

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 24, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - McKay Fed T7N-R64W-S2 L01

Work Order #2410252

Enclosed are the results of analyses for samples received by Summit Scientific on 10/16/24 17:21. 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 - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN

Project Manager: Paul Henchan

**Reported:**  
10/24/24 10:19

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01 - 0.5FT	2410252-01	Soil	10/16/24 00:00	10/16/24 17:21
PWV S Wall - 3FT	2410252-02	Soil	10/16/24 00:00	10/16/24 17:21
PWV B Wall - 4FT	2410252-03	Soil	10/16/24 00:00	10/16/24 17:21
SEP DL - 3FT	2410252-04	Soil	10/16/24 00:00	10/16/24 17:21

Summit Scientific

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

Lab ID	Page 1 of 1
2410252	

		<b>Send Data To:</b>	<b>Send Invoice To:</b>
Client: Fremont Environmental		Project Manager: Paul Henehan	Company: Noble
Address:		E-Mail: Fremont Distribution List	Project Name/Location:
City/State/Zip:			AFE#:
Phone: 303-261-6246		Project Name: McKay Fed T7N-R64W-S2L01	PO/Billing Codes: UWRWE-A2604-ABN
Sampler Name: Stanley Gilbert		Project Number:	Contact: Mike Montoya

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
1	AST01-0.5Ft	10/16/24		2			X			X			X	X	X	X			
2	pwv S Wall-3Ft	I		I			X			X			X	X	X	X			
3	pwv B Wall-4Ft	I		I			X			X			X	X	X	X			
4	SEP DL-3Ft	I		I			X			X			X	X	X	X			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by:	Date/Time: 10/16/24 17:18	Received by:	Date/Time: 10/16/24 17:21	TAT Business Days	Field DO	<b>Notes:</b>
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: 2.8°C	Corrected Temperature	IR gun #: 02	HNO3 lot #:			

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2410252

Client: Farmington Environmental Client Project ID: Melby Fed T7N-264W-S2101

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? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation ( <b>excluding cooling</b> )? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

Control Form #: SRC-001

GAZ  
Custodian Printed Name

10/16/24 17:21  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/24/24 10:19

**AST01 - 0.5FT**  
**2410252-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHJ0690	10/17/24	10/18/24	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: **10/16/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0416	104 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0414	103 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.2 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHJ0691	10/17/24	10/18/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.62	77.0 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
 Project Manager: Paul Henchan

**Reported:**  
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**AST01 - 0.5FT**  
**2410252-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0668	10/17/24	10/19/24	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: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0213	64.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0219	65.8 %	40-150		"	"	"	"	

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0746	10/18/24	10/20/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/16/24 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 - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/24/24 10:19

**AST01 - 0.5FT**  
**2410252-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.34	0.200	mg/kg dry	1	BHJ0763	10/18/24	10/21/24	EPA 6020B	
Barium	99.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	6.73	0.400	"	"	"	"	"	"	
Lead	7.19	0.200	"	"	"	"	"	"	
Nickel	7.40	0.400	"	"	"	"	"	"	
Silver	0.0291	0.0200	"	"	"	"	"	"	
Zinc	27.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0686	10/17/24	10/18/24	EPA 7196A	

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	35.4	0.0500	mg/L dry	1	BHJ0839	10/21/24	10/23/24	EPA 6020B	
Magnesium	7.87	0.0500	"	"	"	"	"	"	
Sodium	0.539	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0213	0.00100	units	1	BHJ1030	10/24/24	10/24/24	Calculation	

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

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 Wellington CO, 80549

Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 10/24/24 10:19

**AST01 - 0.5FT**  
**2410252-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.6		%	1	BHJ0761	10/18/24	10/18/24	Calculation	

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.142	0.0100	mmhos/cm	1	BHJ0856	10/21/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.70		pH Units	1	BHJ0855	10/21/24	10/23/24	EPA 9045D	

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Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/24/24 10:19

