

Summit Scientific

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 #2410295

Enclosed are the results of analyses for samples received by Summit Scientific on 10/17/24 18:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is fluid and cursive, written in a professional 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 10:33

ANALYTICAL REPORT FOR SAMPLES

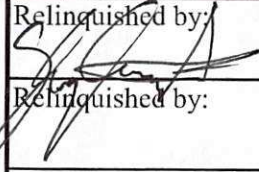
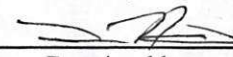
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST02 - 0.5FT	2410295-01	Soil	10/17/24 00:00	10/17/24 18:30
AST03 - 0.5FT	2410295-02	Soil	10/17/24 00:00	10/17/24 18:30
AST04 - 0.5FT	2410295-03	Soil	10/17/24 00:00	10/17/24 18:30
AST05 - 0.5FT	2410295-04	Soil	10/17/24 00:00	10/17/24 18:30
AST06 - 0.5FT	2410295-05	Soil	10/17/24 00:00	10/17/24 18:30
AST07 - 0.5FT	2410295-06	Soil	10/17/24 00:00	10/17/24 18:30
AST08 - 0.5FT	2410295-07	Soil	10/17/24 00:00	10/17/24 18:30
AST09 - 0.5FT	2410295-08	Soil	10/17/24 00:00	10/17/24 18:30
AST10 - 0.5FT	2410295-09	Soil	10/17/24 00:00	10/17/24 18:30
AST11 - 0.5FT	2410295-10	Soil	10/17/24 00:00	10/17/24 18:30
AST12 - 0.5FT	2410295-11	Soil	10/17/24 00:00	10/17/24 18:30

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.

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

					Preservative				Matrix				Analysis Requested							Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other _____	Water	Soil	Air-Canister #	Other _____	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate		HOLD
1	AST02-0.5Ft	10/17/24		2			X			X			X	X	X	X	X			
2	AST03-0.5Ft																			
3	AST04-0.5Ft																			
4	AST05-0.5Ft																			
5	AST06-0.5Ft																			
6	AST07-0.5Ft																			
7	AST08-0.5Ft																			
8	AST09-0.5Ft																			
9	AST10-0.5Ft																			
10	AST11-0.5Ft																			
11	AST12-0.5Ft																			
12																				
13																				
14																				
15																				

Relinquished by: 	Date/Time: 10/17/24 18:30	Received by: 	Date/Time: 10/17/24 18:30	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt: 1.4	Corrected Temperature	IR gun #: 2	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2410295Client: FremontClient Project ID: McKay Fed TRN-R64W-S2 L01Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #:

☐ ☐ ☐ ☐ ☐

Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C)

1.4

Thermometer #

2

	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 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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽¹⁾	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	No sample times
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Control Form #: SRC-001

AS
Custodian Printed Name

10/17/24
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 10:33

AST02 - 0.5FT
2410295-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BHJ0844	10/21/24	10/21/24	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: **10/17/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0407	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0409	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0416	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0846	10/21/24	10/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl	9.23	73.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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AST02 - 0.5FT
2410295-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0817	10/21/24	10/22/24	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: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0139	41.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0175	52.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0943	10/23/24	10/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: UWRWE-A2604-ABN
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Reported:
10/24/24 10:33

AST02 - 0.5FT
2410295-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.876	0.200	mg/kg dry	1	BHJ0853	10/21/24	10/22/24	EPA 6020B
Barium	66.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.65	0.400	"	"	"	"	"	"
Lead	4.67	0.200	"	"	"	"	"	"
Nickel	1.69	0.400	"	"	"	"	"	"
Silver	0.142	0.0200	"	"	"	"	"	"
Zinc	6.33	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0962	10/23/24	10/23/24	EPA 7196A	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	48.1	0.0500	mg/L dry	1	BHJ0924	10/22/24	10/23/24	EPA 6020B	
Magnesium	20.2	0.0500	"	"	"	"	"	"	
Sodium	3.06	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0934	0.00100	units	1	BHJ1032	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 10:33

AST02 - 0.5FT
2410295-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.7		%	1	BHJ0788	10/18/24	10/21/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.178	0.0100	mmhos/cm	1	BHJ0925	10/22/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.69		pH Units	1	BHJ0926	10/22/24	10/23/24	EPA 9045D	

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Project Number: UWRWE-A2604-ABN
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Reported:
10/24/24 10:33

