

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

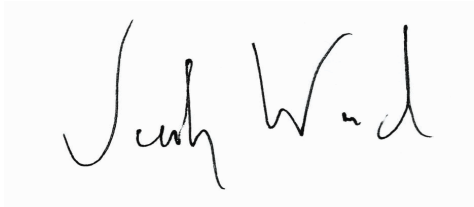
303.277.9310

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, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style. The first name "Jacob" is written with a large, looped 'J' and the last name "Wood" is written with a large 'W' and a trailing 'd'.

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: Henchan	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.

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

Relinquished by: Ethan Black	Date/Time: 6/15/23 6:08	Received by: S2	Date/Time: 6/15/23 6:08	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: S2	Date/Time: 6/15/23 0608	Received by: [Signature]	Date/Time: 6/15/23 0608	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by: [Signature]	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# 2306299Client: Fremont Client Project ID: Noble Farr C18-25Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 17.1Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽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>none</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
 Date/Time
6:08



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

SB-CEN 8ft
2306299-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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

PAH by EPA Method 8270D SIM

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SB-CEN 8ft
2306299-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0638	06/19/23	06/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
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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Project Number: CO22-021
Project Manager: Paul Henehan

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SB-CEN 8ft
2306299-01 (Soil)

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Total Metals by EPA 6020B

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

Hexavalent Chromium by EPA Method 7196

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

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

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

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

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

Calculated Analysis

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

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

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

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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:
06/26/23 15:55

SB-NORTH 8ft
2306299-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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

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

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

Extractable Petroleum Hydrocarbons by 8015

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

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

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

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

PAH by EPA Method 8270D SIM

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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**

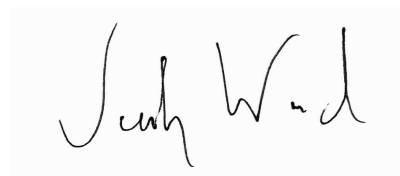
Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.265	0.0100		mg/L	1	BGF0746	06/21/23	06/26/23	EPA 6020B	

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

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SB-NORTH 8ft
2306299-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

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

Hexavalent Chromium by EPA Method 7196

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

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

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

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

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

Calculated Analysis

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

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

Physical Parameters by APHA/ASTM/EPA Methods

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Project Manager: Paul Henehan

Reported:
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SB-NORTH 8ft
2306299-02 (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	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 Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020		mg/kg	1	BGF0663	06/19/23	06/19/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	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 Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50		mg/kg	1	BGF0665	06/19/23	06/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.3 %		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-SOUTH 8ft
2306299-03 (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		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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
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		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							

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Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

SB-SOUTH 8ft
2306299-03 (Soil)

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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

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Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

Reported:
06/26/23 15:55

SB-SOUTH 8ft
2306299-03 (Soil)

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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	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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Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

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

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020		mg/kg	1	BGF0663	06/19/23	06/19/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
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 Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		92.8 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		96.8 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

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

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

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

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

PAH by EPA Method 8270D SIM

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Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

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

Summit Scientific

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0638	06/19/23	06/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	0.0246	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	0.0459	0.00500		"	"	"	"	"	"	

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

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

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

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

Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

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

Summit Scientific

Total Metals by EPA 6020B

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

Hexavalent Chromium by EPA Method 7196

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

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

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

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

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

Calculated Analysis

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

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

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

Reported:
06/26/23 15:55

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

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

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

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

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

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

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

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

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

Total Metals by EPA 6020B

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

Hexavalent Chromium by EPA Method 7196

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

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

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

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

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

Calculated Analysis

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

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

Physical Parameters by APHA/ASTM/EPA Methods

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

Physical Parameters by APHA/ASTM/EPA Methods

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

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

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

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

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

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

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

Summit Scientific

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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

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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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

