

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 30, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - Sauer (BKG)  
Work Order #2404278

Enclosed are the results of analyses for samples received by Summit Scientific on 04/16/24 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 large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Sauer (BKG)  
Project Number: UWRWE-A2583-ABN  
Project Manager: Paul Henchan

**Reported:**  
05/30/24 15:59

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG 1 3FT	2404278-01	Soil	04/15/24 00:00	04/16/24 16:30
BKG 2 3FT	2404278-02	Soil	04/15/24 00:00	04/16/24 16:30
BKG 3 3FT	2404278-03	Soil	04/15/24 00:00	04/16/24 16:30
BKG 4 3FT	2404278-04	Soil	04/15/24 00:00	04/16/24 16:30
BKG 5 3FT	2404278-05	Soil	04/15/24 00:00	04/16/24 16:30
BKG 6 3FT	2404278-06	Soil	04/15/24 00:00	04/16/24 16:30

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# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2404278	

Send Data To:		Send Invoice To:	
Client: Fremont Environmental, Inc.	Project Manager: Henshan	Company: Chevron	
Address: 8305 6th St.	E-Mail: (Chevron Dist. List) PBO-Dist. List, Civitas-Dist. List	Project Name/Location:	
City/State/Zip: Wellington, CO, 80549	Fremont-Dist. List (paulH, ethanB) nickt, mikeC, jeffG, chadL, stanG, aaronG (lammyA)	AFE#:	
Phone: 603-477-6907	Project Name: Noble-Sawyer (RRG)	PO/Billing Codes: (U)WRWE-A2583-ARV	
Sampler Name: Ethan Black	Project Number:	Contact:	

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

Relinquished by: <i>Ethan Black</i>	Date/Time: 4/16/24 1530	Received by: S2 - North Office	Date/Time: 4/16/24 1530	TAT Business Days	Field DO	Notes:
Relinquished by: <i>S2</i>	Date/Time: 4/16/24 1030	Received by: <i>[Signature]</i>	Date/Time: 4/16/24 1030	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 11.9	Corrected Temperature: 8	IR gun #:	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2404278

Client: Fremont Client Project ID: Noble Sauer (BKG)

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

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

Temp (°C)  Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> 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"/>	
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>None</u>
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>No sample times</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):  <p style="text-align: center;"><u>All bags</u></p>				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

AS  
Custodian Printed Name

4/18/24  
Date/Time

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Sauer (BKG)  
Project Number: UWRWE-A2583-ABN  
Project Manager: Paul Henchan

**Reported:**  
05/30/24 15:59

**BKG 1 3FT**  
**2404278-01 (Soil)**

Summit Scientific

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0744	04/22/24	05/30/24	EPA 6020B	

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	66.4	0.0500	mg/L dry	1	BHE0033	05/01/24	05/06/24	EPA 6020B	
Magnesium	6.15	0.0500	"	"	"	"	"	"	
Sodium	6.40	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.201	0.00100	units	1	BHE0218	05/07/24	05/07/24	Calculation	

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.9		%	1	BHD0765	04/22/24	04/23/24	Calculation	

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.171	0.0100	mmhos/cm	1	BHE0034	05/01/24	05/03/24	EPA 120.1	

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

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 Wellington CO, 80549

Project: Noble - Sauer (BKG)  
 Project Number: UWRWE-A2583-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 05/30/24 15:59

**BKG 1 3FT**  
**2404278-01 (Soil)**


**Summit Scientific**

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.82</b>		pH Units	1	BHE0035	05/01/24	05/03/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Sauer (BKG)  
Project Number: UWRWE-A2583-ABN  
Project Manager: Paul Henchan

**Reported:**  
05/30/24 15:59

**BKG 2 3FT**  
**2404278-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0744	04/22/24	05/30/24	EPA 6020B	

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	213	0.0500	mg/L dry	1	BHE0033	05/01/24	05/06/24	EPA 6020B	
Magnesium	11.8	0.0500	"	"	"	"	"	"	
Sodium	6.42	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.116	0.00100	units	1	BHE0218	05/07/24	05/07/24	Calculation	

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.2		%	1	BHD0765	04/22/24	04/23/24	Calculation	

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.139	0.0100	mmhos/cm	1	BHE0034	05/01/24	05/03/24	EPA 120.1	