AST03 - 0.5FT
2410295-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0844	10/21/24	10/21/24	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: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0388	97.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0411	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0846	10/21/24	10/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.03	56.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PAH by EPA Method 8270D SIM

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0817	10/21/24	10/22/24	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: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0164	49.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0260	78.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0943	10/23/24	10/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Reported:
10/24/24 10:33

AST03 - 0.5FT
2410295-02 (Soil)

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Total Metals by EPA 6020B

Arsenic	0.973	0.200	mg/kg dry	1	BHJ0853	10/21/24	10/22/24	EPA 6020B
Barium	59.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.93	0.400	"	"	"	"	"	"
Lead	5.29	0.200	"	"	"	"	"	"
Nickel	1.88	0.400	"	"	"	"	"	"
Silver	0.123	0.0200	"	"	"	"	"	"
Zinc	7.28	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0962	10/23/24	10/23/24	EPA 7196A	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.1	0.0500	mg/L dry	1	BHJ0924	10/22/24	10/23/24	EPA 6020B	
Magnesium	21.9	0.0500	"	"	"	"	"	"	
Sodium	1.29	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0415	0.00100	units	1	BHJ1032	10/24/24	10/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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2410295-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.2		%	1	BHJ0788	10/18/24	10/21/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.118	0.0100	mmhos/cm	1	BHJ0925	10/22/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.71		pH Units	1	BHJ0926	10/22/24	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 10:33

AST04 - 0.5FT
2410295-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0844	10/21/24	10/21/24	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: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0388	97.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0416	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0397	99.2 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0846	10/21/24	10/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.90	63.2 %	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 10:33

AST04 - 0.5FT
2410295-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0817	10/21/24	10/22/24	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: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0146	43.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0223	66.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0943	10/23/24	10/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 10:33

AST04 - 0.5FT
2410295-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.819	0.200	mg/kg dry	1	BHJ0853	10/21/24	10/22/24	EPA 6020B
Barium	63.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.74	0.400	"	"	"	"	"	"
Lead	4.74	0.200	"	"	"	"	"	"
Nickel	1.61	0.400	"	"	"	"	"	"
Silver	0.108	0.0200	"	"	"	"	"	"
Zinc	6.32	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0962	10/23/24	10/23/24	EPA 7196A	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	78.2	0.0500	mg/L dry	1	BHJ0924	10/22/24	10/23/24	EPA 6020B	
Magnesium	38.2	0.0500	"	"	"	"	"	"	
Sodium	7.38	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.171	0.00100	units	1	BHJ1032	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 10:33

AST04 - 0.5FT
2410295-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.6		%	1	BHJ0788	10/18/24	10/21/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.130	0.0100	mmhos/cm	1	BHJ0925	10/22/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.81		pH Units	1	BHJ0926	10/22/24	10/23/24	EPA 9045D	

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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 10:33

AST05 - 0.5FT
2410295-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0844	10/21/24	10/21/24	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: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0398	99.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0414	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0392	97.9 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0846	10/21/24	10/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.77	62.2 %	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 10:33

AST05 - 0.5FT
2410295-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0817	10/21/24	10/22/24	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	0.0114	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.00931	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0152	45.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0229	68.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0943	10/23/24	10/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/24 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 10:33

AST05 - 0.5FT
2410295-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.983	0.200	mg/kg dry	1	BHJ0853	10/21/24	10/22/24	EPA 6020B
Barium	105	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.11	0.400	"	"	"	"	"	"
Lead	6.30	0.200	"	"	"	"	"	"
Nickel	2.11	0.400	"	"	"	"	"	"
Silver	0.116	0.0200	"	"	"	"	"	"
Zinc	7.99	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0962	10/23/24	10/23/24	EPA 7196A	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	154	0.0500	mg/L dry	1	BHJ0924	10/22/24	10/23/24	EPA 6020B	
Magnesium	40.1	0.0500	"	"	"	"	"	"	
Sodium	6.50	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.121	0.00100	units	1	BHJ1032	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 10:33

AST05 - 0.5FT
2410295-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.0		%	1	BHJ0788	10/18/24	10/21/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.156	0.0100	mmhos/cm	1	BHJ0925	10/22/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.76		pH Units	1	BHJ0926	10/22/24	10/23/24	EPA 9045D	

Summit Scientific

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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 10:33

AST06 - 0.5FT
2410295-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0844	10/21/24	10/21/24	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: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0432	108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0421	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0846	10/21/24	10/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.12	48.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Reported:
10/24/24 10:33

AST06 - 0.5FT
2410295-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0817	10/21/24	10/22/24	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: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0142	42.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0205	61.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0943	10/23/24	10/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 10:33

