

FREMONT ENVIRONMENTAL INC.

March 14, 2024

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

Subject: **Flowline Closure Data Submittal**
Ritcher USX AB 27-13
API # 05-123-32724
SWSW Sec. 27, T7N, R64W
Weld County, Colorado
Fremont Project No. C023-177
Remediation # 27763

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted flowline closure activities for the Noble Energy Inc. (Noble) Ritcher USX AB 27-13. Impacted soil was not encountered during abandonment activities. Details of the Ritcher USX AB 27-13 closure activities are documented in the attached Closure Report. Groundwater was not encountered during flowline abandonment activities.

Please contact me at (303) 261-6246 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

FREMONT ENVIRONMENTAL INC.



Stanley Gilbert
Environmental Scientist

Attachments:

Facility Closure Checklist
Tables
Figures
Photos
Laboratory Report

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

Flowline Closure Checklist

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

<i>Additional Attachments:</i>		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
<i>Site Name & COGCC Facility Number:</i>		<i>Date:</i>						<i>Remediation Project #:</i>
<i>Associated Wells:</i>		<i>Age of Site:</i>						<i>Number of Photos Attached:</i>
<i>Starting point: (GPS coordinates and descriptions)</i>								
<i>End point: (GPS coordinates and descriptions)</i>								
<i>USCS Soil Type:</i>					<i>Estimated Depth to Groundwater:</i>			
<i>Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)</i>								
<i>Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)</i>								
Flowlines								
<i>Flowline type</i>								
<i>Depth</i>								
<i>Age</i>								
<i>Length</i>								
<i>Construction Material</i>								
<i>Were flowlines pulled?</i>								
<i>Visual Integrity of lines</i>								
<i>Visual impacts if trenched</i>								
<i>PID Readings if trenched</i>								
<i>Sample taken? Location/Sample ID#</i>								
<i>Photo Number(s)</i>								
<i>Other observations regarding on location flowlines:</i>								
Summary								
<i>Was impacted soil identified?</i> <div> <div>No</div> <div>Yes - less than 10 cubic yards</div> <div>Yes - more than 10 cubic yards</div> </div>								
<i>Total number of samples field screened:</i>					<i>Total number of samples collected:</i>			
<i>Highest PID Reading:</i>					<i>Total number of samples submitted to lab for analysis:</i>			
<i>If more than 10 cubic yards of impacted soil were observed:</i>								
<i>Vertical extent:</i>					<i>Estimated spill volume:</i>			
<i>Lateral extent:</i>					<i>Volume of soil removed:</i>			
<i>Is additional investigation required?</i>								
<i>Was groundwater encountered during the investigation?</i> <div> <div>No</div> <div>Yes - not impacted or in contact with impacted soils</div> <div>Yes - groundwater impacted and/or in contact with impacted soils</div> </div>								
<i>Measured depth to groundwater:</i>					<i>Was remedial groundwater removal conducted? Yes No</i>			
<i>Date Groundwater was encountered:</i>					<i>Commencement date of removal:</i>			
<i>Sheen on groundwater? Yes No</i>					<i>Volume of groundwater removed prior to sampling:</i>			
<i>Free product observed? Yes No</i>					<i>Volume of groundwater removed post sampling:</i>			
<i>Total number of samples collected:</i>					<i>Total Volume of groundwater removed:</i>			
<i>Total number of samples submitted to lab for analysis:</i>								

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
RITCHER USX AB 27-13, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-177

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 4feet	06/29/2023	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
FL03 3feet	06/29/2023	3'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
FL06 4feet	06/29/2023	4'	<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)

* 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.
RITCHER USX AB 27-13, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-177

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 4feet	06/29/2023	4'	<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
FL03 3feet	06/29/2023	3'	<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
FL06 4feet	06/29/2023	4'	<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

