

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 07, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Jepsen Excavation
Work Order #2410031

Enclosed are the results of analyses for samples received by Summit Scientific on 10/02/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWV N02 Wall - 8ft	2410031-01	Soil	10/02/24 00:00	10/02/24 16:30
PWV S02 Wall - 8ft	2410031-02	Soil	10/02/24 00:00	10/02/24 16:30
PWV W Wall - 8ft	2410031-03	Soil	10/02/24 00:00	10/02/24 16:30
PWV B02 - 9ft	2410031-04	Soil	10/02/24 00:00	10/02/24 16:30
AST N Wall - 2ft	2410031-05	Soil	10/02/24 00:00	10/02/24 16:30
AST E Wall - 2ft	2410031-06	Soil	10/02/24 00:00	10/02/24 16:30
AST S Wall - 2ft	2410031-07	Soil	10/02/24 00:00	10/02/24 16:30
AST W Wall - 2ft	2410031-08	Soil	10/02/24 00:00	10/02/24 16:30
AST B - 3ft	2410031-09	Soil	10/02/24 00:00	10/02/24 16:30

Summit Scientific

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

Lab ID 2410031 Page 1 of 1

Client: Fremont Environmental		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company: <u>Noble</u>	
Address:		E-Mail: Fremont Distribution List		Project Name/Location:	
City/State/Zip:				AFE#:	
Phone: 303-261-6246		Project Name: <u>Jepsen Excavation</u>		PO/Billing Codes:	
Sampler Name: Stanley Gilbert		Project Number: <u>C023-220</u>		Contact: <u>Dan Peterson</u>	

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, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate		HOLD
1	pwv N02 Wall - 8Ft	10/2/24		2			X			X				X	X	X	X	X		
2	pwv S02 Wall - 8Ft																			
3	pwv W Wall - 8Ft																			
4	pwv B02 - 9Ft																			
5	AST N Wall - 2Ft																			
6	AST E Wall - 2Ft																			
7	AST S Wall - 2Ft																			
8	AST W Wall - 2Ft																			
9	AST B - 3Ft																			
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/2/24 14:50</u>	Received by: <u>Summit North</u>	Date/Time: <u>10/2/24 14:50</u>	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/2/24 1630</u>	Received by: <u>[Signature]</u>	Date/Time: <u>10/2/24 1630</u>	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: <u>9.0</u>	Corrected Temperature: <u>9</u>	IR gun #:		HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 241031

Client: Fremont Client Project ID: Jepsen Excavation

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

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

Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>awzef</i>
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>same day</i>
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<i>No sample times</i>
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

AS
Custodian Printed Name

10/2/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

PWV N02 Wall - 8ft

2410031-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0114	10/02/24	10/02/24	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: **10/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0438	109 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0395	98.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0383	95.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0115	10/02/24	10/02/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.3	82.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PWV N02 Wall - 8ft
2410031-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0131	10/03/24	10/04/24	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: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0139	41.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0140	41.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0086	10/03/24	10/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
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PWV N02 Wall - 8ft
2410031-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.466	0.200	mg/kg dry	1	BHJ0130	10/03/24	10/03/24	EPA 6020B	
Barium	33.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.13	0.400	"	"	"	"	"	"	
Lead	3.21	0.200	"	"	"	"	"	"	
Nickel	1.16	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	5.08	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0153	10/03/24	10/03/24	EPA 7196A	

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

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.5	0.0500	mg/L dry	1	BHJ0121	10/02/24	10/04/24	EPA 6020B	
Magnesium	14.4	0.0500	"	"	"	"	"	"	
Sodium	13.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.538	0.00100	units	1	BHJ0201	10/04/24	10/04/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
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 Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/07/24 08:30

PWV N02 Wall - 8ft
2410031-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.2		%	1	BHJ0128	10/03/24	10/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.266	0.0100	mmhos/cm	1	BHJ0122	10/02/24	10/03/24	EPA 120.1	

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

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BHJ0123	10/02/24	10/03/24	EPA 9045D	

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Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

