

**TABLE 1**  
**SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**FARR T4N-R64-WS18 L01 482511, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C022-201**

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4- Trimethyl- Benzene (mg/kg)	1,3,5- Trimethyl- Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
SB-CEN 8ft	06/12/2023	8	<0.0020	<0.0050	0.02	<0.010	25	<0.0050	0.23	410	2300	260
SB-EAST 2 6ft	06/12/2023	6	<0.0020	<0.0050	<0.0050	<0.010	0.0062	<0.0050	0.013	<0.50	11.2825	23.9485
SB-NORTH 8ft	06/12/2023	8	<0.0020	<0.0050	<0.0050	<0.010	0.18	0.1	0.038	3.7	160	<50
SB-SOUTH 8ft	06/12/2023	8	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	0.53	<50	<50
SB-WEST	06/12/2023	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
BKG-1 12ft	06/12/2023	12	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
BKG-1 4ft	06/12/2023	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
BKG-2 4ft	06/12/2023	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
BKG-3 4ft	06/12/2023	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
BKG-4 4ft	06/12/2023	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
BKG-5 12ft	06/12/2023	12	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
BKG-5 4ft	06/12/2023	4	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the ECMC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

\* Indicates laboratory minimum detection limit in excess of SSL

\*\* Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

TABLE 2  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
FARR T4N-R64-WS18 L01 482511, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C022-201

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3- cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
SB-CEN 8ft	06/12/2023	8	<0.00500	<0.00500	0.039	<0.00500	<0.00500	<0.00500	0.0125	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.533	0.28
SB-EAST 2 6ft	06/12/2023	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0246	0.0459
SB-NORTH 8ft	06/12/2023	8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0107	<0.00500	<0.00500	0.151	0.0733
SB-SOUTH 8ft	06/12/2023	8	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SB-WEST	06/12/2023	6	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BKG-1 12ft	06/12/2023	12	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BKG-1 4ft	06/12/2023	4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BKG-2 4ft	06/12/2023	4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BKG-3 4ft	06/12/2023	4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BKG-4 4ft	06/12/2023	4	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BKG-5 12ft	06/12/2023	12	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
BKG-5 4ft	06/12/2023	4	<0.00500	<0.00500	<0.00500	0.005	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the ECMC Table 915-1 concentrations  
Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)  
\* Indicates laboratory minimum detection limit in excess of SSL  
NA - Not analyzed

TABLE 3  
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION  
NOBLE ENERGY INC.  
FARR T4N-R64-WS18 L01 482511, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C022-201

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
SB-CEN 8ft	06/12/2023	8	<b>8.43</b>	0.748	1.28	<b>2.39</b>
SB-EAST 2 6ft	06/12/2023	6	7.13	0.662	1.24	0.822
SB-NORTH 8ft	06/12/2023	8	8.21	0.712	0.388	0.265
SB-SOUTH 8ft	06/12/2023	8	7.85	1.11	2.44	0.157
SB-WEST	06/12/2023	6	7.71	0.356	0.635	0.155
BKG-1 12ft	06/12/2023	12	8.02	0.723	2	0.176
BKG-1 4ft	06/12/2023	4	7.22	0.737	2.21	0.459
BKG-2 4ft	06/12/2023	4	<b>8.69</b>	2.1	2.93	0.739
BKG-3 4ft	06/12/2023	4	<b>8.55</b>	0.372	1.86	0.957
BKG-4 4ft	06/12/2023	4	7.79	0.261	1.28	0.176
BKG-5 12ft	06/12/2023	12	7.86	1.77	2.39	0.0851
BKG-5 4ft	06/12/2023	4	7.66	1.19	2.49	0.207

Bold faced values exceed the ECMC Table 915-1 concentrations

Yellow highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

NA - Not analyzed

TABLE 4  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
FARR T4N-R64-WS18 L01 482511, WELD COUNTY, COLORADO  
FREMONT PROJECT NO. C022-201

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
SB-CEN 8ft	06/12/2023	8	<b>2.42</b>	82	0.263	<0.30	4.68	5.8	4.67	<0.298	<0.0229	16.1
SB-EAST 2 6ft	06/12/2023	6	<b>2.4</b>	<b>97.9</b>	<b>0.478</b>	<0.30	7.65	12.7	5.49	<0.312	0.0437	22.1
SB-NORTH 8ft	06/12/2023	8	<b>3.75</b>	60.3	0.242	<0.30	7.27	6.61	7.17	<0.281	<0.0216	14.7
SB-SOUTH 8ft	06/12/2023	8	<b>2.53</b>	<b>196</b>	0.30	<0.30	4.84	6.12	5.63	<0.299	<0.0230	18
SB-WEST	06/12/2023	6	<b>3.2</b>	<b>174</b>	<0.231	<0.30	<0.461	7.12	5.17	<0.300	0.0254	17
BKG-1 12ft	06/12/2023	12	<b>3.47</b>	28.9	0.32	<0.30	<0.465	8.05	5.35	<0.302	<0.0233	20
BKG-1 4ft	06/12/2023	4	<b>1.86</b>	57.9	0.33	<0.30	<0.441	7.22	3.88	<0.287	0.0274	14.7
BKG-2 4ft	06/12/2023	4	<b>2.79</b>	<b>98.3</b>	0.24	<0.30	<0.429	6.86	5.35	<0.279	0.0425	15.8
BKG-3 4ft	06/12/2023	4	<b>2.87</b>	<b>89.5</b>	<0.226	<0.30	<0.453	4.71	4.37	<0.294	<0.0226	12.8
BKG-4 4ft	06/12/2023	4	<b>2.29</b>	69.2	<0.232	<0.30	<0.464	7.27	5.18	<0.302	0.0539	18.9
BKG-5 12ft	06/12/2023	12	<b>3.54</b>	<b>182</b>	<0.225	<0.30	<0.451	6.66	5.66	<0.293	<0.0225	17.8
BKG-5 4ft	06/12/2023	4	<b>2.34</b>	72.1	0.228	<0.30	<0.444	6.43	4.59	<0.289	0.032	16.1

Bold faced values exceed the ECMC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

\* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed



# Farr T4N-R64-WS18 L01 482511 (Facility)

40.310579 -104.598304

Rem. # 24344

## Legend

⊙ Soil Sample Locations



Excav. Extent: 36'X  
28'x9' deep

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

June 26, 2023

Paul Henehan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - Farr C18-25  
Work Order # 2306299

