

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 06, 2024

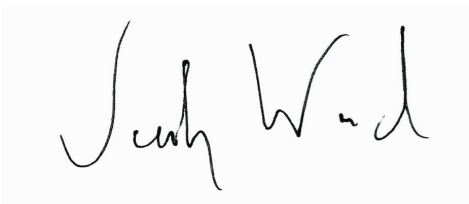
Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Grigsby AC 19-62HN

Work Order #2401564

Enclosed are the results of analyses for samples received by Summit Scientific on 01/31/24 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a small "w" at the end of the last name.

Jacob Wood For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/06/24 15:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01 6FT	2401564-01	Soil	01/31/24 00:00	01/31/24 16:30
SS-06 6FT	2401564-02	Soil	01/31/24 00:00	01/31/24 16:30
SS-07 6FT	2401564-03	Soil	01/31/24 00:00	01/31/24 16:30
SS-09 6FT	2401564-04	Soil	01/31/24 00:00	01/31/24 16:30
SS-14 6FT	2401564-05	Soil	01/31/24 00:00	01/31/24 16:30

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

Lab ID	Page	of
2401564		

Send Data To:		Send Invoice To:	
Client: Fremont Environmental, Inc.	Project Manager: Henshan	Company: Chevron	
Address: 8305 6th St.,	E-Mail: Chevron Dist. List, PDC Dist. List, Civitas Dist. List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549	Fremont Dist. List (@fremontenv.com) paulH, ethanB, nickL, mikeG, jeffG, christL, stanG, aaronO	AFEN#:	
Phone: 603-477-6907	Project Name: Noble - Grigsby AC 19-62 HN	PO/Billing Codes:	
Sampler Name: Ethan Black	Project Number:	Contact: Dan P.	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEX, Naphthalene, TMS	TPH (C6-C36)	PAH	SAR, EC, pH, Boron	Metals (Table 915-1)	TDS, Chloride, Sulfate	
1	SS-01 6FT	1/31/24		2			X			X		X	X	X	X				
2	SS-06 6FT	I		I															
3	SS-07 6FT	I		I															
4	SS-09 6FT	I		I															
5	SS-14 6FT	I		I															
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: Ethan Black	Date/Time: 1/31/24 1555	Received by: S2 - North Office	Date/Time: 1/31/24 1555	TAT Business Days	Field DO	Notes:
				Same Day <input checked="" type="checkbox"/>	Field EC	
Relinquished by: S2	Date/Time: 1/31/24 1630	Received by: [Signature]	Date/Time: 1/31/24 1630	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 9.1	Corrected Temperature: 9	IR gun #:	1	HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2401564

Client: Fremont Client Project ID: Noble-Grigsby AC19-62 HN

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

[] [] [] [] []

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

Temp (°C) 9.1 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			on ICE
If custody seals are present, are they intact? ⁽¹⁾	-			
Are samples due within 48 hours present?	-			Saturday
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		-		
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	-			no time stamps
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	-			
Were all samples received intact? ⁽¹⁾	✓			
Was adequate sample volume provided? ⁽¹⁾	✓			
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	✓			
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			✓	
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.			✓	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	
Additional Comments (if any):				

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

AS

Custodian Printed Name

1/31/24
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/06/24 15:42

SS-01 6FT
2401564-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	0.012	0.0020		mg/kg	1	BHA1127	01/31/24	02/01/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	0.016	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.017	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.011	0.0050		"	"	"	"	"	"	
Naphthalene	0.0079	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.54	0.50		"	"	"	"	"	"	

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0439	110 %		50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0393	98.3 %		50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0400	100 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHA1129	01/31/24	01/31/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: o-Terphenyl</i>	9.14	73.2 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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SS-01 6FT
2401564-01 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0018	02/01/24	02/01/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0214	64.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0201	60.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0022	02/01/24	02/02/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
Project Manager: Paul Henchan

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02/06/24 15:42

SS-01 6FT
2401564-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	1.72	0.200	mg/kg dry	1	BHB0038	02/01/24	02/03/24	EPA 6020B
Barium	17.9	0.400	"	"	"	"	"	"
Cadmium	0.246	0.200	"	"	"	"	"	"
Copper	10.1	0.400	"	"	"	"	"	"
Lead	15.1	0.200	"	"	"	"	"	"
Nickel	5.20	0.400	"	"	"	"	"	"
Silver	0.0509	0.0200	"	"	"	"	"	"
Zinc	28.7	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHB0028	02/01/24	02/01/24	EPA 7196A	