PWV S02 Wall - 8ft
2410031-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0114	10/02/24	10/02/24	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: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0461	115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0412	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	97.1 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0115	10/02/24	10/02/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.91	71.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PWV S02 Wall - 8ft
2410031-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0131	10/03/24	10/04/24	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: **10/02/24 00:00**

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

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0086	10/03/24	10/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

PWV S02 Wall - 8ft
2410031-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.437	0.200	mg/kg dry	1	BHJ0130	10/03/24	10/03/24	EPA 6020B	
Barium	30.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	0.916	0.400	"	"	"	"	"	"	
Lead	3.02	0.200	"	"	"	"	"	"	
Nickel	1.01	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.15	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0153	10/03/24	10/03/24	EPA 7196A	

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

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	33.1	0.0500	mg/L dry	1	BHJ0121	10/02/24	10/04/24	EPA 6020B	
Magnesium	30.4	0.0500	"	"	"	"	"	"	
Sodium	44.9	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.36	0.00100	units	1	BHJ0201	10/04/24	10/04/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/07/24 08:30

PWV S02 Wall - 8ft
2410031-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.8		%	1	BHJ0128	10/03/24	10/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.315	0.0100	mmhos/cm	1	BHJ0122	10/02/24	10/03/24	EPA 120.1	

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

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.18		pH Units	1	BHJ0123	10/02/24	10/03/24	EPA 9045D	

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Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

PWV W Wall - 8ft
2410031-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0114	10/02/24	10/02/24	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: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0460	115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0382	95.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0115	10/02/24	10/02/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.8	86.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

PWV W Wall - 8ft
2410031-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0131	10/03/24	10/04/24	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: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0185	55.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0163	48.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0086	10/03/24	10/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/02/24 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 - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

PWV W Wall - 8ft
2410031-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.413	0.200	mg/kg dry	1	BHJ0130	10/03/24	10/03/24	EPA 6020B
Barium	40.4	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.925	0.400	"	"	"	"	"	"
Lead	3.29	0.200	"	"	"	"	"	"
Nickel	1.20	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	4.86	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0153	10/03/24	10/03/24	EPA 7196A	

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

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.0	0.0500	mg/L dry	1	BHJ0121	10/02/24	10/04/24	EPA 6020B	
Magnesium	62.0	0.0500	"	"	"	"	"	"	
Sodium	94.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.26	0.00100	units	1	BHJ0201	10/04/24	10/04/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/07/24 08:30

**PWV W Wall - 8ft
 2410031-03 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.7		%	1	BHJ0128	10/03/24	10/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.532	0.0100	mmhos/cm	1	BHJ0122	10/02/24	10/03/24	EPA 120.1	

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

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.96		pH Units	1	BHJ0123	10/02/24	10/03/24	EPA 9045D	

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PO Box 1289
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Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

**PWV B02 - 9ft
2410031-04 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0114	10/02/24	10/02/24	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: **10/02/24 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	0.0400	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0383	95.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0115	10/02/24	10/02/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.84	78.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

PWV B02 - 9ft
2410031-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0131	10/03/24	10/04/24	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: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0193	58.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0176	52.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0086	10/03/24	10/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

PWV B02 - 9ft
2410031-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.508	0.200	mg/kg dry	1	BHJ0130	10/03/24	10/03/24	EPA 6020B	
Barium	30.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.23	0.400	"	"	"	"	"	"	
Lead	3.90	0.200	"	"	"	"	"	"	
Nickel	1.18	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	5.04	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0153	10/03/24	10/03/24	EPA 7196A	

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

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	25.4	0.0500	mg/L dry	1	BHJ0121	10/02/24	10/04/24	EPA 6020B	
Magnesium	10.9	0.0500	"	"	"	"	"	"	
Sodium	44.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.86	0.00100	units	1	BHJ0201	10/04/24	10/04/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/07/24 08:30

**PWV B02 - 9ft
 2410031-04 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.4		%	1	BHJ0128	10/03/24	10/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.422	0.0100	mmhos/cm	1	BHJ0122	10/02/24	10/03/24	EPA 120.1	

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

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BHJ0123	10/02/24	10/03/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

