<b>Pyrene</b>	<b>0.00550</b>	0.00500	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.393</b>	0.00500	"	"	"	"	"	"	E
<b>2-Methylnaphthalene</b>	<b>0.597</b>	0.00500	"	"	"	"	"	"	E

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0186	55.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0263	78.8 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**MW-1 (18.0')  
2408239-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.04	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B	
Barium	31.3	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.51	0.400	"	"	"	"	"	"	
Lead	2.73	0.200	"	"	"	"	"	"	
Nickel	3.34	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.5	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.63	0.0500	"	"	"	"	"	"	
Sodium	7.25	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.332	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**MW-1 (18.0')  
 2408239-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.2		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.264	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.32		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-3 (1.0')**  
**2408239-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0037	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
Toluene	0.075	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.038	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.99	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.38	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.23	0.0050	"	"	"	"	"	"	
Naphthalene	0.018	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	8.8	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0467	117 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0421	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0447	112 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.28	74.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-3 (1.0')**  
**2408239-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0233	69.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0280	84.1 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-3 (1.0')**  
**2408239-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.45	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B	
Barium	30.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.09	0.400	"	"	"	"	"	"	
Lead	6.34	0.200	"	"	"	"	"	"	
Nickel	3.59	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	14.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	85.7	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	19.3	0.0500	"	"	"	"	"	"	
Sodium	27.6	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.701	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SB-3 (1.0')  
 2408239-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.9		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.01	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.35		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-3 (20.0')**  
**2408239-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/26/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0451	113 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0402	100 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	6.97	55.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-3 (20.0')**  
**2408239-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0161	48.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0144	43.2 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-3 (20.0')**  
**2408239-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	8.44	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B	
Barium	60.7	0.400	"	"	"	"	"	"	
Cadmium	0.794	0.200	"	"	"	"	"	"	
Copper	26.5	0.400	"	"	"	"	"	"	
Lead	25.5	0.200	"	"	"	"	"	"	
Nickel	40.3	0.400	"	"	"	"	"	"	
Silver	0.0364	0.0200	"	"	"	"	"	"	
Zinc	121	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.3	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.97	0.0500	"	"	"	"	"	"	
Sodium	17.7	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.01	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SB-3 (20.0')**  
**2408239-10 (Soil)**

**Summit Scientific**

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

% Solids	81.7	%	1	BHH0625	08/22/24	08/22/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.202</b>	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.45</b>		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-4 (15.0')**  
**2408239-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
<b>Toluene</b>	<b>0.016</b>	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>3.9</b>	0.010	"	"	"	"	"	"	E
<b>1,2,4-Trimethylbenzene</b>	<b>1.7</b>	0.0050	"	"	"	"	"	"	E
<b>1,3,5-Trimethylbenzene</b>	<b>1.7</b>	0.0050	"	"	"	"	"	"	E
<b>Naphthalene</b>	<b>0.067</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>130</b>	0.50	"	"	"	"	"	"	E

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0419	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0829	207 %	50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.187	466 %	50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>170</b>	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.8	94.7 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-4 (15.0')**  
**2408239-11 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0154	46.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0137	41.0 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0697	08/23/24	08/26/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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PO Box 1289  
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-4 (15.0')**  
**2408239-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.18	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B	
Barium	43.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.65	0.400	"	"	"	"	"	"	
Lead	2.83	0.200	"	"	"	"	"	"	
Nickel	3.22	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	42.6	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.69	0.0500	"	"	"	"	"	"	
Sodium	13.7	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.507	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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 PO Box 1289  
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SB-4 (15.0')**  
**2408239-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.0		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.301	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.41		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-4 (18.0')**  
**2408239-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	0.48	0.0020		mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
Toluene	0.53	0.050		"	10	"	"	08/26/24	"	
Ethylbenzene	0.11	0.0050		"	1	"	"	08/24/24	"	
Xylenes (total)	1.6	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.21	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.15	0.0050		"	"	"	"	"	"	
Naphthalene	0.012	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	35	0.50		"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0429	107 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0491	123 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0456	114 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.89	79.1 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-4 (18.0')**  
**2408239-12 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0412</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0956</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0176	52.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0222	66.6 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-4 (18.0')**  
**2408239-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.957	0.180	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B	
Barium	43.0	0.360	"	"	"	"	"	"	
Cadmium	ND	0.180	"	"	"	"	"	"	
Copper	2.42	0.360	"	"	"	"	"	"	
Lead	2.98	0.180	"	"	"	"	"	"	
Nickel	2.76	0.360	"	"	"	"	"	"	
Silver	ND	0.0180	"	"	"	"	"	"	
Zinc	11.2	0.360	"	"	"	"	"	"	
Selenium	ND	0.234	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.4	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	10.6	0.0500	"	"	"	"	"	"	
Sodium	9.15	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.357	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SB-4 (18.0')**  
**2408239-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.7		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.380	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-5 (17.0')**  
**2408239-13 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.20	mg/kg	100	BHH0654	08/22/24	08/26/24	EPA 8260B	
<b>Toluene</b>	<b>5.3</b>	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.50</b>	0.0050	"	1	"	"	08/24/24	"	
<b>Xylenes (total)</b>	<b>12</b>	1.0	"	100	"	"	08/26/24	"	
<b>1,2,4-Trimethylbenzene</b>	<b>2.2</b>	0.50	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.59</b>	0.0050	"	1	"	"	08/24/24	"	
<b>Naphthalene</b>	<b>0.038</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>210</b>	50	"	100	"	"	08/26/24	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0379	94.6 %	50-150		"	"	08/24/24	"	
Surrogate: Toluene-d8	0.0688	172 %	50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.0593	148 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>73</b>	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.00	72.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-5 (17.0')**  
**2408239-13 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0115</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0309</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0155	46.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0195	58.6 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-5 (17.0')**  
**2408239-13 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.12	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	34.9	0.400	"	"	"	"	"	"
Cadmium	0.200	0.200	"	"	"	"	"	"
Copper	13.9	0.400	"	"	"	"	"	"
Lead	11.7	0.200	"	"	"	"	"	"
Nickel	9.20	0.400	"	"	"	"	"	"
Silver	0.0241	0.0200	"	"	"	"	"	"
Zinc	35.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	11.4	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	9.07	0.0500	"	"	"	"	"	"	
Sodium	9.33	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.500	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SB-5 (17.0')**  
**2408239-13 (Soil)**

