

FREMONT ENVIRONMENTAL INC.

January 26, 2024

Mr. Daniel Peterson
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80634

Subject: **Flowline Closure Data Submittal**
Trebor B11-15
API # 05-123-13522
SWSE Sec. 11, T5N, R64W
Weld County, Colorado
Fremont Project No. C023-313
Facility ID #245727, Remediation #30734

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted Flowline Closure activities for the Noble Energy Inc. (Noble) Trebor B11-15. Impacted soil was not encountered during abandonment activities. Details of the Trebor B11-15 flowline closure activities are documented in the attached Closure Report. Groundwater was not encountered during flowline abandonment activities.

Please contact me at (303) 956-8714 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

FREMONT ENVIRONMENTAL INC.



Paul V. Henehan, P.E.
Senior Consultant

Attachments:

- Facility Closure Checklist
- Tables
- Figures
- Photos
- Laboratory Reports

1759 REDWING LANE, BROOMFIELD, CO 80020
(303) 956-8714 (DIRECT)

Flowline Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: TREBOR T5N-R64W-S11 L07 Facility: 326699		Date: 11/30/2023			Remediation Project #: 30734			
Associated Wells: Trebor B11-15 Facility ID: 245727 API: 05-123-13522		Age of Site: 1987			Number of Photos Attached: 9 Photos			

Starting point: (GPS coordinates and descriptions) 40.4087077, -104.5151784

End point: (GPS coordinates and descriptions) 40.4082546, -104.5086054

USCS Soil Type: SC & SW Estimated Depth to Groundwater: N/A

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
None observed

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
None observed

Flowlines

Flowline type	2" Steel							
Depth	Roughly 3-4ft							
Age	1987							
Length	1,915ft							
Construction Material	Black Tape							
Were flowlines pulled?	Partially							
Visual Integrity of lines	No Damage							
Visual impacts if trenched	N/A							
PID Readings if trenched	N/A							
Sample taken? Location/Sample ID#	FL01 @ 4.0' FL07 @ 5.0'							
Photo Number(s)	Photo 1A-1G & 2A-2B							

Other observations regarding on location flowlines: 1,320 feet of flowline was removed from wellhead tie-in (FL01@4.0') to sample location FL06@5.0'. 595 feet of flowline was cut, capped and abandoned-in-place from sample location FL06@5.0' to separator tie-in (FL07@5.0'). An exceedance in pH was discovered at the separator tie-in (FL07@5.0') sample location, an exceedance in barium was discovered at the wellhead tie-in (FL01@4.0') sample location and both the wellhead and separator tie-in sample locations were found with an exceedance in arsenic. These exceedances in pH, arsenic and barium were all discovered in local background samples collected in undisturbed areas. Thus, these exceedances should be contributed to native soil conditions. Refer to the inorganic soil chemistry table (Table 3) and metals in soil chemistry table (Table 4) for reference.

Summary

Was impacted soil identified?
No Yes - less than 10 cubic yards Yes - more than 10 cubic yards

Total number of samples field screened: 5 samples Total number of samples collected: 9 samples

Highest PID Reading: High @ 0.4ppm (FL07@5.0') Total number of samples submitted to lab for analysis: 4 Samples

If more than 10 cubic yards of impacted soil were observed:

Vertical extent: N/A Estimated spill volume: N/A

Lateral extent: N/A Volume of soil removed: N/A

Is additional investigation required? N/A

Was groundwater encountered during the investigation?
No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils

Measured depth to groundwater: N/A Was remedial groundwater removal conducted? Yes No

Date Groundwater was encountered: N/A Commencement date of removal: N/A

Sheen on groundwater? Yes No Volume of groundwater removed prior to sampling: N/A

Free product observed? Yes No Volume of groundwater removed post sampling: N/A

Total number of samples collected: N/A Total Volume of groundwater removed: N/A

Total number of samples submitted to lab for analysis: N/A

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
TREBOR B11-15, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-313

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
FL01@4.0'	11/30/2023	4.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
FL07@5.0'	11/30/2023	5.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the ECMC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

Green highlighted cells indicate soil removed via excavation

* Indicates laboratory minimum detection limit in excess of SSL

** Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
TREBOR B11-15, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-313