**PWV S Wall - 3FT**  
**2410252-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0690	10/17/24	10/18/24	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: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0436	109 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0434	109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.8 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>64</b>	50	mg/kg	1	BHJ0691	10/17/24	10/18/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.85	70.8 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 10/24/24 10:19

**PWV S Wall - 3FT**  
**2410252-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0668	10/17/24	10/19/24	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: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0183	54.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0189	56.7 %	40-150		"	"	"	"	

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0746	10/18/24	10/20/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/16/24 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 - McKay Fed T7N-R64W-S2 L01  
Project Number: UWRWE-A2604-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/24/24 10:19

**PWV S Wall - 3FT**  
**2410252-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.49	0.200	mg/kg dry	1	BHJ0763	10/18/24	10/21/24	EPA 6020B	
Barium	125	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	8.06	0.400	"	"	"	"	"	"	
Lead	6.98	0.200	"	"	"	"	"	"	
Nickel	7.15	0.400	"	"	"	"	"	"	
Silver	0.0269	0.0200	"	"	"	"	"	"	
Zinc	29.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0686	10/17/24	10/18/24	EPA 7196A	

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	38.0	0.0500	mg/L dry	1	BHJ0839	10/21/24	10/23/24	EPA 6020B	
Magnesium	9.91	0.0500	"	"	"	"	"	"	
Sodium	2.59	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0968	0.00100	units	1	BHJ1030	10/24/24	10/24/24	Calculation	

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

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Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 10/24/24 10:19

**PWV S Wall - 3FT**  
**2410252-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.8		%	1	BHJ0761	10/18/24	10/18/24	Calculation	

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.234	0.0100	mmhos/cm	1	BHJ0856	10/21/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45		pH Units	1	BHJ0855	10/21/24	10/23/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/24/24 10:19

**PWV B Wall - 4FT**  
**2410252-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHJ0690	10/17/24	10/18/24	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: **10/16/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0420	105 %	50-150	"	"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150	"	"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0691	10/17/24	10/18/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	10.3	82.6 %	30-150	"	"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - McKay Fed T7N-R64W-S2 L01  
Project Number: UWRWE-A2604-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/24/24 10:19

**PWV B Wall - 4FT**  
**2410252-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0668	10/17/24	10/19/24	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: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0170	51.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0193	57.9 %	40-150		"	"	"	"	

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0746	10/18/24	10/20/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/16/24 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 - McKay Fed T7N-R64W-S2 L01  
Project Number: UWRWE-A2604-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/24/24 10:19

**PWV B Wall - 4FT**  
**2410252-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.21	0.200	mg/kg dry	1	BHJ0763	10/18/24	10/21/24	EPA 6020B	
Barium	58.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.61	0.400	"	"	"	"	"	"	
Lead	6.40	0.200	"	"	"	"	"	"	
Nickel	5.03	0.400	"	"	"	"	"	"	
Silver	0.0220	0.0200	"	"	"	"	"	"	
Zinc	20.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0686	10/17/24	10/18/24	EPA 7196A	

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.0	0.0500	mg/L dry	1	BHJ0839	10/21/24	10/23/24	EPA 6020B	
Magnesium	8.12	0.0500	"	"	"	"	"	"	
Sodium	75.5	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.30	0.00100	units	1	BHJ1030	10/24/24	10/24/24	Calculation	

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

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 10/24/24 10:19

**PWV B Wall - 4FT**  
**2410252-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.8		%	1	BHJ0761	10/18/24	10/18/24	Calculation	

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.483	0.0100	mmhos/cm	1	BHJ0856	10/21/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.09		pH Units	1	BHJ0855	10/21/24	10/23/24	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/24/24 10:19

**SEP DL - 3FT**  
**2410252-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BHJ0690	10/17/24	10/18/24	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: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0411	103 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0430	108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C10-C28 (DRO)</b>	<b>160</b>	50	mg/kg	1	BHJ0691	10/17/24	10/18/24	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>64</b>	50	"	"	"	"	"	"	