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

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	14.4	0.0500	mg/L dry	1	BHA1133	01/31/24	02/01/24	EPA 6020B	
Magnesium	13.6	0.0500	"	"	"	"	"	"	
Sodium	296	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	13.4	0.00100	units	1	BHB0114	02/05/24	02/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Project Manager: Paul Henchan

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 02/06/24 15:42

SS-01 6FT
2401564-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.2	%	1	BHB0066	02/02/24	02/05/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.52	0.0100	mmhos/cm	1	BHB0004	02/01/24	02/01/24	EPA 120.1	

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

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.83		pH Units	1	BHB0003	02/01/24	02/01/24	EPA 9045D	

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Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/06/24 15:42

SS-06 6FT
2401564-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHA1127	01/31/24	02/01/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0441	110 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0377	94.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.2 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHA1129	01/31/24	01/31/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.95	63.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
Project Manager: Paul Henchan

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02/06/24 15:42

SS-06 6FT
2401564-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0018	02/01/24	02/01/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0207	62.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0186	55.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0022	02/01/24	02/02/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
Project Manager: Paul Henchan

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02/06/24 15:42

SS-06 6FT
2401564-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.22	0.200	mg/kg dry	1	BHB0038	02/01/24	02/03/24	EPA 6020B	
Barium	10.3	0.400	"	"	"	"	"	"	
Cadmium	0.231	0.200	"	"	"	"	"	"	
Copper	10.1	0.400	"	"	"	"	"	"	
Lead	13.9	0.200	"	"	"	"	"	"	
Nickel	5.51	0.400	"	"	"	"	"	"	
Silver	0.0412	0.0200	"	"	"	"	"	"	
Zinc	32.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHB0028	02/01/24	02/01/24	EPA 7196A	

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

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	288	0.0500	mg/L dry	1	BHA1133	01/31/24	02/01/24	EPA 6020B	
Magnesium	165	0.0500	"	"	"	"	"	"	
Sodium	780	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	9.08	0.00100	units	1	BHB0114	02/05/24	02/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 PO Box 1289
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Project Number: [none]
 Project Manager: Paul Henchan

Reported:
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SS-06 6FT
2401564-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	80.5	%	1	BHB0066	02/02/24	02/05/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	4.62	0.0100	mmhos/cm	1	BHB0004	02/01/24	02/01/24	EPA 120.1	

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

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.64		pH Units	1	BHB0003	02/01/24	02/01/24	EPA 9045D	

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Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/06/24 15:42

SS-07 6FT
2401564-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHA1127	01/31/24	02/01/24	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0434	109 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0381	95.3 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0407	102 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHA1129	01/31/24	02/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.90	63.2 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/06/24 15:42

SS-07 6FT
2401564-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0018	02/01/24	02/01/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0222	66.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0215	64.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0022	02/01/24	02/02/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/24 00:00**

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

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/06/24 15:42

SS-07 6FT
2401564-03 (Soil)

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Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.20	0.200	mg/kg dry	1	BHB0038	02/01/24	02/03/24	EPA 6020B	
Barium	13.1	0.400	"	"	"	"	"	"	
Cadmium	0.261	0.200	"	"	"	"	"	"	
Copper	7.39	0.400	"	"	"	"	"	"	
Lead	9.17	0.200	"	"	"	"	"	"	
Nickel	7.87	0.400	"	"	"	"	"	"	
Silver	0.0345	0.0200	"	"	"	"	"	"	
Zinc	44.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHB0028	02/01/24	02/01/24	EPA 7196A	

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

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	13.4	0.0500	mg/L dry	1	BHA1133	01/31/24	02/01/24	EPA 6020B	
Magnesium	12.9	0.0500	"	"	"	"	"	"	
Sodium	167	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	7.81	0.00100	units	1	BHB0114	02/05/24	02/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/24 00:00**

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

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/06/24 15:42

SS-07 6FT
2401564-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	81.2	%	1	BHB0066	02/02/24	02/05/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.942	0.0100	mmhos/cm	1	BHB0004	02/01/24	02/01/24	EPA 120.1	

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

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.79		pH Units	1	BHB0003	02/01/24	02/01/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/06/24 15:42

