

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 01, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Farr T4N-R64W-S18 L01

Work Order #2406429

Enclosed are the results of analyses for samples received by Summit Scientific on 06/27/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is fluid and cursive, with the first name being more prominent.

Natalie Tessier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B2@13'	2406429-01	Soil	06/27/24 15:45	06/27/24 16:30

Case Narrative

Rerun analyses were performed by client request on 7/24/24.
The rerun results included in this report are denoted with "RE#."

This is a revision of the report originally sent on 7/9/24 at 11:13 MT.

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2406429	

Client: Fremont Environmental		Send Data To:		Send Invoice To:	
Address:		Project Manager: Paul Herchen		Company: Chevron	
City/State/Zip:		E-Mail:		Project Name/Location:	
Phone:		Project Name: Farm T4N-R64W-S18 L01		AFE#:	
Sampler Name: Aaron O'Killer		Project Number:		PO/Billing Codes:	
				Contact: Dan Petersen	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	q15-Organics	q15-Inorganics	q15-Metals				
1	B2@13'	6/27/24	1545	2			X			X			X	X	X				
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by:	Date/Time: 6/27/24 1618	Received by: Summit North	Date/Time: 6/27/24 1618	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time: 6/27/24 1630	Received by:	Date/Time: 6/27/24 1630	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day <input type="checkbox"/>	Field ORP	
				2 Days <input type="checkbox"/>	Field pH	
				3 Days <input type="checkbox"/>	Field Temp.	
Relinquished by:	Date/Time: 6/27/24 1630	Received by:	Date/Time: 6/27/24 1630	Standard <input type="checkbox"/>	Field Turb.	
Temperature Upon Receipt: 9.9	Corrected Temperature: 8	IR gun #:		HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2406429Client: Fremont Client Project ID: Farr T4N-R64W-S18 101Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 9.9 Thermometer # 1

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

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

6/27/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:29

B2@13'
2406429-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/27/24 15:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHF0931	06/27/24	06/28/24	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: **06/27/24 15:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0416	104 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0396	99.1 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0395	98.7 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/27/24 15:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHF0932	06/27/24	06/27/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/27/24 15:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.51	68.1 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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2406429-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **06/27/24 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHF0936	06/28/24	07/03/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **06/27/24 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0219	65.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0211	63.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/27/24 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHF0942	06/28/24	07/02/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **06/27/24 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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2406429-01 (Soil)

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Total Metals by EPA 6020B

Barium	22.8	0.400	mg/kg dry	1	BHF0951	06/28/24	07/02/24	EPA 6020B
Copper	9.79	0.400	"	"	"	"	"	"
Lead	8.69	0.200	"	"	"	"	"	"
Nickel	8.19	0.400	"	"	"	"	"	"
Silver	0.0238	0.0200	"	"	"	"	"	"
Zinc	54.3	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **06/27/24 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHF0939	06/28/24	06/28/24	EPA 7196A	

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

Date Sampled: **06/27/24 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.7	0.0500	mg/L dry	1	BHF0933	06/27/24	06/29/24	EPA 6020B	
Magnesium	6.62	0.0500	"	"	"	"	"	"	
Sodium	36.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **06/27/24 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.14	0.00100	units	1	BHG0041	07/01/24	07/01/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/27/24 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.7		%	1	BHF0957	06/28/24	06/28/24	Calculation	

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B2@13'
2406429-01 (Soil)

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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/27/24 15:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.309	0.0100		mmhos/cm	1	BHF0934	06/27/24	06/28/24	EPA 120.1	

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

Date Sampled: **06/27/24 15:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.65			pH Units	1	BHF0935	06/27/24	06/28/24	EPA 9045D	

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Reported:
08/01/24 13:29

B2@13'
2406429-01RE1 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **06/27/24 15:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.49	0.200		mg/kg dry	1	BHG0785	07/26/24	08/01/24	EPA 6020B	
Cadmium	0.390	0.200		"	"	"	"	"	"	

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Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BHF0931 - EPA 5030 Soil MS

Blank (BHF0931-BLK1)

Prepared: 06/27/24 Analyzed: 06/28/24

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	0.0387		"	0.0400		96.8	50-150			
Surrogate: Toluene-d8	0.0393		"	0.0400		98.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.5	50-150			

LCS (BHF0931-BS1)