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.43	67.4 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/24/24 10:19

**SEP DL - 3FT**  
**2410252-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0668	10/17/24	10/19/24	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	"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0115</b>	0.00500	"	"	"	"	"	"	

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0182	54.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0194	58.3 %	40-150		"	"	"	"	

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0746	10/18/24	10/20/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **10/16/24 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 - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/24/24 10:19

**SEP DL - 3FT**  
**2410252-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.58	0.200	mg/kg dry	1	BHJ0763	10/18/24	10/21/24	EPA 6020B
Barium	82.0	0.400	"	"	"	"	"	"
Cadmium	0.203	0.200	"	"	"	"	"	"
Copper	8.48	0.400	"	"	"	"	"	"
Lead	7.55	0.200	"	"	"	"	"	"
Nickel	7.97	0.400	"	"	"	"	"	"
Silver	0.0250	0.0200	"	"	"	"	"	"
Zinc	32.0	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0686	10/17/24	10/18/24	EPA 7196A	

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	90.3	0.0500	mg/L dry	1	BHJ0839	10/21/24	10/23/24	EPA 6020B	
Magnesium	93.0	0.0500	"	"	"	"	"	"	
Sodium	152	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.68	0.00100	units	1	BHJ1030	10/24/24	10/24/24	Calculation	

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - McKay Fed T7N-R64W-S2 L01  
 Project Number: UWRWE-A2604-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 10/24/24 10:19

**SEP DL - 3FT**  
**2410252-04 (Soil)**

**Summit Scientific**

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

% Solids	87.5	%	1	BHJ0761	10/18/24	10/18/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.425	0.0100	mmhos/cm	1	BHJ0856	10/21/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/16/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.42		pH Units	1	BHJ0855	10/21/24	10/23/24	EPA 9045D	

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Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/24/24 10:19

### Volatile Organic Compounds by EPA Method 8260B - Quality Control

#### Summit Scientific

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

#### Batch BHJ0690 - EPA 5030 Soil MS

##### Blank (BHJ0690-BLK1)

Prepared & Analyzed: 10/17/24

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0446</i>		<i>"</i>	<i>0.0400</i>		<i>111</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0414</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0408</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>50-150</i>				

##### LCS (BHJ0690-BS1)

Prepared & Analyzed: 10/17/24

Benzene	0.111	0.0020	mg/kg	0.100		111	70-130				
Toluene	0.112	0.0050	"	0.100		112	70-130				
Ethylbenzene	0.117	0.0050	"	0.100		117	70-130				
m,p-Xylene	0.233	0.010	"	0.200		117	70-130				
o-Xylene	0.103	0.0050	"	0.100		103	70-130				
1,2,4-Trimethylbenzene	0.110	0.0050	"	0.100		110	70-130				
1,3,5-Trimethylbenzene	0.114	0.0050	"	0.100		114	70-130				
Naphthalene	0.104	0.0038	"	0.100		104	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0432</i>		<i>"</i>	<i>0.0400</i>		<i>108</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0415</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>97.0</i>	<i>50-150</i>				

##### Matrix Spike (BHJ0690-MS1)

Source: 2410239-01

Prepared & Analyzed: 10/17/24

Benzene	0.106	0.0020	mg/kg	0.100	ND	106	70-130				
Toluene	0.105	0.0050	"	0.100	ND	105	70-130				
Ethylbenzene	0.110	0.0050	"	0.100	ND	110	70-130				
m,p-Xylene	0.221	0.010	"	0.200	0.00321	109	70-130				
o-Xylene	0.0975	0.0050	"	0.100	ND	97.5	70-130				
1,2,4-Trimethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130				
1,3,5-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130				
Naphthalene	0.118	0.0038	"	0.100	ND	118	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0451</i>		<i>"</i>	<i>0.0400</i>		<i>113</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0419</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>98.1</i>	<i>50-150</i>				

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Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/24/24 10:19