SS-09 6FT
2401564-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.016	0.0020	mg/kg	1	BHA1127	01/31/24	02/01/24	EPA 8260B	
Toluene	0.014	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.037	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.018	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	0.0087	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.52	0.50	"	"	"	"	"	"	

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0449	112 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0385	96.2 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0413	103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BHA1129	01/31/24	02/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>	8.60	68.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/06/24 15:42

SS-09 6FT
2401564-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0018	02/01/24	02/01/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0213	63.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0194	58.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0022	02/01/24	02/02/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/24 00:00**

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

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/06/24 15:42

SS-09 6FT
2401564-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.30	0.200	mg/kg dry	1	BHB0038	02/01/24	02/03/24	EPA 6020B	
Barium	23.8	0.400	"	"	"	"	"	"	
Cadmium	0.328	0.200	"	"	"	"	"	"	
Copper	12.0	0.400	"	"	"	"	"	"	
Lead	15.1	0.200	"	"	"	"	"	"	
Nickel	8.66	0.400	"	"	"	"	"	"	
Silver	0.0521	0.0200	"	"	"	"	"	"	
Zinc	49.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHB0028	02/01/24	02/01/24	EPA 7196A	

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

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	8.36	0.0500	mg/L dry	1	BHA1133	01/31/24	02/01/24	EPA 6020B	
Magnesium	8.45	0.0500	"	"	"	"	"	"	
Sodium	356	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	20.8	0.00100	units	1	BHB0114	02/05/24	02/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/24 00:00**

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

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/06/24 15:42

SS-09 6FT
2401564-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	75.2	%	1	BHB0066	02/02/24	02/05/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.65	0.0100	mmhos/cm	1	BHB0004	02/01/24	02/01/24	EPA 120.1	

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

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.76		pH Units	1	BHB0003	02/01/24	02/01/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/06/24 15:42

SS-14 6FT
2401564-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	0.0092	0.0020		mg/kg	1	BHA1127	01/31/24	02/01/24	EPA 8260B	
Toluene	0.016	0.0050		"	"	"	"	"	"	
Ethylbenzene	0.015	0.0050		"	"	"	"	"	"	
Xylenes (total)	0.060	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.024	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.012	0.0050		"	"	"	"	"	"	
Naphthalene	0.012	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.67	0.50		"	"	"	"	"	"	

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0439	110 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.4 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0386	96.5 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHA1129	01/31/24	02/01/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.24	65.9 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/06/24 15:42

SS-14 6FT
2401564-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0018	02/01/24	02/01/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.00544	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.00684	0.00500	"	"	"	"	"	"	

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0155	46.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0161	48.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0022	02/01/24	02/02/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/31/24 00:00**

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

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/06/24 15:42

SS-14 6FT
2401564-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	3.74	0.200	mg/kg dry	1	BHB0038	02/01/24	02/03/24	EPA 6020B
Barium	19.0	0.400	"	"	"	"	"	"
Cadmium	0.276	0.200	"	"	"	"	"	"
Copper	9.33	0.400	"	"	"	"	"	"
Lead	12.4	0.200	"	"	"	"	"	"
Nickel	7.38	0.400	"	"	"	"	"	"
Silver	0.0437	0.0200	"	"	"	"	"	"
Zinc	37.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHB0028	02/01/24	02/01/24	EPA 7196A	

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

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	87.5	0.0500	mg/L dry	1	BHA1133	01/31/24	02/01/24	EPA 6020B	
Magnesium	71.4	0.0500	"	"	"	"	"	"	
Sodium	786	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	15.1	0.00100	units	1	BHB0114	02/05/24	02/05/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/31/24 00:00**

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

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/06/24 15:42

SS-14 6FT
2401564-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	79.6	%	1	BHB0066	02/02/24	02/05/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/31/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.52	0.0100	mmhos/cm	1	BHB0004	02/01/24	02/01/24	EPA 120.1	

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

Date Sampled: **01/31/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.94		pH Units	1	BHB0003	02/01/24	02/01/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/06/24 15:42

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHA1127 - EPA 5030 Soil MS

Blank (BHA1127-BLK1)

Prepared: 01/31/24 Analyzed: 02/01/24

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0407		"	0.0400		102	50-150			
<i>Surrogate: Toluene-d8</i>	0.0394		"	0.0400		98.6	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0405		"	0.0400		101	50-150			

LCS (BHA1127-BS1)