Prepared: 06/27/24 Analyzed: 06/28/24

Benzene	0.111	0.0020	mg/kg	0.100		111	70-130			
Toluene	0.106	0.0050	"	0.100		106	70-130			
Ethylbenzene	0.112	0.0050	"	0.100		112	70-130			
m,p-Xylene	0.198	0.010	"	0.200		99.0	70-130			
o-Xylene	0.0947	0.0050	"	0.100		94.7	70-130			
1,2,4-Trimethylbenzene	0.100	0.0050	"	0.100		100	70-130			
1,3,5-Trimethylbenzene	0.0996	0.0050	"	0.100		99.6	70-130			
Naphthalene	0.109	0.0038	"	0.100		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0440		"	0.0400		110	50-150			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.6	50-150			

Matrix Spike (BHF0931-MS1)

Source: 2406429-01

Prepared: 06/27/24 Analyzed: 06/28/24

Benzene	0.106	0.0020	mg/kg	0.100	ND	106	70-130			
Toluene	0.101	0.0050	"	0.100	ND	101	70-130			
Ethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130			
m,p-Xylene	0.185	0.010	"	0.200	ND	92.7	70-130			
o-Xylene	0.0877	0.0050	"	0.100	ND	87.7	70-130			
1,2,4-Trimethylbenzene	0.0941	0.0050	"	0.100	ND	94.1	70-130			
1,3,5-Trimethylbenzene	0.0938	0.0050	"	0.100	ND	93.8	70-130			
Naphthalene	0.0933	0.0038	"	0.100	ND	93.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0447		"	0.0400		112	50-150			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.8	50-150			

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Project Number: [none]
Project Manager: Paul Henchan

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08/01/24 13:29

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BHF0931 - EPA 5030 Soil MS

Matrix Spike Dup (BHF0931-MSD1)		Source: 2406429-01			Prepared: 06/27/24 Analyzed: 06/28/24					
Benzene	0.104	0.0020	mg/kg	0.100	ND	104	70-130	1.92	30	
Toluene	0.0988	0.0050	"	0.100	ND	98.8	70-130	2.07	30	
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130	0.688	30	
m,p-Xylene	0.185	0.010	"	0.200	ND	92.5	70-130	0.211	30	
o-Xylene	0.0873	0.0050	"	0.100	ND	87.3	70-130	0.377	30	
1,2,4-Trimethylbenzene	0.0949	0.0050	"	0.100	ND	94.9	70-130	0.794	30	
1,3,5-Trimethylbenzene	0.0936	0.0050	"	0.100	ND	93.6	70-130	0.256	30	
Naphthalene	0.105	0.0038	"	0.100	ND	105	70-130	11.4	30	
Surrogate: 1,2-Dichloroethane-d4		0.0435	"	0.0400		109	50-150			
Surrogate: Toluene-d8		0.0409	"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene		0.0375	"	0.0400		93.7	50-150			

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Project Number: [none]
Project Manager: Paul Henchan

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08/01/24 13:29

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 BHF0932 - EPA 3550A

Blank (BHF0932-BLK1)

Prepared & Analyzed: 06/27/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	16.8		"	12.5	134	30-150				

LCS (BHF0932-BS1)

Prepared & Analyzed: 06/27/24

C10-C28 (DRO)	756	50	mg/kg	500	151	70-130				QLCS-01
Surrogate: o-Terphenyl	13.7		"	12.5	110	30-150				

Matrix Spike (BHF0932-MS1)

Source: 2406429-01

Prepared & Analyzed: 06/27/24

C10-C28 (DRO)	605	50	mg/kg	500	ND	121	70-130			
Surrogate: o-Terphenyl	8.72		"	12.5	69.7	30-150				

Matrix Spike Dup (BHF0932-MSD1)

Source: 2406429-01

Prepared: 06/27/24 Analyzed: 06/28/24

C10-C28 (DRO)	594	50	mg/kg	500	ND	119	70-130	1.83	20	
Surrogate: o-Terphenyl	8.94		"	12.5	71.5	30-150				

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Project Number: [none]
Project Manager: Paul Henchan

Reported:
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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

Batch BHF0936 - EPA 5030 Soil MS

Blank (BHF0936-BLK1)

Prepared: 06/28/24 Analyzed: 07/03/24

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	0.0308		"	0.0333		92.3		40-150			
Surrogate: Fluoranthene-d10	0.0337		"	0.0333		101		40-150			

