

FREMONT ENVIRONMENTAL INC.

April 5, 2023

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

Subject: **Flowline Closure Data Submittal**
Nix 01
API # 05-123-11926
NENE Sec. 28, T4N, R64W
Weld County, Colorado
Fremont Project No. C022-197
Remediation # 23436

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted flowline abandonment activities for the Noble Energy Inc. (Noble) Nix 01 location. Details of the Nix 01 flowline abandonment are documented in the attached Closure Report. Groundwater was not encountered.

Please contact me at (603) 477-6907 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

FREMONT ENVIRONMENTAL INC.



Ethan D. Black, P.G.
Consultant

Attachments:

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

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY, INC
NIX 01, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-197

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)
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
FL01 2ft	12/02/2022	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SEP 2 ft	12/02/2022	2	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the COGCC 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

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY, INC
NIX 01, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-197

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)
COGCC 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
COGCC 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 2ft	12/02/2022	2	<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
SEP 2 ft	12/02/2022	2	<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 COGCC 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

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY, INC
NIX 01, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-197

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
BKG 2ft	12/02/2022	2	7.87	1.060	3	0.166
FL01 2ft	12/02/2022	2	7.66	1.340	2.48	0.183
SEP 2 ft	12/02/2022	2	5.05	0.142	0.0997	0.027

Bold faced values exceed the COGCC Table 915-1 concentrations

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

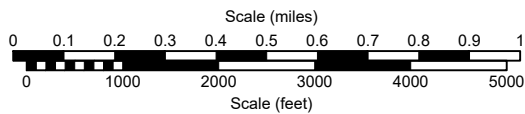
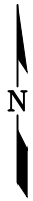
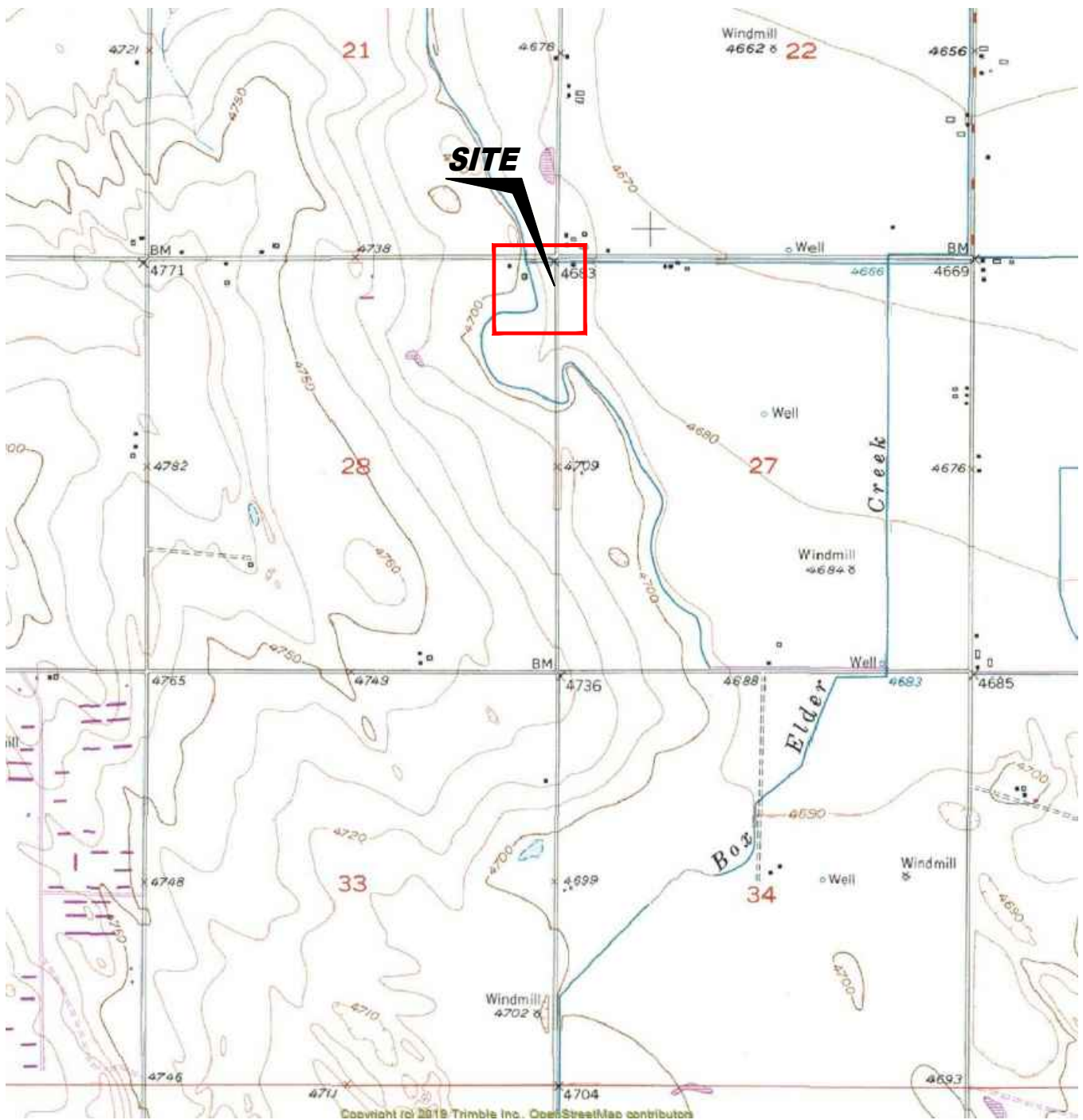
TABLE 4
SUMMARY OF POTHOLE FIELD OBSERVATIONS
NOBLE ENERGY, INC
NIX 01, WELD COUNTY, COLORADO
FREMONT PROJECT C022-197