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

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 Wellington CO, 80549

Project: Noble - Sauer (BKG)  
 Project Number: UWRWE-A2583-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 05/30/24 15:59

**BKG 2 3FT**  
**2404278-02 (Soil)**

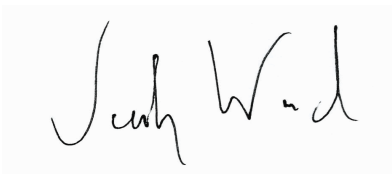
**Summit Scientific**

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>8.97</b>			pH Units	1	BHE0035	05/01/24	05/03/24	EPA 9045D	

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Fremont Environmental  
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Project: Noble - Sauer (BKG)  
Project Number: UWRWE-A2583-ABN  
Project Manager: Paul Henchan

**Reported:**  
05/30/24 15:59

**BKG 3 3FT**  
**2404278-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0744	04/22/24	05/30/24	EPA 6020B	

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	<b>148</b>	0.0500	mg/L dry	1	BHE0033	05/01/24	05/06/24	EPA 6020B	
Magnesium	<b>13.1</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>9.70</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.205</b>	0.00100	units	1	BHE0218	05/07/24	05/07/24	Calculation	

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>95.4</b>		%	1	BHD0765	04/22/24	04/23/24	Calculation	

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.159</b>	0.0100	mmhos/cm	1	BHE0034	05/01/24	05/03/24	EPA 120.1	

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

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Sauer (BKG)

Project Number: UWRWE-A2583-ABN

Project Manager: Paul Henchan

**Reported:**  
 05/30/24 15:59

**BKG 3 3FT**  
**2404278-03 (Soil)**


**Summit Scientific**

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>9.07</b>		pH Units	1	BHE0035	05/01/24	05/03/24	EPA 9045D	

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Fremont Environmental  
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Wellington CO, 80549

Project: Noble - Sauer (BKG)  
Project Number: UWRWE-A2583-ABN  
Project Manager: Paul Henchan

**Reported:**  
05/30/24 15:59

**BKG 4 3FT**  
**2404278-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0744	04/22/24	05/30/24	EPA 6020B	

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	<b>72.1</b>	0.0500	mg/L dry	1	BHE0033	05/01/24	05/06/24	EPA 6020B	
Magnesium	<b>6.70</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>9.04</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.273</b>	0.00100	units	1	BHE0218	05/07/24	05/07/24	Calculation	

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>95.4</b>		%	1	BHD0765	04/22/24	04/23/24	Calculation	

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.201</b>	0.0100	mmhos/cm	1	BHE0034	05/01/24	05/03/24	EPA 120.1	

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

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Project: Noble - Sauer (BKG)  
Project Number: UWRWE-A2583-ABN  
Project Manager: Paul Henchan

**Reported:**  
05/30/24 15:59

**BKG 4 3FT**  
**2404278-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.83</b>		pH Units	1	BHE0035	05/01/24	05/03/24	EPA 9045D	

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Project: Noble - Sauer (BKG)  
Project Number: UWRWE-A2583-ABN  
Project Manager: Paul Henchan

**Reported:**  
05/30/24 15:59

**BKG 5 3FT**  
**2404278-05 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0744	04/22/24	05/30/24	EPA 6020B	

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	<b>86.2</b>	0.0500	mg/L dry	1	BHE0033	05/01/24	05/06/24	EPA 6020B	
Magnesium	<b>8.62</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>2.75</b>	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.0756</b>	0.00100	units	1	BHE0218	05/07/24	05/07/24	Calculation	

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>89.5</b>		%	1	BHD0765	04/22/24	04/23/24	Calculation	

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.131</b>	0.0100	mmhos/cm	1	BHE0034	05/01/24	05/03/24	EPA 120.1	

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

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 Project Manager: Paul Henchan

**Reported:**  
 05/30/24 15:59

**BKG 5 3FT**  
**2404278-05 (Soil)**


**Summit Scientific**

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>8.98</b>			pH Units	1	BHE0035	05/01/24	05/03/24	EPA 9045D	

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Project: Noble - Sauer (BKG)  
Project Number: UWRWE-A2583-ABN  
Project Manager: Paul Henchan

**Reported:**  
05/30/24 15:59

**BKG 6 3FT**  
**2404278-06 (Soil)**

**Summit Scientific**

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHD0744	04/22/24	05/30/24	EPA 6020B	

