

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 08, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Grigsby AC 19-62HN TB

Work Order #2402041

Enclosed are the results of analyses for samples received by Summit Scientific on 02/02/24 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 flourish at the end of the word "Wood".

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN TB

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/08/24 13:57

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-19 4FT	2402041-01	Soil	02/02/24 00:00	02/02/24 16:30
SS-22 4FT	2402041-02	Soil	02/02/24 00:00	02/02/24 16:30

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

# SUMMIT SCIENTIFIC

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

Lab ID 2402041 Page 1 of 1

<b>Client:</b> Fremont Environmental, Inc.		<b>Send Data To:</b>		<b>Send Invoice To:</b>	
<b>Address:</b> 8305 6th St.,		<b>Project Manager:</b> Henahan		<b>Company:</b> Chevron	
<b>City/State/Zip:</b> Wellington, CO, 80549		<b>E-Mail:</b> (Chevron Dist. List) POC Dist. List, Civitas Dist. List		<b>Project Name/Location:</b>	
<b>Phone:</b> 603-477-6907		Fremont Dist. List (@fremontenv.com) paulh@ethanb.com		<b>AFE#:</b>	
<b>Sampler Name:</b> Ethan Black		<b>Project Name:</b> Noble - Grigsby AC19-62HN DB		<b>PO/Billing Codes:</b>	
		<b>Project Number:</b>		<b>Contact:</b> Dean P.	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, Alkylhalogens, TMBs	TPH (C8-C36)	PAH	SAR, EC, pH, Boron		Metals (Table 915-1)
1	SS-19 4FT	2/2/24		X			X						X	X	X	X		
2	SS-22 4FT	2/2/24		X			X						X	X	X	X		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		

<b>Relinquished by:</b> <i>Ethan Black</i>	<b>Date/Time:</b> 2/2/24 1401	<b>Received by:</b> S2 - North Office	<b>Date/Time:</b> 2/2/24 1401	<b>TAT Business Days</b>	<b>Field DO</b>	<b>Notes:</b> Send data Monday AM please
<b>Relinquished by:</b> S2	<b>Date/Time:</b> 2/2/24 1630	<b>Received by:</b> <i>[Signature]</i>	<b>Date/Time:</b> 2/2/24 1620	Same Day <input checked="" type="checkbox"/>	Field EC	
				1 Day <input type="checkbox"/>	Field ORP	
				2 Days <input type="checkbox"/>	Field pH	
				3 Days <input type="checkbox"/>	Field Temp.	
<b>Temperature Upon Receipt:</b> 9.2	<b>Corrected Temperature:</b> 9	<b>IR gun #:</b>	<b>HNO3 lot #:</b>			

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# \_\_\_\_\_

Client: Fremont Client Project ID: Noble-Grigsby Ael9-62 HNTB

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

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

Temp (°C) 9.2 Thermometer # 1

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

Additional Comments (if any):

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

AS 2/2/24  
Custodian Printed Name Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN TB

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/08/24 13:57

**SS-19 4FT**  
**2402041-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHB0090	02/02/24	02/02/24	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		"	"	"	"	"	"	
<b>Gasoline Range Hydrocarbons</b>	<b>0.89</b>	<b>0.50</b>		"	"	"	"	"	"	

Date Sampled: **02/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0470	118 %		50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0380	95.0 %		50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0381	95.3 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHB0092	02/02/24	02/03/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **02/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: o-Terphenyl</i>	7.68	61.4 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project Number: [none]  
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**SS-19 4FT**  
**2402041-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0109	02/05/24	02/05/24	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: **02/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0156	46.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0135	40.4 %	40-150		"	"	"	"	

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

Date Sampled: **02/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0172	02/06/24	02/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/02/24 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 TB

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/08/24 13:57

**SS-19 4FT**  
**2402041-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Arsenic	2.02	0.200	mg/kg dry	1	BHB0096	02/05/24	02/06/24	EPA 6020B
Barium	13.6	0.400	"	"	"	"	"	"
Cadmium	0.205	0.200	"	"	"	"	"	"
Copper	8.89	0.400	"	"	"	"	"	"
Lead	14.0	0.200	"	"	"	"	"	"
Nickel	4.17	0.400	"	"	"	"	"	"
Silver	0.0603	0.0200	"	"	"	"	"	"
Zinc	24.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHB0116	02/05/24	02/05/24	EPA 7196A	