AST06 - 0.5FT
2410295-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.67	0.200	mg/kg dry	1	BHJ0853	10/21/24	10/22/24	EPA 6020B
Barium	336	0.400	"	"	"	"	"	"
Cadmium	0.336	0.200	"	"	"	"	"	"
Copper	3.96	0.400	"	"	"	"	"	"
Lead	8.79	0.200	"	"	"	"	"	"
Nickel	3.49	0.400	"	"	"	"	"	"
Silver	0.126	0.0200	"	"	"	"	"	"
Zinc	13.4	0.400	"	"	"	"	"	"
Selenium	0.795	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0962	10/23/24	10/23/24	EPA 7196A	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	54.5	0.0500	mg/L dry	1	BHJ0924	10/22/24	10/23/24	EPA 6020B	
Magnesium	12.1	0.0500	"	"	"	"	"	"	
Sodium	32.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.03	0.00100	units	1	BHJ1032	10/24/24	10/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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.



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 10:33

AST06 - 0.5FT
2410295-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.8	%	1	BHJ0788	10/18/24	10/21/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.283	0.0100	mmhos/cm	1	BHJ0925	10/22/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.90		pH Units	1	BHJ0926	10/22/24	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 10:33

AST07 - 0.5FT
2410295-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0844	10/21/24	10/21/24	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: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0374	93.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0400	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0846	10/21/24	10/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.70	53.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
10/24/24 10:33

AST07 - 0.5FT
2410295-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0817	10/21/24	10/22/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00522	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	0.00538	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.00549	0.00500	"	"	"	"	"	"	

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0169	50.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0214	64.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0943	10/23/24	10/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/24 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 10:33

AST07 - 0.5FT
2410295-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.33	0.200	mg/kg dry	1	BHJ0853	10/21/24	10/22/24	EPA 6020B
Barium	295	0.400	"	"	"	"	"	"
Cadmium	0.242	0.200	"	"	"	"	"	"
Copper	3.51	0.400	"	"	"	"	"	"
Lead	7.48	0.200	"	"	"	"	"	"
Nickel	3.04	0.400	"	"	"	"	"	"
Silver	0.111	0.0200	"	"	"	"	"	"
Zinc	10.5	0.400	"	"	"	"	"	"
Selenium	0.452	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0962	10/23/24	10/23/24	EPA 7196A	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	231	0.0500	mg/L dry	1	BHJ0924	10/22/24	10/23/24	EPA 6020B	
Magnesium	43.7	0.0500	"	"	"	"	"	"	
Sodium	76.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.21	0.00100	units	1	BHJ1032	10/24/24	10/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 10:33

AST07 - 0.5FT
2410295-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	87.7	%	1	BHJ0788	10/18/24	10/21/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.65	0.0100	mmhos/cm	1	BHJ0925	10/22/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.99		pH Units	1	BHJ0926	10/22/24	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 10:33

AST08 - 0.5FT
2410295-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0844	10/21/24	10/21/24	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: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0384	96.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0411	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0394	98.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0846	10/21/24	10/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.44	75.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
10/24/24 10:33

AST08 - 0.5FT
2410295-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0817	10/21/24	10/22/24	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: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0140	42.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0174	52.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0943	10/23/24	10/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/24 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 10:33

AST08 - 0.5FT
2410295-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.06	0.200	mg/kg dry	1	BHJ0853	10/21/24	10/22/24	EPA 6020B
Barium	152	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.22	0.400	"	"	"	"	"	"
Lead	6.26	0.200	"	"	"	"	"	"
Nickel	2.08	0.400	"	"	"	"	"	"
Silver	0.116	0.0200	"	"	"	"	"	"
Zinc	8.12	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0962	10/23/24	10/23/24	EPA 7196A	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	59.2	0.0500	mg/L dry	1	BHJ0924	10/22/24	10/23/24	EPA 6020B	
Magnesium	23.8	0.0500	"	"	"	"	"	"	
Sodium	31.8	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.883	0.00100	units	1	BHJ1032	10/24/24	10/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
10/24/24 10:33

AST08 - 0.5FT
2410295-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.9		%	1	BHJ0788	10/18/24	10/21/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.324	0.0100	mmhos/cm	1	BHJ0925	10/22/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.56		pH Units	1	BHJ0926	10/22/24	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 10:33

AST09 - 0.5FT
2410295-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0844	10/21/24	10/22/24	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: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0326	81.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0415	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0401	100 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0846	10/21/24	10/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.44	59.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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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 10:33