**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		

**Batch BHI0690 - EPA 5030 Soil MS**

Matrix Spike Dup (BHI0690-MSD1)	Source: 2410239-01			Prepared & Analyzed: 10/17/24						
Benzene	0.106	0.0020	mg/kg	0.100	ND	106	70-130	0.368	30	
Toluene	0.108	0.0050	"	0.100	ND	108	70-130	2.70	30	
Ethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130	0.569	30	
m,p-Xylene	0.227	0.010	"	0.200	0.00321	112	70-130	2.90	30	
o-Xylene	0.0976	0.0050	"	0.100	ND	97.6	70-130	0.154	30	
1,2,4-Trimethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130	1.56	30	
1,3,5-Trimethylbenzene	0.108	0.0050	"	0.100	ND	108	70-130	0.867	30	
Naphthalene	0.118	0.0038	"	0.100	ND	118	70-130	0.254	30	
Surrogate: 1,2-Dichloroethane-d4	0.0440		"	0.0400		110	50-150			
Surrogate: Toluene-d8	0.0418		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	50-150			

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/24/24 10:19

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

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

**Batch BHJ0691 - EPA 3550A**

**Blank (BHJ0691-BLK1)**

Prepared & Analyzed: 10/17/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	14.3		"	12.5		114	30-150			

**LCS (BHJ0691-BS1)**

Prepared & Analyzed: 10/17/24

C10-C28 (DRO)	471	50	mg/kg	500		94.3	70-130			
Surrogate: <i>o</i> -Terphenyl	13.5		"	12.5		108	30-150			

**Matrix Spike (BHJ0691-MS1)**

Source: 2410239-01

Prepared & Analyzed: 10/17/24

C10-C28 (DRO)	483	50	mg/kg	500	ND	96.6	70-130			
Surrogate: <i>o</i> -Terphenyl	11.2		"	12.5		89.6	30-150			

**Matrix Spike Dup (BHJ0691-MSD1)**

Source: 2410239-01

Prepared: 10/17/24 Analyzed: 10/18/24

C10-C28 (DRO)	483	50	mg/kg	500	ND	96.7	70-130	0.0434	20	
Surrogate: <i>o</i> -Terphenyl	11.3		"	12.5		90.2	30-150			

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/24/24 10:19

**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 BHJ0668 - EPA 5030 Soil MS**

**Blank (BHJ0668-BLK1)**

Prepared: 10/17/24 Analyzed: 10/18/24

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>0.0261</i>		<i>"</i>	<i>0.0333</i>		<i>78.4</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0293</i>		<i>"</i>	<i>0.0333</i>		<i>87.9</i>	<i>40-150</i>			

**LCS (BHJ0668-BS1)**

Prepared: 10/17/24 Analyzed: 10/18/24

Acenaphthene	0.0268	0.00500	mg/kg	0.0333	80.3	31-137
Anthracene	0.0278	0.00500	"	0.0333	83.3	30-120
Benzo (a) anthracene	0.0288	0.00500	"	0.0333	86.4	30-120
Benzo (a) pyrene	0.0251	0.00500	"	0.0333	75.2	30-120
Benzo (b) fluoranthene	0.0266	0.00500	"	0.0333	79.8	30-120
Benzo (k) fluoranthene	0.0261	0.00500	"	0.0333	78.2	30-120
Chrysene	0.0276	0.00500	"	0.0333	82.8	30-120
Dibenz (a,h) anthracene	0.0244	0.00500	"	0.0333	73.2	30-120
Fluoranthene	0.0276	0.00500	"	0.0333	82.7	30-120
Fluorene	0.0271	0.00500	"	0.0333	81.4	30-120
Indeno (1,2,3-cd) pyrene	0.0396	0.00500	"	0.0333	119	30-120
Pyrene	0.0267	0.00500	"	0.0333	80.1	35-142
1-Methylnaphthalene	0.0260	0.00500	"	0.0333	78.1	35-142
2-Methylnaphthalene	0.0271	0.00500	"	0.0333	81.4	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0260</i>		<i>"</i>	<i>0.0333</i>	<i>77.9</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0284</i>		<i>"</i>	<i>0.0333</i>	<i>85.1</i>	<i>40-150</i>

