

# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 26, 2024

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - Trebor B11-15  
Work Order #2311629

Enclosed are the results of analyses for samples received by Summit Scientific on 11/30/23 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 "nd" at the end of the last name.

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Trebor B11-15  
Project Number: UWRWE-A1928-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/26/24 14:42

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01@4.0'	2311629-01	Soil	11/30/23 00:00	11/30/23 16:30
FL07@5.0'	2311629-02	Soil	11/30/23 00:00	11/30/23 16:30
BKG01@4.0'	2311629-03	Soil	11/30/23 00:00	11/30/23 16:30
BKG02@5.0'	2311629-04	Soil	11/30/23 00:00	11/30/23 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.*

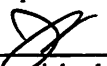




# SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2311629	

Client: <b>Fremont Env</b>		Send Data To: Project Manager: <b>Paul Henehan</b>		Send Invoice To: Company: <b>Noble</b>	
Address:		E-Mail: <b>Paulh@fremontenv.com</b>		Project Name/Location: <b>Trebor B11-15</b>	
City/State/Zip:		<b>Jeffg@fremontenv.com Ethanh@fremontenv.com</b>		AFE#:	
Phone:		Project Name: <b>Trebor B11-15</b>		PO/Billing Codes: <b>UWRUE -A1928-ABN</b>	
Sampler Name: <b>J6</b>		Project Number:		Contact:	

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+N	TMBs(915)	DRD,ORO,ORO	PAHs(915)	EC,PH,SAR, Boron		Metals(915)
1	FL01@4.0'	11/30/23		2			X			X				X	X	X	X	X	
2	FL07@5.0'	↓		2			↓			↓				X	X	X	X		
3	BK601@4.0'	↓		1			↓			↓									
4	BK602@5.0'	↓		1			↓			↓							X	X	
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: 	Date/Time: 11/30/23	Received by: 	Date/Time: 11/30/23	TAT Business Days	Field DO	Notes:  Bill to Noble
				Same Day	Field EC	
Relinquished by: 	Date/Time: 11/30/23 1630	Received by: 	Date/Time: 11/30/23 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: 8.7	Corrected Temperature: 	IR gun #:			HNO3 lot #:	

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2311629

Client: Trement

Client Project ID: Trebor B11-15

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

Airbill #: \_\_\_\_\_

Matrix (Check all that apply)

Air

Sol/Solid

Water

Other

Temp (°C) 8.7

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.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
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? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	no time stamps
Is the COC properly relinquished by the client w/ date and time recorded? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? (1)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample 1 label did not match
For volatiles in water - is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? (1) Note the type of preservative in the comments column - HCl, H <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? (1) Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

AS

Custodian Printed Name

11/20/23

Date/Time

0 25 23



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Trebor B11-15  
Project Number: UWRWE-A1928-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/26/24 14:42

**FL01@4.0'**  
**2311629-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGL0178	12/05/23	12/07/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0346	86.5 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0431	108 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0455	114 %		50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGL0180	12/05/23	12/09/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	12.8	103 %		30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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**2311629-01 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGL0252	12/07/23	12/08/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0173	51.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0182	54.7 %	40-150		"	"	"	"	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGL0351	12/10/23	12/14/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Reported:**  
01/26/24 14:42

**FL01@4.0'**  
**2311629-01 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cadmium	0.332	0.200	mg/kg dry	1	BGL0313	12/08/23	12/14/23	EPA 6020B	
Copper	7.21	0.400	"	"	"	"	"	"	
Lead	11.0	0.200	"	"	"	"	"	"	
Nickel	6.38	0.400	"	"	"	"	"	"	
Silver	0.0570	0.0200	"	"	"	"	"	"	
Zinc	30.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0268	12/07/23	12/07/23	EPA 7196A	

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

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	45.3	0.0500	mg/L dry	1	BGL0543	12/14/23	12/21/23	EPA 6020B	
Magnesium	12.3	0.0500	"	"	"	"	"	"	
Sodium	20.4	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.694	0.00100	units	1	BGL0885	12/26/23	12/26/23	Calculation	

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

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.6		%	1	BGL0369	12/11/23	12/11/23	Calculation	

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**Reported:**  
 01/26/24 14:42

**FL01@4.0'**  
**2311629-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/30/23 00:00**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	<b>0.294</b>	0.0100		mmhos/cm	1	BGL0585	12/15/23	12/15/23	EPA 120.1	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>pH</b>	<b>8.27</b>			pH Units	1	BGL0584	12/15/23	12/15/23	EPA 9045D	