AST N Wall - 2ft
2410031-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0114	10/02/24	10/02/24	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: **10/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0456	114 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0390	97.4 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0115	10/02/24	10/03/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	10.4	83.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

AST N Wall - 2ft
2410031-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0131	10/03/24	10/04/24	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: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0187	56.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0189	56.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0086	10/03/24	10/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/02/24 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 - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

**AST N Wall - 2ft
2410031-05 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.425	0.200	mg/kg dry	1	BHJ0130	10/03/24	10/03/24	EPA 6020B	
Barium	24.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.15	0.400	"	"	"	"	"	"	
Lead	4.20	0.200	"	"	"	"	"	"	
Nickel	0.871	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.56	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0153	10/03/24	10/03/24	EPA 7196A	

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

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	19.0	0.0500	mg/L dry	1	BHJ0121	10/02/24	10/04/24	EPA 6020B	
Magnesium	19.3	0.0500	"	"	"	"	"	"	
Sodium	1.45	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0560	0.00100	units	1	BHJ0201	10/04/24	10/04/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/07/24 08:30

**AST N Wall - 2ft
 2410031-05 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.6		%	1	BHJ0128	10/03/24	10/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0871	0.0100	mmhos/cm	1	BHJ0122	10/02/24	10/03/24	EPA 120.1	

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

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.55		pH Units	1	BHJ0123	10/02/24	10/03/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

AST E Wall - 2ft
2410031-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0114	10/02/24	10/02/24	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: **10/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0450	112 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0403	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	96.9 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0115	10/02/24	10/03/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.27	74.2 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/07/24 08:30

AST E Wall - 2ft
2410031-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0131	10/03/24	10/04/24	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: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0191	57.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0192	57.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0086	10/03/24	10/04/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/02/24 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 - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

AST E Wall - 2ft
2410031-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.394	0.200	mg/kg dry	1	BHJ0130	10/03/24	10/03/24	EPA 6020B	
Barium	26.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.07	0.400	"	"	"	"	"	"	
Lead	3.96	0.200	"	"	"	"	"	"	
Nickel	0.852	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.46	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0153	10/03/24	10/03/24	EPA 7196A	

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

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	19.4	0.0500	mg/L dry	1	BHJ0121	10/02/24	10/04/24	EPA 6020B	
Magnesium	23.0	0.0500	"	"	"	"	"	"	
Sodium	2.13	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0775	0.00100	units	1	BHJ0201	10/04/24	10/04/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/07/24 08:30

**AST E Wall - 2ft
 2410031-06 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.6		%	1	BHJ0128	10/03/24	10/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0969	0.0100	mmhos/cm	1	BHJ0122	10/02/24	10/03/24	EPA 120.1	

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

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.94		pH Units	1	BHJ0123	10/02/24	10/03/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

**AST S Wall - 2ft
2410031-07 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHJ0114	10/02/24	10/02/24	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: **10/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0427	107 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0388	97.0 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	97.1 %	50-150	"	"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0115	10/02/24	10/03/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	9.38	75.0 %	30-150	"	"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

AST S Wall - 2ft
2410031-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0131	10/03/24	10/04/24	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: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0174	52.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0167	50.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0086	10/03/24	10/05/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/02/24 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 - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

**AST S Wall - 2ft
2410031-07 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.413	0.200	mg/kg dry	1	BHJ0130	10/03/24	10/03/24	EPA 6020B	
Barium	25.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.07	0.400	"	"	"	"	"	"	
Lead	4.80	0.200	"	"	"	"	"	"	
Nickel	0.853	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.59	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0153	10/03/24	10/03/24	EPA 7196A	

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

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.6	0.0500	mg/L dry	1	BHJ0121	10/02/24	10/04/24	EPA 6020B	
Magnesium	19.5	0.0500	"	"	"	"	"	"	
Sodium	1.49	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0576	0.00100	units	1	BHJ0201	10/04/24	10/04/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/07/24 08:30

**AST S Wall - 2ft
 2410031-07 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.7		%	1	BHJ0128	10/03/24	10/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0629	0.0100	mmhos/cm	1	BHJ0122	10/02/24	10/03/24	EPA 120.1	