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/24/24 10:19

**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 BHJ0668 - EPA 5030 Soil MS**

**Matrix Spike (BHJ0668-MS1)**

Source: 2410219-01

Prepared: 10/17/24 Analyzed: 10/18/24

Acenaphthene	0.0242	0.00500	mg/kg	0.0333	ND	72.6	31-137			
Anthracene	0.0246	0.00500	"	0.0333	ND	73.8	30-120			
Benzo (a) anthracene	0.0252	0.00500	"	0.0333	ND	75.5	30-120			
Benzo (a) pyrene	0.0216	0.00500	"	0.0333	ND	64.9	30-120			
Benzo (b) fluoranthene	0.0223	0.00500	"	0.0333	ND	66.8	30-120			
Benzo (k) fluoranthene	0.0216	0.00500	"	0.0333	ND	64.7	30-120			
Chrysene	0.0237	0.00500	"	0.0333	ND	71.0	30-120			
Dibenz (a,h) anthracene	0.0232	0.00500	"	0.0333	ND	69.6	30-120			
Fluoranthene	0.0247	0.00500	"	0.0333	ND	74.2	30-120			
Fluorene	0.0245	0.00500	"	0.0333	ND	73.4	30-120			
Indeno (1,2,3-cd) pyrene	0.0374	0.00500	"	0.0333	ND	112	30-120			
Pyrene	0.0245	0.00500	"	0.0333	ND	73.5	35-142			
1-Methylnaphthalene	0.0241	0.00500	"	0.0333	ND	72.2	15-130			
2-Methylnaphthalene	0.0248	0.00500	"	0.0333	ND	74.3	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0232		"	0.0333		69.6	40-150			
Surrogate: Fluoranthene-d10	0.0247		"	0.0333		74.1	40-150			

**Matrix Spike Dup (BHJ0668-MSD1)**

Source: 2410219-01

Prepared: 10/17/24 Analyzed: 10/18/24

Acenaphthene	0.0229	0.00500	mg/kg	0.0333	ND	68.6	31-137	5.62	30
Anthracene	0.0235	0.00500	"	0.0333	ND	70.6	30-120	4.50	30
Benzo (a) anthracene	0.0245	0.00500	"	0.0333	ND	73.5	30-120	2.67	30
Benzo (a) pyrene	0.0208	0.00500	"	0.0333	ND	62.5	30-120	3.81	30
Benzo (b) fluoranthene	0.0214	0.00500	"	0.0333	ND	64.3	30-120	3.83	30
Benzo (k) fluoranthene	0.0203	0.00500	"	0.0333	ND	61.0	30-120	5.92	30
Chrysene	0.0227	0.00500	"	0.0333	ND	68.2	30-120	4.03	30
Dibenz (a,h) anthracene	0.0227	0.00500	"	0.0333	ND	68.2	30-120	2.01	30
Fluoranthene	0.0235	0.00500	"	0.0333	ND	70.5	30-120	5.16	30
Fluorene	0.0233	0.00500	"	0.0333	ND	69.9	30-120	4.87	30
Indeno (1,2,3-cd) pyrene	0.0365	0.00500	"	0.0333	ND	110	30-120	2.26	30
Pyrene	0.0225	0.00500	"	0.0333	ND	67.6	35-142	8.25	30
1-Methylnaphthalene	0.0230	0.00500	"	0.0333	ND	69.0	15-130	4.50	50
2-Methylnaphthalene	0.0236	0.00500	"	0.0333	ND	70.9	15-130	4.77	50
Surrogate: 2-Methylnaphthalene-d10	0.0228		"	0.0333		68.5	40-150		
Surrogate: Fluoranthene-d10	0.0236		"	0.0333		70.8	40-150		