Location	Latitude	Longitude	PID Reading	Field Observations
FL01 2 Ft	40.2885015	-104.5489133	0.0	No soil impacts
FL02 2 Ft	40.2884443	-104.54789	0.0	No soil impacts
FL03 2 Ft	40.2884127	-104.5472513	0.0	No soil impacts
FL04 3 Ft	40.2882867	-104.546866	0.0	No soil impacts

TABLE 5
SUMMARY OF FLOW LINE CONDITION
NOBLE ENERGY, INC
NIX 01, WELD COUNTY, COLORADO
FREMONT PROJECT C022-197

START	STOP	FOOTAGE	PIPE TYPE AND CONDITION
FL01 2 Ft	FL02 2 Ft	292	2" sch 80 carbon steel, green FBE coating, good condition
FL02 2 Ft	FL03 2 Ft	181	2" sch 80 carbon steel, green FBE coating, good condition
FL03 2 Ft	FL04 3 Ft	120	2" sch 80 carbon steel, green FBE coating, good condition

593 Total linear feet of flow line



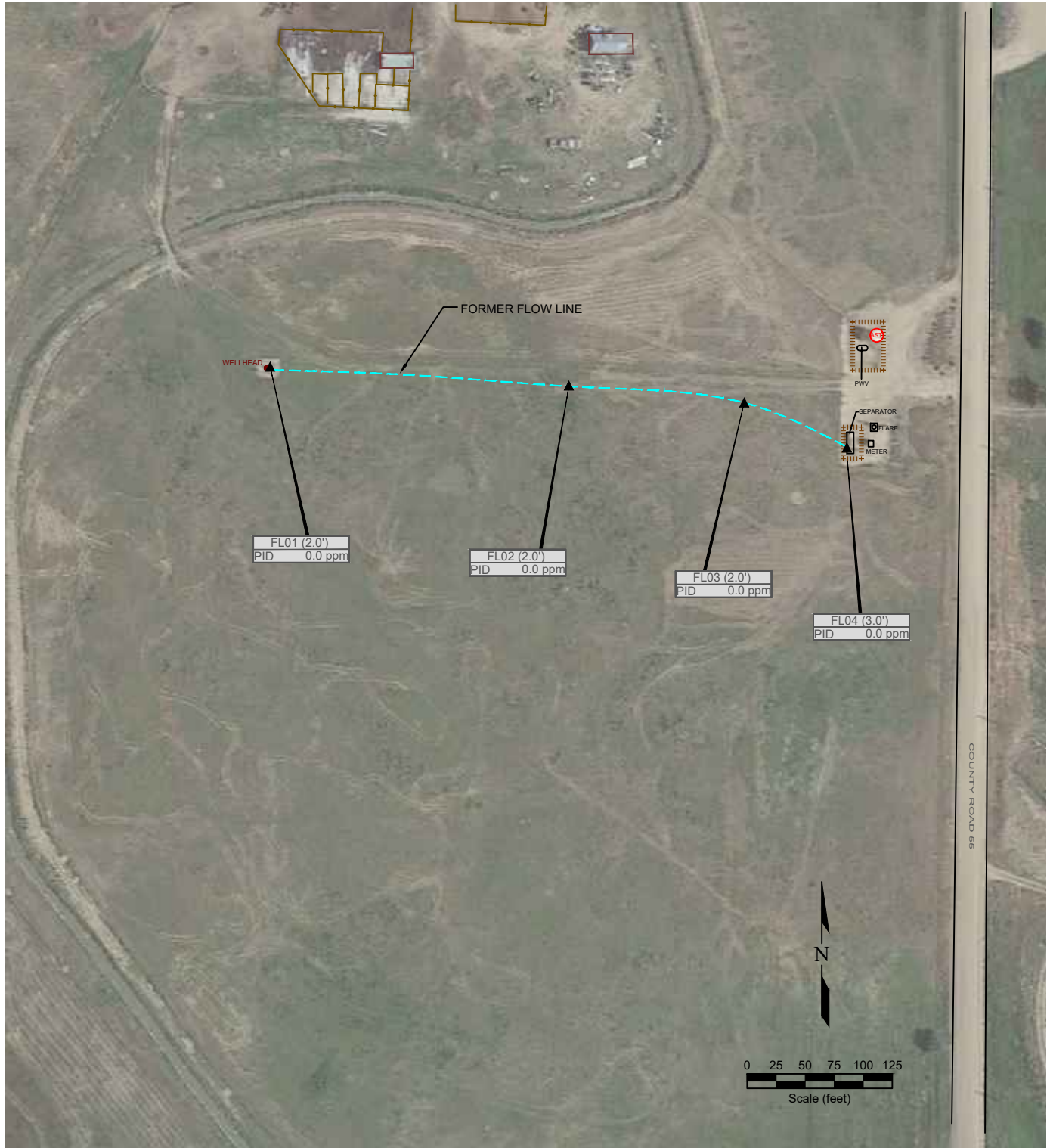
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY, INC. ~ NIX 01
 NENE Sec. 28, T2N, R64W, 6th PM
 Weld County, Colorado
 40.288500 °, -104.5%48920d