PAH by EPA Method 8270D SIM

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

Analyte	Result	Reporting Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500		mg/kg	1	BGF0638	06/19/23	06/19/23	EPA 8270D SIM	
Anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500		"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500		"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500		"	"	"	"	"	"	
Chrysene	ND	0.00500		"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500		"	"	"	"	"	"	
Fluoranthene	ND	0.00500		"	"	"	"	"	"	
Fluorene	ND	0.00500		"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500		"	"	"	"	"	"	
Pyrene	ND	0.00500		"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500		"	"	"	"	"	"	

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

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

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

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

Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

BKG-1 4ft
2306299-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

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

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-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	

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-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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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

BKG-1 12ft
2306299-07 (Soil)

Summit Scientific

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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PO Box 1289
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

BKG-1 12ft
2306299-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

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

Hexavalent Chromium by EPA Method 7196

Date Sampled: 06/12/23 00:00

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

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

Date Sampled: 06/12/23 00:00

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

Calculated Analysis

Date Sampled: 06/12/23 00:00

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

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

Reported:
06/26/23 15:55

BKG-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
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

Reported:
06/26/23 15:55

BKG-2 4ft
2306299-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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

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

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

Extractable Petroleum Hydrocarbons by 8015

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

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

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

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

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

BKG-2 4ft
2306299-08 (Soil)

Summit Scientific

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

Hexavalent Chromium by EPA Method 7196

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

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

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

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

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

Calculated Analysis

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

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

Physical Parameters by APHA/ASTM/EPA Methods

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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	

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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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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 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		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 Limit	MDL	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 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-3 4ft
2306299-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.87	0.226		mg/kg dry	1	BGF0661	06/19/23	06/24/23	EPA 6020B
Barium	89.5	0.453		"	"	"	"	"	"
Cadmium	ND	0.226		"	"	"	"	"	"
Copper	ND	0.453		"	"	"	"	"	"
Lead	4.71	0.226		"	"	"	"	"	"
Nickel	4.37	0.453		"	"	"	"	"	"
Selenium	ND	0.294	0.198	"	"	"	"	"	"
Silver	ND	0.0226		"	"	"	"	"	"
Zinc	12.8	0.453		"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

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

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

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

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

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

Calculated Analysis

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

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

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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

Project Number: CO22-021

Project Manager: Paul Henehan

Reported:
06/26/23 15:55

BKG-3 4ft
2306299-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

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

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

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

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

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

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

Reported:
06/26/23 15:55

BKG-4 4ft
2306299-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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

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

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

Extractable Petroleum Hydrocarbons by 8015

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

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

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

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

PAH by EPA Method 8270D SIM

Summit Scientific

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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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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

BKG-4 4ft
2306299-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B

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

Hexavalent Chromium by EPA Method 7196

Date Sampled: 06/12/23 00:00

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

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

Date Sampled: 06/12/23 00:00

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

Calculated Analysis

Date Sampled: 06/12/23 00:00

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

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

Reported:
06/26/23 15:55

BKG-4 4ft
2306299-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

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

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

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

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

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

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

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

Reported:
06/26/23 15:55

BKG-5 4ft
2306299-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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

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

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

Extractable Petroleum Hydrocarbons by 8015

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

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

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

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

PAH by EPA Method 8270D SIM

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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

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

Total Metals by EPA 6020B Hot Water Soluble Extraction

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

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

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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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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	

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-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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PO Box 1289
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

BKG-5 12ft
2306299-12 (Soil)

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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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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

BKG-5 12ft
2306299-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B

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

Hexavalent Chromium by EPA Method 7196

Date Sampled: 06/12/23 00:00

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

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

Date Sampled: 06/12/23 00:00

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

Calculated Analysis

Date Sampled: 06/12/23 00:00

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

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021

Project Manager: Paul Henehan

Reported:
06/26/23 15:55

BKG-5 12ft
2306299-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

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

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

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

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

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

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

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

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

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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

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGF0663 - EPA 5030 Soil MS

Blank (BGF0663-BLK1)