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**Reported:**  
 01/26/24 14:42

**FL01@4.0'**  
**2311629-01 (Soil)**

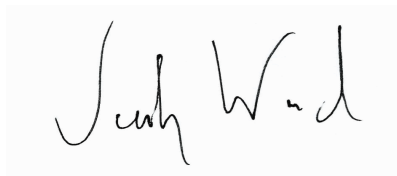
**Summit Scientific**

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>3.04</b>	0.200	mg/kg dry	1	BHA0454	12/08/23	01/17/24	EPA 6020B	
<b>Barium</b>	<b>118</b>	0.400	"	"	"	"	"	"	

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**Reported:**  
01/26/24 14:42

**FL07@5.0'**  
**2311629-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGL0178	12/05/23	12/07/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0585	146 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0437	109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0448	112 %	50-150		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGL0180	12/05/23	12/09/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	14.0	112 %	30-150		"	"	"	"	

**PAH by EPA Method 8270D SIM**

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Project: Noble - Trebor B11-15  
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**Reported:**  
01/26/24 14:42

**FL07@5.0'**  
**2311629-02 (Soil)**

**Summit Scientific**

**PAH by EPA Method 8270D SIM**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGL0252	12/07/23	12/08/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0229	68.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0184	55.2 %	40-150		"	"	"	"	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BGL0351	12/10/23	12/14/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Trebor B11-15  
Project Number: UWRWE-A1928-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/26/24 14:42

**FL07@5.0'**  
**2311629-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.98	0.200	mg/kg dry	1	BGL0313	12/08/23	12/14/23	EPA 6020B	
Barium	69.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.05	0.400	"	"	"	"	"	"	
Lead	5.61	0.200	"	"	"	"	"	"	
Nickel	3.31	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	13.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0268	12/07/23	12/07/23	EPA 7196A	

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

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	81.2	0.0500	mg/L dry	1	BGL0543	12/14/23	12/21/23	EPA 6020B	
Magnesium	8.29	0.0500	"	"	"	"	"	"	
Sodium	30.4	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

Date Sampled: 11/30/23 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.859	0.00100	units	1	BGL0885	12/26/23	12/26/23	Calculation	

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

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Trebor B11-15  
 Project Number: UWRWE-A1928-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/26/24 14:42

**FL07@5.0'**  
**2311629-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>84.8</b>		%	1	BGL0369	12/11/23	12/11/23	Calculation	

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

Date Sampled: **11/30/23 00:00**

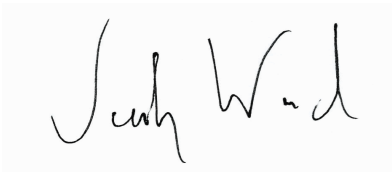
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.440</b>	0.0100	mmhos/cm	1	BGL0585	12/15/23	12/15/23	EPA 120.1	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.47</b>		pH Units	1	BGL0584	12/15/23	12/15/23	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Trebor B11-15  
Project Number: UWRWE-A1928-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/26/24 14:42

**BKG01@4.0'**  
**2311629-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGL0351	12/10/23	12/14/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.19	0.200	mg/kg dry	1	BGL0313	12/08/23	12/14/23	EPA 6020B	
Barium	126	0.400	"	"	"	"	"	"	
Cadmium	0.349	0.200	"	"	"	"	"	"	
Copper	7.10	0.400	"	"	"	"	"	"	
Lead	11.2	0.200	"	"	"	"	"	"	
Nickel	5.22	0.400	"	"	"	"	"	"	
Silver	0.0642	0.0200	"	"	"	"	"	"	
Zinc	31.4	0.400	"	"	"	"	"	"	
Selenium	0.294	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0268	12/07/23	12/07/23	EPA 7196A	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	112	0.0500	mg/L dry	1	BGL0543	12/14/23	12/21/23	EPA 6020B	
Magnesium	46.5	0.0500	"	"	"	"	"	"	
Sodium	152	0.0500	"	"	"	"	"	"	

**Calculated Analysis**

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Project: Noble - Trebor B11-15  
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Project Manager: Paul Henchan