Project # C022-197	API # 05-123-11926	Facility #
Date 4/12/23	Remediation # 23426	Filename 22197T





LEGEND

- WELL HEAD LOCATION
- ▲ PID READING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- BUILDING
- CONTAINMENT BERM
- FENCE LINE
- FLOW LINE

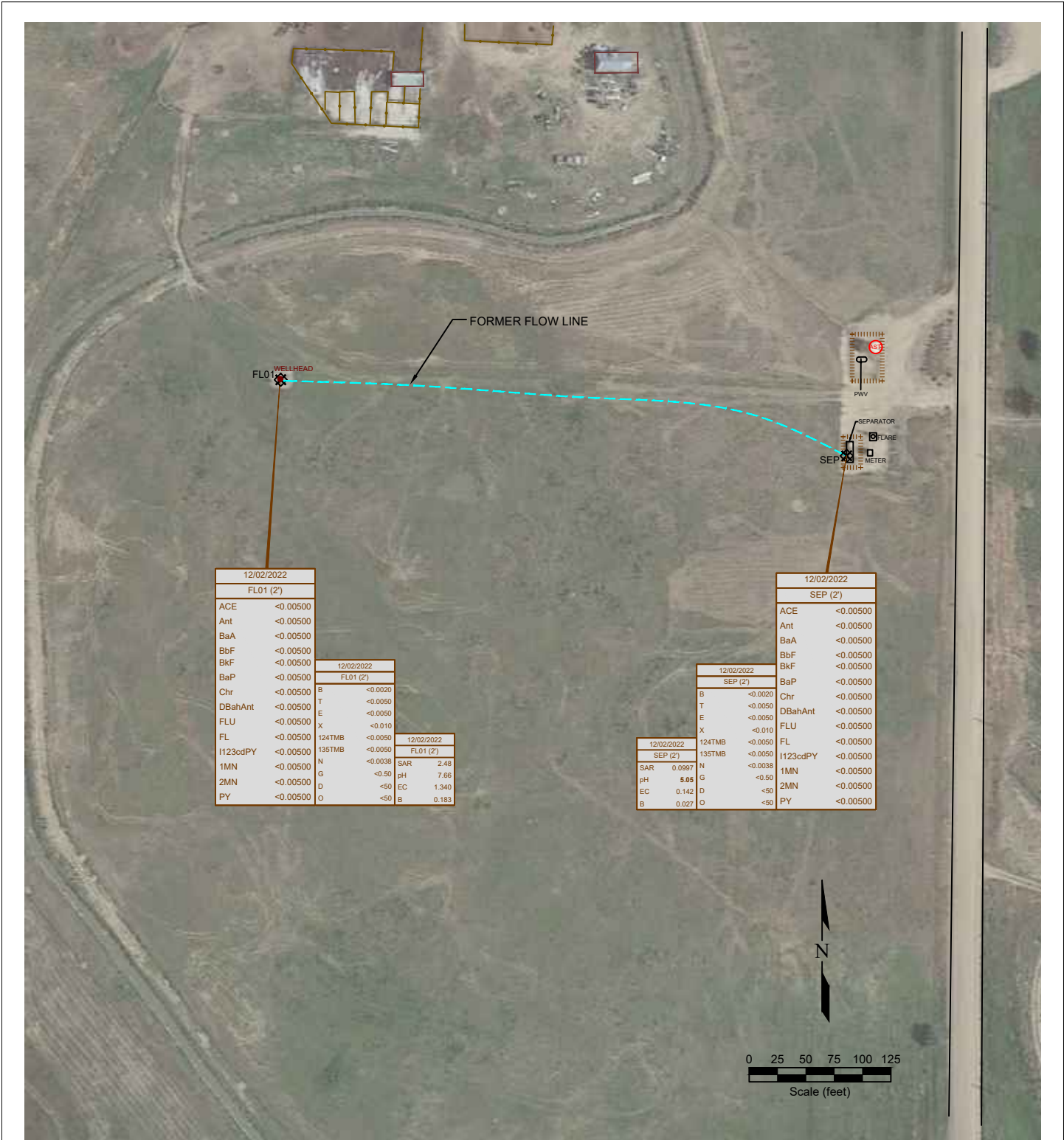
PID PID READING LOCATION IDENTIFICATION
PID PHOTO IONIZATION DETECTION (ppm)