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 10/24/24 10:19

**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 BHJ0746 - EPA 3050B**

**Blank (BHJ0746-BLK1)**

Prepared: 10/18/24 Analyzed: 10/20/24

Boron ND 2.00 mg/L

**LCS (BHJ0746-BS1)**

Prepared: 10/18/24 Analyzed: 10/20/24

Boron 4.70 2.00 mg/L 5.00 93.9 80-120

**Duplicate (BHJ0746-DUP1)**

Source: 2410239-01

Prepared: 10/18/24 Analyzed: 10/20/24

Boron 0.468 2.00 mg/L 0.485 3.47 20

**Matrix Spike (BHJ0746-MS1)**

Source: 2410239-01

Prepared: 10/18/24 Analyzed: 10/20/24

Boron 4.53 2.00 mg/L 5.02 0.485 80.7 75-125

**Matrix Spike Dup (BHJ0746-MSD1)**

Source: 2410239-01

Prepared: 10/18/24 Analyzed: 10/20/24

Boron 4.62 2.00 mg/L 5.02 0.485 82.4 75-125 1.96 25

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/24/24 10:19

**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 BHJ0763 - EPA 3050B**

**Blank (BHJ0763-BLK1)**

Prepared: 10/18/24 Analyzed: 10/21/24

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 (BHJ0763-BS1)**

Prepared: 10/18/24 Analyzed: 10/21/24

Arsenic	27.0	0.200	mg/kg wet	39.1	69.0	80-120				QM-05
Barium	30.5	0.400	"	39.1	78.0	80-120				QM-05
Cadmium	1.36	0.200	"	1.95	69.6	80-120				QM-05
Copper	29.0	0.400	"	39.1	74.4	80-120				QM-05
Lead	13.7	0.200	"	19.5	70.2	80-120				QM-05
Nickel	29.5	0.400	"	39.1	75.5	80-120				QM-05
Silver	1.38	0.0200	"	1.95	70.6	80-120				QM-05
Zinc	29.9	0.400	"	39.1	76.6	80-120				QM-05
Selenium	3.09	0.260	"	3.91	79.1	80-120				QM-05

**Duplicate (BHJ0763-DUP1)**

Source: 2410239-01

Prepared: 10/18/24 Analyzed: 10/21/24

Arsenic	1.00	0.200	mg/kg dry	0.635	44.9	20				QR-01
Barium	56.7	0.400	"	33.6	51.1	20				QR-02
Cadmium	0.173	0.200	"	0.111	43.3	20				QR-01
Copper	7.99	0.400	"	7.42	7.32	20				
Lead	6.52	0.200	"	5.42	18.5	20				
Nickel	8.17	0.400	"	6.05	29.8	20				QR-02
Silver	0.0271	0.0200	"	0.0280	3.47	20				
Zinc	29.2	0.400	"	29.2	0.0130	20				
Selenium	ND	0.260	"	ND		20				

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 10/24/24 10:19

**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 BHJ0763 - EPA 3050B**

**Matrix Spike (BHJ0763-MS1)**

Source: 2410239-01

Prepared: 10/18/24 Analyzed: 10/21/24

Arsenic	28.4	0.200	mg/kg dry	46.6	0.635	59.6	75-125				QM-05
Barium	88.9	0.400	"	46.6	33.6	118	75-125				
Cadmium	2.37	0.200	"	2.33	0.111	96.7	75-125				
Copper	53.0	0.400	"	46.6	7.42	97.8	75-125				
Lead	27.1	0.200	"	23.3	5.42	92.8	75-125				
Nickel	53.0	0.400	"	46.6	6.05	101	75-125				
Silver	2.23	0.0200	"	2.33	0.0280	94.4	75-125				
Zinc	74.6	0.400	"	46.6	29.2	97.3	75-125				
Selenium	4.31	0.260	"	4.66	ND	92.4	75-125				