**Reported:**  
01/26/24 14:42

**BKG01@4.0'**  
**2311629-03 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.05	0.00100	units	1	BGL0885	12/26/23	12/26/23	Calculation	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.9		%	1	BGL0369	12/11/23	12/11/23	Calculation	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.32	0.0100	mmhos/cm	1	BGL0585	12/15/23	12/15/23	EPA 120.1	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.10		pH Units	1	BGL0584	12/15/23	12/15/23	EPA 9045D	

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Project: Noble - Trebor B11-15  
Project Number: UWRWE-A1928-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/26/24 14:42

**BKG02@5.0'**  
**2311629-04 (Soil)**

**Summit Scientific**

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGL0351	12/10/23	12/14/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.79</b>	0.200	mg/kg dry	1	BGL0313	12/08/23	12/14/23	EPA 6020B	
<b>Barium</b>	<b>28.5</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>1.78</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>3.05</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>1.72</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>7.93</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGL0268	12/07/23	12/07/23	EPA 7196A	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>36.0</b>	0.0500	mg/L dry	1	BGL0543	12/14/23	12/21/23	EPA 6020B	
<b>Magnesium</b>	<b>9.71</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>63.8</b>	0.0500	"	"	"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Trebor B11-15  
 Project Number: UWRWE-A1928-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/26/24 14:42

**BKG02@5.0'**  
**2311629-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.44	0.00100	units	1	BGL0885	12/26/23	12/26/23	Calculation	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.3		%	1	BGL0369	12/11/23	12/11/23	Calculation	

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.521	0.0100	mmhos/cm	1	BGL0585	12/15/23	12/15/23	EPA 120.1	

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Project: Noble - Trebor B11-15  
 Project Number: UWRWE-A1928-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/26/24 14:42

**BKG02@5.0'**  
**2311629-04 (Soil)**


**Summit Scientific**

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

Date Sampled: **11/30/23 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.87</b>		pH Units	1	BHA0597	12/15/23	01/17/24	EPA 9045D	I-04

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Wellington CO, 80549

Project: Noble - Trebor B11-15  
Project Number: UWRWE-A1928-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/26/24 14:42

### 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 BGL0178 - EPA 5030 Soil MS

##### Blank (BGL0178-BLK1)

Prepared: 12/05/23 Analyzed: 12/06/23

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0598		"	0.0400		150	50-150			
<i>Surrogate: Toluene-d8</i>	0.0422		"	0.0400		105	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0442		"	0.0400		110	50-150			

##### LCS (BGL0178-BS1)

Prepared: 12/05/23 Analyzed: 12/06/23

Benzene	0.120	0.0020	mg/kg	0.100		120	70-130			
Toluene	0.134	0.0050	"	0.100		134	70-130			QLCS-01
Ethylbenzene	0.124	0.0050	"	0.100		124	70-130			
m,p-Xylene	0.246	0.010	"	0.200		123	70-130			
o-Xylene	0.121	0.0050	"	0.100		121	70-130			
1,2,4-Trimethylbenzene	0.123	0.0050	"	0.100		123	70-130			
1,3,5-Trimethylbenzene	0.127	0.0050	"	0.100		127	70-130			
Naphthalene	0.105	0.0038	"	0.100		105	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0578		"	0.0400		145	50-150			
<i>Surrogate: Toluene-d8</i>	0.0448		"	0.0400		112	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0422		"	0.0400		105	50-150			

##### Matrix Spike (BGL0178-MS1)

Source: 2311625-01

Prepared: 12/05/23 Analyzed: 12/06/23

Benzene	0.122	0.0020	mg/kg	0.100	ND	122	70-130			
Toluene	0.136	0.0050	"	0.100	ND	136	70-130			QM-07
Ethylbenzene	0.126	0.0050	"	0.100	ND	126	70-130			
m,p-Xylene	0.247	0.010	"	0.200	ND	124	70-130			
o-Xylene	0.124	0.0050	"	0.100	ND	124	70-130			
1,2,4-Trimethylbenzene	0.122	0.0050	"	0.100	ND	122	70-130			
1,3,5-Trimethylbenzene	0.126	0.0050	"	0.100	ND	126	70-130			
Naphthalene	0.105	0.0038	"	0.100	ND	105	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0567		"	0.0400		142	50-150			
<i>Surrogate: Toluene-d8</i>	0.0433		"	0.0400		108	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0416		"	0.0400		104	50-150			

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Project: Noble - Trebor B11-15  
 Project Number: UWRWE-A1928-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/26/24 14:42