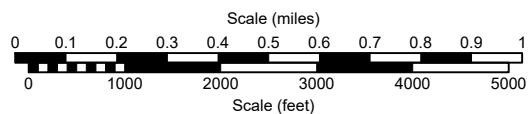
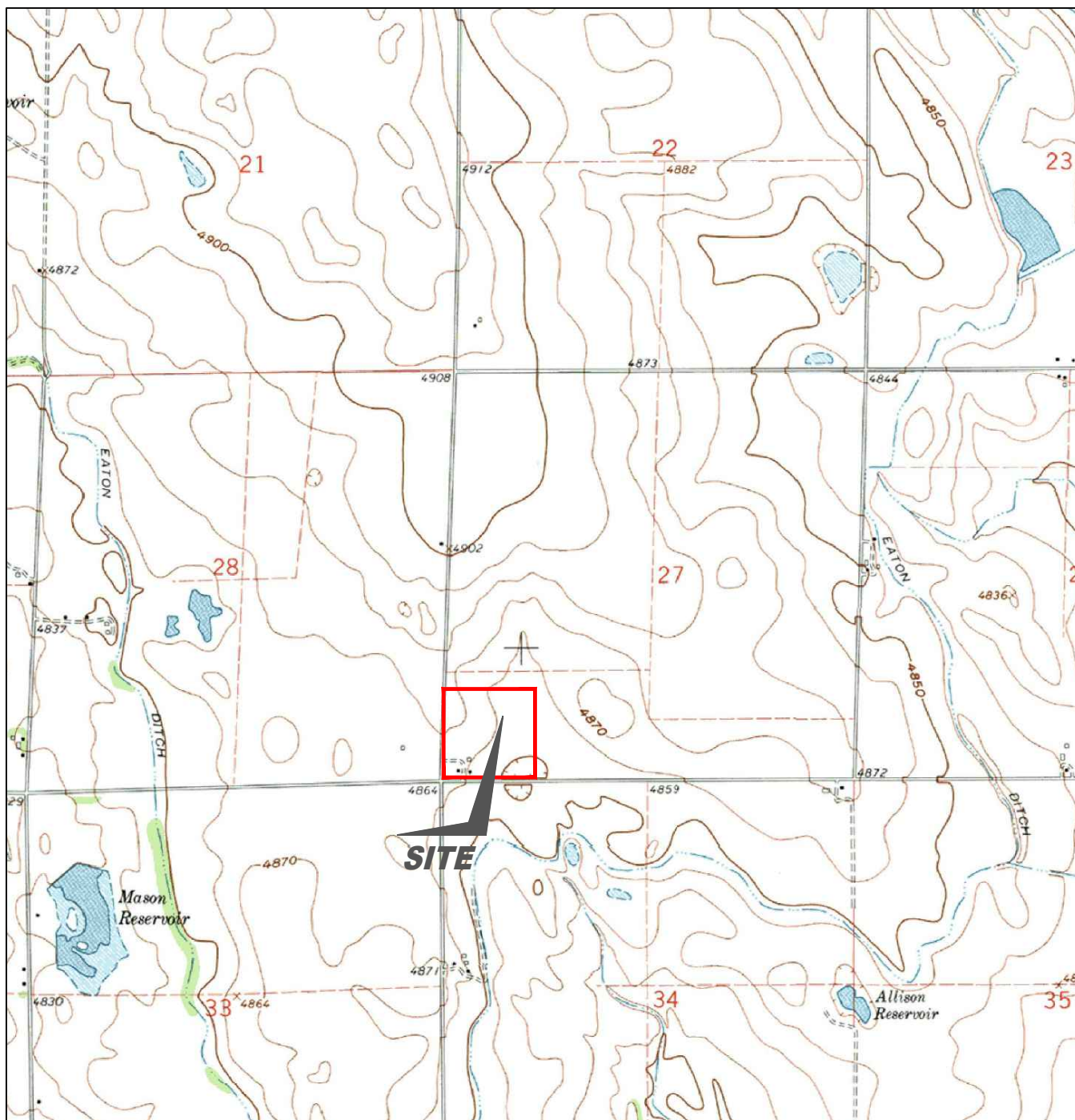
TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
RITCHER USX AB 27-13, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-177

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
FL01 4feet	06/29/2023	4'	7.96	0.306	2.49	0.240
FL03 3feet	06/29/2023	3'	7.89	0.567	0.859	0.153
FL06 4feet	06/29/2023	4'	8.08	0.299	0.477	0.215