Enclosed are the results of analyses for samples received by Summit Scientific on 06/15/23 06:08. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-CEN 8ft	2306299-01	Soil	06/12/23 00:00	06/15/23 06:08
SB-NORTH 8ft	2306299-02	Soil	06/12/23 00:00	06/15/23 06:08
SB-SOUTH 8ft	2306299-03	Soil	06/12/23 00:00	06/15/23 06:08
SB-EAST 2 6ft	2306299-04	Soil	06/12/23 00:00	06/15/23 06:08
SB-WEST	2306299-05	Soil	06/12/23 00:00	06/15/23 06:08
BKG-1 4ft	2306299-06	Soil	06/12/23 00:00	06/15/23 06:08
BKG-1 12ft	2306299-07	Soil	06/12/23 00:00	06/15/23 06:08
BKG-2 4ft	2306299-08	Soil	06/12/23 00:00	06/15/23 06:08
BKG-3 4ft	2306299-09	Soil	06/12/23 00:00	06/15/23 06:08
BKG-4 4ft	2306299-10	Soil	06/12/23 00:00	06/15/23 06:08
BKG-5 4ft	2306299-11	Soil	06/12/23 00:00	06/15/23 06:08
BKG-5 12ft	2306299-12	Soil	06/12/23 00:00	06/15/23 06:08

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.*

# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2306299	

<b>Client:</b> Fremont Environmental	<b>Send Data To:</b>	<b>Send Invoice To:</b>
<b>Address:</b> 8305 6th St.	<b>Project Manager:</b> Henchan	<b>Company:</b> Fremont Env.
<b>City/State/Zip:</b> Wellington, CO	<b>E-Mail:</b> Fremont Dist. List	<b>Project Name/Location:</b>
<b>Phone:</b> 603-477-6907	<b>Project Name:</b> Noble - Farr C-18-25	<b>AFE#:</b>
<b>Sampler Name:</b> Ethan Black	<b>Project Number:</b> C022-021	<b>PO/Billing Codes:</b> UWRWE - 02686 - ARN
		<b>Contact:</b> Dan P.

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, Naphthalene, TMBs	TPH (C6-C36)	PAH	Table 915-1 Metals	SAR, EC, pH, Boron	TDS, Chloride, Sulfate	
1	SB - CEN 8FT	6/12/23		1			X			X			X	X	X	X	X		
2	SB - NORTH 8FT																		
3	SB - SOUTH 8FT																		
4	SB - EAST 2 6FT																		
5	SB - WEST																		
6	BKG - 1 4FT																		
7	BKG - 1 12PT																		
8	BKG - 2 4FT																		
9	BKG - 3 4FT																		
10	BKG - 4 4FT																		
11	BKG - 5 4FT																		
12	BKG - 5 12PT																		
13																			
14																			
15																			

<b>Relinquished by:</b> Ethan Black	<b>Date/Time:</b> 6/15/23 6:08	<b>Received by:</b> S2	<b>Date/Time:</b> 6/15/23 6:08	<b>TAT Business Days</b>	<b>Field DO</b>	<b>Notes:</b>
				Same Day	Field EC	
<b>Relinquished by:</b> S2	<b>Date/Time:</b> 6/15/23 0608	<b>Received by:</b> [Signature]	<b>Date/Time:</b> 6/15/23 0608	1 Day	Field ORP	
				2 Days	Field pH	
<b>Relinquished by:</b> [Signature]	<b>Date/Time:</b>	<b>Received by:</b>	<b>Date/Time:</b>	3 Days	Field Temp.	
				Standard	Field Turb.	
<b>Temperature Upon Receipt:</b> 17.1	<b>Corrected Temperature:</b> 0	<b>IR gun #:</b>		<b>HNO3 lot #:</b>		



S<sub>2</sub>

## Sample Receipt Checklist

S2 Work Order# 2306299Client: Fremont Client Project ID: Noble Farr C18-25Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input type="checkbox"/>	<input 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) 17.1Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> <b>NOTE:</b> If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>none</u>
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

6/15/23  
 Date/Time
6:08



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-CEN 8ft**  
**2306299-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0663	06/19/23	06/20/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.020</b>	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>25</b>	0.50		"	100	"	"	06/19/23	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	1	"	"	06/20/23	"	
<b>Naphthalene</b>	<b>0.23</b>	0.0038		"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>410</b>	50		"	100	"	"	06/19/23	"	

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		105 %		50-150		"	"	06/20/23	"	
Surrogate: Toluene-d8		118 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		130 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
<b>C10-C28 (DRO)</b>	<b>2300</b>	50		mg/kg	1	BGF0665	06/19/23	06/19/23	EPA 8015M	
<b>C28-C36 (ORO)</b>	<b>260</b>	50		"	"	"	"	"	"	

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		110 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-CEN 8ft**  
**2306299-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0638	06/19/23	06/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
<b>Benzo (a) anthracene</b>	<b>0.0388</b>	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
<b>Chrysene</b>	<b>0.0125</b>	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		"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.533</b>	0.00500		"	"	"	"	"	"	E
<b>2-Methylnaphthalene</b>	<b>0.280</b>	0.00500		"	"	"	"	"	"	E

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		44.9 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		74.0 %		40-150		"	"	"	"	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>2.39</b>	0.0100		mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-CEN 8ft**  
**2306299-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	2.42	0.229		mg/kg dry	1	BGF0661	06/19/23	06/23/23	EPA 6020B
Barium	82.0	0.458		"	"	"	"	"	"
Cadmium	0.263	0.229		"	"	"	"	"	"
Copper	4.68	0.458		"	"	"	"	"	"
Lead	5.80	0.229		"	"	"	"	"	"
Nickel	4.67	0.458		"	"	"	"	"	"
Selenium	ND	0.298	0.201	"	"	"	"	"	"
Silver	ND	0.0229		"	"	"	"	"	"
Zinc	16.1	0.458		"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0682	06/20/23	06/20/23	EPA 7196A	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	931	0.0573		mg/L dry	1	BGF0739	06/21/23	06/25/23	EPA 6020B	
Magnesium	53.3	0.0573		"	"	"	"	"	"	
Sodium	148	0.0573		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.28	0.00100		units	1	BGF0909	06/26/23	06/26/23	Calculation	