Prepared: 01/31/24 Analyzed: 02/01/24

Benzene	0.0967	0.0020	mg/kg	0.100		96.7	70-130			
Toluene	0.0943	0.0050	"	0.100		94.3	70-130			
Ethylbenzene	0.0896	0.0050	"	0.100		89.6	70-130			
m,p-Xylene	0.177	0.010	"	0.200		88.7	70-130			
o-Xylene	0.0903	0.0050	"	0.100		90.3	70-130			
1,2,4-Trimethylbenzene	0.0813	0.0050	"	0.100		81.3	70-130			
1,3,5-Trimethylbenzene	0.0813	0.0050	"	0.100		81.3	70-130			
Naphthalene	0.0964	0.0038	"	0.100		96.4	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0426		"	0.0400		107	50-150			
<i>Surrogate: Toluene-d8</i>	0.0400		"	0.0400		100	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0382		"	0.0400		95.5	50-150			

Matrix Spike (BHA1127-MS1)

Source: 2401563-01

Prepared: 01/31/24 Analyzed: 02/01/24

Benzene	0.0802	0.0020	mg/kg	0.100	ND	80.2	70-130			
Toluene	0.0749	0.0050	"	0.100	ND	74.9	70-130			
Ethylbenzene	0.0721	0.0050	"	0.100	ND	72.1	70-130			
m,p-Xylene	0.141	0.010	"	0.200	ND	70.4	70-130			
o-Xylene	0.0723	0.0050	"	0.100	ND	72.3	70-130			
1,2,4-Trimethylbenzene	0.0700	0.0050	"	0.100	ND	70.0	70-130			
1,3,5-Trimethylbenzene	0.0721	0.0050	"	0.100	ND	72.1	70-130			
Naphthalene	0.0861	0.0038	"	0.100	ND	86.1	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0424		"	0.0400		106	50-150			
<i>Surrogate: Toluene-d8</i>	0.0392		"	0.0400		98.0	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0422		"	0.0400		105	50-150			

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/06/24 15:42

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BHA1127 - EPA 5030 Soil MS

Matrix Spike Dup (BHA1127-MSD1)	Source: 2401563-01			Prepared: 01/31/24 Analyzed: 02/01/24						
Benzene	0.0828	0.0020	mg/kg	0.100	ND	82.8	70-130	3.13	30	
Toluene	0.0799	0.0050	"	0.100	ND	79.9	70-130	6.43	30	
Ethylbenzene	0.0737	0.0050	"	0.100	ND	73.7	70-130	2.22	30	
m,p-Xylene	0.146	0.010	"	0.200	ND	72.8	70-130	3.35	30	
o-Xylene	0.0741	0.0050	"	0.100	ND	74.1	70-130	2.46	30	
1,2,4-Trimethylbenzene	0.0721	0.0050	"	0.100	ND	72.1	70-130	2.91	30	
1,3,5-Trimethylbenzene	0.0757	0.0050	"	0.100	ND	75.7	70-130	4.91	30	
Naphthalene	0.0913	0.0038	"	0.100	ND	91.3	70-130	5.78	30	
Surrogate: 1,2-Dichloroethane-d4	0.0452		"	0.0400		113	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	50-150			

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 PO Box 1289
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Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/06/24 15:42

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

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

Batch BHA1129 - EPA 3550A

Blank (BHA1129-BLK1)

Prepared: 01/31/24 Analyzed: 02/01/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: <i>o</i> -Terphenyl	11.7		"	12.5		93.9	30-150			

LCS (BHA1129-BS1)

Prepared: 01/31/24 Analyzed: 02/01/24

C10-C28 (DRO)	438	50	mg/kg	500		87.5	70-130			
Surrogate: <i>o</i> -Terphenyl	8.54		"	12.5		68.3	30-150			

Matrix Spike (BHA1129-MS1)

Source: 2401563-01

Prepared: 01/31/24 Analyzed: 02/01/24

C10-C28 (DRO)	416	50	mg/kg	500	21.0	78.9	70-130			
Surrogate: <i>o</i> -Terphenyl	5.30		"	12.5		42.4	30-150			

Matrix Spike Dup (BHA1129-MSD1)

Source: 2401563-01

Prepared: 01/31/24 Analyzed: 02/01/24

C10-C28 (DRO)	395	50	mg/kg	500	21.0	74.8	70-130	5.13	20	
Surrogate: <i>o</i> -Terphenyl	5.69		"	12.5		45.5	30-150			