Bold faced values exceed the ECMC Table 915-1 concentrations

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

NA - Not analyzed



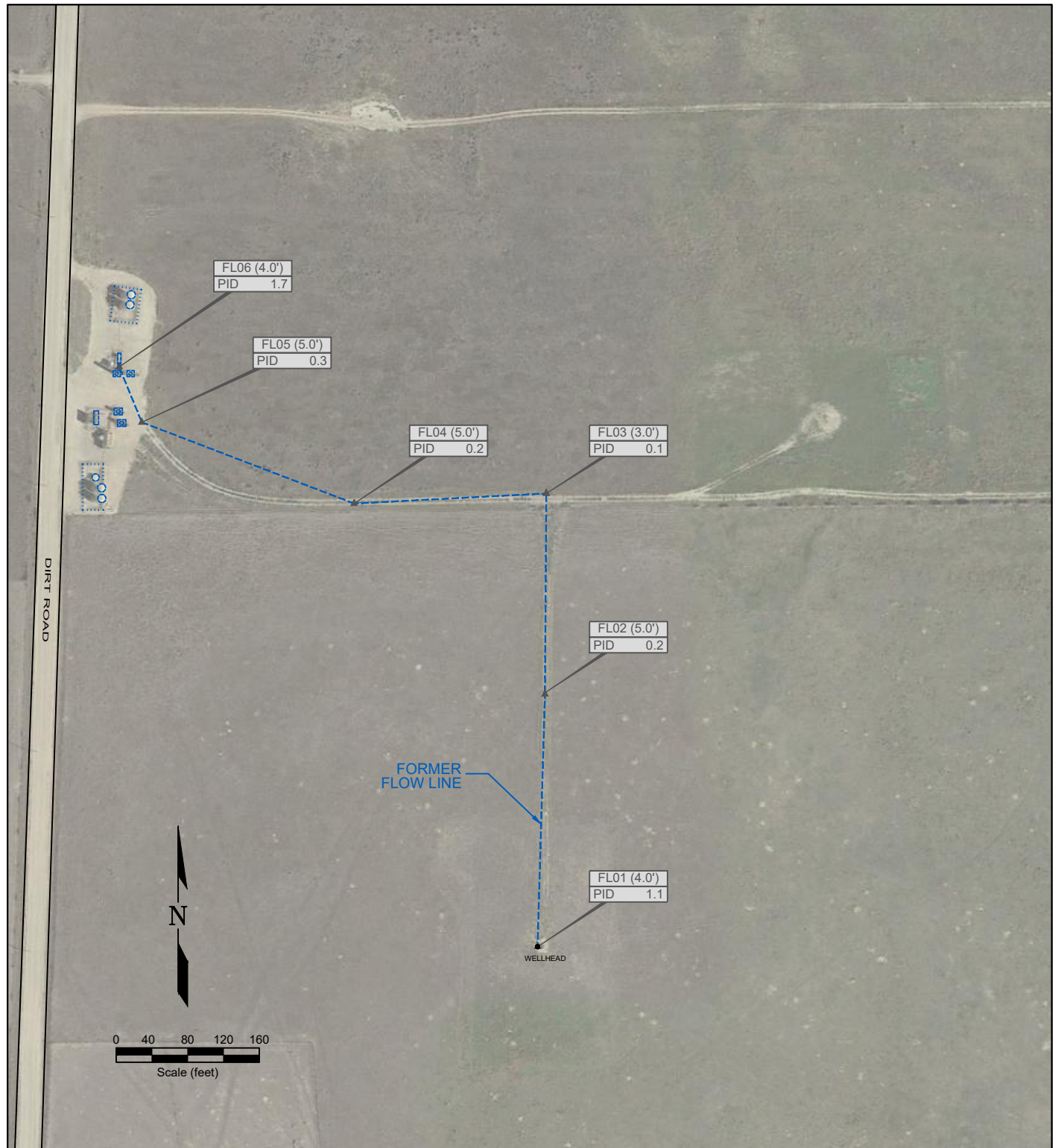
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY INC - RICHTER USX AB 27-13
SWSW Sec. 27, T7N, R64W, 6th PM
Weld County, Colorado
40.538990°, -104.543010°

Project # CO23-177	API # 05-123-32724	Facility #
Date 10/23/2023	Remediation # 27763	Filename 23177T





LEGEND

- WELLHEAD LOCATION
 - ▲ PID READING LOCATION
 - ABOVE GROUND STORAGE TANK
 - FORMER FACILITY
 - FLOW LINE
 - CONTAINMENT BERM
 - FENCE LINE
- FL01 PID 0.1 PID READING LOCATION IDENTIFICATION PHOTO IONIZATION DETECTION (ppm)


Figure 2
SITE MAP

NOBLE ENERGY INC - RICHTER USX AB 27-13

SWSW Sec. 27, T7N, R64W, 6th PM

Weld County, Colorado

40.538990°, -104.543010°

Project # CO23-177	API # 05-123-32724	Facility #	
Date 10/23/2023	Remediation # 27763	Filename 23177Q	