**Summit Scientific**

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

% Solids	85.3	%	1	BHH0625	08/22/24	08/22/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.146	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.71		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-5 (20.0')**  
**2408239-14 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/26/24	EPA 8260B	
<b>Toluene</b>	<b>0.0053</b>	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.0060</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.10</b>	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.055</b>	0.0050	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.035</b>	0.0050	"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.0050</b>	0.0038	"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>6.3</b>	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0466	117 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0476	119 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0435	109 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.65	77.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-5 (20.0')**  
**2408239-14 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0180	53.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0187	56.1 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-5 (20.0')**  
**2408239-14 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	4.32	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	43.2	0.400	"	"	"	"	"	"
Cadmium	0.339	0.200	"	"	"	"	"	"
Copper	11.2	0.400	"	"	"	"	"	"
Lead	10.7	0.200	"	"	"	"	"	"
Nickel	15.7	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	90.5	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4.37	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	8.99	0.0500	"	"	"	"	"	"	
Sodium	8.71	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.547	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SB-5 (20.0')**  
**2408239-14 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.8		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.158	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-6 (16.0')**  
**2408239-15 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0451	113 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0415	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0405	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.8	94.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-6 (16.0')**  
**2408239-15 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0103	30.8 %	40-150		"	"	"	"	S-02
Surrogate: Fluoranthene-d10	0.0154	46.2 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-6 (16.0')**  
**2408239-15 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.46	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B	
Barium	36.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.41	0.400	"	"	"	"	"	"	
Lead	3.48	0.200	"	"	"	"	"	"	
Nickel	5.44	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	16.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.8	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	11.4	0.0500	"	"	"	"	"	"	
Sodium	12.5	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.561	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SB-6 (16.0')**  
**2408239-15 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.4		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.352	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.44		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-6 (20.0')**  
**2408239-16 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0423	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.3 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	7.41	59.3 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-6 (20.0')**  
**2408239-16 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0138	41.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0135	40.5 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-6 (20.0')**  
**2408239-16 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.99	0.200	mg/kg dry	1	BHH0642	08/22/24	08/27/24	EPA 6020B
Barium	20.4	0.400	"	"	"	"	"	"
Cadmium	0.257	0.200	"	"	"	"	"	"
Copper	11.5	0.400	"	"	"	"	"	"
Lead	17.5	0.200	"	"	"	"	"	"
Nickel	8.55	0.400	"	"	"	"	"	"
Silver	0.0229	0.0200	"	"	"	"	"	"
Zinc	49.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.1	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	10.7	0.0500	"	"	"	"	"	"	
Sodium	23.8	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.10	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SB-6 (20.0')**  
**2408239-16 (Soil)**

**Summit Scientific**

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

% Solids	81.9	%	1	BHH0625	08/22/24	08/22/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.316	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-7 (16.0')**  
**2408239-17 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0452	113 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.7 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.90	79.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-7 (16.0')**  
**2408239-17 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0203	60.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0248	74.5 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-7 (16.0')**  
**2408239-17 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.32	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B	
Barium	34.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.56	0.400	"	"	"	"	"	"	
Lead	2.77	0.200	"	"	"	"	"	"	
Nickel	2.50	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	65.3	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	27.4	0.0500	"	"	"	"	"	"	
Sodium	47.5	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.24	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
 PO Box 1289  
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SB-7 (16.0')**  
**2408239-17 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.6		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.241	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.87		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-7 (19.0')**  
**2408239-18 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.31</b>	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
<b>Toluene</b>	<b>0.23</b>	0.0050	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.0065</b>	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.093</b>	0.010	"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.0074</b>	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0393	98.3 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0401	100 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0401	100 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	9.92	79.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-7 (19.0')**  
**2408239-18 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0213	63.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0225	67.6 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
PO Box 1289  
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-7 (19.0')**  
**2408239-18 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.45	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B	
Barium	49.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.74	0.400	"	"	"	"	"	"	
Lead	2.93	0.200	"	"	"	"	"	"	
Nickel	3.21	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	22.0	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	4.41	0.0500	"	"	"	"	"	"	
Sodium	62.6	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.19	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
 PO Box 1289  
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SB-7 (19.0')**  
**2408239-18 (Soil)**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.6		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.466	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.04		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-8 (15.0')**  
**2408239-19 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0453	113 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	99.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.6	93.0 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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PO Box 1289  
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-8 (15.0')**  
**2408239-19 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0221	66.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0251	75.4 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-8 (15.0')**  
**2408239-19 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.33	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B	
Barium	41.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.61	0.400	"	"	"	"	"	"	
Lead	2.82	0.200	"	"	"	"	"	"	
Nickel	3.24	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.0	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	78.4	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	28.2	0.0500	"	"	"	"	"	"	
Sodium	85.0	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.09	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SB-8 (15.0')**  
**2408239-19 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.8		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.443	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.98		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-8 (19.0')**  
**2408239-20 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>0.019</b>	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0462	116 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0408	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0428	107 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.82	70.6 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SB-8 (19.0')**  
**2408239-20 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 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	0.0179	53.8 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-8 (19.0')**  
**2408239-20 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.38	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B	
Barium	30.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	12.3	0.400	"	"	"	"	"	"	
Lead	10.6	0.200	"	"	"	"	"	"	
Nickel	6.21	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	28.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	12.0	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.22	0.0500	"	"	"	"	"	"	
Sodium	9.35	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.527	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SB-8 (19.0')**  
**2408239-20 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.9		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.150	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.52		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-9 (16.0')**  
**2408239-21 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0654	08/22/24	08/24/24	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>0.0059</b>	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0407	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0389	97.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.84	78.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-9 (16.0')**  
**2408239-21 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0205	61.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0174	52.2 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-9 (16.0')**  
**2408239-21 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.78	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B	
Barium	29.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.74	0.400	"	"	"	"	"	"	
Lead	7.72	0.200	"	"	"	"	"	"	
Nickel	4.52	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	22.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	15.2	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.92	0.0500	"	"	"	"	"	"	
Sodium	21.0	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.09	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SB-9 (16.0')**  
**2408239-21 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.7		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.256	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-9 (18.0')**  
**2408239-22 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.20		mg/kg	100	BHH0654	08/22/24	08/26/24	EPA 8260B	R-05
<b>Toluene</b>	<b>0.87</b>	0.50		"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>1.2</b>	0.50		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>28</b>	1.0		"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>15</b>	0.50		"	"	"	"	"	"	
<b>1,3,5-Trimethylbenzene</b>	<b>9.6</b>	0.50		"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.59</b>	0.38		"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>790</b>	50		"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.00	%		50-150		"	"	08/24/24	"	S-04
Surrogate: Toluene-d8	0.325	812 %		50-150		"	"	"	"	S-02
Surrogate: 4-Bromofluorobenzene	0.212	529 %		50-150		"	"	"	"	S-02

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>C10-C28 (DRO)</b>	<b>610</b>	50		mg/kg	1	BHH0658	08/22/24	08/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.7	93.6 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-9 (18.0')**  
**2408239-22 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0685	08/23/24	08/24/24	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	"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0392</b>	0.00500	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0889</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0151	45.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0160	48.0 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-9 (18.0')**  
**2408239-22 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	6.15	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B
Barium	77.9	0.400	"	"	"	"	"	"
Cadmium	0.543	0.200	"	"	"	"	"	"
Copper	20.6	0.400	"	"	"	"	"	"
Lead	18.1	0.200	"	"	"	"	"	"
Nickel	21.1	0.400	"	"	"	"	"	"
Silver	0.0425	0.0200	"	"	"	"	"	"
Zinc	126	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0664	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.7	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.81	0.0500	"	"	"	"	"	"	
Sodium	15.7	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.890	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SB-9 (18.0')**  
**2408239-22 (Soil)**

**Summit Scientific**

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

% Solids	83.3	%	1	BHH0625	08/22/24	08/22/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.175	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-10 (16.0')  
2408239-23 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0655	08/22/24	08/23/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0385	96.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0659	08/22/24	08/25/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.1	81.2 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-10 (16.0')  
2408239-23 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0687	08/23/24	08/23/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0181	54.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0182	54.6 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-10 (16.0')  
2408239-23 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.06	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B	
Barium	28.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.22	0.400	"	"	"	"	"	"	
Lead	2.36	0.200	"	"	"	"	"	"	
Nickel	2.50	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	9.97	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0665	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.9	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	8.71	0.0500	"	"	"	"	"	"	
Sodium	3.34	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.164	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-10 (16.0')  
2408239-23 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.0		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.258	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.43		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-10 (20.0')  
2408239-24 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHH0655	08/22/24	08/23/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0420	105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.2 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHH0659	08/22/24	08/25/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.64	69.1 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-10 (20.0')  
2408239-24 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHH0687	08/23/24	08/23/24	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: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0154	46.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0152	45.7 %	40-150		"	"	"	"	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHH0698	08/23/24	08/27/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **08/21/24 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 - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**SB-10 (20.0')  
2408239-24 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.58	0.200	mg/kg dry	1	BHH0643	08/22/24	08/27/24	EPA 6020B
Barium	27.3	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	16.2	0.400	"	"	"	"	"	"
Lead	15.3	0.200	"	"	"	"	"	"
Nickel	10.1	0.400	"	"	"	"	"	"
Silver	0.0409	0.0200	"	"	"	"	"	"
Zinc	49.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHH0665	08/22/24	08/23/24	EPA 7196A	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.4	0.0500	mg/L dry	1	BHH0730	08/23/24	08/28/24	EPA 6020B	
Magnesium	7.12	0.0500	"	"	"	"	"	"	
Sodium	15.6	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.913	0.00100	units	1	BHH0876	08/28/24	08/28/24	Calculation	

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

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**SB-10 (20.0')  
 2408239-24 (Soil)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.0		%	1	BHH0625	08/22/24	08/22/24	Calculation	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.177	0.0100	mmhos/cm	1	BHH0732	08/23/24	08/27/24	EPA 120.1	

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.94		pH Units	1	BHH0731	08/23/24	08/27/24	EPA 9045D	

Summit Scientific

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**MW-1**  
**2408239-25 (Water)**

**Summit Scientific**

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

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	7000	100	ug/l	100	BHH0712	08/23/24	08/26/24	EPA 8260B	
Toluene	22000	100	"	"	"	"	"	"	
Ethylbenzene	1300	100	"	"	"	"	"	"	
Xylenes (total)	16000	200	"	"	"	"	"	"	
Naphthalene	42	1.0	"	1	"	"	08/24/24	"	
1,2,4-Trimethylbenzene	1400	100	"	100	"	"	08/26/24	"	
1,3,5-Trimethylbenzene	200	1.0	"	1	"	"	08/24/24	"	

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	12.4	92.6 %	23-173		"	"	08/26/24	"	
Surrogate: Toluene-d8	13.2	99.0 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.2	99.2 %	21-167		"	"	"	"	

**Anions by EPA Method 300.0**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	7.58	0.0600	mg/L	50	BHH0560	08/21/24	08/27/24	EPA 300.0	
Sulfate	4.38	0.300	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Date Sampled: **08/21/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	722	10.0	mg/L	1	BHH0804	08/27/24	08/27/24	SM2540C	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch BHH0654 - EPA 5030 Soil MS**

**Blank (BHH0654-BLK1)**

Prepared: 08/22/24 Analyzed: 08/23/24

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	0.0404		"	0.0400		101		50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2		50-150			
Surrogate: 4-Bromofluorobenzene	0.0385		"	0.0400		96.2		50-150			

**LCS (BHH0654-BS1)**

Prepared: 08/22/24 Analyzed: 08/23/24

Benzene	0.104	0.0020	mg/kg	0.100		104		70-130			
Toluene	0.105	0.0050	"	0.100		105		70-130			
Ethylbenzene	0.111	0.0050	"	0.100		111		70-130			
m,p-Xylene	0.216	0.010	"	0.200		108		70-130			
o-Xylene	0.106	0.0050	"	0.100		106		70-130			
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100		103		70-130			
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.100		106		70-130			
Naphthalene	0.0998	0.0038	"	0.100		99.8		70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0400		102		50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.4		50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0		50-150			

**Matrix Spike (BHH0654-MS1)**

Source: 2408239-03

Prepared: 08/22/24 Analyzed: 08/23/24

Benzene	0.101	0.0020	mg/kg	0.100	ND	101		70-130			
Toluene	0.101	0.0050	"	0.100	ND	101		70-130			
Ethylbenzene	0.105	0.0050	"	0.100	ND	105		70-130			
m,p-Xylene	0.206	0.010	"	0.200	ND	103		70-130			
o-Xylene	0.102	0.0050	"	0.100	ND	102		70-130			
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100	ND	101		70-130			
1,3,5-Trimethylbenzene	0.100	0.0050	"	0.100	ND	100		70-130			
Naphthalene	0.103	0.0038	"	0.100	ND	103		70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0425		"	0.0400		106		50-150			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.2		50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8		50-150			

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch BHH0654 - EPA 5030 Soil MS**

**Matrix Spike Dup (BHH0654-MSD1)**

Source: 2408239-03

Prepared: 08/22/24 Analyzed: 08/23/24

Benzene	0.0998	0.0020	mg/kg	0.100	ND	99.8	70-130	1.31	30	
Toluene	0.103	0.0050	"	0.100	ND	103	70-130	1.12	30	
Ethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130	2.14	30	
m,p-Xylene	0.215	0.010	"	0.200	ND	108	70-130	4.35	30	
o-Xylene	0.105	0.0050	"	0.100	ND	105	70-130	3.08	30	
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130	2.11	30	
1,3,5-Trimethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130	3.98	30	
Naphthalene	0.0964	0.0038	"	0.100	ND	96.4	70-130	6.77	30	
Surrogate: 1,2-Dichloroethane-d4	0.0418		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	50-150			

**Batch BHH0655 - EPA 5030 Soil MS**

**Blank (BHH0655-BLK1)**

Prepared & Analyzed: 08/22/24

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	0.0404		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0396		"	0.0400		99.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400		98.6	50-150			

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PO Box 1289  
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch BHH0655 - EPA 5030 Soil MS**

**LCS (BHH0655-BS1)**

Prepared & Analyzed: 08/22/24

Benzene	0.120	0.0020	mg/kg	0.100		120	70-130			
Toluene	0.111	0.0050	"	0.100		111	70-130			
Ethylbenzene	0.117	0.0050	"	0.100		117	70-130			
m,p-Xylene	0.227	0.010	"	0.200		114	70-130			
o-Xylene	0.118	0.0050	"	0.100		118	70-130			
1,2,4-Trimethylbenzene	0.117	0.0050	"	0.100		117	70-130			
1,3,5-Trimethylbenzene	0.118	0.0050	"	0.100		118	70-130			
Naphthalene	0.113	0.0038	"	0.100		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0385		"	0.0400		96.3	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		98.9	50-150			

**Matrix Spike (BHH0655-MS1)**

Source: 2408234-21

Prepared & Analyzed: 08/22/24

Benzene	0.110	0.0020	mg/kg	0.100	ND	110	70-130			
Toluene	0.102	0.0050	"	0.100	ND	102	70-130			
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	70-130			
m,p-Xylene	0.199	0.010	"	0.200	ND	99.4	70-130			
o-Xylene	0.0917	0.0050	"	0.100	ND	91.7	70-130			
1,2,4-Trimethylbenzene	0.0886	0.0050	"	0.100	ND	88.6	70-130			
1,3,5-Trimethylbenzene	0.0904	0.0050	"	0.100	ND	90.4	70-130			
Naphthalene	0.0860	0.0038	"	0.100	ND	86.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0397		"	0.0400		99.2	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	50-150			

**Matrix Spike Dup (BHH0655-MSD1)**

Source: 2408234-21

Prepared & Analyzed: 08/22/24

Benzene	0.107	0.0020	mg/kg	0.100	ND	107	70-130	2.21	30	
Toluene	0.0988	0.0050	"	0.100	ND	98.8	70-130	3.08	30	
Ethylbenzene	0.0979	0.0050	"	0.100	ND	97.9	70-130	3.67	30	
m,p-Xylene	0.190	0.010	"	0.200	ND	95.0	70-130	4.52	30	
o-Xylene	0.0876	0.0050	"	0.100	ND	87.6	70-130	4.62	30	
1,2,4-Trimethylbenzene	0.0825	0.0050	"	0.100	ND	82.5	70-130	7.05	30	
1,3,5-Trimethylbenzene	0.0860	0.0050	"	0.100	ND	86.0	70-130	5.00	30	
Naphthalene	0.0760	0.0038	"	0.100	ND	76.0	70-130	12.4	30	
Surrogate: 1,2-Dichloroethane-d4	0.0407		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	50-150			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

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

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

**Batch BHH0712 - EPA 5030 Water MS**

**Blank (BHH0712-BLK1)**

Prepared: 08/23/24 Analyzed: 08/24/24

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	12.7		"	13.3		95.4	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		98.9	20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.7	21-167			

**LCS (BHH0712-BS1)**

Prepared: 08/23/24 Analyzed: 08/24/24

Benzene	40.1	1.0	ug/l	33.3	120	51-132				
Toluene	38.3	1.0	"	33.3	115	51-138				
Ethylbenzene	45.4	1.0	"	33.3	136	58-146				
m,p-Xylene	77.6	2.0	"	66.7	116	57-144				
o-Xylene	37.1	1.0	"	33.3	111	53-146				
Naphthalene	34.7	1.0	"	33.3	104	70-130				
1,2,4-Trimethylbenzene	37.4	1.0	"	33.3	112	70-130				
1,3,5-Trimethylbenzene	38.3	1.0	"	33.3	115	70-130				
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.3		98.1	23-173			
Surrogate: Toluene-d8	13.3		"	13.3		99.7	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.3	21-167			

**LCS Dup (BHH0712-BSD1)**

Prepared: 08/23/24 Analyzed: 08/24/24

Benzene	40.6	1.0	ug/l	33.3	122	51-132	1.29	20		
Toluene	39.0	1.0	"	33.3	117	51-138	1.71	20		
Ethylbenzene	46.2	1.0	"	33.3	139	58-146	1.81	20		
m,p-Xylene	79.2	2.0	"	66.7	119	57-144	2.16	20		
o-Xylene	37.6	1.0	"	33.3	113	53-146	1.31	20		
Naphthalene	35.7	1.0	"	33.3	107	70-130	2.67	20		
1,2,4-Trimethylbenzene	38.9	1.0	"	33.3	117	70-130	3.96	20		
1,3,5-Trimethylbenzene	39.7	1.0	"	33.3	119	70-130	3.41	20		
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.3		98.7	23-173			
Surrogate: Toluene-d8	13.4		"	13.3		100	20-170			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.2	21-167			

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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

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

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

**Batch BHH0658 - EPA 3550A**

**Blank (BHH0658-BLK1)**

Prepared: 08/22/24 Analyzed: 08/26/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	13.5		"	12.5	108	30-150					

**LCS (BHH0658-BS1)**

Prepared: 08/22/24 Analyzed: 08/26/24

C10-C28 (DRO)	447	50	mg/kg	500	89.4	70-130					
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5	97.7	30-150					

**Matrix Spike (BHH0658-MS1)**

Source: 2408239-03

Prepared: 08/22/24 Analyzed: 08/26/24

C10-C28 (DRO)	449	50	mg/kg	500	38.5	82.0	70-130				
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5	97.5	30-150					

**Matrix Spike Dup (BHH0658-MSD1)**

Source: 2408239-03

Prepared: 08/22/24 Analyzed: 08/26/24

C10-C28 (DRO)	455	50	mg/kg	500	38.5	83.3	70-130	1.37	20		
Surrogate: <i>o</i> -Terphenyl	12.7		"	12.5	102	30-150					

**Batch BHH0659 - EPA 3550A**

**Blank (BHH0659-BLK1)**

Prepared: 08/22/24 Analyzed: 08/25/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.3		"	12.5	98.7	30-150					

**LCS (BHH0659-BS1)**

Prepared: 08/22/24 Analyzed: 08/25/24

C10-C28 (DRO)	571	50	mg/kg	500	114	70-130					
Surrogate: <i>o</i> -Terphenyl	12.9		"	12.5	103	30-150					

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Fremont Environmental  
 PO Box 1289  
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

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

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

**Batch BHH0659 - EPA 3550A**

**Matrix Spike (BHH0659-MS1)**

Source: 2408234-21

Prepared: 08/22/24 Analyzed: 08/25/24

C10-C28 (DRO)	563	50	mg/kg	500	ND	113	70-130			
Surrogate: o-Terphenyl	14.8		"	12.5		118	30-150			

**Matrix Spike Dup (BHH0659-MSD1)**

Source: 2408234-21

Prepared: 08/22/24 Analyzed: 08/25/24

C10-C28 (DRO)	531	50	mg/kg	500	ND	106	70-130	5.85	20	
Surrogate: o-Terphenyl	14.6		"	12.5		117	30-150			

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BHH0685 - EPA 5030 Soil MS**

**Blank (BHH0685-BLK1)**

Prepared & Analyzed: 08/23/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0173</i>		"	<i>0.0333</i>		<i>51.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0304</i>		"	<i>0.0333</i>		<i>91.2</i>	<i>40-150</i>			

**LCS (BHH0685-BS1)**

Prepared & Analyzed: 08/23/24

Acenaphthene	0.0139	0.00500	mg/kg	0.0333	41.8	31-137
Anthracene	0.0140	0.00500	"	0.0333	42.0	30-120
Benzo (a) anthracene	0.0155	0.00500	"	0.0333	46.5	30-120
Benzo (a) pyrene	0.0141	0.00500	"	0.0333	42.3	30-120
Benzo (b) fluoranthene	0.0139	0.00500	"	0.0333	41.8	30-120
Benzo (k) fluoranthene	0.0138	0.00500	"	0.0333	41.4	30-120
Chrysene	0.0151	0.00500	"	0.0333	45.3	30-120
Dibenz (a,h) anthracene	0.0134	0.00500	"	0.0333	40.1	30-120
Fluoranthene	0.0138	0.00500	"	0.0333	41.4	30-120
Fluorene	0.0153	0.00500	"	0.0333	45.8	30-120
Indeno (1,2,3-cd) pyrene	0.0160	0.00500	"	0.0333	48.0	30-120
Pyrene	0.0177	0.00500	"	0.0333	53.0	35-142
1-Methylnaphthalene	0.0136	0.00500	"	0.0333	40.9	35-142
2-Methylnaphthalene	0.0145	0.00500	"	0.0333	43.4	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0136</i>		"	<i>0.0333</i>	<i>40.8</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0143</i>		"	<i>0.0333</i>	<i>42.9</i>	<i>40-150</i>

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BHH0685 - EPA 5030 Soil MS**

<b>Matrix Spike (BHH0685-MS1)</b>	<b>Source: 2408239-03</b>			<b>Prepared &amp; Analyzed: 08/23/24</b>							
Acenaphthene	0.0227	0.00500	mg/kg	0.0333	ND	68.2	31-137				
Anthracene	0.0266	0.00500	"	0.0333	ND	79.7	30-120				
Benzo (a) anthracene	0.0284	0.00500	"	0.0333	ND	85.3	30-120				
Benzo (a) pyrene	0.0207	0.00500	"	0.0333	ND	62.0	30-120				
Benzo (b) fluoranthene	0.0216	0.00500	"	0.0333	ND	64.9	30-120				
Benzo (k) fluoranthene	0.0216	0.00500	"	0.0333	ND	64.7	30-120				
Chrysene	0.0273	0.00500	"	0.0333	ND	82.0	30-120				
Dibenz (a,h) anthracene	0.0180	0.00500	"	0.0333	ND	54.0	30-120				
Fluoranthene	0.0267	0.00500	"	0.0333	ND	80.2	30-120				
Fluorene	0.0249	0.00500	"	0.0333	ND	74.7	30-120				
Indeno (1,2,3-cd) pyrene	0.0189	0.00500	"	0.0333	ND	56.6	30-120				
Pyrene	0.0314	0.00500	"	0.0333	ND	94.1	35-142				
1-Methylnaphthalene	0.0233	0.00500	"	0.0333	ND	69.8	15-130				
2-Methylnaphthalene	0.0228	0.00500	"	0.0333	ND	68.4	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0237</i>		<i>"</i>	<i>0.0333</i>		<i>71.0</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0272</i>		<i>"</i>	<i>0.0333</i>		<i>81.7</i>	<i>40-150</i>				

<b>Matrix Spike Dup (BHH0685-MSD1)</b>	<b>Source: 2408239-03</b>			<b>Prepared &amp; Analyzed: 08/23/24</b>						
Acenaphthene	0.0140	0.00500	mg/kg	0.0333	ND	42.0	31-137	47.7	30	QR-02
Anthracene	0.0152	0.00500	"	0.0333	ND	45.6	30-120	54.3	30	QR-02
Benzo (a) anthracene	0.0168	0.00500	"	0.0333	ND	50.4	30-120	51.3	30	QR-02
Benzo (a) pyrene	0.0147	0.00500	"	0.0333	ND	44.1	30-120	33.8	30	QR-02
Benzo (b) fluoranthene	0.0146	0.00500	"	0.0333	ND	43.7	30-120	39.1	30	QR-02
Benzo (k) fluoranthene	0.0148	0.00500	"	0.0333	ND	44.3	30-120	37.5	30	QR-02
Chrysene	0.0161	0.00500	"	0.0333	ND	48.3	30-120	51.8	30	QR-02
Dibenz (a,h) anthracene	0.0148	0.00500	"	0.0333	ND	44.3	30-120	19.8	30	
Fluoranthene	0.0147	0.00500	"	0.0333	ND	44.1	30-120	58.2	30	QR-02
Fluorene	0.0148	0.00500	"	0.0333	ND	44.3	30-120	51.1	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0180	0.00500	"	0.0333	ND	54.0	30-120	4.72	30	
Pyrene	0.0189	0.00500	"	0.0333	ND	56.8	35-142	49.4	30	QR-02
1-Methylnaphthalene	0.0148	0.00500	"	0.0333	ND	44.3	15-130	44.8	50	
2-Methylnaphthalene	0.0140	0.00500	"	0.0333	ND	41.9	15-130	48.0	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0153</i>		<i>"</i>	<i>0.0333</i>		<i>45.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0153</i>		<i>"</i>	<i>0.0333</i>		<i>45.8</i>	<i>40-150</i>			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**PAH by EPA Method 8270D SIM - Quality Control**

**Summit Scientific**

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

**Batch BHH0687 - EPA 5030 Soil MS**

**Blank (BHH0687-BLK1)**

Prepared & Analyzed: 08/23/24

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	0.0202		"	0.0333		60.5	40-150			
Surrogate: Fluoranthene-d10	0.0274		"	0.0333		82.2	40-150			

**LCS (BHH0687-BS1)**

Prepared & Analyzed: 08/23/24

Acenaphthene	0.0246	0.00500	mg/kg	0.0333		73.8	31-137			
Anthracene	0.0240	0.00500	"	0.0333		72.1	30-120			
Benzo (a) anthracene	0.0252	0.00500	"	0.0333		75.5	30-120			
Benzo (a) pyrene	0.0188	0.00500	"	0.0333		56.5	30-120			
Benzo (b) fluoranthene	0.0179	0.00500	"	0.0333		53.8	30-120			
Benzo (k) fluoranthene	0.0173	0.00500	"	0.0333		51.9	30-120			
Chrysene	0.0247	0.00500	"	0.0333		74.1	30-120			
Dibenz (a,h) anthracene	0.0220	0.00500	"	0.0333		66.0	30-120			
Fluoranthene	0.0236	0.00500	"	0.0333		70.7	30-120			
Fluorene	0.0245	0.00500	"	0.0333		73.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0159	0.00500	"	0.0333		47.6	30-120			
Pyrene	0.0285	0.00500	"	0.0333		85.5	35-142			
1-Methylnaphthalene	0.0213	0.00500	"	0.0333		63.9	35-142			
2-Methylnaphthalene	0.0209	0.00500	"	0.0333		62.7	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0216		"	0.0333		64.8	40-150			
Surrogate: Fluoranthene-d10	0.0239		"	0.0333		71.6	40-150			

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

Reported:  
09/03/24 08:26

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHH0687 - EPA 5030 Soil MS

Matrix Spike (BHH0687-MS1)	Source: 2408239-23			Prepared & Analyzed: 08/23/24						
Acenaphthene	0.0181	0.00500	mg/kg	0.0333	ND	54.4	31-137			
Anthracene	0.0179	0.00500	"	0.0333	ND	53.8	30-120			
Benzo (a) anthracene	0.0185	0.00500	"	0.0333	ND	55.5	30-120			
Benzo (a) pyrene	0.0135	0.00500	"	0.0333	ND	40.6	30-120			
Benzo (b) fluoranthene	0.0158	0.00500	"	0.0333	ND	47.5	30-120			
Benzo (k) fluoranthene	0.0153	0.00500	"	0.0333	ND	45.8	30-120			
Chrysene	0.0184	0.00500	"	0.0333	ND	55.2	30-120			
Dibenz (a,h) anthracene	0.0150	0.00500	"	0.0333	ND	44.9	30-120			
Fluoranthene	0.0174	0.00500	"	0.0333	ND	52.2	30-120			
Fluorene	0.0183	0.00500	"	0.0333	ND	54.9	30-120			
Indeno (1,2,3-cd) pyrene	0.0166	0.00500	"	0.0333	ND	49.8	30-120			
Pyrene	0.0220	0.00500	"	0.0333	ND	65.9	35-142			
1-Methylnaphthalene	0.0170	0.00500	"	0.0333	ND	51.1	15-130			
2-Methylnaphthalene	0.0160	0.00500	"	0.0333	ND	48.1	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0162		"	0.0333		48.6	40-150			
Surrogate: Fluoranthene-d10	0.0175		"	0.0333		52.4	40-150			

Matrix Spike Dup (BHH0687-MSD1)	Source: 2408239-23			Prepared & Analyzed: 08/23/24						
Acenaphthene	0.0169	0.00500	mg/kg	0.0333	ND	50.7	31-137	7.00	30	
Anthracene	0.0168	0.00500	"	0.0333	ND	50.3	30-120	6.75	30	
Benzo (a) anthracene	0.0173	0.00500	"	0.0333	ND	52.0	30-120	6.64	30	
Benzo (a) pyrene	0.0186	0.00500	"	0.0333	ND	55.9	30-120	31.8	30	QR-02
Benzo (b) fluoranthene	0.0147	0.00500	"	0.0333	ND	44.2	30-120	7.18	30	
Benzo (k) fluoranthene	0.0142	0.00500	"	0.0333	ND	42.7	30-120	7.14	30	
Chrysene	0.0171	0.00500	"	0.0333	ND	51.3	30-120	7.47	30	
Dibenz (a,h) anthracene	0.0227	0.00500	"	0.0333	ND	68.0	30-120	40.9	30	QR-02
Fluoranthene	0.0162	0.00500	"	0.0333	ND	48.7	30-120	6.96	30	
Fluorene	0.0170	0.00500	"	0.0333	ND	51.1	30-120	7.17	30	
Indeno (1,2,3-cd) pyrene	0.0180	0.00500	"	0.0333	ND	54.1	30-120	8.42	30	
Pyrene	0.0198	0.00500	"	0.0333	ND	59.5	35-142	10.2	30	
1-Methylnaphthalene	0.0156	0.00500	"	0.0333	ND	46.7	15-130	8.97	50	
2-Methylnaphthalene	0.0149	0.00500	"	0.0333	ND	44.7	15-130	7.24	50	
Surrogate: 2-Methylnaphthalene-d10	0.0157		"	0.0333		47.0	40-150			
Surrogate: Fluoranthene-d10	0.0162		"	0.0333		48.6	40-150			

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

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

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

**Batch BHH0697 - EPA 3050B**

<b>Blank (BHH0697-BLK1)</b>										
					Prepared: 08/23/24 Analyzed: 08/26/24					
Boron	ND	2.00	mg/L							
<b>LCS (BHH0697-BS1)</b>										
					Prepared: 08/23/24 Analyzed: 08/26/24					
Boron	5.08	2.00	mg/L	5.00	102	80-120				
<b>Duplicate (BHH0697-DUP1)</b>										
					Source: 2408234-14		Prepared: 08/23/24 Analyzed: 08/26/24			
Boron	ND	2.00	mg/L		0.00835			200	20	QR-01
<b>Matrix Spike (BHH0697-MS1)</b>										
					Source: 2408234-14		Prepared: 08/23/24 Analyzed: 08/26/24			
Boron	4.71	2.00	mg/L	5.00	0.00835	93.9	75-125			
<b>Matrix Spike Dup (BHH0697-MSD1)</b>										
					Source: 2408234-14		Prepared: 08/23/24 Analyzed: 08/26/24			
Boron	4.91	2.00	mg/L	5.00	0.00835	97.9	75-125	4.16	25	

**Batch BHH0698 - EPA 3050B**

<b>Blank (BHH0698-BLK1)</b>										
					Prepared: 08/23/24 Analyzed: 08/27/24					
Boron	ND	2.00	mg/L							
<b>LCS (BHH0698-BS1)</b>										
					Prepared: 08/23/24 Analyzed: 08/27/24					
Boron	5.03	2.00	mg/L	5.00	101	80-120				
<b>Duplicate (BHH0698-DUP1)</b>										
					Source: 2408239-12		Prepared: 08/23/24 Analyzed: 08/27/24			
Boron	0.117	2.00	mg/L		0.134			13.8	20	
<b>Matrix Spike (BHH0698-MS1)</b>										
					Source: 2408239-12		Prepared: 08/23/24 Analyzed: 08/27/24			
Boron	4.69	2.00	mg/L	4.98	0.134	91.5	75-125			

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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

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

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

**Batch BHH0698 - EPA 3050B**

**Matrix Spike Dup (BHH0698-MSD1)**

**Source: 2408239-12**

Prepared: 08/23/24 Analyzed: 08/27/24

Boron	4.91	2.00	mg/L	4.98	0.134	95.9	75-125	4.54	25	
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHH0642 - EPA 3050B**

**Blank (BHH0642-BLK1)**

Prepared: 08/22/24 Analyzed: 08/27/24

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 (BHH0642-BS1)**

Prepared: 08/22/24 Analyzed: 08/27/24

Arsenic	36.9	0.200	mg/kg wet	36.5	101	80-120				
Barium	37.8	0.400	"	36.5	104	80-120				
Cadmium	1.74	0.200	"	1.82	95.2	80-120				
Copper	36.4	0.400	"	36.5	99.9	80-120				
Lead	18.2	0.200	"	18.2	100	80-120				
Nickel	36.7	0.400	"	36.5	101	80-120				
Silver	1.98	0.0200	"	1.82	108	80-120				
Zinc	35.9	0.400	"	36.5	98.4	80-120				
Selenium	3.63	0.260	"	3.65	99.4	80-120				

**Duplicate (BHH0642-DUP1)**

Source: 2408234-20

Prepared: 08/22/24 Analyzed: 08/27/24

Arsenic	3.24	0.200	mg/kg dry	3.39	4.72	20				
Barium	401	0.400	"	610	41.2	20				QR-02
Cadmium	0.153	0.200	"	0.133	14.6	20				
Copper	3.90	0.400	"	4.05	3.65	20				
Lead	8.98	0.200	"	9.09	1.21	20				
Nickel	4.36	0.400	"	4.53	3.91	20				
Silver	0.0204	0.0200	"	0.0165	21.1	20				QR-01
Zinc	22.6	0.400	"	29.0	24.7	20				QR-02
Selenium	ND	0.260	"	ND		20				

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHH0642 - EPA 3050B**

<b>Matrix Spike (BHH0642-MS1)</b>	<b>Source: 2408234-20</b>			<b>Prepared: 08/22/24 Analyzed: 08/27/24</b>								
Arsenic	54.7	0.200	mg/kg dry	51.3	3.39	100	75-125					
Barium	483	0.400	"	51.3	610	NR	75-125					QM-05
Cadmium	2.63	0.200	"	2.56	0.133	97.4	75-125					
Copper	52.9	0.400	"	51.3	4.05	95.3	75-125					
Lead	33.6	0.200	"	25.6	9.09	95.6	75-125					
Nickel	54.4	0.400	"	51.3	4.53	97.2	75-125					
Silver	2.40	0.0200	"	2.56	0.0165	93.0	75-125					
Zinc	73.3	0.400	"	51.3	29.0	86.5	75-125					
Selenium	4.23	0.260	"	5.13	ND	82.6	75-125					

<b>Matrix Spike Dup (BHH0642-MSD1)</b>	<b>Source: 2408234-20</b>			<b>Prepared: 08/22/24 Analyzed: 08/27/24</b>								
Arsenic	50.0	0.200	mg/kg dry	47.1	3.39	98.9	75-125	9.01	25			
Barium	506	0.400	"	47.1	610	NR	75-125	4.60	25			QM-05
Cadmium	2.42	0.200	"	2.36	0.133	97.3	75-125	8.06	25			
Copper	48.3	0.400	"	47.1	4.05	94.0	75-125	9.05	25			
Lead	31.3	0.200	"	23.6	9.09	94.2	75-125	7.14	25			
Nickel	49.5	0.400	"	47.1	4.53	95.5	75-125	9.28	25			
Silver	2.14	0.0200	"	2.36	0.0165	89.9	75-125	11.7	25			
Zinc	68.9	0.400	"	47.1	29.0	84.8	75-125	6.17	25			
Selenium	3.82	0.260	"	4.71	ND	81.1	75-125	10.3	25			

**Batch BHH0643 - EPA 3050B**

<b>Blank (BHH0643-BLK1)</b>	<b>Prepared: 08/22/24 Analyzed: 08/27/24</b>											
Arsenic	ND	0.200	mg/kg wet									
Barium	ND	0.400	"									
Cadmium	ND	0.200	"									
Copper	ND	0.400	"									
Lead	ND	0.200	"									
Nickel	ND	0.400	"									
Silver	ND	0.0200	"									
Zinc	ND	0.400	"									
Selenium	ND	0.260	"									

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Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHH0643 - EPA 3050B**

**LCS (BHH0643-BS1)**

Prepared: 08/22/24 Analyzed: 08/27/24

Arsenic	37.2	0.200	mg/kg wet	39.1		95.1	80-120			
Barium	38.0	0.400	"	39.1		97.4	80-120			
Cadmium	1.78	0.200	"	1.95		91.0	80-120			
Copper	36.6	0.400	"	39.1		93.7	80-120			
Lead	18.5	0.200	"	19.5		95.0	80-120			
Nickel	36.8	0.400	"	39.1		94.3	80-120			
Silver	1.98	0.0200	"	1.95		102	80-120			
Zinc	35.9	0.400	"	39.1		92.0	80-120			
Selenium	3.72	0.260	"	3.91		95.3	80-120			

**Duplicate (BHH0643-DUP1)**

Source: 2408239-17

Prepared: 08/22/24 Analyzed: 08/27/24

Arsenic	1.31	0.200	mg/kg dry		1.32			1.02	20	
Barium	39.9	0.400	"		34.5			14.6	20	
Cadmium	0.0471	0.200	"		0.0393			18.1	20	
Copper	2.53	0.400	"		2.56			1.33	20	
Lead	2.89	0.200	"		2.77			4.11	20	
Nickel	2.64	0.400	"		2.50			5.49	20	
Silver	0.00828	0.0200	"		0.00701			16.6	20	
Zinc	11.5	0.400	"		11.0			4.33	20	
Selenium	ND	0.260	"		ND				20	

**Matrix Spike (BHH0643-MS1)**

Source: 2408239-17

Prepared: 08/22/24 Analyzed: 08/27/24

Arsenic	41.4	0.200	mg/kg dry	43.3	1.32	92.7	75-125			
Barium	77.3	0.400	"	43.3	34.5	99.0	75-125			
Cadmium	2.04	0.200	"	2.16	0.0393	92.6	75-125			
Copper	41.2	0.400	"	43.3	2.56	89.4	75-125			
Lead	22.6	0.200	"	21.6	2.77	91.6	75-125			
Nickel	42.0	0.400	"	43.3	2.50	91.3	75-125			
Silver	1.95	0.0200	"	2.16	0.00701	90.0	75-125			
Zinc	49.8	0.400	"	43.3	11.0	89.6	75-125			
Selenium	3.69	0.260	"	4.33	ND	85.3	75-125			

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 PO Box 1289  
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**Total Metals by EPA 6020B - Quality Control**

**Summit Scientific**

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

**Batch BHH0643 - EPA 3050B**

**Matrix Spike Dup (BHH0643-MSD1)**

Source: 2408239-17

Prepared: 08/22/24 Analyzed: 08/27/24

Arsenic	43.2	0.200	mg/kg dry	45.3	1.32	92.5	75-125	4.26	25
Barium	80.7	0.400	"	45.3	34.5	102	75-125	4.31	25
Cadmium	2.19	0.200	"	2.26	0.0393	94.9	75-125	6.89	25
Copper	42.9	0.400	"	45.3	2.56	89.1	75-125	4.00	25
Lead	24.5	0.200	"	22.6	2.77	95.8	75-125	7.96	25
Nickel	43.7	0.400	"	45.3	2.50	91.1	75-125	4.07	25
Silver	2.07	0.0200	"	2.26	0.00701	91.3	75-125	5.93	25
Zinc	52.1	0.400	"	45.3	11.0	90.8	75-125	4.56	25
Selenium	3.78	0.260	"	4.53	ND	83.5	75-125	2.38	25

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BHH0664 - 3060A Mod**

<b>Blank (BHH0664-BLK1)</b>											
Prepared: 08/22/24 Analyzed: 08/23/24											
Chromium, Hexavalent	ND	0.30	mg/kg wet								
<b>LCS (BHH0664-BS1)</b>											
Prepared: 08/22/24 Analyzed: 08/23/24											
Chromium, Hexavalent	26.2	0.30	mg/kg wet	25.0		105	80-120				
<b>Duplicate (BHH0664-DUP1)</b>											
Source: 2408239-03 Prepared: 08/22/24 Analyzed: 08/23/24											
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
<b>Matrix Spike (BHH0664-MS1)</b>											
Source: 2408239-03 Prepared: 08/22/24 Analyzed: 08/23/24											
Chromium, Hexavalent	27.8	0.30	mg/kg dry	26.8	ND	104	75-125				
<b>Matrix Spike Dup (BHH0664-MSD1)</b>											
Source: 2408239-03 Prepared: 08/22/24 Analyzed: 08/23/24											
Chromium, Hexavalent	25.9	0.30	mg/kg dry	26.8	ND	96.6	75-125	6.99		20	

**Batch BHH0665 - 3060A Mod**

<b>Blank (BHH0665-BLK1)</b>											
Prepared: 08/22/24 Analyzed: 08/23/24											
Chromium, Hexavalent	ND	0.30	mg/kg wet								
<b>LCS (BHH0665-BS1)</b>											
Prepared: 08/22/24 Analyzed: 08/23/24											
Chromium, Hexavalent	23.8	0.30	mg/kg wet	25.0		95.2	80-120				
<b>Duplicate (BHH0665-DUP1)</b>											
Source: 2408233-01 Prepared: 08/22/24 Analyzed: 08/23/24											
Chromium, Hexavalent	ND	0.30	mg/kg dry		ND					20	
<b>Matrix Spike (BHH0665-MS1)</b>											
Source: 2408233-01 Prepared: 08/22/24 Analyzed: 08/23/24											
Chromium, Hexavalent	26.0	0.30	mg/kg dry	26.2	ND	99.2	75-125				

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

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

**Summit Scientific**

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

**Batch BHH0665 - 3060A Mod**

**Matrix Spike Dup (BHH0665-MSD1)**

Source: 2408233-01

Prepared: 08/22/24 Analyzed: 08/23/24

Chromium, Hexavalent	27.2	0.30	mg/kg dry	26.2	ND	104	75-125	4.72	20	
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Fremont Environmental  
 PO Box 1289  
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

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

**Summit Scientific**

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

**Batch BHH0730 - General Preparation**

**Blank (BHH0730-BLK1)**

Prepared: 08/23/24 Analyzed: 08/28/24

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

**LCS (BHH0730-BS1)**

Prepared: 08/23/24 Analyzed: 08/28/24

Calcium	4.59	0.0500	mg/L wet	5.00	91.7	70-130				
Magnesium	4.72	0.0500	"	5.00	94.4	70-130				
Sodium	4.89	0.0500	"	5.00	97.9	70-130				

Summit Scientific

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PO Box 1289  
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

**Anions by EPA Method 300.0 - Quality Control**

**Summit Scientific**

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

**Batch BHH0560 - General Preparation**

**Blank (BHH0560-BLK1)**

Prepared: 08/20/24 Analyzed: 08/27/24

Chloride	ND	0.0600	mg/L							
Sulfate	ND	0.300	"							

**LCS (BHH0560-BS1)**

Prepared: 08/20/24 Analyzed: 08/27/24

Chloride	2.91	0.0600	mg/L	3.00	97.1	90-110				
Sulfate	14.6	0.300	"	15.0	97.6	90-110				

**Duplicate (BHH0560-DUP1)**

Source: 2408216-21

Prepared: 08/20/24 Analyzed: 08/27/24

Chloride	178	0.0600	mg/L		179		0.297	20		
Sulfate	2090	0.300	"		2090		0.184	20		

**Matrix Spike (BHH0560-MS1)**

Source: 2408216-21

Prepared: 08/20/24 Analyzed: 08/27/24

Chloride	324	0.0600	mg/L	600	179	24.2	80-120			QM-05
Sulfate	2900	0.300	"	3000	2090	27.0	80-120			QM-05

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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

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

**Summit Scientific**

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

**Batch BHH0625 - General Preparation**

**Duplicate (BHH0625-DUP1)**

**Source: 2408235-01**

Prepared & Analyzed: 08/22/24

% Solids	82.7		%		82.4			0.410		20	
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

**Total Dissolved Solids by SM2540C - Quality Control**

**Summit Scientific**

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

**Batch BHH0804 - General Preparation**

**Blank (BHH0804-BLK1)**

Prepared & Analyzed: 08/27/24

Total Dissolved Solids      ND      10.0      mg/L

**Duplicate (BHH0804-DUP1)**

Source: 2408239-25

Prepared & Analyzed: 08/27/24

Total Dissolved Solids      720      10.0      mg/L      722      0.347      20

Summit Scientific

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 PO Box 1289  
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

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

**Summit Scientific**

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

**Batch BHH0732 - General Preparation**

**Blank (BHH0732-BLK1)**

Prepared: 08/23/24 Analyzed: 08/27/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHH0732-BS1)**

Prepared: 08/23/24 Analyzed: 08/27/24

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

**Duplicate (BHH0732-DUP1)**

Source: 2408239-03

Prepared: 08/23/24 Analyzed: 08/27/24

Specific Conductance (EC) 0.201 0.0100 mmhos/cm 0.202 0.794 20

Summit Scientific

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 PO Box 1289  
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Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
 Project Manager: Paul Henchan

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

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

**Summit Scientific**

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

**Batch BHH0624 - General Preparation**

**LCS (BHH0624-BS1)**

Prepared & Analyzed: 08/22/24

pH 9.22 pH Units 9.18 100 95-105

**Duplicate (BHH0624-DUP1)**

Source: 2408228-01

Prepared & Analyzed: 08/22/24

pH 8.57 pH Units 8.59 0.233 20

**Batch BHH0731 - General Preparation**

**LCS (BHH0731-BS1)**

Prepared: 08/23/24 Analyzed: 08/27/24

pH 9.07 pH Units 9.18 98.8 95-105

**Duplicate (BHH0731-DUP1)**

Source: 2408239-03

Prepared: 08/23/24 Analyzed: 08/27/24

pH 8.90 pH Units 9.06 1.78 20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Loustalet -64N64W 30NESE

Project Number: [none]  
Project Manager: Paul Henchan

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

### Notes and Definitions

- S-04 A sample matrix effect prevented complete surrogate recovery.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- R-05 The reporting limit for this sample has been raised due to the presence of high levels of non-target analytes.
- 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-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.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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