LCS (BHF0936-BS1)

Prepared: 06/28/24 Analyzed: 07/03/24

Acenaphthene	0.0304	0.00500	mg/kg	0.0333		91.3		31-137			
Anthracene	0.0309	0.00500	"	0.0333		92.8		30-120			
Benzo (a) anthracene	0.0369	0.00500	"	0.0333		111		30-120			
Benzo (a) pyrene	0.0343	0.00500	"	0.0333		103		30-120			
Benzo (b) fluoranthene	0.0349	0.00500	"	0.0333		105		30-120			
Benzo (k) fluoranthene	0.0295	0.00500	"	0.0333		88.6		30-120			
Chrysene	0.0319	0.00500	"	0.0333		95.7		30-120			
Dibenz (a,h) anthracene	0.0338	0.00500	"	0.0333		101		30-120			
Fluoranthene	0.0320	0.00500	"	0.0333		96.0		30-120			
Fluorene	0.0299	0.00500	"	0.0333		89.8		30-120			
Indeno (1,2,3-cd) pyrene	0.0363	0.00500	"	0.0333		109		30-120			
Pyrene	0.0345	0.00500	"	0.0333		103		35-142			
1-Methylnaphthalene	0.0382	0.00500	"	0.0333		115		35-142			
2-Methylnaphthalene	0.0293	0.00500	"	0.0333		88.0		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0368		"	0.0333		110		40-150			
Surrogate: Fluoranthene-d10	0.0344		"	0.0333		103		40-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:29

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 BHF0936 - EPA 5030 Soil MS

Matrix Spike (BHF0936-MS1)

Source: 2406429-01

Prepared: 06/28/24 Analyzed: 07/03/24

Acenaphthene	0.0261	0.00500	mg/kg	0.0333	ND	78.2	31-137		
Anthracene	0.0253	0.00500	"	0.0333	ND	75.8	30-120		
Benzo (a) anthracene	0.0316	0.00500	"	0.0333	ND	94.8	30-120		
Benzo (a) pyrene	0.0295	0.00500	"	0.0333	ND	88.5	30-120		
Benzo (b) fluoranthene	0.0299	0.00500	"	0.0333	ND	89.7	30-120		
Benzo (k) fluoranthene	0.0242	0.00500	"	0.0333	ND	72.6	30-120		
Chrysene	0.0261	0.00500	"	0.0333	ND	78.3	30-120		
Dibenz (a,h) anthracene	0.0306	0.00500	"	0.0333	ND	91.8	30-120		
Fluoranthene	0.0265	0.00500	"	0.0333	ND	79.6	30-120		
Fluorene	0.0275	0.00500	"	0.0333	ND	82.6	30-120		
Indeno (1,2,3-cd) pyrene	0.0254	0.00500	"	0.0333	ND	76.1	30-120		
Pyrene	0.0287	0.00500	"	0.0333	ND	86.1	35-142		
1-Methylnaphthalene	0.0302	0.00500	"	0.0333	ND	90.5	15-130		
2-Methylnaphthalene	0.0239	0.00500	"	0.0333	ND	71.6	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0320		"	0.0333		96.1	40-150		
Surrogate: Fluoranthene-d10	0.0281		"	0.0333		84.2	40-150		

Matrix Spike Dup (BHF0936-MSD1)

Source: 2406429-01

Prepared: 06/28/24 Analyzed: 07/03/24

Acenaphthene	0.0283	0.00500	mg/kg	0.0333	ND	84.9	31-137	8.17	30
Anthracene	0.0279	0.00500	"	0.0333	ND	83.7	30-120	9.87	30
Benzo (a) anthracene	0.0341	0.00500	"	0.0333	ND	102	30-120	7.75	30
Benzo (a) pyrene	0.0315	0.00500	"	0.0333	ND	94.5	30-120	6.63	30
Benzo (b) fluoranthene	0.0322	0.00500	"	0.0333	ND	96.5	30-120	7.32	30
Benzo (k) fluoranthene	0.0257	0.00500	"	0.0333	ND	77.1	30-120	5.93	30
Chrysene	0.0285	0.00500	"	0.0333	ND	85.6	30-120	8.91	30
Dibenz (a,h) anthracene	0.0328	0.00500	"	0.0333	ND	98.4	30-120	7.02	30
Fluoranthene	0.0287	0.00500	"	0.0333	ND	86.1	30-120	7.85	30
Fluorene	0.0277	0.00500	"	0.0333	ND	83.0	30-120	0.566	30
Indeno (1,2,3-cd) pyrene	0.0277	0.00500	"	0.0333	ND	83.2	30-120	8.81	30
Pyrene	0.0320	0.00500	"	0.0333	ND	96.1	35-142	11.0	30
1-Methylnaphthalene	0.0361	0.00500	"	0.0333	ND	108	15-130	17.9	50
2-Methylnaphthalene	0.0251	0.00500	"	0.0333	ND	75.4	15-130	5.23	50
Surrogate: 2-Methylnaphthalene-d10	0.0373		"	0.0333		112	40-150		
Surrogate: Fluoranthene-d10	0.0305		"	0.0333		91.6	40-150		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:29