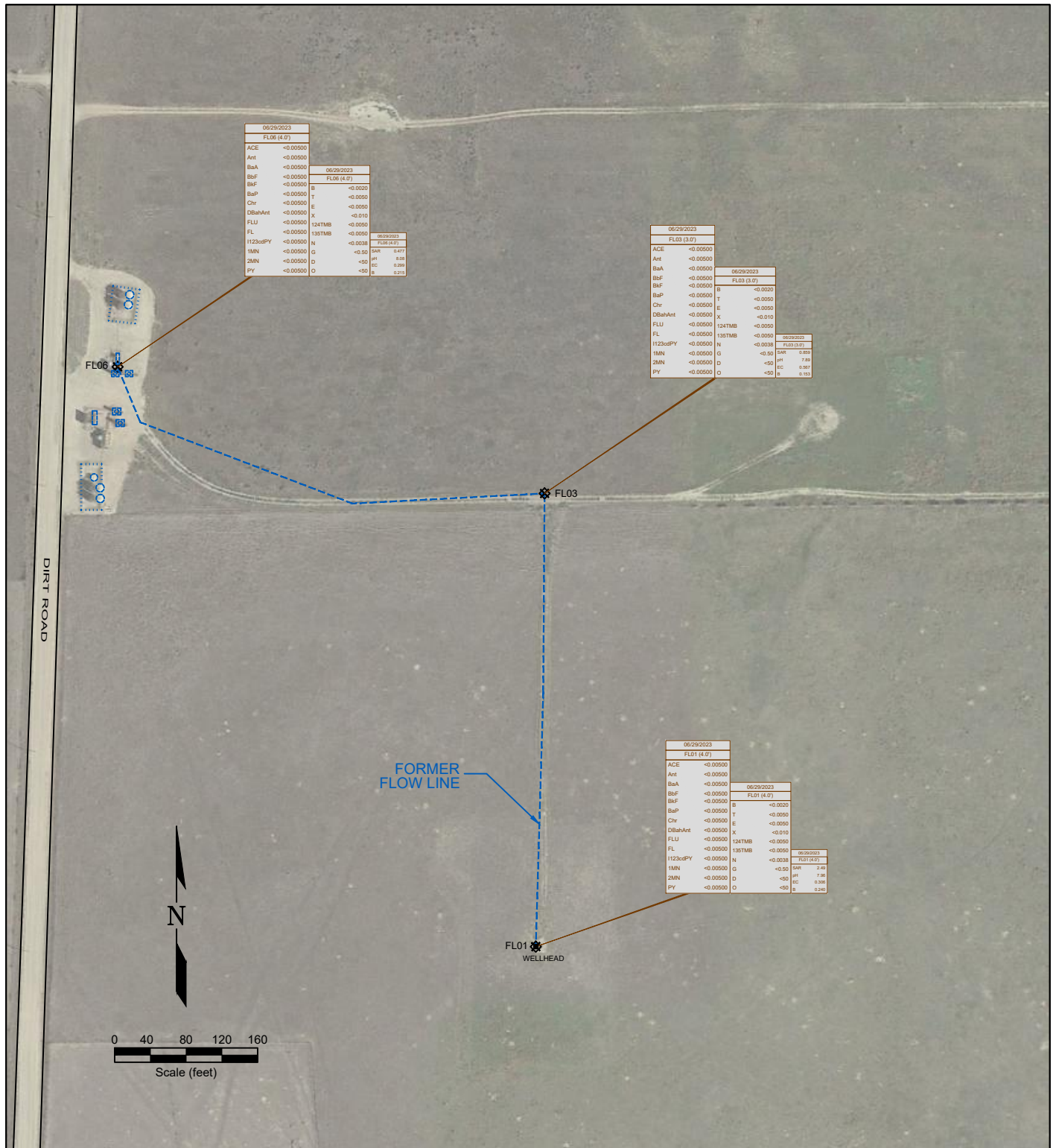


Figure 3
SOIL CHEMISTRY MAP

NOBLE ENERGY INC - RICHTER USX AB 27-13
SWSW Sec. 27, T7N, R64W, 6th PM
Weld County, Colorado
40.538990°, -104.543010°

Project # CO23-177	API # 05-123-32724	Facility # 23177Q	
Date 10/23/2023	Remediation # 27763	Filename 23177Q	

4/7/2023	DATE SAMPLED	4/7/2023	DATE SAMPLED	4/7/2023	DATE SAMPLED
FL01 (4')	SAMPLE ID and DEPTH (ft)	FL01 (4')	SAMPLE ID and DEPTH (ft)	FL01 (4')	SAMPLE ID and DEPTH (ft)
ACE	ACENAPHTHENE (mg/kg)	B	BENZENE (mg/kg)	SAR	SAR (units)
Ant	ANTHRACENE (mg/kg)	T	TOLUENE (mg/kg)	pH	pH (units)
BaA	BENZO (A) ANTHRACENE (mg/kg)	E	ETHYLENE (mg/kg)	EC	EC (mmhos/cm)
BbF	BENZO (B) FLUORANTHENE (mg/kg)	X	TOTAL XYLENES (mg/kg)	BORON	BORON (mg/L)
BaP	BENZO (K) FLUORANTHENE (mg/kg)	134TMB	1,2,4-TRIMETHYLBENZENE (mg/kg)	[NA] NOT ANALYZED	
BaP	BENZO (A) PYRENE (mg/kg)	135TMB	1,3,5-TRIMETHYLBENZENE (mg/kg)		
Chr	CHRYSENE (mg/kg)	N	NAPHTHALENE (mg/kg)		
DBaHAnt	DIBENZ (A,H) ANTHRACENE (mg/kg)	G	TPH-GRO (mg/kg)		
FLU	FLUORANTHENE (mg/kg)	D	TPH-DRO (mg/kg)		
FL	FLUORENE (mg/kg)	O	TPH-CRO (mg/kg)		
1123cdPY	INDENO (1,2,3-CD) PYRENE (mg/kg)				
1MN	1-METHYLNAPHTHALENE (mg/kg)				
2MN	2-METHYLNAPHTHALENE (mg/kg)				
PY	PYRENE (mg/kg)				