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FL01@4.0'	11/30/2023	4.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
FL07@5.0'	11/30/2023	5.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the ECMC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

Green highlighted cells indicate soil removed via excavation

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
TREBOR B11-15, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-313

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
Max. Background Concentration (or Concentration Range)			8.87	-	-	-
FL01@4.0'	11/30/2023	4.0 Ft	8.27	0.294	0.694	<2.00
FL07@5.0'	11/30/2023	5.0 Ft	8.47	0.440	0.859	<2.00
BKG01@4.0'	11/30/2023	4.0 Ft	8.10	1.32	3.05	<2.00
BKG02@5.0'	11/30/2023	5.0 Ft	8.87	0.521	2.44	<2.00

Bold faced, yellow highlighted values exceed the ECMC Table 915-1 concentrations

Green highlighted cells indicate soil removed via excavation

Yellow highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

NA - Not analyzed

Local Background Samples (BKG01@4.0' & BKG02@5.0')

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
TREBOR B11-15, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-313

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
125% Max. Background Concentration			3.98	157	-	-	-	-	-	-	-	-
FL01@4.0'	11/30/2023	4.0 Ft	3.04	118	0.332	<0.30	7.21	11.0	6.38	<0.260	0.0570	30.2
FL07@5.0'	11/30/2023	5.0 Ft	1.98	69.1	<0.200	<0.30	3.05	5.61	3.31	<0.260	<0.0200	13.5
BKG01@4.0'	11/30/2023	4.0 Ft	3.19	126	0.349	<0.30	7.10	11.2	5.22	0.294	0.0642	31.4
BKG02@5.0'	11/30/2023	5.0 Ft	1.79	28.5	<0.200	<0.30	1.78	3.05	1.72	<0.260	<0.0200	7.93

Bold faced values exceed the ECMC Table 915-1 concentrations

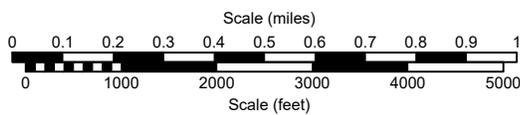
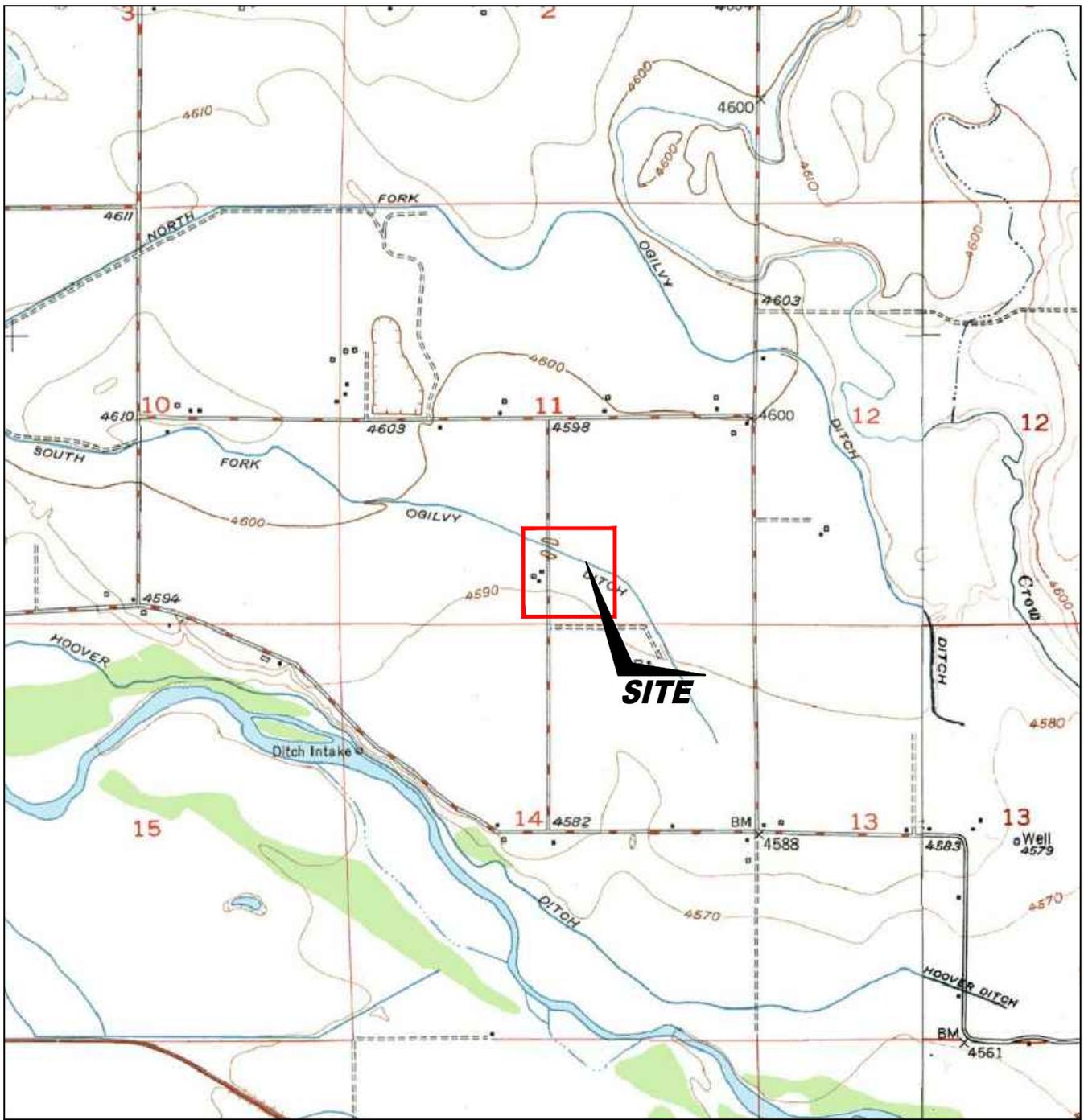
Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