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Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/06/24 15:42

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHB0018 - EPA 5030 Soil MS

Blank (BHB0018-BLK1)

Prepared & Analyzed: 02/01/24

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0311</i>		"	<i>0.0333</i>		<i>93.2</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0342</i>		"	<i>0.0333</i>		<i>103</i>	<i>40-150</i>			

LCS (BHB0018-BS1)

Prepared & Analyzed: 02/01/24

Acenaphthene	0.0323	0.00500	mg/kg	0.0333	96.9	31-137
Anthracene	0.0305	0.00500	"	0.0333	91.5	30-120
Benzo (a) anthracene	0.0284	0.00500	"	0.0333	85.3	30-120
Benzo (a) pyrene	0.0327	0.00500	"	0.0333	98.2	30-120
Benzo (b) fluoranthene	0.0339	0.00500	"	0.0333	102	30-120
Benzo (k) fluoranthene	0.0370	0.00500	"	0.0333	111	30-120
Chrysene	0.0322	0.00500	"	0.0333	96.6	30-120
Dibenz (a,h) anthracene	0.0302	0.00500	"	0.0333	90.7	30-120
Fluoranthene	0.0367	0.00500	"	0.0333	110	30-120
Fluorene	0.0344	0.00500	"	0.0333	103	30-120
Indeno (1,2,3-cd) pyrene	0.0223	0.00500	"	0.0333	66.8	30-120
Pyrene	0.0337	0.00500	"	0.0333	101	35-142
1-Methylnaphthalene	0.0348	0.00500	"	0.0333	104	35-142
2-Methylnaphthalene	0.0367	0.00500	"	0.0333	110	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0313</i>		"	<i>0.0333</i>	<i>93.9</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0369</i>		"	<i>0.0333</i>	<i>111</i>	<i>40-150</i>

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/06/24 15:42

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHB0018 - EPA 5030 Soil MS

Matrix Spike (BHB0018-MS1)	Source: 2401517-01			Prepared & Analyzed: 02/01/24						
Acenaphthene	0.0177	0.00500	mg/kg	0.0333	ND	53.2	31-137			QR-02
Anthracene	0.0190	0.00500	"	0.0333	ND	57.1	30-120			
Benzo (a) anthracene	0.0171	0.00500	"	0.0333	ND	51.4	30-120			
Benzo (a) pyrene	0.0180	0.00500	"	0.0333	ND	54.1	30-120			QR-02
Benzo (b) fluoranthene	0.0190	0.00500	"	0.0333	ND	57.0	30-120			
Benzo (k) fluoranthene	0.0210	0.00500	"	0.0333	ND	63.0	30-120			
Chrysene	0.0181	0.00500	"	0.0333	ND	54.4	30-120			
Dibenz (a,h) anthracene	0.0171	0.00500	"	0.0333	ND	51.2	30-120			
Fluoranthene	0.0200	0.00500	"	0.0333	ND	59.9	30-120			QR-02
Fluorene	0.0194	0.00500	"	0.0333	ND	58.2	30-120			QR-02
Indeno (1,2,3-cd) pyrene	0.0176	0.00500	"	0.0333	ND	52.9	30-120			QR-02
Pyrene	0.0203	0.00500	"	0.0333	ND	60.9	35-142			
1-Methylnaphthalene	0.0195	0.00500	"	0.0333	ND	58.5	15-130			
2-Methylnaphthalene	0.0214	0.00500	"	0.0333	ND	64.3	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0193</i>		"	<i>0.0333</i>		<i>57.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0206</i>		"	<i>0.0333</i>		<i>61.7</i>	<i>40-150</i>			