Photo Log



Description:

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Photo Log



Description:

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Description:

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Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 12, 2023

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Richter USXAB 27-13 FL

Work Order #2306626

Enclosed are the results of analyses for samples received by Summit Scientific on 06/29/23 15:46. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

Jacob Wood For Paul Shrewsbury

President



Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Richter USXAB 27-13 FL Project Number: UWRWE-A2763-ABN Project Manager: Paul Henchan	Reported: 07/12/23 08:50
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ANALYTICAL REPORT FOR SAMPLES

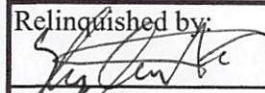


Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 4feet	2306626-01	Soil	06/29/23 12:12	06/29/23 15:46
FL03 3feet	2306626-02	Soil	06/29/23 12:15	06/29/23 15:46
FL06 4feet	2306626-03	Soil	06/29/23 11:26	06/29/23 15:46

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.

Client: Fremont Environmental		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company: Nohle	
Address:		E-Mail: Fremont Distribution List		Project Name/Location: Richter USX AB 27-13 FL	
City/State/Zip:				AFE#:	
Phone: 303-261-6246		Project Name: Richter USX AB 27-13 FL		PO/Billing Codes: UWRWE - A2763-ABN	
Sampler Name: Stanley Gilbert		Project Number:		Contact: Mike Montoya	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested						Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)	TDS, Chloride, Sulfate	
1	FL01 4 feet	6/29/23	12:12	2			X			X			X	X	X	X			
2	FL03 3 feet	I	12:15	I			I			I			I	I	I	I			
3	FL06 4 feet	I	11:26	I			I			I			I	I	I	I			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: 	Date/Time: 6/29/23 15:46	Received by: Summit North	Date/Time: 6/29/23 15:46	TAT Business Days	Field DO	Notes:
Relinquished by: 82	Date/Time: 6/29/23 15:46	Received by: 	Date/Time: 6/29/23 15:46	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt: 13.0		Corrected Temperature: 		IR gun #: 1	HNO3 lot #:	

S₂

Sample Receipt Checklist

S2 Work Order# 2306626Client: Fremont Client Project ID: Richter USX AB 27-B FLShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 13.0Thermometer # 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"/>	an ZCE
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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"/>	
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽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

6/29/13
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

FL01 4feet
2306626-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/29/23 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGF1129	06/30/23	07/02/23	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: **06/29/23 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0384	95.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0448	112 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0456	114 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/29/23 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGF1134	06/30/23	06/30/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/29/23 12:12**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.4	82.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

FL01 4feet
2306626-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/29/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGF1104	06/30/23	07/01/23	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: **06/29/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0140	42.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0170	51.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/29/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.240	0.0100	mg/L	1	BGF1107	06/30/23	07/02/23	EPA 6020B	

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

Date Sampled: **06/29/23 12:12**

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 - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

FL01 4feet
2306626-01 (Soil)

Summit Scientific

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

Calcium	0.324	0.0581	mg/L dry	1	BGG0166	07/07/23	07/11/23	EPA 6020B
Magnesium	ND	0.0581	"	"	"	"	"	"
Sodium	5.77	0.0581	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **06/29/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.49	0.00100	units	1	BGG0293	07/11/23	07/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/29/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.1		%	1	BGG0029	07/03/23	07/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/29/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.306	0.0100	mmhos/cm	1	BGG0227	07/10/23	07/10/23	EPA 120.1	

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

Date Sampled: **06/29/23 12:12**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.96		pH Units	1	BGG0225	07/10/23	07/10/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

FL03 3feet
2306626-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGF1129	06/30/23	07/02/23	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: **06/29/23 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0451	113 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0448	112 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGF1134	06/30/23	06/30/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.2	89.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Wellington CO, 80549

Project: Noble - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

FL03 3feet
2306626-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Acenaphthene	ND	0.00500	mg/kg	1	BGF1104	06/30/23	07/01/23	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: **06/29/23 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 2-Methylnaphthalene-d10	0.0205	61.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0210	63.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.153	0.0100	mg/L	1	BGF1107	06/30/23	07/02/23	EPA 6020B	

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

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

FL03 3feet
2306626-02 (Soil)

Summit Scientific

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

Calcium	26.5	0.0529	mg/L dry	1	BGG0166	07/07/23	07/11/23	EPA 6020B
Magnesium	10.1	0.0529	"	"	"	"	"	"
Sodium	20.5	0.0529	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.859	0.00100	units	1	BGG0293	07/11/23	07/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.5		%	1	BGG0029	07/03/23	07/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.567	0.0100	mmhos/cm	1	BGG0227	07/10/23	07/10/23	EPA 120.1	

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

Date Sampled: **06/29/23 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.89		pH Units	1	BGG0225	07/10/23	07/10/23	EPA 9045D	

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Project: Noble - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

