

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

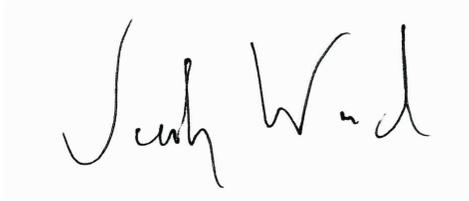
303.277.9310

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

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

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

Lab ID	Page 1 of 1
2306299	

Client: Fremont Environmental	Send Data To:	Send Invoice To:
Address: 8305 6th St.	Project Manager: Henehan	Company: Fremont Env.
City/State/Zip: Wellington, CO	E-Mail: Fremont Dist. List	Project Name/Location:
Phone: 603-477-6907	Project Name: Noble - Farr C-18-25	AFE#:
Sampler Name: Ethan Black	Project Number: C022-021	PO/Billing Codes: UWRWE - 02686 - ARN
		Contact: 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
1	SB - CEN 8FT	6/12/23		2			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																		

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

S₂

Sample Receipt Checklist

S2 Work Order# 2306299

Client: Fremont Client Project ID: Noble Farr C18-25

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

-

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C)

Thermometer #

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

Additional Comments (if any):

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



Custodian Printed Name

6/15/23 6:08

Date/Time



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		"	"	"	"	"	"	
Ethylbenzene	0.020	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	25	0.50		"	100	"	"	06/19/23	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	1	"	"	06/20/23	"	
Naphthalene	0.23	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	410	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							
C10-C28 (DRO)	2300	50		mg/kg	1	BGF0665	06/19/23	06/19/23	EPA 8015M	
C28-C36 (ORO)	260	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

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SB-CEN 8ft
2306299-01 (Soil)

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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	0.0388	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	0.0125	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	0.533	0.00500		"	"	"	"	"	"	E
2-Methylnaphthalene	0.280	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
Boron	2.39	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
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 Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021
 Project Manager: Paul Henehan

Reported:
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SB-CEN 8ft
2306299-01 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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)**

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

PAH by EPA Method 8270D SIM

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 06/26/23 15:55

SB-NORTH 8ft
2306299-02 (Soil)

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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	0.0107	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	0.151	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	0.0733	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
Boron	0.265	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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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-NORTH 8ft
2306299-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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Project: Noble - Farr C18-25

Project Number: CO22-021
 Project Manager: Paul Henehan

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**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**

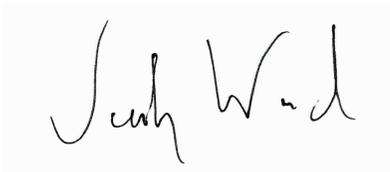
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.712	0.0100		mmhos/cm	1	BGF0787	06/22/23	06/22/23	EPA 120.1	

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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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-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		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.53	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

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-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
Boron	0.157	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-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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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-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		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	0.0062	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	0.013	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		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		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		95.7 %		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-EAST 2 6ft
2306299-04 (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	0.0246	0.00500			"	"	"	"	"	"	
2-Methylnaphthalene	0.0459	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		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		MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit									
Boron	0.822	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

**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

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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-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	

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-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							

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-WEST
2306299-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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

Summit Scientific

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Fremont Environmental
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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

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**

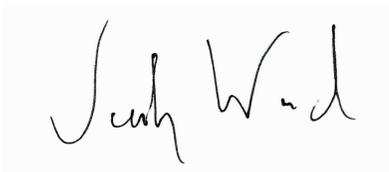
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.356	0.0100		mmhos/cm	1	BGF0787	06/22/23	06/22/23	EPA 120.1	

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	

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Fremont Environmental
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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

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

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		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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.459	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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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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 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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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

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 12ft
2306299-07 (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		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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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 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	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	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	Reporting 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

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 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**

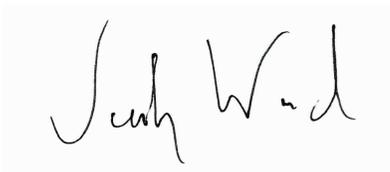
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.723	0.0100		mmhos/cm	1	BGF0787	06/22/23	06/22/23	EPA 120.1	

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	

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

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

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-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
Boron	0.739	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-2 4ft
2306299-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method
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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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

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
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

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		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		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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
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		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

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

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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)

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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	

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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

BKG-4 4ft
2306299-10 (Soil)

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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

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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 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		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 Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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-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	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	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	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

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-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**

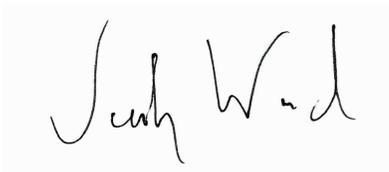
Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Specific Conductance (EC)	0.261	0.0100		mmhos/cm	1	BGF0787	06/22/23	06/22/23	EPA 120.1	

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	

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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

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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 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	0.00545	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		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 Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.207	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 4ft
2306299-11 (Soil)

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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

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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)

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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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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

BKG-5 12ft
2306299-12 (Soil)

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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 Manager: Paul Henehan

Reported:
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BKG-5 12ft
2306299-12 (Soil)

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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
Boron	0.0851	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-5 12ft
2306299-12 (Soil)

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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

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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)**

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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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0350		"	0.0400		87.6	50-150			
<i>Surrogate: Toluene-d8</i>	0.0413		"	0.0400		103	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0370		"	0.0400		92.6	50-150			
<i>Surrogate: Toluene-d8</i>	0.0405		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0376		"	0.0400		93.9	50-150			
<i>Surrogate: Toluene-d8</i>	0.0406		"	0.0400		101	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0413		"	0.0400		103	50-150			

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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		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.5</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0412</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0434</i>		<i>"</i>	<i>0.0400</i>		<i>109</i>	<i>50-150</i>			

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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

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGF0665 - EPA 3550A

Blank (BGF0665-BLK1)

Prepared & Analyzed: 06/19/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -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: <i>o</i> -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: <i>o</i> -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: <i>o</i> -Terphenyl	13.0		"	12.5		104	30-150				

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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

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch 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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0378		"	0.0333	113	40-150				
<i>Surrogate: Fluoranthene-d10</i>	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				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0285		"	0.0333	85.5	40-150				
<i>Surrogate: Fluoranthene-d10</i>	0.0314		"	0.0333	94.3	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

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

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

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

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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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	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

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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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

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch 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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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

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

Summit Scientific

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

Batch BGF0739 - General Preparation

Blank (BGF0739-BLK1)

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

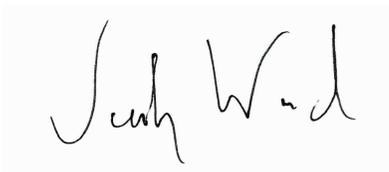
Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

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

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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

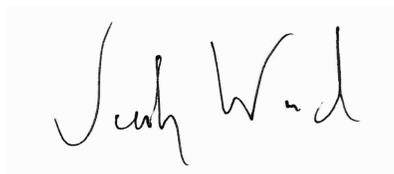
Summit Scientific

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

Batch BGF0681 - General Preparation

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

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

Summit Scientific

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

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

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

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

Summit Scientific

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

Batch 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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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

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