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

Date Sampled: **02/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	20.9	0.0500	mg/L dry	1	BHB0093	02/02/24	02/06/24	EPA 6020B	
Magnesium	14.7	0.0500	"	"	"	"	"	"	
Sodium	144	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.90	0.00100	units	1	BHB0227	02/07/24	02/07/24	Calculation	

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

Date Sampled: **02/02/24 00:00**

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

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 Project Manager: Paul Henchan

**Reported:**  
 02/08/24 13:57

**SS-19 4FT**  
**2402041-01 (Soil)**

**Summit Scientific**

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

% Solids	80.9	%	1	BHB0095	02/05/24	02/06/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/02/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.938	0.0100	mmhos/cm	1	BHB0105	02/05/24	02/05/24	EPA 120.1	

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

Date Sampled: **02/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.23		pH Units	1	BHB0104	02/05/24	02/05/24	EPA 9045D	

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Project: Noble - Grigsby AC 19-62HN TB

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/08/24 13:57

**SS-22 4FT**  
**2402041-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **02/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHB0090	02/02/24	02/02/24	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: **02/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0472	118 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0377	94.2 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	103 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **02/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BHB0092	02/02/24	02/03/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **02/02/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	6.89	55.1 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Grigsby AC 19-62HN TB

Project Number: [none]  
Project Manager: Paul Henchan

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02/08/24 13:57

**SS-22 4FT**  
**2402041-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **02/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHB0109	02/05/24	02/05/24	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: **02/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0164	49.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0167	50.2 %	40-150		"	"	"	"	

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

Date Sampled: **02/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHB0172	02/06/24	02/07/24	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **02/02/24 00:00**

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

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/08/24 13:57

**SS-22 4FT**  
**2402041-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.50	0.200	mg/kg dry	1	BHB0096	02/05/24	02/06/24	EPA 6020B	
Barium	33.7	0.400	"	"	"	"	"	"	
Cadmium	0.298	0.200	"	"	"	"	"	"	
Copper	8.59	0.400	"	"	"	"	"	"	
Lead	14.5	0.200	"	"	"	"	"	"	
Nickel	5.26	0.400	"	"	"	"	"	"	
Silver	0.0502	0.0200	"	"	"	"	"	"	
Zinc	28.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **02/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHB0116	02/05/24	02/05/24	EPA 7196A	

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

Date Sampled: **02/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	10.7	0.0500	mg/L dry	1	BHB0093	02/02/24	02/06/24	EPA 6020B	
Magnesium	4.28	0.0500	"	"	"	"	"	"	
Sodium	206	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **02/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	13.5	0.00100	units	1	BHB0227	02/07/24	02/07/24	Calculation	

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

Date Sampled: **02/02/24 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 TB

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/08/24 13:57

**SS-22 4FT**  
**2402041-02 (Soil)**

**Summit Scientific**

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

<b>% Solids</b>	<b>80.5</b>	%	1	BHB0095	02/05/24	02/06/24	Calculation
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**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **02/02/24 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Specific Conductance (EC)</b>	<b>1.09</b>	0.0100	mmhos/cm	1	BHB0105	02/05/24	02/05/24	EPA 120.1	

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

Date Sampled: **02/02/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>9.14</b>		pH Units	1	BHB0104	02/05/24	02/05/24	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN TB

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/08/24 13:57

### 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 BHB0090 - EPA 5030 Soil MS

##### Blank (BHB0090-BLK1)

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

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>	0.0425		"	0.0400		106	50-150			
<i>Surrogate: Toluene-d8</i>	0.0375		"	0.0400		93.8	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0388		"	0.0400		97.0	50-150			

##### LCS (BHB0090-BS1)

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

Benzene	0.0796	0.0020	mg/kg	0.100		79.6	70-130			
Toluene	0.0916	0.0050	"	0.100		91.6	70-130			
Ethylbenzene	0.0953	0.0050	"	0.100		95.3	70-130			
m,p-Xylene	0.197	0.010	"	0.200		98.5	70-130			
o-Xylene	0.0984	0.0050	"	0.100		98.4	70-130			
1,2,4-Trimethylbenzene	0.0940	0.0050	"	0.100		94.0	70-130			
1,3,5-Trimethylbenzene	0.0941	0.0050	"	0.100		94.1	70-130			
Naphthalene	0.0889	0.0038	"	0.100		88.9	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0402		"	0.0400		100	50-150			
<i>Surrogate: Toluene-d8</i>	0.0372		"	0.0400		92.9	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0377		"	0.0400		94.2	50-150			