Matrix Spike Dup (BHB0018-MSD1)	Source: 2401517-01			Prepared & Analyzed: 02/01/24						
Acenaphthene	0.0242	0.00500	mg/kg	0.0333	ND	72.7	31-137	31.0	30	QR-02
Anthracene	0.0245	0.00500	"	0.0333	ND	73.4	30-120	25.1	30	
Benzo (a) anthracene	0.0220	0.00500	"	0.0333	ND	66.0	30-120	24.9	30	
Benzo (a) pyrene	0.0246	0.00500	"	0.0333	ND	73.7	30-120	30.7	30	QR-02
Benzo (b) fluoranthene	0.0256	0.00500	"	0.0333	ND	76.8	30-120	29.5	30	
Benzo (k) fluoranthene	0.0284	0.00500	"	0.0333	ND	85.1	30-120	29.8	30	
Chrysene	0.0241	0.00500	"	0.0333	ND	72.2	30-120	28.2	30	
Dibenz (a,h) anthracene	0.0204	0.00500	"	0.0333	ND	61.3	30-120	18.0	30	
Fluoranthene	0.0291	0.00500	"	0.0333	ND	87.2	30-120	37.1	30	QR-02
Fluorene	0.0267	0.00500	"	0.0333	ND	80.0	30-120	31.6	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0264	0.00500	"	0.0333	ND	79.1	30-120	39.7	30	QR-02
Pyrene	0.0243	0.00500	"	0.0333	ND	73.0	35-142	18.1	30	
1-Methylnaphthalene	0.0288	0.00500	"	0.0333	ND	86.5	15-130	38.7	50	
2-Methylnaphthalene	0.0288	0.00500	"	0.0333	ND	86.5	15-130	29.4	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0255</i>		"	<i>0.0333</i>		<i>76.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0298</i>		"	<i>0.0333</i>		<i>89.5</i>	<i>40-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/06/24 15:42

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

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

Batch BHB0022 - EPA 3050B

Blank (BHB0022-BLK1)

Prepared: 02/01/24 Analyzed: 02/02/24

Boron ND 2.00 mg/L

LCS (BHB0022-BS1)

Prepared: 02/01/24 Analyzed: 02/02/24

Boron 4.31 2.00 mg/L 5.00 86.2 80-120

Duplicate (BHB0022-DUP1)

Source: 2401562-01

Prepared: 02/01/24 Analyzed: 02/02/24

Boron 0.649 2.00 mg/L 0.674 3.80 20

Matrix Spike (BHB0022-MS1)

Source: 2401562-01

Prepared: 02/01/24 Analyzed: 02/02/24

Boron 4.91 2.00 mg/L 5.00 0.674 84.7 75-125

Matrix Spike Dup (BHB0022-MSD1)

Source: 2401562-01

Prepared: 02/01/24 Analyzed: 02/02/24

Boron 4.48 2.00 mg/L 5.00 0.674 76.1 75-125 9.21 25

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/06/24 15:42

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHB0038 - EPA 3050B

Blank (BHB0038-BLK1)

Prepared: 02/01/24 Analyzed: 02/03/24

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

LCS (BHB0038-BS1)

Prepared: 02/01/24 Analyzed: 02/03/24

Arsenic	37.3	0.200	mg/kg wet	40.0		93.2	80-120
Barium	32.3	0.400	"	40.0		80.8	80-120
Cadmium	1.73	0.200	"	2.00		86.6	80-120
Copper	39.8	0.400	"	40.0		99.4	80-120
Lead	17.2	0.200	"	20.0		85.8	80-120
Nickel	38.7	0.400	"	40.0		96.8	80-120
Silver	1.72	0.0200	"	2.00		86.2	80-120
Zinc	40.5	0.400	"	40.0		101	80-120
Selenium	4.09	0.260	"	4.00		102	80-120

Duplicate (BHB0038-DUP1)

Source: 2401492-01

Prepared: 02/01/24 Analyzed: 02/03/24

Arsenic	2.06	0.200	mg/kg dry	2.28		10.1	20
Barium	58.4	0.400	"	58.0		0.630	20
Cadmium	0.117	0.200	"	0.124		6.13	20
Copper	3.58	0.400	"	3.67		2.47	20
Lead	4.98	0.200	"	5.16		3.62	20
Nickel	4.79	0.400	"	4.76		0.607	20
Silver	0.0308	0.0200	"	0.0334		8.11	20
Zinc	16.1	0.400	"	15.7		2.79	20
Selenium	ND	0.260	"	ND			20

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/06/24 15:42

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHB0038 - EPA 3050B

Matrix Spike (BHB0038-MS1)

Source: 2401492-01

Prepared: 02/01/24 Analyzed: 02/03/24

Arsenic	31.3	0.200	mg/kg dry	43.3	2.28	67.0	75-125				QM-07
Barium	85.9	0.400	"	43.3	58.0	64.3	75-125				QM-07
Cadmium	1.87	0.200	"	2.17	0.124	80.7	75-125				
Copper	29.7	0.400	"	43.3	3.67	60.2	75-125				QM-07
Lead	21.5	0.200	"	21.7	5.16	75.3	75-125				
Nickel	30.6	0.400	"	43.3	4.76	59.6	75-125				QM-07
Silver	1.73	0.0200	"	2.17	0.0334	78.4	75-125				
Zinc	42.6	0.400	"	43.3	15.7	62.2	75-125				QM-07
Selenium	2.48	0.260	"	4.33	ND	57.3	75-125				QM-07

Matrix Spike Dup (BHB0038-MSD1)

Source: 2401492-01

Prepared: 02/01/24 Analyzed: 02/03/24

Arsenic	32.7	0.200	mg/kg dry	43.3	2.28	70.2	75-125	4.31	25		QM-07
Barium	88.0	0.400	"	43.3	58.0	69.1	75-125	2.38	25		QM-07
Cadmium	1.95	0.200	"	2.17	0.124	84.4	75-125	4.26	25		
Copper	32.1	0.400	"	43.3	3.67	65.5	75-125	7.52	25		QM-07
Lead	22.3	0.200	"	21.7	5.16	79.2	75-125	3.86	25		
Nickel	33.0	0.400	"	43.3	4.76	65.3	75-125	7.71	25		QM-07
Silver	1.79	0.0200	"	2.17	0.0334	80.9	75-125	3.13	25		
Zinc	46.3	0.400	"	43.3	15.7	70.6	75-125	8.21	25		QM-07
Selenium	2.56	0.260	"	4.33	ND	59.2	75-125	3.19	25		QM-07

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/06/24 15:42

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHB0028 - 3060A Mod

Blank (BHB0028-BLK1)

Prepared & Analyzed: 02/01/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHB0028-BS1)

Prepared & Analyzed: 02/01/24

Chromium, Hexavalent 23.1 0.30 mg/kg wet 25.0 92.4 80-120

Duplicate (BHB0028-DUP1)

Source: 2401523-01

Prepared & Analyzed: 02/01/24

Chromium, Hexavalent ND 0.30 mg/kg wet ND 20

Matrix Spike (BHB0028-MS1)

Source: 2401523-01

Prepared & Analyzed: 02/01/24

Chromium, Hexavalent 22.0 0.30 mg/kg wet 25.0 ND 87.8 75-125

Matrix Spike Dup (BHB0028-MSD1)

Source: 2401523-01

Prepared & Analyzed: 02/01/24

Chromium, Hexavalent 22.0 0.30 mg/kg wet 25.0 ND 88.0 75-125 0.228 20

Summit Scientific

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Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/06/24 15:42

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

Summit Scientific

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

Batch BHA1133 - General Preparation

Blank (BHA1133-BLK1)

Prepared: 01/31/24 Analyzed: 02/01/24

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

LCS (BHA1133-BS1)

Prepared: 01/31/24 Analyzed: 02/01/24

Calcium	5.05	0.0500	mg/L wet	5.00		101	70-130			
Magnesium	5.10	0.0500	"	5.00		102	70-130			
Sodium	5.16	0.0500	"	5.00		103	70-130			

Summit Scientific

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Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/06/24 15:42

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

Summit Scientific

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

Batch BHB0066 - General Preparation

Duplicate (BHB0066-DUP1)	Source: 2401564-01	Prepared: 02/02/24	Analyzed: 02/05/24		
% Solids	79.7	%	80.2	0.598	20

Summit Scientific

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Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/06/24 15:42

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

Summit Scientific

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

Batch BHB0004 - General Preparation

Blank (BHB0004-BLK1)

Prepared & Analyzed: 02/01/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHB0004-BS1)

Prepared & Analyzed: 02/01/24

Specific Conductance (EC) 0.144 0.0100 mmhos/cm 0.150 96.0 95-105

Duplicate (BHB0004-DUP1)

Source: 2401560-01

Prepared & Analyzed: 02/01/24

Specific Conductance (EC) 0.378 0.0100 mmhos/cm 0.378 0.0529 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 02/06/24 15:42

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

Summit Scientific

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

Batch BHB0003 - General Preparation

LCS (BHB0003-BS1)

Prepared & Analyzed: 02/01/24

pH	9.26	pH Units	9.18	101	95-105
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Duplicate (BHB0003-DUP1)

Source: 2401562-01

Prepared & Analyzed: 02/01/24

pH	9.07	pH Units	9.06	0.110	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN

Project Number: [none]
Project Manager: Paul Henchan

Reported:
02/06/24 15:42

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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