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	74.5	0.0500	mg/L dry	1	BHE0033	05/01/24	05/06/24	EPA 6020B	
Magnesium	7.68	0.0500	"	"	"	"	"	"	
Sodium	3.01	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0888	0.00100	units	1	BHE0218	05/07/24	05/07/24	Calculation	

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.9		%	1	BHD0765	04/22/24	04/23/24	Calculation	

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.161	0.0100	mmhos/cm	1	BHE0034	05/01/24	05/03/24	EPA 120.1	

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

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Sauer (BKG)  
 Project Number: UWRWE-A2583-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 05/30/24 15:59

**BKG 6 3FT**  
**2404278-06 (Soil)**


**Summit Scientific**

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

Date Sampled: **04/15/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.79</b>		pH Units	1	BHE0035	05/01/24	05/03/24	EPA 9045D	

Summit Scientific



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**Reported:**  
 05/30/24 15:59

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

**Summit Scientific**

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

**Batch BHD0744 - EPA 3050B**

**Blank (BHD0744-BLK1)**

Prepared: 04/22/24 Analyzed: 05/30/24

Boron ND 2.00 mg/L

**LCS (BHD0744-BS1)**

Prepared: 04/22/24 Analyzed: 05/30/24

Boron 5.07 2.00 mg/L 5.00 101 80-120

**Duplicate (BHD0744-DUP1)**

**Source: 2404276-01**

Prepared: 04/22/24 Analyzed: 05/30/24

Boron 0.178 2.00 mg/L 0.202 12.6 20

**Matrix Spike (BHD0744-MS1)**

**Source: 2404276-01**

Prepared: 04/22/24 Analyzed: 05/30/24

Boron 4.63 2.00 mg/L 4.99 0.202 88.7 75-125


**Matrix Spike Dup (BHD0744-MSD1)**

**Source: 2404276-01**

Prepared: 04/22/24 Analyzed: 05/30/24

Boron 4.59 2.00 mg/L 4.99 0.202 87.9 75-125 0.888 25

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 05/30/24 15:59

**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 BHE0033 - General Preparation**

**Blank (BHE0033-BLK1)**

Prepared: 05/01/24 Analyzed: 05/06/24

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

**LCS (BHE0033-BS1)**

Prepared: 05/01/24 Analyzed: 05/06/24

Calcium	5.16	0.0500	mg/L wet	5.00		103	70-130			
Magnesium	4.83	0.0500	"	5.00		96.5	70-130			
Sodium	4.85	0.0500	"	5.00		97.0	70-130			

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

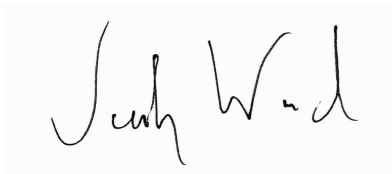
**Summit Scientific**

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

**Batch BHD0765 - General Preparation**

Duplicate (BHD0765-DUP1)	Source: 2404278-01		Prepared: 04/22/24 Analyzed: 04/23/24	
% Solids	94.9	%	94.9	0.0107 20

Summit Scientific



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 Project Manager: Paul Henchan

**Reported:**  
 05/30/24 15:59

**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 BHE0034 - General Preparation**

**Blank (BHE0034-BLK1)**

Prepared: 05/01/24 Analyzed: 05/03/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BHE0034-BS1)**

Prepared: 05/01/24 Analyzed: 05/03/24

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

**Duplicate (BHE0034-DUP1)**

Source: 2404273-01

Prepared: 05/01/24 Analyzed: 05/03/24

Specific Conductance (EC) 0.342 0.0100 mmhos/cm 0.343 0.526 20

Summit Scientific

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Project: Noble - Sauer (BKG)

Project Number: UWRWE-A2583-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 05/30/24 15:59

**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 BHE0035 - General Preparation**

**LCS (BHE0035-BS1)**

Prepared: 05/01/24 Analyzed: 05/03/24

pH	9.14		pH Units	9.18		99.6	95-105			
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**Duplicate (BHE0035-DUP1)**

Source: 2404273-01

Prepared: 05/01/24 Analyzed: 05/03/24

pH	8.49		pH Units	8.50		0.118	20			
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**Reported:**  
05/30/24 15:59

### Notes and Definitions

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