AST09 - 0.5FT
2410295-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0817	10/21/24	10/22/24	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: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0150	44.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0175	52.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0943	10/23/24	10/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 10:33

AST09 - 0.5FT
2410295-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.01	0.200	mg/kg dry	1	BHJ0853	10/21/24	10/22/24	EPA 6020B
Barium	91.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.10	0.400	"	"	"	"	"	"
Lead	6.88	0.200	"	"	"	"	"	"
Nickel	1.96	0.400	"	"	"	"	"	"
Silver	0.0921	0.0200	"	"	"	"	"	"
Zinc	7.49	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0962	10/23/24	10/23/24	EPA 7196A	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	61.0	0.0500	mg/L dry	1	BHJ0924	10/22/24	10/23/24	EPA 6020B	
Magnesium	33.2	0.0500	"	"	"	"	"	"	
Sodium	13.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.340	0.00100	units	1	BHJ1032	10/24/24	10/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
10/24/24 10:33

AST09 - 0.5FT
2410295-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.0		%	1	BHJ0788	10/18/24	10/21/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.215	0.0100	mmhos/cm	1	BHJ0925	10/22/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.53		pH Units	1	BHJ0926	10/22/24	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 10:33

AST10 - 0.5FT
2410295-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0844	10/21/24	10/22/24	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: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0352	88.1 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0417	104 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0399	99.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0846	10/21/24	10/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.58	60.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
10/24/24 10:33

AST10 - 0.5FT
2410295-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0817	10/21/24	10/22/24	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: **10/17/24 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	0.0235	70.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0943	10/23/24	10/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/24 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 10:33

AST10 - 0.5FT
2410295-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.923	0.200	mg/kg dry	1	BHJ0853	10/21/24	10/22/24	EPA 6020B
Barium	194	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.00	0.400	"	"	"	"	"	"
Lead	5.97	0.200	"	"	"	"	"	"
Nickel	1.85	0.400	"	"	"	"	"	"
Silver	0.0919	0.0200	"	"	"	"	"	"
Zinc	6.84	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0962	10/23/24	10/23/24	EPA 7196A	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	70.3	0.0500	mg/L dry	1	BHJ0924	10/22/24	10/23/24	EPA 6020B	
Magnesium	32.1	0.0500	"	"	"	"	"	"	
Sodium	3.58	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0888	0.00100	units	1	BHJ1032	10/24/24	10/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
10/24/24 10:33

AST10 - 0.5FT
2410295-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.0		%	1	BHJ0788	10/18/24	10/21/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.167	0.0100	mmhos/cm	1	BHJ0925	10/22/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.54		pH Units	1	BHJ0926	10/22/24	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 10:33

AST11 - 0.5FT
2410295-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0844	10/21/24	10/22/24	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: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0388	96.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0422	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0404	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0846	10/21/24	10/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.85	62.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
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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 10:33

AST11 - 0.5FT
2410295-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0817	10/21/24	10/22/24	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: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0177	53.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0224	67.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0943	10/23/24	10/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/24 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 10:33

AST11 - 0.5FT
2410295-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.04	0.200	mg/kg dry	1	BHJ0853	10/21/24	10/22/24	EPA 6020B
Barium	93.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.00	0.400	"	"	"	"	"	"
Lead	5.86	0.200	"	"	"	"	"	"
Nickel	1.99	0.400	"	"	"	"	"	"
Silver	0.0770	0.0200	"	"	"	"	"	"
Zinc	6.92	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0962	10/23/24	10/23/24	EPA 7196A	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	50.6	0.0500	mg/L dry	1	BHJ0924	10/22/24	10/23/24	EPA 6020B	
Magnesium	16.1	0.0500	"	"	"	"	"	"	
Sodium	6.83	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.214	0.00100	units	1	BHJ1032	10/24/24	10/24/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

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

Reported:
10/24/24 10:33

AST11 - 0.5FT
2410295-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	92.2			%	1	BHJ0788	10/18/24	10/21/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.172	0.0100		mmhos/cm	1	BHJ0925	10/22/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.64			pH Units	1	BHJ0926	10/22/24	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 10:33

AST12 - 0.5FT
2410295-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHJ0844	10/21/24	10/22/24	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: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0402	100 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0422	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHJ0846	10/21/24	10/22/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.24	57.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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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 10:33

AST12 - 0.5FT
2410295-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHJ0817	10/21/24	10/22/24	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: **10/17/24 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	0.0204	61.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHJ0943	10/23/24	10/23/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/17/24 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 10:33