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

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Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-CEN 8ft**  
**2306299-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	87.3			%	1	BGF0681	06/20/23	06/20/23	Calculation	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.748	0.0100		mmhos/cm	1	BGF0787	06/22/23	06/22/23	EPA 120.1	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.43			pH Units	1	BGF0788	06/22/23	06/22/23	EPA 9045D	

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Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-NORTH 8ft**  
**2306299-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020		mg/kg	1	BGF0663	06/19/23	06/19/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.18	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.10	0.0050		"	"	"	"	"	"	
Naphthalene	0.038	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	3.7	0.50		"	"	"	"	"	"	

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		114 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		107 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	160	50		mg/kg	1	BGF0665	06/19/23	06/20/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		107 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-NORTH 8ft**  
**2306299-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0638	06/19/23	06/19/23	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		"	"	"	"	"	"	
<b>Fluorene</b>	<b>0.0107</b>	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.151</b>	0.00500		"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0733</b>	0.00500		"	"	"	"	"	"	

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		109 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.4 %		40-150		"	"	"	"	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.265</b>	0.0100		mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-NORTH 8ft**  
**2306299-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	3.75	0.216		mg/kg dry	1	BGF0661	06/19/23	06/23/23	EPA 6020B
Barium	60.3	0.433		"	"	"	"	"	"
Cadmium	0.242	0.216		"	"	"	"	"	"
Copper	7.27	0.433		"	"	"	"	"	"
Lead	6.61	0.216		"	"	"	"	"	"
Nickel	7.17	0.433		"	"	"	"	"	"
Selenium	ND	0.281	0.189	"	"	"	"	"	"
Silver	ND	0.0216		"	"	"	"	"	"
Zinc	14.7	0.433		"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0682	06/20/23	06/20/23	EPA 7196A	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3100	0.0541		mg/L dry	1	BGF0739	06/21/23	06/25/23	EPA 6020B	
Magnesium	205	0.0541		"	"	"	"	"	"	
Sodium	82.6	0.0541		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.388	0.00100		units	1	BGF0909	06/26/23	06/26/23	Calculation	

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

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-NORTH 8ft**  
**2306299-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	92.5			%	1	BGF0681	06/20/23	06/20/23	Calculation	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.712	0.0100		mmhos/cm	1	BGF0787	06/22/23	06/22/23	EPA 120.1	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.21			pH Units	1	BGF0788	06/22/23	06/22/23	EPA 9045D	

Summit Scientific

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Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-SOUTH 8ft**  
**2306299-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0663	06/19/23	06/19/23	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		"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.53</b>	0.50		"	"	"	"	"	"	

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		98.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0665	06/19/23	06/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		92.3 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-SOUTH 8ft**  
**2306299-03 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0638	06/19/23	06/19/23	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: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		72.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		66.8 %		40-150		"	"	"	"	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.157</b>	0.0100		mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-SOUTH 8ft**  
**2306299-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.53	0.230		mg/kg dry	1	BGF0661	06/19/23	06/23/23	EPA 6020B	
Barium	196	0.460		"	"	"	"	"	"	
Cadmium	0.304	0.230		"	"	"	"	"	"	
Copper	4.84	0.460		"	"	"	"	"	"	
Lead	6.12	0.230		"	"	"	"	"	"	
Nickel	5.63	0.460		"	"	"	"	"	"	
Selenium	ND	0.299	0.201	"	"	"	"	"	"	
Silver	ND	0.0230		"	"	"	"	"	"	
Zinc	18.0	0.460		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0682	06/20/23	06/20/23	EPA 7196A	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	65.2	0.0575		mg/L dry	1	BGF0739	06/21/23	06/25/23	EPA 6020B	
Magnesium	40.9	0.0575		"	"	"	"	"	"	
Sodium	102	0.0575		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.44	0.00100		units	1	BGF0909	06/26/23	06/26/23	Calculation	

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

Summit Scientific

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Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-SOUTH 8ft**  
**2306299-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	86.9			%	1	BGF0681	06/20/23	06/20/23	Calculation	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	1.11	0.0100		mmhos/cm	1	BGF0787	06/22/23	06/22/23	EPA 120.1	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.85			pH Units	1	BGF0788	06/22/23	06/22/23	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-EAST 2 6ft**  
**2306299-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020		mg/kg	1	BGF0663	06/19/23	06/19/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
<b>1,2,4-Trimethylbenzene</b>	<b>0.0062</b>	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
<b>Naphthalene</b>	<b>0.013</b>	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		96.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0665	06/19/23	06/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.7 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-EAST 2 6ft**  
**2306299-04 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0638	06/19/23	06/19/23	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		"	"	"	"	"	"	
<b>1-Methylnaphthalene</b>	<b>0.0246</b>	0.00500		"	"	"	"	"	"	
<b>2-Methylnaphthalene</b>	<b>0.0459</b>	0.00500		"	"	"	"	"	"	

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		77.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		57.9 %		40-150		"	"	"	"	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.822</b>	0.0100		mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-EAST 2 6ft**  
**2306299-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.40	0.240		mg/kg dry	1	BGF0661	06/19/23	06/23/23	EPA 6020B	
Barium	97.9	0.480		"	"	"	"	"	"	
Cadmium	0.478	0.240		"	"	"	"	"	"	
Copper	7.65	0.480		"	"	"	"	"	"	
Lead	12.7	0.240		"	"	"	"	"	"	
Nickel	5.49	0.480		"	"	"	"	"	"	
Selenium	ND	0.312	0.210	"	"	"	"	"	"	
Silver	0.0437	0.0240		"	"	"	"	"	"	
Zinc	22.1	0.480		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0682	06/20/23	06/20/23	EPA 7196A	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	154	0.0600		mg/L dry	1	BGF0739	06/21/23	06/25/23	EPA 6020B	
Magnesium	41.6	0.0600		"	"	"	"	"	"	
Sodium	67.0	0.0600		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.24	0.00100		units	1	BGF0909	06/26/23	06/26/23	Calculation	

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

Summit Scientific

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Fremont Environmental  
PO Box 1289  
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Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-EAST 2 6ft**  
**2306299-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	83.3			%	1	BGF0681	06/20/23	06/20/23	Calculation	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.662	0.0100		mmhos/cm	1	BGF0787	06/22/23	06/22/23	EPA 120.1	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.13			pH Units	1	BGF0788	06/22/23	06/22/23	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-WEST**  
**2306299-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0663	06/19/23	06/20/23	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: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		99.2 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		95.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0665	06/19/23	06/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		101 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-WEST**  
**2306299-05 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500		mg/kg	1	BGF0638	06/19/23	06/19/23	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: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		77.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		69.3 %		40-150		"	"	"	"	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.155	0.0100		mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/12/23 00:00**