**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 BGL0178 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (BGL0178-MSD1)</b>	<b>Source: 2311625-01</b>			Prepared: 12/05/23		Analyzed: 12/06/23				
Benzene	0.119	0.0020	mg/kg	0.100	ND	119	70-130	2.17	30	
Toluene	0.131	0.0050	"	0.100	ND	131	70-130	3.71	30	QM-07
Ethylbenzene	0.121	0.0050	"	0.100	ND	121	70-130	3.84	30	
m,p-Xylene	0.239	0.010	"	0.200	ND	120	70-130	3.26	30	
o-Xylene	0.117	0.0050	"	0.100	ND	117	70-130	5.50	30	
1,2,4-Trimethylbenzene	0.116	0.0050	"	0.100	ND	116	70-130	4.88	30	
1,3,5-Trimethylbenzene	0.120	0.0050	"	0.100	ND	120	70-130	4.79	30	
Naphthalene	0.103	0.0038	"	0.100	ND	103	70-130	1.90	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0557</i>		<i>"</i>	<i>0.0400</i>		<i>139</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0444</i>		<i>"</i>	<i>0.0400</i>		<i>111</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0426</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>			

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Project: Noble - Trebor B11-15  
 Project Number: UWRWE-A1928-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/26/24 14:42

**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 BGL0180 - EPA 3550A**

**Blank (BGL0180-BLK1)**

Prepared: 12/05/23 Analyzed: 12/09/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.1		"	12.5		97.0	30-150				

**LCS (BGL0180-BS1)**

Prepared: 12/05/23 Analyzed: 12/09/23

C10-C28 (DRO)	647	50	mg/kg	500		129	70-130				
Surrogate: <i>o</i> -Terphenyl	9.65		"	12.5		77.2	30-150				

**Matrix Spike (BGL0180-MS1)**

Source: 2311625-01

Prepared: 12/05/23 Analyzed: 12/09/23

C10-C28 (DRO)	701	50	mg/kg	500	22.2	136	70-130				QM-07
Surrogate: <i>o</i> -Terphenyl	9.17		"	12.5		73.3	30-150				

**Matrix Spike Dup (BGL0180-MSD1)**

Source: 2311625-01

Prepared: 12/05/23 Analyzed: 12/09/23

C10-C28 (DRO)	624	50	mg/kg	500	22.2	120	70-130	11.6	20		
Surrogate: <i>o</i> -Terphenyl	15.1		"	12.5		121	30-150				

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Project: Noble - Trebor B11-15  
Project Number: UWRWE-A1928-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/26/24 14:42

**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 BGL0252 - EPA 5030 Soil MS**

**Blank (BGL0252-BLK1)**

Prepared: 12/07/23 Analyzed: 12/08/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0395</i>		"	<i>0.0333</i>		<i>118</i>		<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0383</i>		"	<i>0.0333</i>		<i>115</i>		<i>40-150</i>		

**LCS (BGL0252-BS1)**

Prepared: 12/07/23 Analyzed: 12/08/23

Acenaphthene	0.0329	0.00500	mg/kg	0.0333	98.6	31-137
Anthracene	0.0259	0.00500	"	0.0333	77.6	30-120
Benzo (a) anthracene	0.0267	0.00500	"	0.0333	80.1	30-120
Benzo (a) pyrene	0.0225	0.00500	"	0.0333	67.4	30-120
Benzo (b) fluoranthene	0.0202	0.00500	"	0.0333	60.7	30-120
Benzo (k) fluoranthene	0.0245	0.00500	"	0.0333	73.4	30-120
Chrysene	0.0275	0.00500	"	0.0333	82.6	30-120
Dibenz (a,h) anthracene	0.0261	0.00500	"	0.0333	78.3	30-120
Fluoranthene	0.0248	0.00500	"	0.0333	74.4	30-120
Fluorene	0.0241	0.00500	"	0.0333	72.2	30-120
Indeno (1,2,3-cd) pyrene	0.0273	0.00500	"	0.0333	82.0	30-120
Pyrene	0.0304	0.00500	"	0.0333	91.2	35-142
1-Methylnaphthalene	0.0257	0.00500	"	0.0333	77.0	35-142
2-Methylnaphthalene	0.0299	0.00500	"	0.0333	89.8	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0335</i>		"	<i>0.0333</i>	<i>101</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0364</i>		"	<i>0.0333</i>	<i>109</i>	<i>40-150</i>