##### Matrix Spike (BHB0090-MS1)

Source: 2402040-01

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

Benzene	0.0799	0.0020	mg/kg	0.100	ND	79.9	70-130			
Toluene	0.0935	0.0050	"	0.100	ND	93.5	70-130			
Ethylbenzene	0.0974	0.0050	"	0.100	ND	97.4	70-130			
m,p-Xylene	0.196	0.010	"	0.200	ND	98.2	70-130			
o-Xylene	0.0951	0.0050	"	0.100	ND	95.1	70-130			
1,2,4-Trimethylbenzene	0.0894	0.0050	"	0.100	ND	89.4	70-130			
1,3,5-Trimethylbenzene	0.0930	0.0050	"	0.100	ND	93.0	70-130			
Naphthalene	0.0833	0.0038	"	0.100	ND	83.3	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0384		"	0.0400		96.1	50-150			
<i>Surrogate: Toluene-d8</i>	0.0378		"	0.0400		94.6	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0380		"	0.0400		94.9	50-150			

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN TB

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/08/24 13:57

**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 BHB0090 - EPA 5030 Soil MS**

Matrix Spike Dup (BHB0090-MSD1)	Source: 2402040-01			Prepared: 02/02/24 Analyzed: 02/03/24						
Benzene	0.0804	0.0020	mg/kg	0.100	ND	80.4	70-130	0.636	30	
Toluene	0.0939	0.0050	"	0.100	ND	93.9	70-130	0.416	30	
Ethylbenzene	0.0923	0.0050	"	0.100	ND	92.3	70-130	5.31	30	
m,p-Xylene	0.186	0.010	"	0.200	ND	93.1	70-130	5.36	30	
o-Xylene	0.0903	0.0050	"	0.100	ND	90.3	70-130	5.18	30	
1,2,4-Trimethylbenzene	0.0843	0.0050	"	0.100	ND	84.3	70-130	5.91	30	
1,3,5-Trimethylbenzene	0.0869	0.0050	"	0.100	ND	86.9	70-130	6.77	30	
Naphthalene	0.0804	0.0038	"	0.100	ND	80.4	70-130	3.48	30	
Surrogate: 1,2-Dichloroethane-d4	0.0435		"	0.0400		109	50-150			
Surrogate: Toluene-d8	0.0381		"	0.0400		95.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0375		"	0.0400		93.8	50-150			

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN TB

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/08/24 13:57

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch BHB0092 - EPA 3550A**

**Blank (BHB0092-BLK1)**

Prepared & Analyzed: 02/02/24

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	16.3		"	12.5		131		30-150			

**LCS (BHB0092-BS1)**

Prepared & Analyzed: 02/02/24

C10-C28 (DRO)	470	50	mg/kg	500		94.0		70-130			
Surrogate: <i>o</i> -Terphenyl	14.4		"	12.5		115		30-150			

**Matrix Spike (BHB0092-MS1)**

Source: 2402040-01

Prepared & Analyzed: 02/02/24

C10-C28 (DRO)	460	50	mg/kg	500	17.4	88.5		70-130			
Surrogate: <i>o</i> -Terphenyl	10.9		"	12.5		86.9		30-150			

**Matrix Spike Dup (BHB0092-MSD1)**

Source: 2402040-01

Prepared & Analyzed: 02/02/24

C10-C28 (DRO)	445	50	mg/kg	500	17.4	85.4		70-130	3.40	20	
Surrogate: <i>o</i> -Terphenyl	11.0		"	12.5		87.6		30-150			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN TB

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/08/24 13:57

**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 BHB0109 - EPA 5030 Soil MS**

**Blank (BHB0109-BLK1)**

Prepared & Analyzed: 02/05/24

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>0.0250</i>		"	<i>0.0333</i>		<i>74.9</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0272</i>		"	<i>0.0333</i>		<i>81.5</i>	<i>40-150</i>			