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

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Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-WEST**  
**2306299-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Arsenic	3.20	0.231		mg/kg dry	1	BGF0661	06/19/23	06/24/23	EPA 6020B
Barium	174	0.461		"	"	"	"	"	"
Cadmium	ND	0.231		"	"	"	"	"	"
Copper	ND	0.461		"	"	"	"	"	"
Lead	7.12	0.231		"	"	"	"	"	"
Nickel	5.17	0.461		"	"	"	"	"	"
Selenium	ND	0.300	0.202	"	"	"	"	"	"
Silver	0.0254	0.0231		"	"	"	"	"	"
Zinc	17.0	0.461		"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0682	06/20/23	06/20/23	EPA 7196A	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.3	0.0577		mg/L dry	1	BGF0739	06/21/23	06/25/23	EPA 6020B	
Magnesium	7.50	0.0577		"	"	"	"	"	"	
Sodium	17.2	0.0577		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.635	0.00100		units	1	BGF0909	06/26/23	06/26/23	Calculation	

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

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Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**SB-WEST**  
**2306299-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	86.7			%	1	BGF0681	06/20/23	06/20/23	Calculation	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.356	0.0100		mmhos/cm	1	BGF0787	06/22/23	06/22/23	EPA 120.1	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.71			pH Units	1	BGF0788	06/22/23	06/22/23	EPA 9045D	

Summit Scientific

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Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-1 4ft**  
**2306299-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0663	06/19/23	06/20/23	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: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		93.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		99.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0665	06/19/23	06/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		96.6 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-1 4ft**  
**2306299-06 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0638	06/19/23	06/19/23	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: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		62.5 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		49.4 %		40-150		"	"	"	"	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.459</b>	0.0100		mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-1 4ft**  
**2306299-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.86	0.221		mg/kg dry	1	BGF0661	06/19/23	06/24/23	EPA 6020B	
Barium	57.9	0.441		"	"	"	"	"	"	
Cadmium	0.332	0.221		"	"	"	"	"	"	
Copper	ND	0.441		"	"	"	"	"	"	
Lead	7.22	0.221		"	"	"	"	"	"	
Nickel	3.88	0.441		"	"	"	"	"	"	
Selenium	ND	0.287	0.193	"	"	"	"	"	"	
Silver	0.0274	0.0221		"	"	"	"	"	"	
Zinc	14.7	0.441		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0682	06/20/23	06/20/23	EPA 7196A	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.7	0.0551		mg/L dry	1	BGF0739	06/21/23	06/25/23	EPA 6020B	
Magnesium	17.5	0.0551		"	"	"	"	"	"	
Sodium	72.4	0.0551		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.21	0.00100		units	1	BGF0909	06/26/23	06/26/23	Calculation	

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-1 4ft**  
**2306299-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	90.7			%	1	BGF0681	06/20/23	06/20/23	Calculation	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.737	0.0100		mmhos/cm	1	BGF0787	06/22/23	06/22/23	EPA 120.1	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.22			pH Units	1	BGF0788	06/22/23	06/22/23	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-1 12ft**  
**2306299-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0663	06/19/23	06/20/23	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: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		98.1 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		99.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0665	06/19/23	06/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		91.3 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Fremont Environmental  
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Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-1 12ft**  
**2306299-07 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0638	06/19/23	06/19/23	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: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		58.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		57.2 %		40-150		"	"	"	"	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.176</b>	0.0100		mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-1 12ft**  
**2306299-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.47	0.233		mg/kg dry	1	BGF0661	06/19/23	06/24/23	EPA 6020B	
Barium	28.9	0.465		"	"	"	"	"	"	
Cadmium	0.322	0.233		"	"	"	"	"	"	
Copper	ND	0.465		"	"	"	"	"	"	
Lead	8.05	0.233		"	"	"	"	"	"	
Nickel	5.35	0.465		"	"	"	"	"	"	
Selenium	ND	0.302	0.204	"	"	"	"	"	"	
Silver	ND	0.0233		"	"	"	"	"	"	
Zinc	20.0	0.465		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 06/12/23 00:00

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0682	06/20/23	06/20/23	EPA 7196A	

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

Date Sampled: 06/12/23 00:00

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	35.5	0.0582		mg/L dry	1	BGF0739	06/21/23	06/25/23	EPA 6020B	
Magnesium	47.0	0.0582		"	"	"	"	"	"	
Sodium	77.3	0.0582		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 06/12/23 00:00

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.00	0.00100		units	1	BGF0909	06/26/23	06/26/23	Calculation	

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

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Fremont Environmental  
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Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-1 12ft**  
**2306299-07 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	86.0			%	1	BGF0681	06/20/23	06/20/23	Calculation	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.723	0.0100		mmhos/cm	1	BGF0787	06/22/23	06/22/23	EPA 120.1	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.02			pH Units	1	BGF0788	06/22/23	06/22/23	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-2 4ft**  
**2306299-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0663	06/19/23	06/20/23	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: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		113 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0665	06/19/23	06/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		87.1 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-2 4ft**  
**2306299-08 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0638	06/19/23	06/19/23	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: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		54.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		45.7 %		40-150		"	"	"	"	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.739</b>	0.0100		mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-2 4ft**  
**2306299-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.79	0.214		mg/kg dry	1	BGF0661	06/19/23	06/24/23	EPA 6020B	
Barium	98.3	0.429		"	"	"	"	"	"	
Cadmium	0.239	0.214		"	"	"	"	"	"	
Copper	ND	0.429		"	"	"	"	"	"	
Lead	6.86	0.214		"	"	"	"	"	"	
Nickel	5.35	0.429		"	"	"	"	"	"	
Selenium	ND	0.279	0.188	"	"	"	"	"	"	
Silver	0.0425	0.0214		"	"	"	"	"	"	
Zinc	15.8	0.429		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0682	06/20/23	06/20/23	EPA 7196A	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1380	0.0536		mg/L dry	1	BGF0739	06/21/23	06/25/23	EPA 6020B	
Magnesium	118	0.0536		"	"	"	"	"	"	
Sodium	422	0.0536		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.93	0.00100		units	1	BGF0909	06/26/23	06/26/23	Calculation	