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Project: Noble - Trebor B11-15  
Project Number: UWRWE-A1928-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/26/24 14:42

**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 BGL0252 - EPA 5030 Soil MS**

<b>Matrix Spike (BGL0252-MS1)</b>	<b>Source: 2311627-01</b>			Prepared: 12/07/23 Analyzed: 12/08/23					
Acenaphthene	0.0160	0.00500	mg/kg	0.0333	ND	47.9	31-137		
Anthracene	0.0140	0.00500	"	0.0333	ND	42.1	30-120		
Benzo (a) anthracene	0.0153	0.00500	"	0.0333	ND	45.9	30-120		
Benzo (a) pyrene	0.0175	0.00500	"	0.0333	ND	52.5	30-120		
Benzo (b) fluoranthene	0.0175	0.00500	"	0.0333	ND	52.6	30-120		
Benzo (k) fluoranthene	0.0163	0.00500	"	0.0333	ND	48.8	30-120		
Chrysene	0.0141	0.00500	"	0.0333	ND	42.4	30-120		
Dibenz (a,h) anthracene	0.0235	0.00500	"	0.0333	ND	70.6	30-120		
Fluoranthene	0.0154	0.00500	"	0.0333	ND	46.1	30-120		
Fluorene	0.0155	0.00500	"	0.0333	ND	46.6	30-120		
Indeno (1,2,3-cd) pyrene	0.0186	0.00500	"	0.0333	ND	55.6	30-120		
Pyrene	0.0145	0.00500	"	0.0333	ND	43.4	35-142		
1-Methylnaphthalene	0.0156	0.00500	"	0.0333	ND	46.9	15-130		
2-Methylnaphthalene	0.0170	0.00500	"	0.0333	ND	51.1	15-130		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0206</i>		"	<i>0.0333</i>		<i>61.8</i>	<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0202</i>		"	<i>0.0333</i>		<i>60.5</i>	<i>40-150</i>		

<b>Matrix Spike Dup (BGL0252-MSD1)</b>	<b>Source: 2311627-01</b>			Prepared: 12/07/23 Analyzed: 12/08/23					
Acenaphthene	0.0178	0.00500	mg/kg	0.0333	ND	53.3	31-137	10.8	30
Anthracene	0.0156	0.00500	"	0.0333	ND	46.7	30-120	10.3	30
Benzo (a) anthracene	0.0177	0.00500	"	0.0333	ND	53.0	30-120	14.3	30
Benzo (a) pyrene	0.0183	0.00500	"	0.0333	ND	54.8	30-120	4.30	30
Benzo (b) fluoranthene	0.0140	0.00500	"	0.0333	ND	42.0	30-120	22.4	30
Benzo (k) fluoranthene	0.0141	0.00500	"	0.0333	ND	42.4	30-120	14.1	30
Chrysene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	4.90	30
Dibenz (a,h) anthracene	0.0200	0.00500	"	0.0333	ND	60.0	30-120	16.3	30
Fluoranthene	0.0154	0.00500	"	0.0333	ND	46.3	30-120	0.489	30
Fluorene	0.0144	0.00500	"	0.0333	ND	43.1	30-120	7.92	30
Indeno (1,2,3-cd) pyrene	0.0190	0.00500	"	0.0333	ND	57.1	30-120	2.66	30
Pyrene	0.0180	0.00500	"	0.0333	ND	54.1	35-142	22.1	30
1-Methylnaphthalene	0.0182	0.00500	"	0.0333	ND	54.7	15-130	15.4	50
2-Methylnaphthalene	0.0191	0.00500	"	0.0333	ND	57.3	15-130	11.4	50
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0217</i>		"	<i>0.0333</i>		<i>65.0</i>	<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0231</i>		"	<i>0.0333</i>		<i>69.3</i>	<i>40-150</i>		

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Trebor B11-15  
 Project Number: UWRWE-A1928-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/26/24 14:42