* Indicates laboratory minimum detection limit in excess of SSL

Green highlighted cells indicate soil removed via excavation

NA - Not analyzed

Local Background Samples (BKG01@4.0' & BKG02@5.0')



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP
NOBLE ENERGY INC ~ TREBOR B11-15

SWSE Sec. 11, T5N, R64W, 6th PM
 Weld County, Colorado
 40.408712°, -104.515210°

Project # CO23-313	API # 05-123-13522	Facility # 245727
Date 7/9/24	Remediation # 30734	Filename 23313T





LEGEND

- ▲ PID READING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- REMOVED FLOW LINE
- ABANDONED IN PLACE FLOW LINE
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL

Figure 2
SITE MAP

NOBLE ENERGY INC ~ TREBOR B11-15

SWSE Sec. 11, T5N, R64W, 6th PM
Weld County, Colorado
40.408712°, -104.515210°

Project No. CO23-313	API # 05-123-13522	Facility # 245727
Date 8/5/24	Remediation # 30734	Filename 23313Q





Figure 3
SOIL CHEMISTRY MAP
NOBLE ENERGY INC ~ TREBOR B11-15

SWSE Sec. 11, T5N, R64W, 6th PM
 Weld County, Colorado
 40.408712°, -104.515210°

Project No. CO23-313	API # 05-123-13522	Facility # 245727	
Date 8/5/24	Remediation # 30734	Filename 23313Q	

SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID
DATE	DATE	DATE	DATE
DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)
ACE	As	ACE	As
Ant	BA	Ant	BA
BaA	BC	BaA	BC
BaP	SAR	BaP	SAR
BaP	CR(V)	BaP	CR(V)
Chr	CU	Chr	CU
DbaHant	EC	DbaHant	EC
FLU	EC	FLU	EC
FL	EC	FL	EC
1123cdPY	EC	1123cdPY	EC
PPY	EC	PPY	EC
1MN	EC	1MN	EC
2MN	EC	2MN	EC

Photo Log



Description:

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Photo Log



Description:

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Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

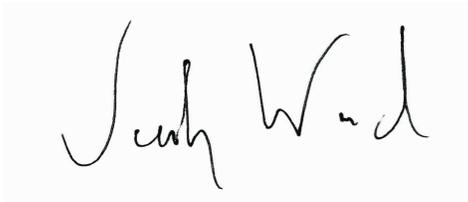
303.277.9310

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 large initial 'J' and a distinct 'W'.