**LCS (BHB0109-BS1)**

Prepared & Analyzed: 02/05/24

Acenaphthene	0.0257	0.00500	mg/kg	0.0333		77.1	31-137			
Anthracene	0.0260	0.00500	"	0.0333		78.0	30-120			
Benzo (a) anthracene	0.0141	0.00500	"	0.0333		42.3	30-120			
Benzo (a) pyrene	0.0213	0.00500	"	0.0333		63.8	30-120			
Benzo (b) fluoranthene	0.0189	0.00500	"	0.0333		56.6	30-120			
Benzo (k) fluoranthene	0.0243	0.00500	"	0.0333		73.0	30-120			
Chrysene	0.0267	0.00500	"	0.0333		80.0	30-120			
Dibenz (a,h) anthracene	0.0190	0.00500	"	0.0333		57.1	30-120			
Fluoranthene	0.0256	0.00500	"	0.0333		76.7	30-120			
Fluorene	0.0254	0.00500	"	0.0333		76.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0217	0.00500	"	0.0333		65.1	30-120			
Pyrene	0.0275	0.00500	"	0.0333		82.5	35-142			
1-Methylnaphthalene	0.0316	0.00500	"	0.0333		94.8	35-142			
2-Methylnaphthalene	0.0228	0.00500	"	0.0333		68.5	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0319</i>		"	<i>0.0333</i>		<i>95.6</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0260</i>		"	<i>0.0333</i>		<i>78.1</i>	<i>40-150</i>			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN TB

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/08/24 13:57

**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 BHB0109 - EPA 5030 Soil MS**

<b>Matrix Spike (BHB0109-MS1)</b>	<b>Source: 2401589-01</b>			<b>Prepared &amp; Analyzed: 02/05/24</b>						
Acenaphthene	0.0190	0.00500	mg/kg	0.0333	ND	57.0	31-137			
Anthracene	0.0192	0.00500	"	0.0333	ND	57.7	30-120			
Benzo (a) anthracene	0.0129	0.00500	"	0.0333	ND	38.7	30-120			
Benzo (a) pyrene	0.0178	0.00500	"	0.0333	ND	53.3	30-120			
Benzo (b) fluoranthene	0.0144	0.00500	"	0.0333	ND	43.1	30-120			
Benzo (k) fluoranthene	0.0186	0.00500	"	0.0333	ND	55.8	30-120			
Chrysene	0.0197	0.00500	"	0.0333	ND	59.2	30-120			
Dibenz (a,h) anthracene	0.0162	0.00500	"	0.0333	ND	48.7	30-120			
Fluoranthene	0.0205	0.00500	"	0.0333	ND	61.6	30-120			
Fluorene	0.0196	0.00500	"	0.0333	ND	58.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0166	0.00500	"	0.0333	ND	49.7	30-120			
Pyrene	0.0214	0.00500	"	0.0333	ND	64.1	35-142			
1-Methylnaphthalene	0.0212	0.00500	"	0.0333	ND	63.7	15-130			
2-Methylnaphthalene	0.0157	0.00500	"	0.0333	ND	47.0	15-130			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0243</i>		<i>"</i>	<i>0.0333</i>		<i>73.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0217</i>		<i>"</i>	<i>0.0333</i>		<i>65.2</i>	<i>40-150</i>			

<b>Matrix Spike Dup (BHB0109-MSD1)</b>	<b>Source: 2401589-01</b>			<b>Prepared &amp; Analyzed: 02/05/24</b>						
Acenaphthene	0.0178	0.00500	mg/kg	0.0333	ND	53.5	31-137	6.25	30	
Anthracene	0.0186	0.00500	"	0.0333	ND	55.9	30-120	3.12	30	
Benzo (a) anthracene	0.0133	0.00500	"	0.0333	ND	39.9	30-120	2.98	30	
Benzo (a) pyrene	0.0179	0.00500	"	0.0333	ND	53.6	30-120	0.496	30	
Benzo (b) fluoranthene	0.0145	0.00500	"	0.0333	ND	43.5	30-120	0.959	30	
Benzo (k) fluoranthene	0.0180	0.00500	"	0.0333	ND	54.1	30-120	3.14	30	
Chrysene	0.0186	0.00500	"	0.0333	ND	55.8	30-120	5.96	30	
Dibenz (a,h) anthracene	0.0162	0.00500	"	0.0333	ND	48.5	30-120	0.572	30	
Fluoranthene	0.0197	0.00500	"	0.0333	ND	59.0	30-120	4.23	30	
Fluorene	0.0187	0.00500	"	0.0333	ND	56.1	30-120	4.43	30	
Indeno (1,2,3-cd) pyrene	0.0164	0.00500	"	0.0333	ND	49.3	30-120	0.818	30	
Pyrene	0.0195	0.00500	"	0.0333	ND	58.6	35-142	9.00	30	
1-Methylnaphthalene	0.0174	0.00500	"	0.0333	ND	52.2	15-130	19.8	50	
2-Methylnaphthalene	0.0139	0.00500	"	0.0333	ND	41.6	15-130	12.2	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0186</i>		<i>"</i>	<i>0.0333</i>		<i>55.8</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0207</i>		<i>"</i>	<i>0.0333</i>		<i>62.0</i>	<i>40-150</i>			