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

Summit Scientific

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Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-2 4ft**  
**2306299-08 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	93.2			%	1	BGF0681	06/20/23	06/20/23	Calculation	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	2.10	0.0100		mmhos/cm	1	BGF0787	06/22/23	06/22/23	EPA 120.1	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.69			pH Units	1	BGF0788	06/22/23	06/22/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
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Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-3 4ft**  
**2306299-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0663	06/19/23	06/20/23	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: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		91.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.1 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0665	06/19/23	06/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		99.4 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-3 4ft**  
**2306299-09 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Acenaphthene	ND	0.00500			mg/kg	1	BGF0638	06/19/23	06/19/23	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: **06/12/23 00:00**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Surrogate: 2-Methylnaphthalene-d10		67.3 %			40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		59.3 %			40-150		"	"	"	"	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Boron	0.957	0.0100			mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/12/23 00:00**

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

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-3 4ft**  
**2306299-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.87	0.226		mg/kg dry	1	BGF0661	06/19/23	06/24/23	EPA 6020B	
Barium	89.5	0.453		"	"	"	"	"	"	
Cadmium	ND	0.226		"	"	"	"	"	"	
Copper	ND	0.453		"	"	"	"	"	"	
Lead	4.71	0.226		"	"	"	"	"	"	
Nickel	4.37	0.453		"	"	"	"	"	"	
Selenium	ND	0.294	0.198	"	"	"	"	"	"	
Silver	ND	0.0226		"	"	"	"	"	"	
Zinc	12.8	0.453		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 06/12/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0682	06/20/23	06/20/23	EPA 7196A	

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

Date Sampled: 06/12/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	62.2	0.0566		mg/L dry	1	BGF0739	06/21/23	06/25/23	EPA 6020B	
Magnesium	14.9	0.0566		"	"	"	"	"	"	
Sodium	62.9	0.0566		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 06/12/23 00:00

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.86	0.00100		units	1	BGF0909	06/26/23	06/26/23	Calculation	

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

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-3 4ft**  
**2306299-09 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	88.3			%	1	BGF0681	06/20/23	06/20/23	Calculation	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.372	0.0100		mmhos/cm	1	BGF0787	06/22/23	06/22/23	EPA 120.1	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	8.55			pH Units	1	BGF0788	06/22/23	06/22/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-4 4ft**  
**2306299-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0663	06/19/23	06/20/23	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: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		96.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		99.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0665	06/19/23	06/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		102 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-4 4ft**  
**2306299-10 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Acenaphthene	ND	0.00500			mg/kg	1	BGF0638	06/19/23	06/19/23	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: **06/12/23 00:00**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Surrogate: 2-Methylnaphthalene-d10		55.8 %			40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		48.6 %			40-150		"	"	"	"	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Boron	0.176	0.0100			mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/12/23 00:00**

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

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-4 4ft**  
**2306299-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.29	0.232		mg/kg dry	1	BGF0661	06/19/23	06/24/23	EPA 6020B	
Barium	69.2	0.464		"	"	"	"	"	"	
Cadmium	ND	0.232		"	"	"	"	"	"	
Copper	ND	0.464		"	"	"	"	"	"	
Lead	7.27	0.232		"	"	"	"	"	"	
Nickel	5.18	0.464		"	"	"	"	"	"	
Selenium	ND	0.302	0.203	"	"	"	"	"	"	
Silver	0.0539	0.0232		"	"	"	"	"	"	
Zinc	18.9	0.464		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0682	06/20/23	06/20/23	EPA 7196A	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	21.9	0.0580		mg/L dry	1	BGF0739	06/21/23	06/25/23	EPA 6020B	
Magnesium	10.7	0.0580		"	"	"	"	"	"	
Sodium	29.3	0.0580		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.28	0.00100		units	1	BGF0909	06/26/23	06/26/23	Calculation	

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

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-4 4ft**  
**2306299-10 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	86.2			%	1	BGF0681	06/20/23	06/20/23	Calculation	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.261	0.0100		mmhos/cm	1	BGF0787	06/22/23	06/22/23	EPA 120.1	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.79			pH Units	1	BGF0788	06/22/23	06/22/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-5 4ft**  
**2306299-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0663	06/19/23	06/20/23	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: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		91.6 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		96.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0665	06/19/23	06/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		103 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

Summit Scientific

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Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-5 4ft**  
**2306299-11 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Acenaphthene	ND	0.00500			mg/kg	1	BGF0638	06/19/23	06/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500			"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500			"	"	"	"	"	"	
<b>Benzo (a) pyrene</b>	<b>0.00545</b>	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: **06/12/23 00:00**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Surrogate: 2-Methylnaphthalene-d10		65.3 %			40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		58.8 %			40-150		"	"	"	"	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
<b>Boron</b>	<b>0.207</b>	0.0100			mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/12/23 00:00**

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

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-5 4ft**  
**2306299-11 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.34	0.222		mg/kg dry	1	BGF0661	06/19/23	06/24/23	EPA 6020B	
Barium	72.1	0.444		"	"	"	"	"	"	
Cadmium	0.228	0.222		"	"	"	"	"	"	
Copper	ND	0.444		"	"	"	"	"	"	
Lead	6.43	0.222		"	"	"	"	"	"	
Nickel	4.59	0.444		"	"	"	"	"	"	
Selenium	ND	0.289	0.194	"	"	"	"	"	"	
Silver	0.0320	0.0222		"	"	"	"	"	"	
Zinc	16.1	0.444		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0682	06/20/23	06/20/23	EPA 7196A	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	89.3	0.0555		mg/L dry	1	BGF0739	06/21/23	06/25/23	EPA 6020B	
Magnesium	38.6	0.0555		"	"	"	"	"	"	
Sodium	112	0.0555		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.49	0.00100		units	1	BGF0909	06/26/23	06/26/23	Calculation	

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

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-5 4ft**  
**2306299-11 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	90.1			%	1	BGF0681	06/20/23	06/20/23	Calculation	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	1.19	0.0100		mmhos/cm	1	BGF0787	06/22/23	06/22/23	EPA 120.1	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.66			pH Units	1	BGF0788	06/22/23	06/22/23	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-5 12ft**  
**2306299-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020		mg/kg	1	BGF0663	06/19/23	06/20/23	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: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		97.1 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		98.6 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0665	06/19/23	06/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		91.8 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-5 12ft**  
**2306299-12 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0638	06/19/23	06/19/23	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: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		60.5 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		63.9 %		40-150		"	"	"	"	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Boron</b>	<b>0.0851</b>	0.0100		mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-5 12ft**  
**2306299-12 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.54	0.225		mg/kg dry	1	BGF0661	06/19/23	06/24/23	EPA 6020B	
Barium	182	0.451		"	"	"	"	"	"	
Cadmium	ND	0.225		"	"	"	"	"	"	
Copper	ND	0.451		"	"	"	"	"	"	
Lead	6.66	0.225		"	"	"	"	"	"	
Nickel	5.66	0.451		"	"	"	"	"	"	
Selenium	ND	0.293	0.197	"	"	"	"	"	"	
Silver	ND	0.0225		"	"	"	"	"	"	
Zinc	17.8	0.451		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGF0682	06/20/23	06/20/23	EPA 7196A	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	77.6	0.0564		mg/L dry	1	BGF0739	06/21/23	06/25/23	EPA 6020B	
Magnesium	122	0.0564		"	"	"	"	"	"	
Sodium	145	0.0564		"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.39	0.00100		units	1	BGF0909	06/26/23	06/26/23	Calculation	

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

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**BKG-5 12ft**  
**2306299-12 (Soil)**

**Summit Scientific**

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
% Solids	88.7			%	1	BGF0681	06/20/23	06/20/23	Calculation	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	1.77	0.0100		mmhos/cm	1	BGF0787	06/22/23	06/22/23	EPA 120.1	

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

Date Sampled: **06/12/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
pH	7.86			pH Units	1	BGF0788	06/22/23	06/22/23	EPA 9045D	

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Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

## 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 BGF0663 - EPA 5030 Soil MS

##### Blank (BGF0663-BLK1)

Prepared & Analyzed: 06/19/23

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	0.0350		"	0.0400		87.6	50-150			
Surrogate: Toluene-d8	0.0413		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0411		"	0.0400		103	50-150			

##### LCS (BGF0663-BS1)

Prepared & Analyzed: 06/19/23

Benzene	0.0661	0.0020	mg/kg	0.0750		88.2	70-130			
Toluene	0.0761	0.0050	"	0.0750		101	70-130			
Ethylbenzene	0.0856	0.0050	"	0.0750		114	70-130			
m,p-Xylene	0.167	0.010	"	0.150		112	70-130			
o-Xylene	0.0768	0.0050	"	0.0750		102	70-130			
1,2,4-Trimethylbenzene	0.0832	0.0050	"	0.0750		111	70-130			
1,3,5-Trimethylbenzene	0.0852	0.0050	"	0.0750		114	70-130			
Naphthalene	0.0704	0.0038	"	0.0750		93.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0370		"	0.0400		92.6	50-150			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	50-150			

##### Matrix Spike (BGF0663-MS1)

Source: 2306299-02

Prepared & Analyzed: 06/19/23

Benzene	0.0714	0.0020	mg/kg	0.0750	ND	95.2	70-130			
Toluene	0.0806	0.0050	"	0.0750	ND	107	70-130			
Ethylbenzene	0.0901	0.0050	"	0.0750	ND	120	70-130			
m,p-Xylene	0.178	0.010	"	0.150	ND	119	70-130			
o-Xylene	0.0802	0.0050	"	0.0750	ND	107	70-130			
1,2,4-Trimethylbenzene	0.229	0.0050	"	0.0750	0.181	64.0	70-130			QM-05
1,3,5-Trimethylbenzene	0.165	0.0050	"	0.0750	0.105	80.5	70-130			
Naphthalene	0.118	0.0038	"	0.0750	0.0375	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0376		"	0.0400		93.9	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0413		"	0.0400		103	50-150			

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Fremont Environmental  
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Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**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 BGF0663 - EPA 5030 Soil MS**

Matrix Spike Dup (BGF0663-MSD1)	Source: 2306299-02			Prepared & Analyzed: 06/19/23						
Benzene	0.0711	0.0020	mg/kg	0.0750	ND	94.8	70-130	0.379	30	
Toluene	0.0806	0.0050	"	0.0750	ND	107	70-130	0.0372	30	
Ethylbenzene	0.0878	0.0050	"	0.0750	ND	117	70-130	2.63	30	
m,p-Xylene	0.174	0.010	"	0.150	ND	116	70-130	1.99	30	
o-Xylene	0.0796	0.0050	"	0.0750	ND	106	70-130	0.751	30	
1,2,4-Trimethylbenzene	0.255	0.0050	"	0.0750	0.181	98.0	70-130	10.6	30	
1,3,5-Trimethylbenzene	0.184	0.0050	"	0.0750	0.105	105	70-130	10.7	30	
Naphthalene	0.125	0.0038	"	0.0750	0.0375	117	70-130	5.68	30	
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0400		99.5	50-150			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0434		"	0.0400		109	50-150			

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Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**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 BGF0665 - EPA 3550A**

**Blank (BGF0665-BLK1)**

Prepared & Analyzed: 06/19/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.3		"	12.5		98.4	30-150			

**LCS (BGF0665-BS1)**

Prepared & Analyzed: 06/19/23

C10-C28 (DRO)	444	50	mg/kg	500		88.8	70-130			
Surrogate: o-Terphenyl	11.9		"	12.5		95.0	30-150			

**Matrix Spike (BGF0665-MS1)**

Source: 2306299-02

Prepared & Analyzed: 06/19/23

C10-C28 (DRO)	575	50	mg/kg	500	163	82.5	70-130			
Surrogate: o-Terphenyl	11.9		"	12.5		94.9	30-150			

**Matrix Spike Dup (BGF0665-MSD1)**

Source: 2306299-02

Prepared & Analyzed: 06/19/23

C10-C28 (DRO)	641	50	mg/kg	500	163	95.7	70-130	10.9	20	
Surrogate: o-Terphenyl	13.0		"	12.5		104	30-150			

Summit Scientific

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Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

## PAH by EPA Method 8270D SIM - Quality Control

### Summit Scientific

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

#### Batch BGF0638 - EPA 5030 Soil MS

##### Blank (BGF0638-BLK1)

Prepared & Analyzed: 06/19/23

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	0.0378		"	0.0333		113	40-150			
Surrogate: Fluoranthene-d10	0.0266		"	0.0333		79.9	40-150			

##### LCS (BGF0638-BS1)

Prepared & Analyzed: 06/19/23

Acenaphthene	0.0312	0.00500	mg/kg	0.0333		93.7	31-137			
Anthracene	0.0303	0.00500	"	0.0333		90.9	30-120			
Benzo (a) anthracene	0.0237	0.00500	"	0.0333		71.0	30-120			
Benzo (a) pyrene	0.0288	0.00500	"	0.0333		86.3	30-120			
Benzo (b) fluoranthene	0.0270	0.00500	"	0.0333		81.0	30-120			
Benzo (k) fluoranthene	0.0283	0.00500	"	0.0333		84.8	30-120			
Chrysene	0.0319	0.00500	"	0.0333		95.8	30-120			
Dibenz (a,h) anthracene	0.0269	0.00500	"	0.0333		80.8	30-120			
Fluoranthene	0.0313	0.00500	"	0.0333		93.8	30-120			
Fluorene	0.0308	0.00500	"	0.0333		92.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0277	0.00500	"	0.0333		83.1	30-120			
Pyrene	0.0347	0.00500	"	0.0333		104	35-142			
1-Methylnaphthalene	0.0274	0.00500	"	0.0333		82.3	35-142			
2-Methylnaphthalene	0.0304	0.00500	"	0.0333		91.3	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0285		"	0.0333		85.5	40-150			
Surrogate: Fluoranthene-d10	0.0314		"	0.0333		94.3	40-150			

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Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

## 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 BGF0638 - EPA 5030 Soil MS

Matrix Spike (BGF0638-MS1)			Source: 2306299-01		Prepared & Analyzed: 06/19/23						
Acenaphthene	0.0842	0.00500	mg/kg	0.0333	ND	253	31-137				QM-01
Anthracene	0.628	0.00500	"	0.0333	ND	NR	30-120				QM-01
Benzo (a) anthracene	0.0463	0.00500	"	0.0333	0.0388	22.5	30-120				QM-01
Benzo (a) pyrene	0.0206	0.00500	"	0.0333	ND	61.9	30-120				
Benzo (b) fluoranthene	0.0210	0.00500	"	0.0333	ND	62.9	30-120				
Benzo (k) fluoranthene	0.0150	0.00500	"	0.0333	ND	44.9	30-120				
Chrysene	0.0500	0.00500	"	0.0333	0.0125	112	30-120				
Dibenz (a,h) anthracene	0.0739	0.00500	"	0.0333	ND	222	30-120				QM-01
Fluoranthene	0.0279	0.00500	"	0.0333	ND	83.8	30-120				
Fluorene	0.0537	0.00500	"	0.0333	ND	161	30-120				QM-01
Indeno (1,2,3-cd) pyrene	0.0460	0.00500	"	0.0333	ND	138	30-120				QM-01
Pyrene	0.0676	0.00500	"	0.0333	ND	203	35-142				QM-01
1-Methylnaphthalene	0.487	0.00500	"	0.0333	0.533	NR	15-130				QM-01
2-Methylnaphthalene	0.264	0.00500	"	0.0333	0.280	NR	15-130				QM-01
Surrogate: 2-Methylnaphthalene-d10	0.0246		"	0.0333		73.7	40-150				
Surrogate: Fluoranthene-d10	0.0225		"	0.0333		67.6	40-150				

Matrix Spike Dup (BGF0638-MSD1)			Source: 2306299-01		Prepared & Analyzed: 06/19/23						
Acenaphthene	0.112	0.00500	mg/kg	0.0333	ND	336	31-137	28.4	30		QM-01
Anthracene	0.465	0.00500	"	0.0333	ND	NR	30-120	29.9	30		QM-01
Benzo (a) anthracene	0.0231	0.00500	"	0.0333	0.0388	NR	30-120	66.9	30		QM-01
Benzo (a) pyrene	0.0228	0.00500	"	0.0333	ND	68.3	30-120	9.77	30		
Benzo (b) fluoranthene	0.0245	0.00500	"	0.0333	ND	73.5	30-120	15.4	30		
Benzo (k) fluoranthene	0.0176	0.00500	"	0.0333	ND	52.8	30-120	16.1	30		
Chrysene	0.0414	0.00500	"	0.0333	0.0125	86.6	30-120	18.8	30		
Dibenz (a,h) anthracene	0.107	0.00500	"	0.0333	ND	322	30-120	36.8	30		QM-01
Fluoranthene	0.0252	0.00500	"	0.0333	ND	75.5	30-120	10.4	30		
Fluorene	0.144	0.00500	"	0.0333	ND	433	30-120	91.5	30		QM-01
Indeno (1,2,3-cd) pyrene	0.0674	0.00500	"	0.0333	ND	202	30-120	37.7	30		QM-01
Pyrene	0.0637	0.00500	"	0.0333	ND	191	35-142	5.96	30		QM-01
1-Methylnaphthalene	0.714	0.00500	"	0.0333	0.533	541	15-130	37.7	50		QM-01
2-Methylnaphthalene	0.378	0.00500	"	0.0333	0.280	294	15-130	35.7	50		QM-01
Surrogate: 2-Methylnaphthalene-d10	0.0514		"	0.0333		154	40-150				QM-01
Surrogate: Fluoranthene-d10	0.0193		"	0.0333		58.0	40-150				

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**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 BGF0746 - EPA 3050B**

**Blank (BGF0746-BLK1)**

Prepared: 06/21/23 Analyzed: 06/26/23

Boron ND 0.0100 mg/L

**LCS (BGF0746-BS1)**

Prepared: 06/21/23 Analyzed: 06/26/23

Boron 5.63 0.0100 mg/L 5.00 113 80-120

**Duplicate (BGF0746-DUP1)**

**Source: 2306298-21**

Prepared: 06/21/23 Analyzed: 06/26/23

Boron 0.175 0.0100 mg/L 0.197 11.9 20

**Matrix Spike (BGF0746-MS1)**

**Source: 2306298-21**

Prepared: 06/21/23 Analyzed: 06/26/23

Boron 5.63 0.0100 mg/L 5.00 0.197 109 75-125

**Matrix Spike Dup (BGF0746-MSD1)**

**Source: 2306298-21**

Prepared: 06/21/23 Analyzed: 06/26/23

Boron 5.74 0.0100 mg/L 5.00 0.197 111 75-125 1.99 25

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**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 BGF0661 - EPA 3050B**