AST12 - 0.5FT
2410295-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.870	0.200	mg/kg dry	1	BHJ0853	10/21/24	10/22/24	EPA 6020B
Barium	59.7	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.90	0.400	"	"	"	"	"	"
Lead	4.10	0.200	"	"	"	"	"	"
Nickel	1.53	0.400	"	"	"	"	"	"
Silver	0.0579	0.0200	"	"	"	"	"	"
Zinc	6.93	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHJ0962	10/23/24	10/23/24	EPA 7196A	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	39.8	0.0500	mg/L dry	1	BHJ0924	10/22/24	10/23/24	EPA 6020B	
Magnesium	18.2	0.0500	"	"	"	"	"	"	
Sodium	8.86	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.292	0.00100	units	1	BHJ1032	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 10:33

AST12 - 0.5FT
2410295-11 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.6		%	1	BHJ0788	10/18/24	10/21/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.202	0.0100	mmhos/cm	1	BHJ0925	10/22/24	10/23/24	EPA 120.1	

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

Date Sampled: **10/17/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.66		pH Units	1	BHJ0926	10/22/24	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 10:33

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHJ0844 - EPA 5030 Soil MS

Blank (BHJ0844-BLK1)

Prepared & Analyzed: 10/21/24

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	0.0376		"	0.0400		94.1	50-150			
Surrogate: Toluene-d8	0.0410		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0405		"	0.0400		101	50-150			

LCS (BHJ0844-BS1)

Prepared & Analyzed: 10/21/24

Benzene	0.102	0.0020	mg/kg	0.100		102	70-130			
Toluene	0.103	0.0050	"	0.100		103	70-130			
Ethylbenzene	0.106	0.0050	"	0.100		106	70-130			
m,p-Xylene	0.206	0.010	"	0.200		103	70-130			
o-Xylene	0.101	0.0050	"	0.100		101	70-130			
1,2,4-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.103	0.0050	"	0.100		103	70-130			
Naphthalene	0.0878	0.0038	"	0.100		87.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0378		"	0.0400		94.5	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.5	50-150			

Matrix Spike (BHJ0844-MS1)

Source: 2410182-03

Prepared & Analyzed: 10/21/24

Benzene	0.113	0.0020	mg/kg	0.100	ND	113	70-130			
Toluene	0.115	0.0050	"	0.100	ND	115	70-130			
Ethylbenzene	0.112	0.0050	"	0.100	ND	112	70-130			
m,p-Xylene	0.217	0.010	"	0.200	ND	108	70-130			
o-Xylene	0.107	0.0050	"	0.100	ND	107	70-130			
1,2,4-Trimethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130			
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130			
Naphthalene	0.102	0.0038	"	0.100	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0418		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0417		"	0.0400		104	50-150			

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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 10:33

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BHJ0844 - EPA 5030 Soil MS

Matrix Spike Dup (BHJ0844-MSD1)		Source: 2410182-03			Prepared & Analyzed: 10/21/24					
Benzene	0.109	0.0020	mg/kg	0.100	ND	109	70-130	3.41	30	
Toluene	0.111	0.0050	"	0.100	ND	111	70-130	2.95	30	
Ethylbenzene	0.0999	0.0050	"	0.100	ND	99.9	70-130	11.8	30	
m,p-Xylene	0.192	0.010	"	0.200	ND	96.1	70-130	12.1	30	
o-Xylene	0.0956	0.0050	"	0.100	ND	95.6	70-130	11.3	30	
1,2,4-Trimethylbenzene	0.0905	0.0050	"	0.100	ND	90.5	70-130	14.3	30	
1,3,5-Trimethylbenzene	0.0928	0.0050	"	0.100	ND	92.8	70-130	13.2	30	
Naphthalene	0.0937	0.0038	"	0.100	ND	93.7	70-130	8.70	30	
Surrogate: 1,2-Dichloroethane-d4	0.0422		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0414		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0413		"	0.0400		103	50-150			

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Fremont Environmental
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 10:33

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BHJ0846 - EPA 3550A

Blank (BHJ0846-BLK1)

Prepared & Analyzed: 10/21/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.1		"	12.5		89.0	30-150			

LCS (BHJ0846-BS1)

Prepared & Analyzed: 10/21/24

C10-C28 (DRO)	458	50	mg/kg	500		91.6	70-130			
Surrogate: o-Terphenyl	9.88		"	12.5		79.1	30-150			