FL06 4feet
2306626-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/29/23 11:26**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGF1129	06/30/23	07/02/23	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: **06/29/23 11:26**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0403	101 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0434	109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0455	114 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/29/23 11:26**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGF1134	06/30/23	06/30/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **06/29/23 11:26**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.7	85.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

FL06 4feet
2306626-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **06/29/23 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGF1104	06/30/23	07/01/23	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: **06/29/23 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0173	51.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0208	62.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **06/29/23 11:26**

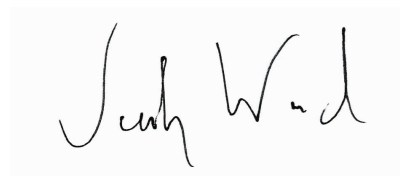
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.215	0.0100	mg/L	1	BGF1107	06/30/23	07/02/23	EPA 6020B	

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

Date Sampled: **06/29/23 11:26**

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 - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

FL06 4feet
2306626-03 (Soil)

Summit Scientific

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

Calcium	0.189	0.0575	mg/L dry	1	BGG0166	07/07/23	07/11/23	EPA 6020B
Magnesium	0.0877	0.0575	"	"	"	"	"	"
Sodium	1.00	0.0575	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **06/29/23 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.477	0.00100	units	1	BGG0293	07/11/23	07/11/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/29/23 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.9		%	1	BGG0029	07/03/23	07/03/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **06/29/23 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.299	0.0100	mmhos/cm	1	BGG0227	07/10/23	07/10/23	EPA 120.1	

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

Date Sampled: **06/29/23 11:26**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.08		pH Units	1	BGG0225	07/10/23	07/10/23	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGF1129 - EPA 5030 Soil MS

Blank (BGF1129-BLK1)

Prepared: 06/30/23 Analyzed: 07/01/23

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	0.0387		"	0.0400		96.7	50-150			
Surrogate: Toluene-d8	0.0445		"	0.0400		111	50-150			
Surrogate: 4-Bromofluorobenzene	0.0460		"	0.0400		115	50-150			

LCS (BGF1129-BS1)

Prepared: 06/30/23 Analyzed: 07/01/23

Benzene	0.112	0.0020	mg/kg	0.125		89.4	70-130			
Toluene	0.154	0.0050	"	0.125		123	70-130			
Ethylbenzene	0.150	0.0050	"	0.125		120	70-130			
m,p-Xylene	0.304	0.010	"	0.250		122	70-130			
o-Xylene	0.142	0.0050	"	0.125		114	70-130			
1,2,4-Trimethylbenzene	0.151	0.0050	"	0.125		121	70-130			
1,3,5-Trimethylbenzene	0.152	0.0050	"	0.125		122	70-130			
Naphthalene	0.129	0.0038	"	0.125		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0442		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0437		"	0.0400		109	50-150			

Matrix Spike (BGF1129-MS1)

Source: 2306373-01

Prepared: 06/30/23 Analyzed: 07/01/23

Benzene	0.112	0.0020	mg/kg	0.125	ND	89.9	70-130			
Toluene	0.155	0.0050	"	0.125	ND	124	70-130			
Ethylbenzene	0.154	0.0050	"	0.125	ND	123	70-130			
m,p-Xylene	0.313	0.010	"	0.250	ND	125	70-130			
o-Xylene	0.150	0.0050	"	0.125	ND	120	70-130			
1,2,4-Trimethylbenzene	0.155	0.0050	"	0.125	ND	124	70-130			
1,3,5-Trimethylbenzene	0.153	0.0050	"	0.125	ND	123	70-130			
Naphthalene	0.144	0.0038	"	0.125	ND	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0394		"	0.0400		98.4	50-150			
Surrogate: Toluene-d8	0.0436		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0442		"	0.0400		110	50-150			

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Project: Noble - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BGF1129 - EPA 5030 Soil MS

Matrix Spike Dup (BGF1129-MSD1)	Source: 2306373-01			Prepared: 06/30/23 Analyzed: 07/01/23						
Benzene	0.109	0.0020	mg/kg	0.125	ND	87.5	70-130	2.76	30	
Toluene	0.153	0.0050	"	0.125	ND	122	70-130	1.36	30	
Ethylbenzene	0.147	0.0050	"	0.125	ND	118	70-130	4.29	30	
m,p-Xylene	0.300	0.010	"	0.250	ND	120	70-130	4.12	30	
o-Xylene	0.140	0.0050	"	0.125	ND	112	70-130	6.89	30	
1,2,4-Trimethylbenzene	0.156	0.0050	"	0.125	ND	124	70-130	0.503	30	
1,3,5-Trimethylbenzene	0.151	0.0050	"	0.125	ND	121	70-130	1.30	30	
Naphthalene	0.138	0.0038	"	0.125	ND	110	70-130	4.66	30	
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0400		99.4	50-150			
Surrogate: Toluene-d8	0.0441		"	0.0400		110	50-150			
Surrogate: 4-Bromofluorobenzene	0.0436		"	0.0400		109	50-150			