**Matrix Spike Dup (BHJ0763-MSD1)**

Source: 2410239-01

Prepared: 10/18/24 Analyzed: 10/21/24

Arsenic	32.3	0.200	mg/kg dry	48.6	0.635	65.2	75-125	12.7	25		QM-05
Barium	98.9	0.400	"	48.6	33.6	134	75-125	10.7	25		QM-05
Cadmium	2.43	0.200	"	2.43	0.111	95.3	75-125	2.54	25		
Copper	56.3	0.400	"	48.6	7.42	101	75-125	5.98	25		
Lead	27.8	0.200	"	24.3	5.42	92.0	75-125	2.54	25		
Nickel	55.4	0.400	"	48.6	6.05	102	75-125	4.43	25		
Silver	2.31	0.0200	"	2.43	0.0280	93.8	75-125	3.36	25		
Zinc	77.2	0.400	"	48.6	29.2	98.8	75-125	3.43	25		
Selenium	4.40	0.260	"	4.86	ND	90.6	75-125	2.04	25		

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
Project Manager: Paul Henchan

**Reported:**  
10/24/24 10:19

**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 BHJ0686 - 3060A Mod**

**Blank (BHJ0686-BLK1)**

Prepared: 10/17/24 Analyzed: 10/18/24

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BHJ0686-BS1)**

Prepared: 10/17/24 Analyzed: 10/18/24

Chromium, Hexavalent 27.6 0.30 mg/kg wet 25.0 111 80-120

**Duplicate (BHJ0686-DUP1)**

**Source: 2410244-01**

Prepared: 10/17/24 Analyzed: 10/18/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BHJ0686-MS1)**

**Source: 2410244-01**

Prepared: 10/17/24 Analyzed: 10/18/24

Chromium, Hexavalent 30.6 0.30 mg/kg dry 28.5 ND 108 75-125

**Matrix Spike Dup (BHJ0686-MSD1)**

**Source: 2410244-01**

Prepared: 10/17/24 Analyzed: 10/18/24

Chromium, Hexavalent 29.7 0.30 mg/kg dry 28.5 ND 104 75-125 3.02 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 10/24/24 10:19

**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 BHJ0839 - General Preparation**

**Blank (BHJ0839-BLK1)**

Prepared: 10/21/24 Analyzed: 10/23/24

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

**LCS (BHJ0839-BS1)**

Prepared: 10/21/24 Analyzed: 10/23/24

Calcium	5.38	0.0500	mg/L wet	5.00	108	70-130				
Magnesium	5.30	0.0500	"	5.00	106	70-130				
Sodium	5.29	0.0500	"	5.00	106	70-130				

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 10/24/24 10:19

**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 BHJ0761 - General Preparation**

**Duplicate (BHJ0761-DUP1)**

**Source: 2410252-01**

**Prepared & Analyzed: 10/18/24**

% Solids	88.9		%		88.6			0.240	20	
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Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 10/24/24 10:19

**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 BHJ0856 - General Preparation**

**Blank (BHJ0856-BLK1)**

Prepared: 10/21/24 Analyzed: 10/23/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHJ0856-BS1)**

Prepared: 10/21/24 Analyzed: 10/23/24

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

**Duplicate (BHJ0856-DUP1)**

Source: 2410252-01

Prepared: 10/21/24 Analyzed: 10/23/24

Specific Conductance (EC) 0.141 0.0100 mmhos/cm 0.142 1.06 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 10/24/24 10:19

**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 BHJ0855 - General Preparation**

**LCS (BHJ0855-BS1)**

Prepared: 10/21/24 Analyzed: 10/23/24

pH	9.14	pH Units	9.18	99.6	95-105
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**Duplicate (BHJ0855-DUP1)**

Source: 2410252-01

Prepared: 10/21/24 Analyzed: 10/23/24

pH	8.71	pH Units	8.70	0.115	20
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Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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Project: Noble - McKay Fed T7N-R64W-S2 L01

Project Number: UWRWE-A2604-ABN

Project Manager: Paul Henchan

**Reported:**  
10/24/24 10:19

### Notes and Definitions

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