Matrix Spike (BHJ0846-MS1)

Source: 2410182-03

Prepared & Analyzed: 10/21/24

C10-C28 (DRO)	496	50	mg/kg	500	71.9	84.9	70-130			
Surrogate: o-Terphenyl	11.7		"	12.5		93.7	30-150			

Matrix Spike Dup (BHJ0846-MSD1)

Source: 2410182-03

Prepared & Analyzed: 10/21/24

C10-C28 (DRO)	476	50	mg/kg	500	71.9	80.9	70-130	4.07	20	
Surrogate: o-Terphenyl	8.04		"	12.5		64.3	30-150			

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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 10:33

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHJ0817 - EPA 5030 Soil MS

Blank (BHJ0817-BLK1)

Prepared: 10/21/24 Analyzed: 10/22/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0166		"	0.0333		49.9	40-150			
Surrogate: Fluoranthene-d10	0.0296		"	0.0333		88.7	40-150			

LCS (BHJ0817-BS1)

Prepared: 10/21/24 Analyzed: 10/22/24

Acenaphthene	0.0302	0.00500	mg/kg	0.0333		90.5	31-137			
Anthracene	0.0313	0.00500	"	0.0333		93.8	30-120			
Benzo (a) anthracene	0.0332	0.00500	"	0.0333		99.7	30-120			
Benzo (a) pyrene	0.0314	0.00500	"	0.0333		94.2	30-120			
Benzo (b) fluoranthene	0.0392	0.00500	"	0.0333		118	30-120			
Benzo (k) fluoranthene	0.0378	0.00500	"	0.0333		113	30-120			
Chrysene	0.0312	0.00500	"	0.0333		93.7	30-120			
Dibenz (a,h) anthracene	0.0152	0.00500	"	0.0333		45.5	30-120			
Fluoranthene	0.0318	0.00500	"	0.0333		95.3	30-120			
Fluorene	0.0302	0.00500	"	0.0333		90.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0155	0.00500	"	0.0333		46.5	30-120			
Pyrene	0.0370	0.00500	"	0.0333		111	35-142			
1-Methylnaphthalene	0.0158	0.00500	"	0.0333		47.3	35-142			
2-Methylnaphthalene	0.0160	0.00500	"	0.0333		48.0	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0144		"	0.0333		43.2	40-150			
Surrogate: Fluoranthene-d10	0.0300		"	0.0333		89.9	40-150			

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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 10:33

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHJ0817 - EPA 5030 Soil MS

Matrix Spike (BHJ0817-MS1)

Source: 2410182-03

Prepared: 10/21/24 Analyzed: 10/22/24

Acenaphthene	0.0276	0.00500	mg/kg	0.0333	0.00334	72.8	31-137		
Anthracene	0.0280	0.00500	"	0.0333	ND	83.9	30-120		
Benzo (a) anthracene	0.0370	0.00500	"	0.0333	0.00317	102	30-120		
Benzo (a) pyrene	0.0345	0.00500	"	0.0333	0.00413	91.0	30-120		
Benzo (b) fluoranthene	0.0357	0.00500	"	0.0333	0.00687	86.4	30-120		
Benzo (k) fluoranthene	0.0299	0.00500	"	0.0333	0.00238	82.6	30-120		
Chrysene	0.0339	0.00500	"	0.0333	0.00362	90.8	30-120		
Dibenz (a,h) anthracene	0.0145	0.00500	"	0.0333	ND	43.6	30-120		
Fluoranthene	0.0361	0.00500	"	0.0333	0.00370	97.1	30-120		
Fluorene	0.0305	0.00500	"	0.0333	ND	91.6	30-120		
Indeno (1,2,3-cd) pyrene	0.0166	0.00500	"	0.0333	ND	49.9	30-120		
Pyrene	0.0416	0.00500	"	0.0333	0.00121	121	35-142		
1-Methylnaphthalene	0.0197	0.00500	"	0.0333	0.00409	46.9	15-130		
2-Methylnaphthalene	0.0218	0.00500	"	0.0333	0.00448	52.0	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0148		"	0.0333		44.4	40-150		
Surrogate: Fluoranthene-d10	0.0251		"	0.0333		75.3	40-150		

Matrix Spike Dup (BHJ0817-MSD1)