**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 BGL0351 - EPA 3050B**

**Blank (BGL0351-BLK1)**

Prepared: 12/10/23 Analyzed: 12/14/23

Boron ND 2.00 mg/L

**LCS (BGL0351-BS1)**

Prepared: 12/10/23 Analyzed: 12/14/23

Boron 5.46 2.00 mg/L 5.00 109 80-120

**Duplicate (BGL0351-DUP1)**

**Source: 2311620-01**

Prepared: 12/10/23 Analyzed: 12/14/23

Boron 0.115 2.00 mg/L 0.0996 14.4 20

**Matrix Spike (BGL0351-MS1)**

**Source: 2311620-01**

Prepared: 12/10/23 Analyzed: 12/14/23

Boron 5.48 2.00 mg/L 5.00 0.0996 108 75-125

**Matrix Spike Dup (BGL0351-MSD1)**

**Source: 2311620-01**

Prepared: 12/10/23 Analyzed: 12/14/23

Boron 5.64 2.00 mg/L 5.00 0.0996 111 75-125 2.87 25

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 Project Manager: Paul Henchan

**Reported:**  
 01/26/24 14:42

**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 BGL0313 - EPA 3050B**

**Blank (BGL0313-BLK1)**

Prepared: 12/08/23 Analyzed: 12/14/23

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

**LCS (BGL0313-BS1)**

Prepared: 12/08/23 Analyzed: 12/14/23

Arsenic	38.7	0.200	mg/kg wet	40.0	96.8	80-120
Barium	40.7	0.400	"	40.0	102	80-120
Cadmium	2.03	0.200	"	2.00	101	80-120
Copper	42.8	0.400	"	40.0	107	80-120
Lead	20.2	0.200	"	20.0	101	80-120
Nickel	40.7	0.400	"	40.0	102	80-120
Silver	1.99	0.0200	"	2.00	99.6	80-120
Zinc	40.5	0.400	"	40.0	101	80-120
Selenium	4.63	0.260	"	4.00	116	80-120

**Duplicate (BGL0313-DUP1)**

Source: 2311585-01

Prepared: 12/08/23 Analyzed: 12/14/23

Arsenic	6.28	0.200	mg/kg dry	6.10	2.94	20	
Barium	186	0.400	"	385	70.0	20	QR-04
Cadmium	0.391	0.200	"	0.389	0.406	20	
Copper	7.90	0.400	"	7.65	3.26	20	
Lead	12.4	0.200	"	11.6	7.04	20	
Nickel	8.66	0.400	"	8.89	2.66	20	
Silver	0.0691	0.0200	"	0.0585	16.5	20	
Zinc	29.9	0.400	"	28.5	4.89	20	
Selenium	0.284	0.260	"	0.265	6.72	20	

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Project: Noble - Trebor B11-15  
Project Number: UWRWE-A1928-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/26/24 14:42

**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 BGL0313 - EPA 3050B**

**Matrix Spike (BGL0313-MS1)**

Source: 2311585-01

Prepared: 12/08/23 Analyzed: 12/14/23

Arsenic	57.0	0.200	mg/kg dry	52.7	6.10	96.5	75-125			
Barium	260	0.400	"	52.7	385	NR	75-125			QM-07
Cadmium	3.10	0.200	"	2.64	0.389	103	75-125			
Copper	34.8	0.400	"	52.7	7.65	51.4	75-125			QM-07
Lead	38.2	0.200	"	26.4	11.6	101	75-125			
Nickel	34.6	0.400	"	52.7	8.89	48.7	75-125			QM-07
Silver	2.71	0.0200	"	2.64	0.0585	100	75-125			
Zinc	55.5	0.400	"	52.7	28.5	51.2	75-125			QM-07
Selenium	8.65	0.260	"	5.27	0.265	159	75-125			QM-07

**Matrix Spike Dup (BGL0313-MSD1)**

Source: 2311585-01

Prepared: 12/08/23 Analyzed: 12/14/23

Arsenic	57.4	0.200	mg/kg dry	52.7	6.10	97.4	75-125	0.806	25	
Barium	264	0.400	"	52.7	385	NR	75-125	1.71	25	QM-07
Cadmium	3.19	0.200	"	2.64	0.389	106	75-125	2.77	25	
Copper	34.8	0.400	"	52.7	7.65	51.4	75-125	0.0728	25	QM-07
Lead	38.9	0.200	"	26.4	11.6	104	75-125	1.73	25	
Nickel	34.6	0.400	"	52.7	8.89	48.7	75-125	0.0381	25	QM-07
Silver	2.74	0.0200	"	2.64	0.0585	102	75-125	1.03	25	
Zinc	55.5	0.400	"	52.7	28.5	51.1	75-125	0.0200	25	QM-07
Selenium	8.90	0.260	"	5.27	0.265	164	75-125	2.81	25	QM-07