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 BHF0942 - EPA 3050B

Blank (BHF0942-BLK1)

Prepared: 06/28/24 Analyzed: 07/02/24

Boron ND 2.00 mg/L

LCS (BHF0942-BS1)

Prepared: 06/28/24 Analyzed: 07/02/24

Boron 5.38 2.00 mg/L 5.00 108 80-120

Duplicate (BHF0942-DUP1)

Source: 2406429-01

Prepared: 06/28/24 Analyzed: 07/02/24

Boron 0.242 2.00 mg/L 0.265 9.18 20

Matrix Spike (BHF0942-MS1)

Source: 2406429-01

Prepared: 06/28/24 Analyzed: 07/02/24

Boron 5.31 2.00 mg/L 4.97 0.265 102 75-125

Matrix Spike Dup (BHF0942-MSD1)

Source: 2406429-01

Prepared: 06/28/24 Analyzed: 07/02/24

Boron 5.89 2.00 mg/L 4.97 0.265 113 75-125 10.3 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:29

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHF0951 - EPA 3050B

Blank (BHF0951-BLK1)

Prepared: 06/28/24 Analyzed: 07/02/24

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 (BHF0951-BS1)

Prepared: 06/28/24 Analyzed: 07/02/24

Arsenic	40.2	0.200	mg/kg wet	40.0	101	80-120
Barium	40.8	0.400	"	40.0	102	80-120
Cadmium	2.03	0.200	"	2.00	101	80-120
Copper	40.9	0.400	"	40.0	102	80-120
Lead	20.1	0.200	"	20.0	101	80-120
Nickel	42.6	0.400	"	40.0	106	80-120
Silver	2.02	0.0200	"	2.00	101	80-120
Zinc	40.0	0.400	"	40.0	99.9	80-120
Selenium	4.00	0.260	"	4.00	100	80-120

Duplicate (BHF0951-DUP1)

Source: 2406429-01

Prepared: 06/28/24 Analyzed: 07/02/24

Arsenic	2.89	0.200	mg/kg dry	2.73	5.48	20	
Barium	35.7	0.400	"	22.8	44.1	20	QR-04
Cadmium	0.856	0.200	"	0.411	70.2	20	QR-01
Copper	11.0	0.400	"	9.79	12.0	20	
Lead	15.0	0.200	"	8.69	53.5	20	QR-04
Nickel	15.9	0.400	"	8.19	64.0	20	QR-04
Silver	0.0240	0.0200	"	0.0238	1.01	20	
Zinc	59.1	0.400	"	54.3	8.40	20	
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:29

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 BHF0951 - EPA 3050B

Matrix Spike (BHF0951-MS1)

Source: 2406429-01

Prepared: 06/28/24 Analyzed: 07/02/24

Arsenic	48.2	0.200	mg/kg dry	45.4	2.73	100	75-125			
Barium	63.5	0.400	"	45.4	22.8	89.8	75-125			
Cadmium	2.79	0.200	"	2.27	0.411	105	75-125			
Copper	55.6	0.400	"	45.4	9.79	101	75-125			
Lead	31.1	0.200	"	22.7	8.69	98.9	75-125			
Nickel	30.3	0.400	"	45.4	8.19	48.8	75-125			QM-05
Silver	2.33	0.0200	"	2.27	0.0238	102	75-125			
Zinc	101	0.400	"	45.4	54.3	104	75-125			
Selenium	3.68	0.260	"	4.54	ND	81.2	75-125			

Matrix Spike Dup (BHF0951-MSD1)

Source: 2406429-01

Prepared: 06/28/24 Analyzed: 07/02/24

Arsenic	51.3	0.200	mg/kg dry	48.6	2.73	100	75-125	6.37	25	
Barium	65.1	0.400	"	48.6	22.8	87.1	75-125	2.46	25	
Cadmium	2.94	0.200	"	2.43	0.411	104	75-125	5.24	25	
Copper	58.5	0.400	"	48.6	9.79	100	75-125	5.08	25	
Lead	33.2	0.200	"	24.3	8.69	101	75-125	6.37	25	
Nickel	34.3	0.400	"	48.6	8.19	53.7	75-125	12.2	25	QM-05
Silver	2.49	0.0200	"	2.43	0.0238	102	75-125	6.62	25	
Zinc	106	0.400	"	48.6	54.3	106	75-125	4.40	25	
Selenium	3.96	0.260	"	4.86	ND	81.5	75-125	7.35	25	

Post Spike (BHF0951-PS1)

Source: 2406429-01

Prepared: 06/28/24 Analyzed: 07/03/24

Arsenic	112		ug/l	100	5.58	106	75-125			
Barium	139		"	100	46.5	92.8	75-125			
Cadmium	6.19		"	5.00	0.840	107	75-125			
Copper	124		"	100	20.0	104	75-125			
Lead	69.8		"	50.0	17.7	104	75-125			
Nickel	73.4		"	100	16.7	56.7	75-125			QM-01
Silver	5.22		"	5.00	0.0485	103	75-125			
Zinc	223		"	100	111	112	75-125			
Selenium	8.75		"	10.0	0.183	85.7	75-125			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:29

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 BHG0785 - EPA 3050B

Blank (BHG0785-BLK1)

Prepared: 07/26/24 Analyzed: 08/01/24

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 (BHG0785-BS1)

Prepared: 07/26/24 Analyzed: 08/01/24

Arsenic	40.0	0.200	mg/kg wet	39.1	102	80-120	QM-07
Barium	55.7	0.400	"	39.1	143	80-120	
Cadmium	1.91	0.200	"	1.95	97.7	80-120	
Copper	40.4	0.400	"	39.1	103	80-120	
Lead	19.2	0.200	"	19.5	98.3	80-120	
Nickel	40.5	0.400	"	39.1	104	80-120	
Silver	1.93	0.0200	"	1.95	98.9	80-120	
Zinc	40.3	0.400	"	39.1	103	80-120	
Selenium	3.76	0.260	"	3.91	96.3	80-120	

Duplicate (BHG0785-DUP1)

Source: 2406373-01RE1

Prepared: 07/26/24 Analyzed: 08/01/24

Arsenic	2.43	0.200	mg/kg wet	2.35	3.36	20
Barium	104	0.400	"	109	4.94	20
Cadmium	0.257	0.200	"	0.259	0.732	20
Copper	4.85	0.400	"	4.61	5.02	20
Lead	5.77	0.200	"	6.59	13.3	20
Nickel	5.30	0.400	"	5.11	3.58	20
Silver	0.0234	0.0200	"	0.0248	5.84	20
Zinc	17.3	0.400	"	16.4	5.24	20
Selenium	ND	0.260	"	ND		20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:29

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 BHG0785 - EPA 3050B

Matrix Spike (BHG0785-MS1)

Source: 2406373-01RE1

Prepared: 07/26/24 Analyzed: 08/01/24

Arsenic	24.7	0.200	mg/kg wet	37.0	2.35	60.5	75-125			QM-05
Barium	129	0.400	"	37.0	109	55.5	75-125			QM-07
Cadmium	2.09	0.200	"	1.85	0.259	99.2	75-125			
Copper	27.4	0.400	"	37.0	4.61	61.7	75-125			QM-05
Lead	21.8	0.200	"	18.5	6.59	82.0	75-125			
Nickel	28.3	0.400	"	37.0	5.11	62.6	75-125			QM-05
Silver	1.82	0.0200	"	1.85	0.0248	96.8	75-125			
Zinc	39.4	0.400	"	37.0	16.4	62.0	75-125			QM-05
Selenium	3.56	0.260	"	3.70	ND	96.0	75-125			

Matrix Spike Dup (BHG0785-MSD1)