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

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.06		pH Units	1	BHJ0123	10/02/24	10/03/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

**AST W Wall - 2ft
2410031-08 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0114	10/02/24	10/02/24	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: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0448	112 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0394	98.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0383	95.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0115	10/02/24	10/03/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.68	77.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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 Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/07/24 08:30

AST W Wall - 2ft
2410031-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0131	10/03/24	10/04/24	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: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0152	45.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0159	47.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0086	10/03/24	10/05/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/02/24 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 - Jepsen Excavation
Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

**AST W Wall - 2ft
2410031-08 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.357	0.200	mg/kg dry	1	BHJ0130	10/03/24	10/03/24	EPA 6020B	
Barium	22.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	0.948	0.400	"	"	"	"	"	"	
Lead	2.55	0.200	"	"	"	"	"	"	
Nickel	0.786	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	3.87	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0153	10/03/24	10/03/24	EPA 7196A	

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

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	15.8	0.0500	mg/L dry	1	BHJ0121	10/02/24	10/04/24	EPA 6020B	
Magnesium	24.4	0.0500	"	"	"	"	"	"	
Sodium	1.22	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0449	0.00100	units	1	BHJ0201	10/04/24	10/04/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/07/24 08:30

**AST W Wall - 2ft
 2410031-08 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.6		%	1	BHJ0128	10/03/24	10/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0692	0.0100	mmhos/cm	1	BHJ0122	10/02/24	10/03/24	EPA 120.1	

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

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.35		pH Units	1	BHJ0123	10/02/24	10/03/24	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

AST B - 3ft
2410031-09 (Soil)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0114	10/02/24	10/02/24	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: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0464	116 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	99.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0389	97.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0115	10/02/24	10/03/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	9.96	79.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

AST B - 3ft
2410031-09 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0131	10/03/24	10/04/24	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: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0155	46.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0166	49.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0086	10/03/24	10/05/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/02/24 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 - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

AST B - 3ft
2410031-09 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.377	0.200	mg/kg dry	1	BHJ0130	10/03/24	10/03/24	EPA 6020B	
Barium	30.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.02	0.400	"	"	"	"	"	"	
Lead	2.77	0.200	"	"	"	"	"	"	
Nickel	0.923	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	4.29	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0153	10/03/24	10/03/24	EPA 7196A	

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

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	23.3	0.0500	mg/L dry	1	BHJ0121	10/02/24	10/04/24	EPA 6020B	
Magnesium	18.9	0.0500	"	"	"	"	"	"	
Sodium	1.10	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/02/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0410	0.00100	units	1	BHJ0201	10/04/24	10/04/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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 PO Box 1289
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Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/07/24 08:30

AST B - 3ft
2410031-09 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.6		%	1	BHJ0128	10/03/24	10/03/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0837	0.0100	mmhos/cm	1	BHJ0122	10/02/24	10/03/24	EPA 120.1	

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

Date Sampled: **10/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.73		pH Units	1	BHJ0123	10/02/24	10/03/24	EPA 9045D	

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Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHJ0114 - EPA 5030 Soil MS

Blank (BHJ0114-BLK1)

Prepared: 10/02/24 Analyzed: 10/03/24

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	0.0388		"	0.0400		97.0	50-150			
Surrogate: Toluene-d8	0.0392		"	0.0400		98.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.5	50-150			

LCS (BHJ0114-BS1)

Prepared: 10/02/24 Analyzed: 10/03/24

Benzene	0.0874	0.0020	mg/kg	0.100		87.4	70-130			
Toluene	0.0867	0.0050	"	0.100		86.7	70-130			
Ethylbenzene	0.0906	0.0050	"	0.100		90.6	70-130			
m,p-Xylene	0.179	0.010	"	0.200		89.4	70-130			
o-Xylene	0.0912	0.0050	"	0.100		91.2	70-130			
1,2,4-Trimethylbenzene	0.0904	0.0050	"	0.100		90.4	70-130			
1,3,5-Trimethylbenzene	0.0890	0.0050	"	0.100		89.0	70-130			
Naphthalene	0.0842	0.0038	"	0.100		84.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0400		99.4	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.6	50-150			

Matrix Spike (BHJ0114-MS1)

Source: 2409325-01

Prepared: 10/02/24 Analyzed: 10/03/24

Benzene	0.0809	0.0020	mg/kg	0.100	ND	80.9	70-130			
Toluene	0.0798	0.0050	"	0.100	ND	79.8	70-130			
Ethylbenzene	0.0819	0.0050	"	0.100	ND	81.9	70-130			
m,p-Xylene	0.159	0.010	"	0.200	ND	79.6	70-130			
o-Xylene	0.0822	0.0050	"	0.100	ND	82.2	70-130			
1,2,4-Trimethylbenzene	0.0812	0.0050	"	0.100	ND	81.2	70-130			
1,3,5-Trimethylbenzene	0.0804	0.0050	"	0.100	ND	80.4	70-130			
Naphthalene	0.0761	0.0038	"	0.100	ND	76.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0447		"	0.0400		112	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.6	50-150			

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Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/07/24 08:30

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHJ0114 - EPA 5030 Soil MS

Matrix Spike Dup (BHJ0114-MSD1)	Source: 2409325-01			Prepared: 10/02/24 Analyzed: 10/03/24						
Benzene	0.0843	0.0020	mg/kg	0.100	ND	84.3	70-130	4.07	30	
Toluene	0.0836	0.0050	"	0.100	ND	83.6	70-130	4.63	30	
Ethylbenzene	0.0851	0.0050	"	0.100	ND	85.1	70-130	3.81	30	
m,p-Xylene	0.166	0.010	"	0.200	ND	83.1	70-130	4.29	30	
o-Xylene	0.0833	0.0050	"	0.100	ND	83.3	70-130	1.30	30	
1,2,4-Trimethylbenzene	0.0825	0.0050	"	0.100	ND	82.5	70-130	1.69	30	
1,3,5-Trimethylbenzene	0.0836	0.0050	"	0.100	ND	83.6	70-130	3.92	30	
Naphthalene	0.0766	0.0038	"	0.100	ND	76.6	70-130	0.668	30	
Surrogate: 1,2-Dichloroethane-d4	0.0424		"	0.0400		106	50-150			
Surrogate: Toluene-d8	0.0402		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.3	50-150			

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Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/07/24 08:30

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHJ0115 - EPA 3550A

Blank (BHJ0115-BLK1)

Prepared: 10/02/24 Analyzed: 10/03/24

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

LCS (BHJ0115-BS1)

Prepared: 10/02/24 Analyzed: 10/03/24

C10-C28 (DRO)	580	50	mg/kg	500		116	70-130				
Surrogate: <i>o</i> -Terphenyl	14.4		"	12.5		115	30-150				

Matrix Spike (BHJ0115-MS1)

Source: 2409325-01

Prepared: 10/02/24 Analyzed: 10/03/24

C10-C28 (DRO)	555	50	mg/kg	500	ND	111	70-130				
Surrogate: <i>o</i> -Terphenyl	12.1		"	12.5		96.5	30-150				

Matrix Spike Dup (BHJ0115-MSD1)

Source: 2409325-01

Prepared: 10/02/24 Analyzed: 10/03/24

C10-C28 (DRO)	590	50	mg/kg	500	ND	118	70-130	6.07	20		
Surrogate: <i>o</i> -Terphenyl	14.6		"	12.5		117	30-150				

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Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

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 BHJ0131 - EPA 5030 Soil MS

Blank (BHJ0131-BLK1)

Prepared: 10/03/24 Analyzed: 10/04/24

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>0.0161</i>		"	<i>0.0333</i>		<i>48.2</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0174</i>		"	<i>0.0333</i>		<i>52.2</i>	<i>40-150</i>			

LCS (BHJ0131-BS1)

Prepared: 10/03/24 Analyzed: 10/04/24

Acenaphthene	0.0200	0.00500	mg/kg	0.0333	60.0	31-137
Anthracene	0.0204	0.00500	"	0.0333	61.1	30-120
Benzo (a) anthracene	0.0217	0.00500	"	0.0333	65.1	30-120
Benzo (a) pyrene	0.0189	0.00500	"	0.0333	56.6	30-120
Benzo (b) fluoranthene	0.0197	0.00500	"	0.0333	59.1	30-120
Benzo (k) fluoranthene	0.0184	0.00500	"	0.0333	55.3	30-120
Chrysene	0.0201	0.00500	"	0.0333	60.3	30-120
Dibenz (a,h) anthracene	0.0196	0.00500	"	0.0333	58.9	30-120
Fluoranthene	0.0190	0.00500	"	0.0333	57.1	30-120
Fluorene	0.0203	0.00500	"	0.0333	60.8	30-120
Indeno (1,2,3-cd) pyrene	0.0135	0.00500	"	0.0333	40.5	30-120
Pyrene	0.0223	0.00500	"	0.0333	67.0	35-142
1-Methylnaphthalene	0.0163	0.00500	"	0.0333	48.9	35-142
2-Methylnaphthalene	0.0173	0.00500	"	0.0333	52.0	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0165</i>		"	<i>0.0333</i>	<i>49.5</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0185</i>		"	<i>0.0333</i>	<i>55.4</i>	<i>40-150</i>

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Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHJ0131 - EPA 5030 Soil MS

Matrix Spike (BHJ0131-MS1)	Source: 2409325-01			Prepared: 10/03/24 Analyzed: 10/04/24						
Acenaphthene	0.0150	0.00500	mg/kg	0.0333	ND	45.0	31-137			
Anthracene	0.0167	0.00500	"	0.0333	ND	50.1	30-120			
Benzo (a) anthracene	0.0169	0.00500	"	0.0333	ND	50.6	30-120			
Benzo (a) pyrene	0.0143	0.00500	"	0.0333	ND	42.9	30-120			
Benzo (b) fluoranthene	0.0141	0.00500	"	0.0333	ND	42.3	30-120			
Benzo (k) fluoranthene	0.0139	0.00500	"	0.0333	ND	41.6	30-120			
Chrysene	0.0155	0.00500	"	0.0333	ND	46.6	30-120			
Dibenz (a,h) anthracene	0.0140	0.00500	"	0.0333	ND	42.1	30-120			
Fluoranthene	0.0150	0.00500	"	0.0333	ND	45.0	30-120			
Fluorene	0.0162	0.00500	"	0.0333	ND	48.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0144	0.00500	"	0.0333	ND	43.3	30-120			
Pyrene	0.0161	0.00500	"	0.0333	ND	48.4	35-142			
1-Methylnaphthalene	0.0162	0.00500	"	0.0333	ND	48.5	15-130			
2-Methylnaphthalene	0.0169	0.00500	"	0.0333	ND	50.8	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0158</i>		<i>"</i>	<i>0.0333</i>		<i>47.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0145</i>		<i>"</i>	<i>0.0333</i>		<i>43.6</i>	<i>40-150</i>			

Matrix Spike Dup (BHJ0131-MSD1)	Source: 2409325-01			Prepared: 10/03/24 Analyzed: 10/04/24						
Acenaphthene	0.0137	0.00500	mg/kg	0.0333	ND	41.2	31-137	8.76	30	
Anthracene	0.0172	0.00500	"	0.0333	ND	51.6	30-120	2.82	30	
Benzo (a) anthracene	0.0147	0.00500	"	0.0333	ND	44.0	30-120	14.0	30	
Benzo (a) pyrene	0.0163	0.00500	"	0.0333	ND	48.8	30-120	12.9	30	
Benzo (b) fluoranthene	0.0167	0.00500	"	0.0333	ND	50.1	30-120	17.0	30	
Benzo (k) fluoranthene	0.0169	0.00500	"	0.0333	ND	50.7	30-120	19.8	30	
Chrysene	0.0140	0.00500	"	0.0333	ND	42.0	30-120	10.5	30	
Dibenz (a,h) anthracene	0.0159	0.00500	"	0.0333	ND	47.6	30-120	12.3	30	
Fluoranthene	0.0156	0.00500	"	0.0333	ND	46.7	30-120	3.87	30	
Fluorene	0.0147	0.00500	"	0.0333	ND	44.2	30-120	9.19	30	
Indeno (1,2,3-cd) pyrene	0.0169	0.00500	"	0.0333	ND	50.8	30-120	15.9	30	
Pyrene	0.0154	0.00500	"	0.0333	ND	46.1	35-142	4.72	30	
1-Methylnaphthalene	0.0141	0.00500	"	0.0333	ND	42.2	15-130	13.9	50	
2-Methylnaphthalene	0.0149	0.00500	"	0.0333	ND	44.7	15-130	12.8	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0143</i>		<i>"</i>	<i>0.0333</i>		<i>42.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0150</i>		<i>"</i>	<i>0.0333</i>		<i>45.1</i>	<i>40-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/07/24 08:30