**Batch BHA0454 - EPA 3050B**

**Blank (BHA0454-BLK1)**

Prepared: 01/12/24 Analyzed: 01/17/24

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	"							

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Project: Noble - Trebor B11-15  
Project Number: UWRWE-A1928-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/26/24 14:42

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

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

**Batch BHA0454 - EPA 3050B**

**LCS (BHA0454-BS1)**

Prepared: 01/12/24 Analyzed: 01/17/24

Arsenic	40.9	0.200	mg/kg wet	40.0		102	80-120			
Barium	42.6	0.400	"	40.0		107	80-120			
Cadmium	2.03	0.200	"	2.00		102	80-120			
Copper	41.4	0.400	"	40.0		103	80-120			
Lead	20.0	0.200	"	20.0		99.8	80-120			
Nickel	40.8	0.400	"	40.0		102	80-120			
Silver	2.03	0.0200	"	2.00		102	80-120			
Zinc	40.4	0.400	"	40.0		101	80-120			
Selenium	4.21	0.260	"	4.00		105	80-120			

**Duplicate (BHA0454-DUP1)**

Source: 2311629-01

Prepared: 01/12/24 Analyzed: 01/17/24

Arsenic	3.99	0.200	mg/kg dry		3.04			26.9	20	QR-04
Barium	257	0.400	"		118			73.9	20	QR-04
Cadmium	0.357	0.200	"		0.324			9.71	20	
Copper	6.68	0.400	"		6.28			6.29	20	
Lead	9.90	0.200	"		9.93			0.252	20	
Nickel	6.10	0.400	"		5.68			7.08	20	
Silver	0.0647	0.0200	"		0.0530			19.9	20	
Zinc	27.5	0.400	"		23.6			15.3	20	
Selenium	ND	0.260	"		ND				20	

**Matrix Spike (BHA0454-MS1)**

Source: 2311629-01

Prepared: 01/12/24 Analyzed: 01/17/24

Arsenic	51.5	0.200	mg/kg dry	50.9	3.04	95.2	75-125			
Barium	235	0.400	"	50.9	118	230	75-125			QM-07
Cadmium	2.89	0.200	"	2.55	0.324	101	75-125			
Copper	33.2	0.400	"	50.9	6.28	52.9	75-125			QM-07
Lead	32.9	0.200	"	25.5	9.93	90.4	75-125			
Nickel	33.0	0.400	"	50.9	5.68	53.7	75-125			QM-07
Silver	2.51	0.0200	"	2.55	0.0530	96.4	75-125			
Zinc	53.0	0.400	"	50.9	23.6	57.8	75-125			QM-07
Selenium	3.46	0.260	"	5.09	ND	68.0	75-125			QM-07

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Project: Noble - Trebor B11-15  
 Project Number: UWRWE-A1928-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/26/24 14:42

**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 BHA0454 - EPA 3050B**

<b>Matrix Spike Dup (BHA0454-MSD1)</b>	<b>Source: 2311629-01</b>			<b>Prepared: 01/12/24 Analyzed: 01/17/24</b>						
Arsenic	52.4	0.200	mg/kg dry	50.9	3.04	96.9	75-125	1.62	25	
Barium	238	0.400	"	50.9	118	235	75-125	1.07	25	QM-07
Cadmium	2.97	0.200	"	2.55	0.324	104	75-125	2.59	25	
Copper	33.9	0.400	"	50.9	6.28	54.2	75-125	1.87	25	QM-07
Lead	33.9	0.200	"	25.5	9.93	94.3	75-125	3.00	25	
Nickel	33.6	0.400	"	50.9	5.68	54.8	75-125	1.77	25	QM-07
Silver	2.56	0.0200	"	2.55	0.0530	98.6	75-125	2.17	25	
Zinc	53.8	0.400	"	50.9	23.6	59.3	75-125	1.45	25	QM-07
Selenium	3.51	0.260	"	5.09	ND	68.9	75-125	1.33	25	QM-07

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Project: Noble - Trebor B11-15  
 Project Number: UWRWE-A1928-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/26/24 14:42

**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 BGL0268 - 3060A Mod**

**Blank (BGL0268-BLK1)**

Prepared & Analyzed: 12/07/23

Chromium, Hexavalent      ND      0.30    mg/kg wet

**LCS (BGL0268-BS1)**

Prepared & Analyzed: 12/07/23

Chromium, Hexavalent      21.8      0.30    mg/kg wet      25.0      87.4      80-120