**Blank (BGF0661-BLK1)**

Prepared: 06/19/23 Analyzed: 06/23/23

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	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

**LCS (BGF0661-BS1)**

Prepared: 06/19/23 Analyzed: 06/23/23

Arsenic	34.5	0.200	mg/kg wet	40.0	86.4	80-120
Barium	35.2	0.400	"	40.0	88.0	80-120
Cadmium	1.80	0.200	"	2.00	89.8	80-120
Copper	37.1	0.400	"	40.0	92.8	80-120
Lead	17.6	0.200	"	20.0	88.2	80-120
Nickel	36.4	0.400	"	40.0	91.0	80-120
Selenium	3.99	0.260	"	4.00	99.7	80-120
Silver	1.78	0.0200	"	2.00	88.9	80-120
Zinc	36.3	0.400	"	40.0	90.7	80-120

**Duplicate (BGF0661-DUP1)**

Source: 2306298-26

Prepared: 06/19/23 Analyzed: 06/23/23

Arsenic	4.94	0.255	mg/kg dry	4.63	6.49	20
Barium	178	0.510	"	175	1.33	20
Cadmium	0.437	0.255	"	0.411	6.01	20
Copper	10.8	0.510	"	10.6	2.48	20
Lead	14.5	0.255	"	14.5	0.0598	20
Nickel	6.68	0.510	"	6.31	5.70	20
Selenium	ND	0.331	"	ND		20
Silver	0.103	0.0255	"	0.108	4.34	20
Zinc	26.5	0.510	"	26.4	0.295	20

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**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 BGF0661 - EPA 3050B**

Matrix Spike (BGF0661-MS1)		Source: 2306298-26			Prepared: 06/19/23		Analyzed: 06/23/23			
Arsenic	44.4	0.255	mg/kg dry	51.0	4.63	78.1	75-125			
Barium	217	0.510	"	51.0	175	81.6	75-125			
Cadmium	2.63	0.255	"	2.55	0.411	87.1	75-125			
Copper	32.9	0.510	"	51.0	10.6	43.8	75-125			QM-07
Lead	34.6	0.255	"	25.5	14.5	79.0	75-125			
Nickel	28.9	0.510	"	51.0	6.31	44.3	75-125			QM-07
Selenium	3.94	0.331	"	5.10	ND	77.2	75-125			
Silver	2.32	0.0255	"	2.55	0.108	86.8	75-125			
Zinc	51.0	0.510	"	51.0	26.4	48.1	75-125			QM-07

Matrix Spike Dup (BGF0661-MSD1)		Source: 2306298-26			Prepared: 06/19/23		Analyzed: 06/23/23			
Arsenic	46.5	0.255	mg/kg dry	51.0	4.63	82.1	75-125	4.57	25	
Barium	226	0.510	"	51.0	175	99.1	75-125	4.02	25	
Cadmium	2.72	0.255	"	2.55	0.411	90.6	75-125	3.37	25	
Copper	32.5	0.510	"	51.0	10.6	42.9	75-125	1.31	25	QM-07
Lead	36.6	0.255	"	25.5	14.5	86.9	75-125	5.67	25	
Nickel	28.8	0.510	"	51.0	6.31	44.2	75-125	0.247	25	QM-07
Selenium	3.66	0.331	"	5.10	ND	71.9	75-125	7.15	25	QM-07
Silver	2.37	0.0255	"	2.55	0.108	88.8	75-125	2.19	25	
Zinc	51.1	0.510	"	51.0	26.4	48.3	75-125	0.157	25	QM-07

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Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**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 BGF0682 - 3060A Mod**

**Blank (BGF0682-BLK1)**

Prepared & Analyzed: 06/20/23

Chromium, Hexavalent ND 0.30 mg/kg wet

**LCS (BGF0682-BS1)**

Prepared & Analyzed: 06/20/23

Chromium, Hexavalent 21.2 0.30 mg/kg wet 25.0 84.8 80-120

**Duplicate (BGF0682-DUP1)**

**Source: 2306299-01**

Prepared & Analyzed: 06/20/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

**Matrix Spike (BGF0682-MS1)**

**Source: 2306299-01**

Prepared & Analyzed: 06/20/23

Chromium, Hexavalent 26.4 0.30 mg/kg dry 28.6 ND 92.0 75-125

**Matrix Spike Dup (BGF0682-MSD1)**

**Source: 2306299-01**

Prepared & Analyzed: 06/20/23

Chromium, Hexavalent 23.3 0.30 mg/kg dry 28.6 ND 81.4 75-125 12.2 20

Summit Scientific

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Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

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

**Summit Scientific**

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

**Batch BGF0739 - General Preparation**

**Blank (BGF0739-BLK1)**

Prepared: 06/21/23 Analyzed: 06/25/23

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

**LCS (BGF0739-BS1)**

Prepared: 06/21/23 Analyzed: 06/25/23

Calcium	5.40	0.0500	mg/L wet	5.00	108	70-130
Magnesium	5.11	0.0500	"	5.00	102	70-130
Sodium	5.00	0.0500	"	5.00	99.9	70-130

Summit Scientific

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

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

#### Summit Scientific

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

#### Batch BGF0681 - General Preparation

Duplicate (BGF0681-DUP1)		Source: 2306299-01			Prepared & Analyzed: 06/20/23					
% Solids	87.4		%		87.3		0.162		20	

Summit Scientific

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Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**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 BGF0787 - General Preparation**

**Blank (BGF0787-BLK1)**

Prepared & Analyzed: 06/22/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGF0787-BS1)**

Prepared & Analyzed: 06/22/23

Specific Conductance (EC) 0.152 0.0100 mmhos/cm 0.150 102 95-105

**Duplicate (BGF0787-DUP1)**

**Source: 2306299-01**

Prepared & Analyzed: 06/22/23

Specific Conductance (EC) 0.748 0.0100 mmhos/cm 0.748 0.00 20

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

**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 BGF0788 - General Preparation**

**LCS (BGF0788-BS1)**

Prepared & Analyzed: 06/22/23

pH	8.96	pH Units	9.18	97.6	95-105
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**Duplicate (BGF0788-DUP1)**

**Source: 2306299-01**

Prepared & Analyzed: 06/22/23

pH	8.46	pH Units	8.43	0.355	20
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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021  
Project Manager: Paul Henehan

**Reported:**  
06/26/23 15:55

### Notes and Definitions

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.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
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