Prepared & Analyzed: 06/19/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0350		"	0.0400		87.6	50-150			
Surrogate: Toluene-d8	0.0413		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0411		"	0.0400		103	50-150			

LCS (BGF0663-BS1)

Prepared & Analyzed: 06/19/23

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

Matrix Spike (BGF0663-MS1)

Source: 2306299-02

Prepared & Analyzed: 06/19/23

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

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Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

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

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

Batch BGF0663 - EPA 5030 Soil MS

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

Summit Scientific

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Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGF0665 - EPA 3550A

Blank (BGF0665-BLK1)

Prepared & Analyzed: 06/19/23

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

LCS (BGF0665-BS1)

Prepared & Analyzed: 06/19/23

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

Matrix Spike (BGF0665-MS1)

Source: 2306299-02

Prepared & Analyzed: 06/19/23

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

Matrix Spike Dup (BGF0665-MSD1)

Source: 2306299-02

Prepared & Analyzed: 06/19/23

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

Summit Scientific

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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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch BGF0638 - EPA 5030 Soil MS

Blank (BGF0638-BLK1)

Prepared & Analyzed: 06/19/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0378		"	0.0333		113	40-150			
Surrogate: Fluoranthene-d10	0.0266		"	0.0333		79.9	40-150			

LCS (BGF0638-BS1)

Prepared & Analyzed: 06/19/23

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

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Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGF0638 - EPA 5030 Soil MS

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

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

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

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

Batch BGF0746 - EPA 3050B

Blank (BGF0746-BLK1)

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

Boron ND 0.0100 mg/L

LCS (BGF0746-BS1)

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

Boron 5.63 0.0100 mg/L 5.00 113 80-120

Duplicate (BGF0746-DUP1)

Source: 2306298-21

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

Boron 0.175 0.0100 mg/L 0.197 11.9 20

Matrix Spike (BGF0746-MS1)

Source: 2306298-21

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

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

Matrix Spike Dup (BGF0746-MSD1)

Source: 2306298-21

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

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

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PO Box 1289
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGF0661 - EPA 3050B

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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Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGF0661 - EPA 3050B

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

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

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

Batch BGF0682 - 3060A Mod

Blank (BGF0682-BLK1)

Prepared & Analyzed: 06/20/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGF0682-BS1)

Prepared & Analyzed: 06/20/23

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

Duplicate (BGF0682-DUP1)

Source: 2306299-01

Prepared & Analyzed: 06/20/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGF0682-MS1)

Source: 2306299-01

Prepared & Analyzed: 06/20/23

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

Matrix Spike Dup (BGF0682-MSD1)

Source: 2306299-01

Prepared & Analyzed: 06/20/23

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

Summit Scientific

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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

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

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

Batch BGF0739 - General Preparation

Blank (BGF0739-BLK1)

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

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

LCS (BGF0739-BS1)

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

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

Summit Scientific

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Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

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

Summit Scientific

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

Batch BGF0681 - General Preparation

Duplicate (BGF0681-DUP1)

Source: 2306299-01

Prepared & Analyzed: 06/20/23

% Solids	87.4	%	87.3	0.162	20
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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

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

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

Batch BGF0787 - General Preparation

Blank (BGF0787-BLK1)

Prepared & Analyzed: 06/22/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGF0787-BS1)

Prepared & Analyzed: 06/22/23

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

Duplicate (BGF0787-DUP1)

Source: 2306299-01

Prepared & Analyzed: 06/22/23

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

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Farr C18-25

Project Number: CO22-021
Project Manager: Paul Henehan

Reported:
06/26/23 15:55

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

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

Batch BGF0788 - General Preparation

LCS (BGF0788-BS1)

Prepared & Analyzed: 06/22/23

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

Source: 2306299-01

Prepared & Analyzed: 06/22/23

pH	8.46	pH Units	8.43	0.355	20
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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