**Duplicate (BGL0268-DUP1)**

**Source: 2311620-01**

Prepared & Analyzed: 12/07/23

Chromium, Hexavalent      ND      0.30    mg/kg dry      ND      20

**Matrix Spike (BGL0268-MS1)**

**Source: 2311620-01**

Prepared & Analyzed: 12/07/23

Chromium, Hexavalent      26.3      0.30    mg/kg dry      28.0      ND      94.0      75-125

**Matrix Spike Dup (BGL0268-MSD1)**

**Source: 2311620-01**

Prepared & Analyzed: 12/07/23

Chromium, Hexavalent      26.3      0.30    mg/kg dry      28.0      ND      94.0      75-125      0.00      20

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Project: Noble - Trebor B11-15  
 Project Number: UWRWE-A1928-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/26/24 14:42

**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 BGL0543 - General Preparation**

**Blank (BGL0543-BLK1)**

Prepared: 12/14/23 Analyzed: 12/21/23

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

**LCS (BGL0543-BS1)**

Prepared: 12/14/23 Analyzed: 12/21/23

Calcium	5.26	0.0500	mg/L wet	5.00		105	70-130			
Magnesium	5.24	0.0500	"	5.00		105	70-130			
Sodium	5.15	0.0500	"	5.00		103	70-130			

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Project: Noble - Trebor B11-15  
 Project Number: UWRWE-A1928-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/26/24 14:42

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

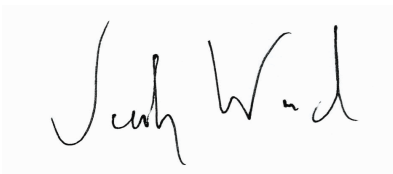
**Summit Scientific**

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

**Batch BGL0369 - General Preparation**

Duplicate (BGL0369-DUP1)	Source: 2311475-01			Prepared & Analyzed: 12/11/23							
% Solids	93.9		%		93.6				0.321	20	

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Project: Noble - Trebor B11-15  
 Project Number: UWRWE-A1928-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/26/24 14:42

**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 BGL0585 - General Preparation**

**Blank (BGL0585-BLK1)**

Prepared & Analyzed: 12/15/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGL0585-BS1)**

Prepared & Analyzed: 12/15/23

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

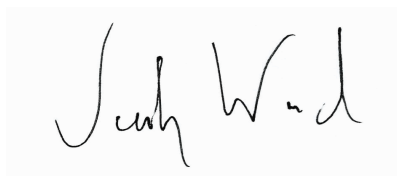
**Duplicate (BGL0585-DUP1)**

Source: 2311577-01

Prepared & Analyzed: 12/15/23

Specific Conductance (EC) 1.23 0.0100 mmhos/cm 1.23 0.244 20

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 Wellington CO, 80549

Project: Noble - Trebor B11-15  
 Project Number: UWRWE-A1928-ABN  
 Project Manager: Paul Henchan

**Reported:**  
 01/26/24 14:42

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

**Summit Scientific**

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

**Batch BGL0584 - General Preparation**

<b>LCS (BGL0584-BS1)</b>										
					Prepared & Analyzed: 12/15/23					
pH	9.17		pH Units	9.18	99.9	95-105				
<b>Duplicate (BGL0584-DUP1)</b>										
					Source: 2311577-01 Prepared & Analyzed: 12/15/23					
pH	7.60		pH Units	7.57	0.396	20				

**Batch BHA0597 - General Preparation**

<b>LCS (BHA0597-BS1)</b>										
					Prepared: 01/16/24 Analyzed: 01/17/24					
pH	9.14		pH Units	9.18	99.6	95-105				
<b>Duplicate (BHA0597-DUP1)</b>										
					Source: 2311495-03 Prepared: 01/16/24 Analyzed: 01/17/24					
pH	8.82		pH Units	8.72	1.14	20				

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Project: Noble - Trebor B11-15  
Project Number: UWRWE-A1928-ABN  
Project Manager: Paul Henchan

**Reported:**  
01/26/24 14:42

### Notes and Definitions

- QR-04 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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.
- QLCS-01 The spike recovery was outside acceptance limits for this analyte indicating a potential high bias. The corresponding samples did not exhibit concentrations above reporting level for this analyte. Data quality is not affected.
- I-04 Sample was analyzed out of recommended holding time per clients request.
- 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