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN TB

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/08/24 13:57

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

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

**Batch BHB0172 - EPA 3050B**

**Blank (BHB0172-BLK1)**

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

Boron ND 2.00 mg/L

**LCS (BHB0172-BS1)**

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

Boron 4.81 2.00 mg/L 5.00 96.1 80-120

**Duplicate (BHB0172-DUP1)**

**Source: 2401246-03**

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

Boron 0.128 2.00 mg/L 0.274 72.5 20 QR-01

**Matrix Spike (BHB0172-MS1)**

**Source: 2401246-03**

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

Boron 5.03 2.00 mg/L 5.00 0.274 95.0 75-125

**Matrix Spike Dup (BHB0172-MSD1)**

**Source: 2401246-03**

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

Boron 4.93 2.00 mg/L 5.00 0.274 93.0 75-125 2.01 25

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN TB

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/08/24 13:57

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BHB0096 - EPA 3050B**

**Blank (BHB0096-BLK1)**

Prepared: 02/05/24 Analyzed: 02/06/24

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 (BHB0096-BS1)**

Prepared: 02/05/24 Analyzed: 02/06/24

Arsenic	33.6	0.200	mg/kg wet	40.0	83.9	80-120
Barium	33.8	0.400	"	40.0	84.6	80-120
Cadmium	2.40	0.200	"	2.00	120	80-120
Copper	32.7	0.400	"	40.0	81.8	80-120
Lead	16.0	0.200	"	20.0	80.2	80-120
Nickel	35.8	0.400	"	40.0	89.5	80-120
Silver	2.38	0.0200	"	2.00	119	80-120
Zinc	35.9	0.400	"	40.0	89.8	80-120
Selenium	3.26	0.260	"	4.00	81.6	80-120

**Duplicate (BHB0096-DUP1)**

Source: 2401134-01RE1

Prepared: 02/05/24 Analyzed: 02/06/24

Arsenic	2.94	0.200	mg/kg wet	3.26	10.5	20	
Barium	62.0	0.400	"	57.3	7.93	20	
Cadmium	0.235	0.200	"	0.295	22.7	20	QR-01
Copper	6.61	0.400	"	7.73	15.6	20	
Lead	7.37	0.200	"	8.49	14.1	20	
Nickel	4.28	0.400	"	4.13	3.63	20	
Silver	0.0284	0.0200	"	0.0312	9.40	20	
Zinc	15.3	0.400	"	14.1	8.38	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 TB

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/08/24 13:57

**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 BHB0096 - EPA 3050B**

**Matrix Spike (BHB0096-MS1)**

Source: 2401134-01RE1 Prepared: 02/05/24 Analyzed: 02/06/24

Arsenic	36.3	0.200	mg/kg wet	40.0	3.26	82.6	75-125			
Barium	71.9	0.400	"	40.0	57.3	36.5	75-125			QM-07
Cadmium	2.07	0.200	"	2.00	0.295	88.6	75-125			
Copper	21.3	0.400	"	40.0	7.73	34.0	75-125			QM-07
Lead	23.4	0.200	"	20.0	8.49	74.4	75-125			QM-07
Nickel	18.9	0.400	"	40.0	4.13	37.0	75-125			QM-07
Silver	1.67	0.0200	"	2.00	0.0312	81.8	75-125			
Zinc	27.1	0.400	"	40.0	14.1	32.6	75-125			QM-07
Selenium	2.67	0.260	"	4.00	ND	66.8	75-125			QM-07