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.

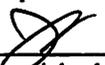
SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2311629	

Client: Fremont Env		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company: Noble	
Address:		E-Mail: Paulh@fremontenv.com		Project Name/Location: Trebor B11-15	
City/State/Zip:		Jeffg@fremontenv.com Ethumb@fremontenv.com		AFE#:	
Phone:		Project Name: Trebor B11-15		PO/Billing Codes: UWRUE -A1928-ABN	
Sampler Name: J6		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:	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.	
Temperature Upon Receipt: 8.7	Corrected Temperature: 	IR gun #:		Standard	X Field Turb.	
				HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2311629

Client: Trement

Client Project ID: Treboer 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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely? (1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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 ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? (1) Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

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

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.



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

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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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

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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Fremont Environmental
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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

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)	0.294	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								
pH	8.27			pH Units	1	BGL0584	12/15/23	12/15/23	EPA 9045D	

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 Project Number: UWRWE-A1928-ABN
 Project Manager: Paul Henchan

Reported:
 01/26/24 14:42

FL01@4.0'
2311629-01 (Soil)

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Total Metals by EPA 6020B

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

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

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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

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
Project Number: UWRWE-A1928-ABN
Project Manager: Paul Henchan

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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Fremont Environmental
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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

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

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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

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	84.8		%	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)	0.440	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	8.47		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

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
Project Number: UWRWE-A1928-ABN
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	

Summit Scientific

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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						
Arsenic	1.79	0.200	mg/kg dry	1	BGL0313	12/08/23	12/14/23	EPA 6020B	
Barium	28.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.78	0.400	"	"	"	"	"	"	
Lead	3.05	0.200	"	"	"	"	"	"	
Nickel	1.72	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	7.93	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						
Calcium	36.0	0.0500	mg/L dry	1	BGL0543	12/14/23	12/21/23	EPA 6020B	
Magnesium	9.71	0.0500	"	"	"	"	"	"	
Sodium	63.8	0.0500	"	"	"	"	"	"	

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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

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 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						
pH	8.87		pH Units	1	BHA0597	12/15/23	01/17/24	EPA 9045D	I-04

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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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0598		"	0.0400		150	50-150			
Surrogate: Toluene-d8	0.0422		"	0.0400		105	50-150			
Surrogate: 4-Bromofluorobenzene	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			
Surrogate: 1,2-Dichloroethane-d4	0.0578		"	0.0400		145	50-150			
Surrogate: Toluene-d8	0.0448		"	0.0400		112	50-150			
Surrogate: 4-Bromofluorobenzene	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			
Surrogate: 1,2-Dichloroethane-d4	0.0567		"	0.0400		142	50-150			
Surrogate: Toluene-d8	0.0433		"	0.0400		108	50-150			
Surrogate: 4-Bromofluorobenzene	0.0416		"	0.0400		104	50-150			

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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

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

Matrix Spike Dup (BGL0178-MSD1)	Source: 2311625-01			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

Matrix Spike (BGL0252-MS1)	Source: 2311627-01			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>"</i>	<i>0.0333</i>		<i>61.8</i>	<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0202</i>		<i>"</i>	<i>0.0333</i>		<i>60.5</i>	<i>40-150</i>		

Matrix Spike Dup (BGL0252-MSD1)	Source: 2311627-01			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>"</i>	<i>0.0333</i>		<i>65.0</i>	<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0231</i>		<i>"</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 Result	%REC		RPD		Notes
		Limit	Units			%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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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 - 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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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 - Quality Control
Summit Scientific

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

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

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

Matrix Spike Dup (BHA0454-MSD1)	Source: 2311629-01			Prepared: 01/12/24 Analyzed: 01/17/24						
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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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 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	Source	%REC		RPD		Notes
		Limit	Units	Level	Result	%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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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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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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 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	Limit	

Batch BGL0584 - General Preparation

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

Batch BHA0597 - General Preparation

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

Summit Scientific



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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