Summit Scientific

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Wellington CO, 80549

Project: Noble - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGF1134 - EPA 3550A

Blank (BGF1134-BLK1)

Prepared & Analyzed: 06/30/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	10.2		"	12.5		81.8	30-150			

LCS (BGF1134-BS1)

Prepared & Analyzed: 06/30/23

C10-C28 (DRO)	363	50	mg/kg	500		72.6	70-130			
Surrogate: o-Terphenyl	12.3		"	12.5		98.2	30-150			

Matrix Spike (BGF1134-MS1)

Source: 2306373-01

Prepared & Analyzed: 06/30/23

C10-C28 (DRO)	393	50	mg/kg	500	37.3	71.1	70-130			
Surrogate: o-Terphenyl	11.9		"	12.5		95.2	30-150			

Matrix Spike Dup (BGF1134-MSD1)

Source: 2306373-01

Prepared & Analyzed: 06/30/23

C10-C28 (DRO)	406	50	mg/kg	500	37.3	73.7	70-130	3.20	20	
Surrogate: o-Terphenyl	12.4		"	12.5		99.5	30-150			

Summit Scientific

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Wellington CO, 80549

Project: Noble - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGF1104 - EPA 5030 Soil MS

Blank (BGF1104-BLK1)

Prepared & Analyzed: 06/30/23

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	"								
Surrogate: 2-Methylnaphthalene-d10	0.0372		"	0.0333		112		40-150			
Surrogate: Fluoranthene-d10	0.0375		"	0.0333		112		40-150			

LCS (BGF1104-BS1)

Prepared & Analyzed: 06/30/23

Acenaphthene	0.0339	0.00500	mg/kg	0.0333		102		31-137			
Anthracene	0.0348	0.00500	"	0.0333		104		30-120			
Benzo (a) anthracene	0.0318	0.00500	"	0.0333		95.5		30-120			
Benzo (a) pyrene	0.0323	0.00500	"	0.0333		97.0		30-120			
Benzo (b) fluoranthene	0.0273	0.00500	"	0.0333		81.8		30-120			
Benzo (k) fluoranthene	0.0303	0.00500	"	0.0333		90.9		30-120			
Chrysene	0.0349	0.00500	"	0.0333		105		30-120			
Dibenz (a,h) anthracene	0.0267	0.00500	"	0.0333		80.1		30-120			
Fluoranthene	0.0310	0.00500	"	0.0333		92.9		30-120			
Fluorene	0.0332	0.00500	"	0.0333		99.7		30-120			
Indeno (1,2,3-cd) pyrene	0.0374	0.00500	"	0.0333		112		30-120			
Pyrene	0.0376	0.00500	"	0.0333		113		35-142			
1-Methylnaphthalene	0.0317	0.00500	"	0.0333		95.1		35-142			
2-Methylnaphthalene	0.0306	0.00500	"	0.0333		91.9		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0308		"	0.0333		92.4		40-150			
Surrogate: Fluoranthene-d10	0.0312		"	0.0333		93.7		40-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGF1104 - EPA 5030 Soil MS

Matrix Spike (BGF1104-MS1)

Source: 2306593-01

Prepared & Analyzed: 06/30/23

Acenaphthene	0.0242	0.00500	mg/kg	0.0333	ND	72.5	31-137		
Anthracene	0.0245	0.00500	"	0.0333	ND	73.6	30-120		
Benzo (a) anthracene	0.0252	0.00500	"	0.0333	ND	75.6	30-120		
Benzo (a) pyrene	0.0218	0.00500	"	0.0333	ND	65.5	30-120		
Benzo (b) fluoranthene	0.0231	0.00500	"	0.0333	ND	69.2	30-120		
Benzo (k) fluoranthene	0.0211	0.00500	"	0.0333	ND	63.2	30-120		
Chrysene	0.0247	0.00500	"	0.0333	ND	74.1	30-120		
Dibenz (a,h) anthracene	0.0159	0.00500	"	0.0333	ND	47.7	30-120		
Fluoranthene	0.0263	0.00500	"	0.0333	ND	79.0	30-120		
Fluorene	0.0237	0.00500	"	0.0333	ND	71.1	30-120		
Indeno (1,2,3-cd) pyrene	0.0212	0.00500	"	0.0333	ND	63.5	30-120		
Pyrene	0.0251	0.00500	"	0.0333	ND	75.2	35-142		
1-Methylnaphthalene	0.0261	0.00500	"	0.0333	ND	78.2	15-130		
2-Methylnaphthalene	0.0241	0.00500	"	0.0333	ND	72.4	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0235		"	0.0333		70.5	40-150		
Surrogate: Fluoranthene-d10	0.0272		"	0.0333		81.6	40-150		

Matrix Spike Dup (BGF1104-MSD1)