Source: 2410182-03

Prepared: 10/21/24 Analyzed: 10/22/24

Acenaphthene	0.0290	0.00500	mg/kg	0.0333	0.00334	76.9	31-137	4.75	30
Anthracene	0.0302	0.00500	"	0.0333	ND	90.6	30-120	7.66	30
Benzo (a) anthracene	0.0366	0.00500	"	0.0333	0.00317	100	30-120	1.17	30
Benzo (a) pyrene	0.0320	0.00500	"	0.0333	0.00413	83.7	30-120	7.32	30
Benzo (b) fluoranthene	0.0355	0.00500	"	0.0333	0.00687	85.9	30-120	0.496	30
Benzo (k) fluoranthene	0.0376	0.00500	"	0.0333	0.00238	106	30-120	22.9	30
Chrysene	0.0340	0.00500	"	0.0333	0.00362	91.0	30-120	0.198	30
Dibenz (a,h) anthracene	0.0150	0.00500	"	0.0333	ND	45.1	30-120	3.44	30
Fluoranthene	0.0363	0.00500	"	0.0333	0.00370	97.9	30-120	0.808	30
Fluorene	0.0321	0.00500	"	0.0333	ND	96.2	30-120	4.89	30
Indeno (1,2,3-cd) pyrene	0.0177	0.00500	"	0.0333	ND	53.2	30-120	6.26	30
Pyrene	0.0335	0.00500	"	0.0333	0.00121	96.9	35-142	21.5	30
1-Methylnaphthalene	0.0218	0.00500	"	0.0333	0.00409	53.2	15-130	10.1	50
2-Methylnaphthalene	0.0245	0.00500	"	0.0333	0.00448	60.1	15-130	11.7	50
Surrogate: 2-Methylnaphthalene-d10	0.0168		"	0.0333		50.4	40-150		
Surrogate: Fluoranthene-d10	0.0273		"	0.0333		81.8	40-150		

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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 10:33

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

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

Batch BHJ0943 - EPA 3050B

Blank (BHJ0943-BLK1)

Prepared & Analyzed: 10/23/24

Boron ND 2.00 mg/L

LCS (BHJ0943-BS1)

Prepared & Analyzed: 10/23/24

Boron 4.36 2.00 mg/L 5.00 87.3 80-120

Duplicate (BHJ0943-DUP1)

Source: 2410295-01

Prepared & Analyzed: 10/23/24

Boron 0.319 2.00 mg/L 0.324 1.56 20

Matrix Spike (BHJ0943-MS1)

Source: 2410295-01

Prepared & Analyzed: 10/23/24

Boron 4.41 2.00 mg/L 5.00 0.324 81.7 75-125

Matrix Spike Dup (BHJ0943-MSD1)

Source: 2410295-01

Prepared & Analyzed: 10/23/24

Boron 4.59 2.00 mg/L 5.00 0.324 85.2 75-125 3.94 25

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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 10:33

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHJ0853 - EPA 3050B

Blank (BHJ0853-BLK1)

Prepared: 10/21/24 Analyzed: 10/22/24

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 (BHJ0853-BS1)

Prepared: 10/21/24 Analyzed: 10/22/24

Arsenic	40.3	0.200	mg/kg wet	39.7	101	80-120
Barium	37.0	0.400	"	39.7	93.2	80-120
Cadmium	1.94	0.200	"	1.98	97.6	80-120
Copper	41.1	0.400	"	39.7	104	80-120
Lead	19.1	0.200	"	19.8	96.0	80-120
Nickel	40.3	0.400	"	39.7	102	80-120
Silver	4.42	0.0200	"	1.98	223	80-120
Zinc	40.3	0.400	"	39.7	102	80-120
Selenium	4.46	0.260	"	3.97	112	80-120

QM-05

Duplicate (BHJ0853-DUP1)

Source: 2410271-01

Prepared: 10/21/24 Analyzed: 10/22/24

Arsenic	0.913	0.200	mg/kg dry	0.886	3.01	20
Barium	39.5	0.400	"	39.2	0.748	20
Cadmium	0.0798	0.200	"	0.0813	1.89	20
Copper	1.63	0.400	"	1.60	1.94	20
Lead	8.84	0.200	"	8.77	0.821	20
Nickel	1.55	0.400	"	1.50	3.24	20
Silver	0.445	0.0200	"	0.735	49.2	20
Zinc	6.42	0.400	"	6.40	0.409	20
Selenium	ND	0.260	"	ND		20

QR-02

Summit Scientific

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

Reported:
10/24/24 10:33

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHJ0853 - EPA 3050B

Matrix Spike (BHJ0853-MS1)