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BHJ0086 - EPA 3050B

Blank (BHJ0086-BLK1)

Prepared: 10/02/24 Analyzed: 10/04/24

Boron ND 2.00 mg/L

LCS (BHJ0086-BS1)

Prepared: 10/02/24 Analyzed: 10/04/24

Boron 4.95 2.00 mg/L 5.00 99.0 80-120

Duplicate (BHJ0086-DUP1)

Source: 2409325-01

Prepared: 10/02/24 Analyzed: 10/04/24

Boron 0.135 2.00 mg/L 0.164 18.8 20

Matrix Spike (BHJ0086-MS1)

Source: 2409325-01

Prepared: 10/02/24 Analyzed: 10/04/24

Boron 4.92 2.00 mg/L 5.00 0.164 95.1 75-125

Matrix Spike Dup (BHJ0086-MSD1)

Source: 2409325-01

Prepared: 10/02/24 Analyzed: 10/04/24

Boron 5.12 2.00 mg/L 5.00 0.164 99.2 75-125 4.12 25

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PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHJ0130 - EPA 3050B

Blank (BHJ0130-BLK1)

Prepared & Analyzed: 10/03/24

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 (BHJ0130-BS1)

Prepared & Analyzed: 10/03/24

Arsenic	35.3	0.181	mg/kg wet	36.2	97.4	80-120
Barium	33.1	0.362	"	36.2	91.5	80-120
Cadmium	1.69	0.181	"	1.81	93.0	80-120
Copper	35.5	0.362	"	36.2	98.1	80-120
Lead	17.0	0.181	"	18.1	93.9	80-120
Nickel	35.3	0.362	"	36.2	97.3	80-120
Silver	1.68	0.0181	"	1.81	92.6	80-120
Zinc	35.4	0.362	"	36.2	97.7	80-120
Selenium	3.67	0.236	"	3.62	101	80-120

Duplicate (BHJ0130-DUP1)

Source: 2409325-01

Prepared & Analyzed: 10/03/24

Arsenic	9.46	0.200	mg/kg dry	9.24	2.38	20	
Barium	178	0.400	"	148	18.3	20	
Cadmium	0.0158	0.200	"	0.0116	30.5	20	QR-01
Copper	1.03	0.400	"	0.990	3.70	20	
Lead	5.70	0.200	"	5.42	5.01	20	
Nickel	0.463	0.400	"	0.377	20.5	20	QR-01
Silver	0.0326	0.0200	"	0.0349	6.78	20	
Zinc	0.639	0.400	"	0.712	10.8	20	
Selenium	1.45	0.260	"	1.33	8.83	20	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHJ0130 - EPA 3050B

Matrix Spike (BHJ0130-MS1)

Source: 2409325-01

Prepared & Analyzed: 10/03/24

Arsenic	41.8	0.200	mg/kg dry	51.3	9.24	63.4	75-125				QM-05
Barium	228	0.400	"	51.3	148	156	75-125				QM-05
Cadmium	2.35	0.200	"	2.57	0.0116	91.2	75-125				
Copper	31.8	0.400	"	51.3	0.990	60.0	75-125				QM-05
Lead	27.7	0.200	"	25.7	5.42	86.8	75-125				
Nickel	31.2	0.400	"	51.3	0.377	60.1	75-125				QM-05
Silver	2.31	0.0200	"	2.57	0.0349	88.7	75-125				
Zinc	31.0	0.400	"	51.3	0.712	59.0	75-125				QM-05
Selenium	6.22	0.260	"	5.13	1.33	95.3	75-125				

Matrix Spike Dup (BHJ0130-MSD1)

Source: 2409325-01

Prepared & Analyzed: 10/03/24

Arsenic	41.6	0.181	mg/kg dry	46.5	9.24	69.7	75-125	0.288	25		QM-05
Barium	219	0.362	"	46.5	148	152	75-125	4.19	25		QM-05
Cadmium	2.12	0.181	"	2.32	0.0116	90.7	75-125	10.5	25		
Copper	27.3	0.362	"	46.5	0.990	56.6	75-125	15.1	25		QM-05
Lead	25.4	0.181	"	23.2	5.42	86.2	75-125	8.47	25		
Nickel	26.8	0.362	"	46.5	0.377	56.9	75-125	15.2	25		QM-05
Silver	2.10	0.0181	"	2.32	0.0349	89.0	75-125	9.49	25		
Zinc	26.4	0.362	"	46.5	0.712	55.2	75-125	16.2	25		QM-05
Selenium	6.21	0.236	"	4.65	1.33	105	75-125	0.0505	25		

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 PO Box 1289
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Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/07/24 08:30

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHJ0153 - 3060A Mod

Blank (BHJ0153-BLK1)

Prepared & Analyzed: 10/03/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHJ0153-BS1)

Prepared & Analyzed: 10/03/24

Chromium, Hexavalent 26.4 0.30 mg/kg wet 25.0 106 80-120

Duplicate (BHJ0153-DUP1)

Source: 2409325-01

Prepared & Analyzed: 10/03/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHJ0153-MS1)

Source: 2409325-01

Prepared & Analyzed: 10/03/24

Chromium, Hexavalent 33.7 0.30 mg/kg dry 32.1 ND 105 75-125

Matrix Spike Dup (BHJ0153-MSD1)

Source: 2409325-01

Prepared & Analyzed: 10/03/24

Chromium, Hexavalent 33.8 0.30 mg/kg dry 32.1 ND 105 75-125 0.380 20

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Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/07/24 08:30

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

Summit Scientific

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

Batch BHJ0121 - General Preparation

Blank (BHJ0121-BLK1)

Prepared: 10/02/24 Analyzed: 10/04/24

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

LCS (BHJ0121-BS1)

Prepared: 10/02/24 Analyzed: 10/04/24

Calcium	4.88	0.0500	mg/L wet	5.00		97.7	70-130			
Magnesium	4.73	0.0500	"	5.00		94.6	70-130			
Sodium	4.87	0.0500	"	5.00		97.4	70-130			

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Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/07/24 08:30

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

Summit Scientific

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

Batch BHJ0128 - General Preparation

Duplicate (BHJ0128-DUP1)

Source: 2409325-01

Prepared & Analyzed: 10/03/24

% Solids	79.8		%		77.9			2.30	20	
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Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/07/24 08:30

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BHJ0122 - General Preparation

Blank (BHJ0122-BLK1)

Prepared: 10/02/24 Analyzed: 10/03/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHJ0122-BS1)

Prepared: 10/02/24 Analyzed: 10/03/24

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHJ0122-DUP1)

Source: 2410031-01

Prepared: 10/02/24 Analyzed: 10/03/24

Specific Conductance (EC) 0.265 0.0100 mmhos/cm 0.266 0.564 20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/07/24 08:30

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

Summit Scientific

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

Batch BHJ0123 - General Preparation

LCS (BHJ0123-BS1)

Prepared: 10/02/24 Analyzed: 10/03/24

pH	9.17	pH Units	9.18	99.9	95-105
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Duplicate (BHJ0123-DUP1)

Source: 2410006-01

Prepared: 10/02/24 Analyzed: 10/03/24

pH	9.02	pH Units	9.03	0.111	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/07/24 08:30

Notes and Definitions

- QR-01 Analyses are not controlled on RPD values from sample concentrations below the reporting limit. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
- 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