**Matrix Spike Dup (BHB0096-MSD1)**

Source: 2401134-01RE1 Prepared: 02/05/24 Analyzed: 02/06/24

Arsenic	35.9	0.200	mg/kg wet	40.0	3.26	81.6	75-125	1.07	25	
Barium	70.7	0.400	"	40.0	57.3	33.5	75-125	1.72	25	QM-07
Cadmium	2.06	0.200	"	2.00	0.295	88.2	75-125	0.368	25	
Copper	21.2	0.400	"	40.0	7.73	33.6	75-125	0.911	25	QM-07
Lead	23.1	0.200	"	20.0	8.49	73.3	75-125	0.953	25	QM-07
Nickel	18.7	0.400	"	40.0	4.13	36.4	75-125	1.34	25	QM-07
Silver	1.66	0.0200	"	2.00	0.0312	81.3	75-125	0.698	25	
Zinc	26.7	0.400	"	40.0	14.1	31.6	75-125	1.47	25	QM-07
Selenium	2.63	0.260	"	4.00	ND	65.8	75-125	1.49	25	QM-07

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN TB

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/08/24 13:57

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BHB0116 - 3060A Mod**

**Blank (BHB0116-BLK1)**

Prepared & Analyzed: 02/05/24

Chromium, Hexavalent      ND      0.30    mg/kg wet

**LCS (BHB0116-BS1)**

Prepared & Analyzed: 02/05/24

Chromium, Hexavalent      23.7      0.30    mg/kg wet      25.0      94.8      80-120

**Duplicate (BHB0116-DUP1)**

**Source: 2401552-01**

Prepared & Analyzed: 02/05/24

Chromium, Hexavalent      ND      0.30    mg/kg dry      ND      20

**Matrix Spike (BHB0116-MS1)**

**Source: 2401552-01**

Prepared & Analyzed: 02/05/24

Chromium, Hexavalent      25.4      0.30    mg/kg dry      26.6      ND      95.6      75-125

**Matrix Spike Dup (BHB0116-MSD1)**

**Source: 2401552-01**

Prepared & Analyzed: 02/05/24

Chromium, Hexavalent      25.4      0.30    mg/kg dry      26.6      ND      95.4      75-125      0.209      20

Summit Scientific

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Project: Noble - Grigsby AC 19-62HN TB

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/08/24 13:57

**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 BHB0093 - General Preparation**

**Blank (BHB0093-BLK1)**

Prepared: 02/02/24 Analyzed: 02/06/24

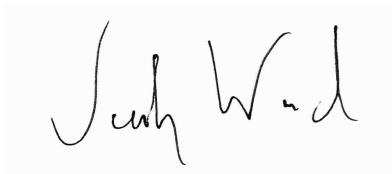
Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

**LCS (BHB0093-BS1)**

Prepared: 02/02/24 Analyzed: 02/06/24

Calcium	4.35	0.0500	mg/L wet	5.00	87.1	70-130				
Magnesium	4.83	0.0500	"	5.00	96.5	70-130				
Sodium	4.98	0.0500	"	5.00	99.6	70-130				

Summit Scientific



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Project: Noble - Grigsby AC 19-62HN TB

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/08/24 13:57

**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 BHB0095 - General Preparation**

Duplicate (BHB0095-DUP1)	Source: 2401333-04		Prepared: 02/05/24 Analyzed: 02/06/24	
% Solids	94.8	%	94.9	0.152 20

Summit Scientific

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 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN TB

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/08/24 13:57

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

**Summit Scientific**

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

**Batch BHB0105 - General Preparation**

**Blank (BHB0105-BLK1)**

Prepared & Analyzed: 02/05/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHB0105-BS1)**

Prepared & Analyzed: 02/05/24

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

**Duplicate (BHB0105-DUP1)**

Source: 2402041-01

Prepared & Analyzed: 02/05/24

Specific Conductance (EC) 0.933 0.0100 mmhos/cm 0.938 0.567 20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Grigsby AC 19-62HN TB

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 02/08/24 13:57

**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 BHB0104 - General Preparation**

**LCS (BHB0104-BS1)**

Prepared & Analyzed: 02/05/24

pH	9.28	pH Units	9.18	101	95-105
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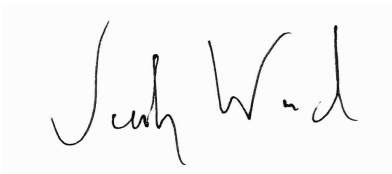
**Duplicate (BHB0104-DUP1)**

Source: 2402041-01

Prepared & Analyzed: 02/05/24

pH	8.10	pH Units	8.23	1.59	20
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Summit Scientific



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

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
02/08/24 13:57

### Notes and Definitions

- QR-01      Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
- QM-07      The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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