Source: 2410271-01

Prepared: 10/21/24 Analyzed: 10/22/24

Arsenic	18.1	0.200	mg/kg dry	44.3	0.886	38.9	75-125			QM-05
Barium	79.2	0.400	"	44.3	39.2	90.3	75-125			
Cadmium	2.16	0.200	"	2.22	0.0813	93.7	75-125			
Copper	18.8	0.400	"	44.3	1.60	38.9	75-125			QM-05
Lead	28.9	0.200	"	22.2	8.77	90.9	75-125			
Nickel	18.8	0.400	"	44.3	1.50	39.1	75-125			QM-05
Silver	2.57	0.0200	"	2.22	0.735	83.0	75-125			
Zinc	23.8	0.400	"	44.3	6.40	39.3	75-125			QM-05
Selenium	4.59	0.260	"	4.43	ND	104	75-125			

Matrix Spike Dup (BHJ0853-MSD1)

Source: 2410271-01

Prepared: 10/21/24 Analyzed: 10/22/24

Arsenic	16.9	0.200	mg/kg dry	42.2	0.886	38.0	75-125	6.86	25	QM-05
Barium	73.5	0.400	"	42.2	39.2	81.3	75-125	7.44	25	
Cadmium	2.05	0.200	"	2.11	0.0813	93.1	75-125	5.21	25	
Copper	17.7	0.400	"	42.2	1.60	38.2	75-125	6.14	25	QM-05
Lead	29.9	0.200	"	21.1	8.77	100	75-125	3.35	25	
Nickel	17.7	0.400	"	42.2	1.50	38.3	75-125	6.41	25	QM-05
Silver	2.37	0.0200	"	2.11	0.735	77.2	75-125	8.39	25	
Zinc	22.1	0.400	"	42.2	6.40	37.1	75-125	7.62	25	QM-05
Selenium	4.61	0.260	"	4.22	ND	109	75-125	0.400	25	

Summit Scientific

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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 10:33

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHJ0962 - 3060A Mod

Blank (BHJ0962-BLK1)

Prepared & Analyzed: 10/23/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHJ0962-BS1)

Prepared & Analyzed: 10/23/24

Chromium, Hexavalent 26.5 0.30 mg/kg wet 25.0 106 80-120

Duplicate (BHJ0962-DUP1)

Source: 2410295-01

Prepared & Analyzed: 10/23/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHJ0962-MS1)

Source: 2410295-01

Prepared & Analyzed: 10/23/24

Chromium, Hexavalent 30.3 0.30 mg/kg dry 28.5 ND 106 75-125

Matrix Spike Dup (BHJ0962-MSD1)

Source: 2410295-01

Prepared & Analyzed: 10/23/24

Chromium, Hexavalent 31.4 0.30 mg/kg dry 28.5 ND 110 75-125 3.52 20

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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 10:33

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

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

Batch BHJ0924 - General Preparation

Blank (BHJ0924-BLK1)

Prepared: 10/22/24 Analyzed: 10/23/24

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

LCS (BHJ0924-BS1)

Prepared: 10/22/24 Analyzed: 10/23/24

Calcium	5.33	0.0500	mg/L wet	5.00	107	70-130
Magnesium	5.41	0.0500	"	5.00	108	70-130
Sodium	5.30	0.0500	"	5.00	106	70-130

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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 10:33
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Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

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

Batch BHJ0788 - General Preparation

Duplicate (BHJ0788-DUP1)	Source: 2410279-01			Prepared: 10/18/24 Analyzed: 10/21/24							
% Solids	85.0		%		83.9			1.36		20	

Summit Scientific

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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 10:33

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

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

Batch BHJ0925 - General Preparation

Blank (BHJ0925-BLK1)

Prepared: 10/22/24 Analyzed: 10/23/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHJ0925-BS1)

Prepared: 10/22/24 Analyzed: 10/23/24

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BHJ0925-DUP1)

Source: 2410295-01

Prepared: 10/22/24 Analyzed: 10/23/24

Specific Conductance (EC) 0.176 0.0100 mmhos/cm 0.178 1.36 20

Summit Scientific

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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 10:33

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

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

Batch BHJ0926 - General Preparation

LCS (BHJ0926-BS1)

Prepared: 10/22/24 Analyzed: 10/23/24

pH	9.06	pH Units	9.18	98.7	95-105
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Duplicate (BHJ0926-DUP1)

Source: 2410295-01

Prepared: 10/22/24 Analyzed: 10/23/24

pH	8.60	pH Units	8.69	1.04	20
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Summit Scientific

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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 10:33

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.
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