Source: 2406373-01RE1

Prepared: 07/26/24 Analyzed: 08/01/24

Arsenic	27.5	0.200	mg/kg wet	39.4	2.35	64.0	75-125	10.7	25	QM-05
Barium	133	0.400	"	39.4	109	61.9	75-125	2.91	25	QM-07
Cadmium	2.22	0.200	"	1.97	0.259	99.8	75-125	5.98	25	
Copper	29.8	0.400	"	39.4	4.61	63.9	75-125	8.15	25	QM-05
Lead	24.4	0.200	"	19.7	6.59	90.5	75-125	11.4	25	
Nickel	30.7	0.400	"	39.4	5.11	65.1	75-125	8.17	25	QM-05
Silver	1.96	0.0200	"	1.97	0.0248	98.3	75-125	7.50	25	
Zinc	42.2	0.400	"	39.4	16.4	65.4	75-125	6.86	25	QM-05
Selenium	3.92	0.260	"	3.94	ND	99.5	75-125	9.65	25	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:29

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 BHF0939 - 3060A Mod

Blank (BHF0939-BLK1)

Prepared & Analyzed: 06/28/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHF0939-BS1)

Prepared & Analyzed: 06/28/24

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 102 80-120

Duplicate (BHF0939-DUP1)

Source: 2406410-01

Prepared & Analyzed: 06/28/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHF0939-MS1)

Source: 2406410-01

Prepared & Analyzed: 06/28/24

Chromium, Hexavalent 29.9 0.30 mg/kg dry 29.8 ND 100 75-125

Matrix Spike Dup (BHF0939-MSD1)

Source: 2406410-01

Prepared & Analyzed: 06/28/24

Chromium, Hexavalent 29.7 0.30 mg/kg dry 29.8 ND 99.6 75-125 0.601 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:29

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 BHF0933 - General Preparation

Blank (BHF0933-BLK1)

Prepared: 06/27/24 Analyzed: 06/28/24

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

LCS (BHF0933-BS1)

Prepared: 06/27/24 Analyzed: 06/28/24

Calcium	5.17	0.0500	mg/L wet	5.00	103	70-130
Magnesium	5.07	0.0500	"	5.00	101	70-130
Sodium	4.93	0.0500	"	5.00	98.6	70-130

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	Project: Noble - Farr T4N-R64W-S18 L01	
PO Box 1289	Project Number: [none]	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	08/01/24 13:29

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

Summit Scientific

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

Batch BHF0957 - General Preparation

Duplicate (BHF0957-DUP1)	Source: 2406418-01			Prepared & Analyzed: 06/28/24						
% Solids	85.8		%		85.3			0.495	20	

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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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:29

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 BHF0934 - General Preparation

Blank (BHF0934-BLK1)

Prepared: 06/27/24 Analyzed: 06/28/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHF0934-BS1)

Prepared: 06/27/24 Analyzed: 06/28/24

Specific Conductance (EC) 0.151 0.0100 mmhos/cm 0.150 101 95-105

Duplicate (BHF0934-DUP1)

Source: 2406397-11

Prepared: 06/27/24 Analyzed: 06/28/24

Specific Conductance (EC) 0.0352 0.0100 mmhos/cm 0.0354 0.596 20

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 - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
08/01/24 13:29

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

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

Batch BHF0935 - General Preparation

LCS (BHF0935-BS1)

Prepared: 06/27/24 Analyzed: 06/28/24

pH	9.14		pH Units	9.18		99.6	95-105		
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Duplicate (BHF0935-DUP1)

Source: 2406397-09

Prepared: 06/27/24 Analyzed: 06/28/24

pH	8.43		pH Units		8.45			0.237	20
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Batch BHG0786 - General Preparation

LCS (BHG0786-BS1)

Prepared & Analyzed: 07/26/24

pH	9.08		pH Units	9.18		98.9	95-105		
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Duplicate (BHG0786-DUP1)

Source: 2407343-01

Prepared & Analyzed: 07/26/24

pH	8.05		pH Units		8.06			0.124	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.



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr T4N-R64W-S18 L01

Project Number: [none]
Project Manager: Paul Henehan

Reported:
08/01/24 13:29

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
QLCS-01	The spike recovery was outside acceptance limits for this analyte indicating a potential high bias. The corresponding samples did not exhibit concentrations above reporting level for this analyte. Data quality is not affected.
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