Source: 2306593-01

Prepared & Analyzed: 06/30/23

Acenaphthene	0.0196	0.00500	mg/kg	0.0333	ND	58.8	31-137	20.8	30
Anthracene	0.0197	0.00500	"	0.0333	ND	59.0	30-120	22.0	30
Benzo (a) anthracene	0.0197	0.00500	"	0.0333	ND	59.2	30-120	24.4	30
Benzo (a) pyrene	0.0177	0.00500	"	0.0333	ND	53.2	30-120	20.7	30
Benzo (b) fluoranthene	0.0208	0.00500	"	0.0333	ND	62.4	30-120	10.3	30
Benzo (k) fluoranthene	0.0180	0.00500	"	0.0333	ND	54.0	30-120	15.6	30
Chrysene	0.0191	0.00500	"	0.0333	ND	57.3	30-120	25.7	30
Dibenz (a,h) anthracene	0.0153	0.00500	"	0.0333	ND	45.8	30-120	4.11	30
Fluoranthene	0.0211	0.00500	"	0.0333	ND	63.3	30-120	22.0	30
Fluorene	0.0229	0.00500	"	0.0333	ND	68.8	30-120	3.26	30
Indeno (1,2,3-cd) pyrene	0.0182	0.00500	"	0.0333	ND	54.7	30-120	14.8	30
Pyrene	0.0207	0.00500	"	0.0333	ND	62.0	35-142	19.3	30
1-Methylnaphthalene	0.0169	0.00500	"	0.0333	ND	50.6	15-130	42.9	50
2-Methylnaphthalene	0.0147	0.00500	"	0.0333	ND	44.1	15-130	48.6	50
Surrogate: 2-Methylnaphthalene-d10	0.0148		"	0.0333		44.4	40-150		
Surrogate: Fluoranthene-d10	0.0185		"	0.0333		55.6	40-150		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

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

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

Batch BGF1107 - EPA 3050B

Blank (BGF1107-BLK1)

Prepared: 06/30/23 Analyzed: 07/02/23

Boron ND 0.0100 mg/L

LCS (BGF1107-BS1)

Prepared: 06/30/23 Analyzed: 07/02/23

Boron 5.50 0.0100 mg/L 5.00 110 80-120

Duplicate (BGF1107-DUP1)

Source: 2306586-01

Prepared: 06/30/23 Analyzed: 07/02/23

Boron 0.148 0.0100 mg/L 0.166 11.1 20

Matrix Spike (BGF1107-MS1)

Source: 2306586-01

Prepared: 06/30/23 Analyzed: 07/02/23

Boron 5.95 0.0100 mg/L 5.00 0.166 116 75-125

Matrix Spike Dup (BGF1107-MSD1)

Source: 2306586-01

Prepared: 06/30/23 Analyzed: 07/02/23

Boron 6.24 0.0100 mg/L 5.00 0.166 121 75-125 4.75 25

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Project: Noble - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

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

Summit Scientific

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

Batch BGG0166 - General Preparation

Blank (BGG0166-BLK1)

Prepared: 07/07/23 Analyzed: 07/11/23

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

LCS (BGG0166-BS1)

Prepared: 07/07/23 Analyzed: 07/11/23

Calcium	5.88	0.0500	mg/L wet	5.00	118	70-130
Magnesium	5.81	0.0500	"	5.00	116	70-130
Sodium	5.97	0.0500	"	5.00	119	70-130

Summit Scientific

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Fremont Environmental	Project: Noble - Richter USXAB 27-13 FL	
PO Box 1289	Project Number: UWRWE-A2763-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	07/12/23 08:50

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

Summit Scientific

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

Batch BGG0029 - General Preparation

Duplicate (BGG0029-DUP1)	Source: 2306586-01		Prepared & Analyzed: 07/03/23							
% Solids	84.2		%		84.4			0.272	20	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Richter USXAB 27-13 FL
Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

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

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

Batch BGG0227 - General Preparation

Blank (BGG0227-BLK1)

Prepared & Analyzed: 07/10/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGG0227-BS1)

Prepared & Analyzed: 07/10/23

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

Duplicate (BGG0227-DUP1)

Source: 2306373-04

Prepared & Analyzed: 07/10/23

Specific Conductance (EC) 0.396 0.0100 mmhos/cm 0.399 0.931 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Richter USXAB 27-13 FL

Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

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

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

Batch BGG0225 - General Preparation

LCS (BGG0225-BS1)

Prepared & Analyzed: 07/10/23

pH	9.16	pH Units	9.18	99.8	95-105
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Duplicate (BGG0225-DUP1)

Source: 2306373-04

Prepared & Analyzed: 07/10/23

pH	8.19	pH Units	8.18	0.122	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Richter USXAB 27-13 FL

Project Number: UWRWE-A2763-ABN
Project Manager: Paul Henchan

Reported:
07/12/23 08:50

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference