

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 04, 2024

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Jepsen Excavation
Work Order #2410011

Enclosed are the results of analyses for samples received by Summit Scientific on 10/01/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and "W".

Jacob Wood 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:
10/04/24 12:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWV N01Wall - 8ft	2410011-01	Soil	10/01/24 00:00	10/01/24 16:30
PWV EWall - 8ft	2410011-02	Soil	10/01/24 00:00	10/01/24 16:30
PWV S01Wall - 8ft	2410011-03	Soil	10/01/24 00:00	10/01/24 16:30
GWS	2410011-04	Water	10/01/24 00:00	10/01/24 16:30

Summit Scientific

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

Lab ID	Page 1 of 1
2410011	

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

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Analysis Requested							Special Instructions
					HCl	HNO3	None	Other	Water	Soil		Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate	
1	PWV NO1 Wall - 8ft	10/1/24		2			X			X		X	X	X	X	X			
2	PWV E Wall - 8ft	I		1			I					I	I	I	I	I			
3	PWV SO1 Wall - 8ft	I		1			I					I	I	I	I	I			
4	GWS	I		3			X					X	I	I	I	I	X		
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by:	Date/Time: 10/1/24 15:50	Received by: Summit North	Date/Time: 10/1/24 15:50	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time: 10/24 1630	Received by:	Date/Time: 10/24 1630	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day <input type="checkbox"/>	Field ORP	
				2 Days <input type="checkbox"/>	Field pH	
				3 Days <input type="checkbox"/>	Field Temp.	
Temperature Upon Receipt: 7.5	Corrected Temperature: 8	IR gun #: 1	HNO3 lot #:	Standard <input type="checkbox"/>	Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2410011

Client: Tremont 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"/>	on ice
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"/>	Same day
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 checked="" type="checkbox"/>	<input type="checkbox"/>	no sample times
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample #2
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)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
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

10/1/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/04/24 12:45

PWV N01Wall - 8ft
2410011-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0051	10/01/24	10/01/24	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: **10/01/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0427	107 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0379	94.8 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0054	10/01/24	10/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.52	68.1 %		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:
10/04/24 12:45

**PWV N01Wall - 8ft
2410011-01 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0057	10/02/24	10/02/24	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: **10/01/24 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	0.0167	50.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0080	10/02/24	10/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/01/24 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:
10/04/24 12:45

PWV N01Wall - 8ft
2410011-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.763	0.200	mg/kg dry	1	BHJ0088	10/02/24	10/03/24	EPA 6020B
Barium	25.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.74	0.400	"	"	"	"	"	"
Lead	2.59	0.200	"	"	"	"	"	"
Nickel	1.82	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	7.93	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0063	10/02/24	10/02/24	EPA 7196A	

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

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.8	0.0500	mg/L dry	1	BHJ0025	10/01/24	10/02/24	EPA 6020B	
Magnesium	7.60	0.0500	"	"	"	"	"	"	
Sodium	60.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.98	0.00100	units	1	BHJ0160	10/03/24	10/03/24	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:
 10/04/24 12:45

**PWV N01Wall - 8ft
 2410011-01 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.6		%	1	BHJ0064	10/02/24	10/02/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.514	0.0100	mmhos/cm	1	BHJ0027	10/01/24	10/02/24	EPA 120.1	

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

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.99		pH Units	1	BHJ0026	10/01/24	10/02/24	EPA 9045D	

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Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/04/24 12:45

**PWV EWall - 8ft
2410011-02 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0051	10/01/24	10/01/24	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: **10/01/24 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	0.0391	97.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0054	10/01/24	10/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.69	69.6 %	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:
 10/04/24 12:45

PWV EWall - 8ft
2410011-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0057	10/02/24	10/02/24	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: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0180	54.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0198	59.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0080	10/02/24	10/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/01/24 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 - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/04/24 12:45

**PWV EWall - 8ft
2410011-02 (Soil)**

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.925	0.200	mg/kg dry	1	BHJ0088	10/02/24	10/03/24	EPA 6020B
Barium	29.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.39	0.400	"	"	"	"	"	"
Lead	2.84	0.200	"	"	"	"	"	"
Nickel	2.37	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	10.1	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/01/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0063	10/02/24	10/02/24	EPA 7196A	

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

Date Sampled: 10/01/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	21.0	0.0500	mg/L dry	1	BHJ0025	10/01/24	10/02/24	EPA 6020B	
Magnesium	7.21	0.0500	"	"	"	"	"	"	
Sodium	70.4	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/01/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.38	0.00100	units	1	BHJ0160	10/03/24	10/03/24	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:
 10/04/24 12:45

**PWV EWall - 8ft
 2410011-02 (Soil)**

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.0		%	1	BHJ0064	10/02/24	10/02/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/01/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.378	0.0100	mmhos/cm	1	BHJ0027	10/01/24	10/02/24	EPA 120.1	

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

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.84		pH Units	1	BHJ0026	10/01/24	10/02/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
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Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/04/24 12:45

PWV S01Wall - 8ft
2410011-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0051	10/01/24	10/01/24	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: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0443	111 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.3 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0054	10/01/24	10/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	18.8	75.4 %	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:
10/04/24 12:45

PWV S01Wall - 8ft
2410011-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0057	10/02/24	10/03/24	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: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0157	47.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0159	47.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0080	10/02/24	10/03/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/01/24 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 - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/04/24 12:45

**PWV S01Wall - 8ft
2410011-03 (Soil)**

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Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	0.725	0.200	mg/kg dry	1	BHJ0088	10/02/24	10/03/24	EPA 6020B
Barium	30.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.97	0.400	"	"	"	"	"	"
Lead	2.50	0.200	"	"	"	"	"	"
Nickel	1.98	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	8.46	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: 10/01/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0063	10/02/24	10/02/24	EPA 7196A	

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

Date Sampled: 10/01/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.1	0.0500	mg/L dry	1	BHJ0025	10/01/24	10/03/24	EPA 6020B	
Magnesium	7.58	0.0500	"	"	"	"	"	"	
Sodium	45.6	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 10/01/24 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.90	0.00100	units	1	BHJ0160	10/03/24	10/03/24	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:
 10/04/24 12:45

**PWV S01Wall - 8ft
 2410011-03 (Soil)**

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.8		%	1	BHJ0064	10/02/24	10/02/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.28	0.0100	mmhos/cm	1	BHJ0027	10/01/24	10/02/24	EPA 120.1	

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

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.75		pH Units	1	BHJ0026	10/01/24	10/02/24	EPA 9045D	

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Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/04/24 12:45

GWS
2410011-04 (Water)

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Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BHJ0052	10/01/24	10/01/24	EPA 8260B	
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		"	"	"	"	"	"	

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.3	99.9 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	12.2	91.1 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.1	98.0 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	155	0.0600		mg/L	50	BHJ0039	10/01/24	10/02/24	EPA 300.0	
Sulfate	309	0.300		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **10/01/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	510	10.0		mg/L	1	BHJ0066	10/02/24	10/03/24	SM2540C	JAN

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Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/04/24 12:45

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHJ0051 - EPA 5030 Soil MS

Blank (BHJ0051-BLK1)

Prepared: 10/01/24 Analyzed: 10/02/24

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		97.1	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.1	50-150			

LCS (BHJ0051-BS1)

Prepared: 10/01/24 Analyzed: 10/02/24

Benzene	0.101	0.0020	mg/kg	0.100		101	70-130			
Toluene	0.0964	0.0050	"	0.100		96.4	70-130			
Ethylbenzene	0.104	0.0050	"	0.100		104	70-130			
m,p-Xylene	0.201	0.010	"	0.200		100	70-130			
o-Xylene	0.100	0.0050	"	0.100		100	70-130			
1,2,4-Trimethylbenzene	0.100	0.0050	"	0.100		100	70-130			
1,3,5-Trimethylbenzene	0.100	0.0050	"	0.100		100	70-130			
Naphthalene	0.0864	0.0038	"	0.100		86.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0383		"	0.0400		95.8	50-150			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0374		"	0.0400		93.6	50-150			

Matrix Spike (BHJ0051-MS1)

Source: 2410011-01

Prepared: 10/01/24 Analyzed: 10/02/24

Benzene	0.0977	0.0020	mg/kg	0.100	ND	97.7	70-130			
Toluene	0.0952	0.0050	"	0.100	ND	95.2	70-130			
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	70-130			
m,p-Xylene	0.201	0.010	"	0.200	ND	100	70-130			
o-Xylene	0.0974	0.0050	"	0.100	ND	97.4	70-130			
1,2,4-Trimethylbenzene	0.0983	0.0050	"	0.100	ND	98.3	70-130			
1,3,5-Trimethylbenzene	0.0988	0.0050	"	0.100	ND	98.8	70-130			
Naphthalene	0.0782	0.0038	"	0.100	ND	78.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0400		"	0.0400		99.9	50-150			
Surrogate: Toluene-d8	0.0396		"	0.0400		99.1	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	50-150			

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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:
10/04/24 12:45

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 BHJ0051 - EPA 5030 Soil MS

Matrix Spike Dup (BHJ0051-MSD1)

Source: 2410011-01

Prepared: 10/01/24 Analyzed: 10/02/24

Benzene	0.0969	0.0020	mg/kg	0.100	ND	96.9	70-130	0.863	30	
Toluene	0.0942	0.0050	"	0.100	ND	94.2	70-130	1.05	30	
Ethylbenzene	0.101	0.0050	"	0.100	ND	101	70-130	1.82	30	
m,p-Xylene	0.195	0.010	"	0.200	ND	97.3	70-130	3.17	30	
o-Xylene	0.0959	0.0050	"	0.100	ND	95.9	70-130	1.58	30	
1,2,4-Trimethylbenzene	0.0956	0.0050	"	0.100	ND	95.6	70-130	2.72	30	
1,3,5-Trimethylbenzene	0.0974	0.0050	"	0.100	ND	97.4	70-130	1.50	30	
Naphthalene	0.0789	0.0038	"	0.100	ND	78.9	70-130	0.917	30	
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0400		99.4	50-150			
Surrogate: Toluene-d8	0.0390		"	0.0400		97.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		94.0	50-150			

Batch BHJ0052 - EPA 5030 Water MS

Blank (BHJ0052-BLK1)

Prepared & Analyzed: 10/01/24

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	13.1		"	13.3		98.4	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.3	20-170			
Surrogate: 4-Bromofluorobenzene	16.5		"	13.3		124	21-167			

LCS (BHJ0052-BS1)

Prepared & Analyzed: 10/01/24

Benzene	37.0	1.0	ug/l	33.3		111	51-132			
Toluene	37.9	1.0	"	33.3		114	51-138			
Ethylbenzene	36.2	1.0	"	33.3		109	58-146			
m,p-Xylene	74.7	2.0	"	66.7		112	57-144			
o-Xylene	33.9	1.0	"	33.3		102	53-146			
Naphthalene	24.4	1.0	"	33.3		73.2	70-130			
1,2,4-Trimethylbenzene	35.0	1.0	"	33.3		105	70-130			
1,3,5-Trimethylbenzene	36.8	1.0	"	33.3		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.4		"	13.3		92.7	23-173			
Surrogate: Toluene-d8	14.0		"	13.3		105	20-170			
Surrogate: 4-Bromofluorobenzene	12.2		"	13.3		91.4	21-167			

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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:
 10/04/24 12:45

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHJ0052 - EPA 5030 Water MS

LCS Dup (BHJ0052-BSD1)

Prepared & Analyzed: 10/01/24

Benzene	38.5	1.0	ug/l	33.3	115	51-132	4.06	20	
Toluene	39.6	1.0	"	33.3	119	51-138	4.36	20	
Ethylbenzene	40.9	1.0	"	33.3	123	58-146	12.1	20	
m,p-Xylene	85.3	2.0	"	66.7	128	57-144	13.3	20	
o-Xylene	38.3	1.0	"	33.3	115	53-146	12.2	20	
Naphthalene	27.3	1.0	"	33.3	81.9	70-130	11.3	20	
1,2,4-Trimethylbenzene	40.1	1.0	"	33.3	120	70-130	13.7	20	
1,3,5-Trimethylbenzene	41.0	1.0	"	33.3	123	70-130	10.9	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>13.1</i>		<i>"</i>	<i>13.3</i>	<i>98.0</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>14.0</i>		<i>"</i>	<i>13.3</i>	<i>105</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>12.1</i>		<i>"</i>	<i>13.3</i>	<i>90.5</i>	<i>21-167</i>			

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Project: Noble - Jepsen Excavation

Project Number: CO23-220
 Project Manager: Paul Henchan

Reported:
 10/04/24 12:45

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 BHJ0054 - EPA 3550A

Blank (BHJ0054-BLK1)

Prepared: 10/01/24 Analyzed: 10/02/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.1		"	12.5		96.6	30-150				

LCS (BHJ0054-BS1)

Prepared: 10/01/24 Analyzed: 10/02/24

C10-C28 (DRO)	531	50	mg/kg	500		106	70-130				
Surrogate: <i>o</i> -Terphenyl	12.6		"	12.5		101	30-150				

Matrix Spike (BHJ0054-MS1)

Source: 2410011-01

Prepared: 10/01/24 Analyzed: 10/02/24

C10-C28 (DRO)	480	50	mg/kg	500	ND	96.0	70-130				
Surrogate: <i>o</i> -Terphenyl	9.65		"	12.5		77.2	30-150				

Matrix Spike Dup (BHJ0054-MSD1)

Source: 2410011-01

Prepared: 10/01/24 Analyzed: 10/02/24

C10-C28 (DRO)	439	50	mg/kg	500	ND	87.9	70-130	8.87	20		
Surrogate: <i>o</i> -Terphenyl	9.83		"	12.5		78.7	30-150				

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Wellington CO, 80549

Project: Noble - Jepsen Excavation

Project Number: CO23-220
Project Manager: Paul Henchan

Reported:
10/04/24 12:45

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 BHJ0057 - EPA 5030 Soil MS

Blank (BHJ0057-BLK1)

Prepared & Analyzed: 10/02/24

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>0.0177</i>		"	<i>0.0333</i>		<i>53.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0234</i>		"	<i>0.0333</i>		<i>70.3</i>	<i>40-150</i>			

LCS (BHJ0057-BS1)

Prepared & Analyzed: 10/02/24

Acenaphthene	0.0239	0.00500	mg/kg	0.0333		71.7	31-137			
Anthracene	0.0233	0.00500	"	0.0333		69.8	30-120			
Benzo (a) anthracene	0.0244	0.00500	"	0.0333		73.1	30-120			
Benzo (a) pyrene	0.0225	0.00500	"	0.0333		67.5	30-120			
Benzo (b) fluoranthene	0.0237	0.00500	"	0.0333		71.0	30-120			
Benzo (k) fluoranthene	0.0239	0.00500	"	0.0333		71.7	30-120			
Chrysene	0.0246	0.00500	"	0.0333		73.7	30-120			
Dibenz (a,h) anthracene	0.0194	0.00500	"	0.0333		58.3	30-120			
Fluoranthene	0.0233	0.00500	"	0.0333		69.8	30-120			
Fluorene	0.0239	0.00500	"	0.0333		71.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0207	0.00500	"	0.0333		62.0	30-120			
Pyrene	0.0261	0.00500	"	0.0333		78.3	35-142			
1-Methylnaphthalene	0.0209	0.00500	"	0.0333		62.7	35-142			
2-Methylnaphthalene	0.0205	0.00500	"	0.0333		61.6	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0207</i>		"	<i>0.0333</i>		<i>62.2</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0230</i>		"	<i>0.0333</i>		<i>68.9</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:
10/04/24 12:45

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 BHJ0057 - EPA 5030 Soil MS

Matrix Spike (BHJ0057-MS1)	Source: 2409478-01			Prepared & Analyzed: 10/02/24						
Acenaphthene	0.0170	0.00500	mg/kg	0.0333	ND	51.0	31-137			
Anthracene	0.0168	0.00500	"	0.0333	ND	50.5	30-120			
Benzo (a) anthracene	0.0167	0.00500	"	0.0333	ND	50.0	30-120			
Benzo (a) pyrene	0.0149	0.00500	"	0.0333	ND	44.8	30-120			
Benzo (b) fluoranthene	0.0145	0.00500	"	0.0333	ND	43.4	30-120			
Benzo (k) fluoranthene	0.0154	0.00500	"	0.0333	ND	46.3	30-120			
Chrysene	0.0164	0.00500	"	0.0333	ND	49.2	30-120			
Dibenz (a,h) anthracene	0.0147	0.00500	"	0.0333	ND	44.2	30-120			
Fluoranthene	0.0158	0.00500	"	0.0333	ND	47.5	30-120			
Fluorene	0.0171	0.00500	"	0.0333	ND	51.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0149	0.00500	"	0.0333	ND	44.8	30-120			
Pyrene	0.0162	0.00500	"	0.0333	ND	48.7	35-142			
1-Methylnaphthalene	0.0151	0.00500	"	0.0333	ND	45.2	15-130			
2-Methylnaphthalene	0.0155	0.00500	"	0.0333	ND	46.6	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0159</i>		<i>"</i>	<i>0.0333</i>		<i>47.7</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0159</i>		<i>"</i>	<i>0.0333</i>		<i>47.8</i>	<i>40-150</i>			

Matrix Spike Dup (BHJ0057-MSD1)	Source: 2409478-01			Prepared & Analyzed: 10/02/24						
Acenaphthene	0.0171	0.00500	mg/kg	0.0333	ND	51.3	31-137	0.575	30	
Anthracene	0.0170	0.00500	"	0.0333	ND	51.0	30-120	0.955	30	
Benzo (a) anthracene	0.0177	0.00500	"	0.0333	ND	53.2	30-120	6.22	30	
Benzo (a) pyrene	0.0159	0.00500	"	0.0333	ND	47.8	30-120	6.43	30	
Benzo (b) fluoranthene	0.0157	0.00500	"	0.0333	ND	47.0	30-120	7.81	30	
Benzo (k) fluoranthene	0.0165	0.00500	"	0.0333	ND	49.4	30-120	6.38	30	
Chrysene	0.0174	0.00500	"	0.0333	ND	52.3	30-120	6.18	30	
Dibenz (a,h) anthracene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	0.826	30	
Fluoranthene	0.0167	0.00500	"	0.0333	ND	50.2	30-120	5.53	30	
Fluorene	0.0173	0.00500	"	0.0333	ND	52.0	30-120	1.10	30	
Indeno (1,2,3-cd) pyrene	0.0171	0.00500	"	0.0333	ND	51.4	30-120	13.7	30	
Pyrene	0.0164	0.00500	"	0.0333	ND	49.3	35-142	1.25	30	
1-Methylnaphthalene	0.0138	0.00500	"	0.0333	ND	41.3	15-130	8.95	50	
2-Methylnaphthalene	0.0143	0.00500	"	0.0333	ND	42.9	15-130	8.39	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0142</i>		<i>"</i>	<i>0.0333</i>		<i>42.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0165</i>		<i>"</i>	<i>0.0333</i>		<i>49.5</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:
 10/04/24 12:45

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

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

Batch BHJ0080 - EPA 3050B

Blank (BHJ0080-BLK1)

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

Boron ND 2.00 mg/L

LCS (BHJ0080-BS1)

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

Boron 4.98 2.00 mg/L 5.00 99.6 80-120

Duplicate (BHJ0080-DUP1)

Source: 2410011-01

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

Boron 0.158 2.00 mg/L 0.183 14.7 20

Matrix Spike (BHJ0080-MS1)

Source: 2410011-01

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

Boron 4.69 2.00 mg/L 4.98 0.183 90.7 75-125

Matrix Spike Dup (BHJ0080-MSD1)

Source: 2410011-01

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

Boron 4.85 2.00 mg/L 4.98 0.183 93.9 75-125 3.35 25

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:
10/04/24 12:45

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHJ0088 - EPA 3050B

Blank (BHJ0088-BLK1)

Prepared: 10/02/24 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 (BHJ0088-BS1)

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

Arsenic	33.1	0.200	mg/kg wet	36.5	90.6	80-120
Barium	33.6	0.400	"	36.5	92.1	80-120
Cadmium	1.68	0.200	"	1.82	91.9	80-120
Copper	36.0	0.400	"	36.5	98.7	80-120
Lead	16.3	0.200	"	18.2	89.4	80-120
Nickel	35.5	0.400	"	36.5	97.4	80-120
Silver	1.67	0.0200	"	1.82	91.7	80-120
Zinc	35.7	0.400	"	36.5	97.8	80-120
Selenium	3.59	0.260	"	3.65	98.3	80-120

Duplicate (BHJ0088-DUP1)

Source: 2410011-01

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

Arsenic	0.776	0.200	mg/kg dry	0.763	1.79	20
Barium	25.7	0.400	"	25.7	0.134	20
Cadmium	0.0500	0.200	"	0.0527	5.28	20
Copper	1.83	0.400	"	1.74	5.04	20
Lead	2.47	0.200	"	2.59	4.61	20
Nickel	1.91	0.400	"	1.82	4.68	20
Silver	0.0143	0.0200	"	0.0147	2.21	20
Zinc	8.19	0.400	"	7.93	3.25	20
Selenium	ND	0.260	"	ND		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:
 10/04/24 12:45

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 BHJ0088 - EPA 3050B

Matrix Spike (BHJ0088-MS1)

Source: 2410011-01

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

Arsenic	37.2	0.200	mg/kg dry	43.1	0.763	84.5	75-125			
Barium	61.5	0.400	"	43.1	25.7	82.8	75-125			
Cadmium	1.94	0.200	"	2.16	0.0527	87.5	75-125			
Copper	35.1	0.400	"	43.1	1.74	77.3	75-125			
Lead	20.6	0.200	"	21.6	2.59	83.4	75-125			
Nickel	35.2	0.400	"	43.1	1.82	77.4	75-125			
Silver	1.85	0.0200	"	2.16	0.0147	85.1	75-125			
Zinc	42.0	0.400	"	43.1	7.93	79.0	75-125			
Selenium	4.02	0.260	"	4.31	ND	93.1	75-125			

Matrix Spike Dup (BHJ0088-MSD1)

Source: 2410011-01

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

Arsenic	41.2	0.200	mg/kg dry	46.2	0.763	87.6	75-125	10.3	25
Barium	67.6	0.400	"	46.2	25.7	90.6	75-125	9.48	25
Cadmium	2.21	0.200	"	2.31	0.0527	93.3	75-125	12.9	25
Copper	38.9	0.400	"	46.2	1.74	80.4	75-125	10.2	25
Lead	23.1	0.200	"	23.1	2.59	89.0	75-125	11.8	25
Nickel	38.8	0.400	"	46.2	1.82	80.1	75-125	9.69	25
Silver	2.10	0.0200	"	2.31	0.0147	90.5	75-125	12.8	25
Zinc	46.7	0.400	"	46.2	7.93	84.0	75-125	10.6	25
Selenium	4.51	0.260	"	4.62	ND	97.7	75-125	11.6	25

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:
 10/04/24 12:45

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHJ0063 - 3060A Mod

Blank (BHJ0063-BLK1)

Prepared & Analyzed: 10/02/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHJ0063-BS1)

Prepared & Analyzed: 10/02/24

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

Duplicate (BHJ0063-DUP1)

Source: 2410011-01

Prepared & Analyzed: 10/02/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHJ0063-MS1)

Source: 2410011-01

Prepared & Analyzed: 10/02/24

Chromium, Hexavalent 29.5 0.30 mg/kg dry 29.5 ND 99.8 75-125

Matrix Spike Dup (BHJ0063-MSD1)

Source: 2410011-01

Prepared & Analyzed: 10/02/24

Chromium, Hexavalent 31.1 0.30 mg/kg dry 29.5 ND 105 75-125 5.27 20

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:
 10/04/24 12:45

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 BHJ0025 - General Preparation

Blank (BHJ0025-BLK1)

Prepared: 10/01/24 Analyzed: 10/02/24

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

LCS (BHJ0025-BS1)

Prepared: 10/01/24 Analyzed: 10/02/24

Calcium	6.50	0.0500	mg/L wet	5.00		130	70-130			
Magnesium	5.67	0.0500	"	5.00		113	70-130			
Sodium	5.24	0.0500	"	5.00		105	70-130			

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:
 10/04/24 12:45

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 BHJ0039 - General Preparation

Blank (BHJ0039-BLK1)

Prepared & Analyzed: 10/01/24

Chloride	ND	0.0600	mg/L						
Sulfate	ND	0.300	"						

LCS (BHJ0039-BS1)

Prepared & Analyzed: 10/01/24

Chloride	2.99	0.0600	mg/L	3.00	99.7	90-110
Sulfate	14.9	0.300	"	15.0	99.5	90-110

Duplicate (BHJ0039-DUP1)

Source: 2409398-01

Prepared & Analyzed: 10/01/24

Chloride	224	0.0600	mg/L		224	0.212	20
Sulfate	1860	0.300	"		1860	0.160	20

Matrix Spike (BHJ0039-MS1)

Source: 2409398-01

Prepared & Analyzed: 10/01/24

Chloride	378	0.0600	mg/L	150	224	103	80-120
Sulfate	2690	0.300	"	750	1860	110	80-120

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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:
 10/04/24 12:45

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 BHJ0064 - General Preparation


Duplicate (BHJ0064-DUP1)

Source: 2409459-31

Prepared & Analyzed: 10/02/24

% Solids	93.8		%		93.9			0.197	20	
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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:
 10/04/24 12:45

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BHJ0066 - General Preparation

Blank (BHJ0066-BLK1)

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

Total Dissolved Solids ND 10.0 mg/L


Duplicate (BHJ0066-DUP1)

Source: 2409465-13

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

Total Dissolved Solids 3700 10.0 mg/L 3590 3.02 20

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:
 10/04/24 12:45

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 BHJ0027 - General Preparation

Blank (BHJ0027-BLK1)

Prepared: 10/01/24 Analyzed: 10/02/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHJ0027-BS1)

Prepared: 10/01/24 Analyzed: 10/02/24

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHJ0027-DUP1)

Source: 2409423-01

Prepared: 10/01/24 Analyzed: 10/02/24

Specific Conductance (EC) 0.251 0.0100 mmhos/cm 0.256 1.94 20

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:
 10/04/24 12:45

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 BHJ0026 - General Preparation

LCS (BHJ0026-BS1)

Prepared: 10/01/24 Analyzed: 10/02/24

pH	9.17	pH Units	9.18	99.9	95-105
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Duplicate (BHJ0026-DUP1)

Source: 2409423-01

Prepared: 10/01/24 Analyzed: 10/02/24

pH	8.63	pH Units	8.74	1.27	20
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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:
10/04/24 12:45

Notes and Definitions

JAN	The reported TDS concentration is a qualitative estimate based on Total Anion Value + 10%. This has been adjusted to account for the sum of major anions as measured by ion chromatography.
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