**Figure 2
SITE MAP**

NOBLE ENERGY, INC. ~ NIX 01
 NENE Sec. 28, T2N, R64W, 6th PM
 Weld County, Colorado
 40.288500 °, -104.5%48920d

Project No. C022-197	API # 05-123-11926	Facility #
Date 4/12/23	Remediation # 23426	Filename 22197Q





LEGEND

- WELL HEAD LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- ▭ BUILDING
- ▭ CONTAINMENT BERM
- ▭ FENCE LINE
- ▭ FLOW LINE

11/30/2022	DATE SAMPLED	11/30/2022	DATE SAMPLED	12/02/2022	DATE SAMPLED
FL01 (2')	SAMPLE ID and DEPTH (ft)	FL01 (2')	SAMPLE ID and DEPTH (ft)	SEP (2')	SAMPLE ID & 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	ETHYLBENZENE (mg/kg)	EC	EC (mmhos/cm)
BbF	BENZO (B) FLUORANTHENE (mg/kg)	X	TOTAL XYLENES (mg/kg)	B	BORON (mg/L)
BaP	BENZO (K) FLUORANTHENE (mg/kg)	124TMB	1,2,4-TRIMETHYLBENZENE (mg/kg)		
BkF	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-DRO (mg/kg)		
FLU	FLUORANTHENE (mg/kg)	D	TPH-ORO (mg/kg)		
FL	FLUORENE (mg/kg)	O			
1123cdPY	INDENO (1,2,3-CD) PYRENE (mg/kg)				
1MN	1-METHYLNAPHTHALENE (mg/kg)				
2MN	2-METHYLNAPHTHALENE (mg/kg)				
PY	PYRENE (mg/kg)				

Figure 3
SOIL CHEMISTRY MAP

NOBLE ENERGY, INC. ~ NIX 01
 NENE Sec. 28, T2N, R64W, 6th PM
 Weld County, Colorado
 40.288500 °, -104.5%48920d

Project No. C022-197	API # 05-123-11926	Facility #
Date 4/12/23	Remediation # 23426	Filename 22197Q



Photo Log



Description:

1- Nix 01 flowline riser bellhole following removal; looking E

Photo Log



Description:

2 - Nix 01 flowline following removal, good condition

Photo Log



Description:

3 - Nix 01 separator riser bellhole following removal; looking NE

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 12, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Nix 01

Work Order #2212059

Enclosed are the results of analyses for samples received by Summit Scientific on 12/02/22 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Scott Sheely For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 2ft	2212059-01	Soil	12/02/22 00:00	12/02/22 16:00
AST Cen Surface	2212059-02	Soil	12/02/22 00:00	12/02/22 16:00
PWV N Wall 3 ft	2212059-03	Soil	12/02/22 00:00	12/02/22 16:00
PWV Floor 5ft	2212059-04	Soil	12/02/22 00:00	12/02/22 16:00
SEP 2 ft	2212059-05	Soil	12/02/22 00:00	12/02/22 16:00
BKG 2ft	2212059-06	Soil	12/02/22 00:00	12/02/22 16:00

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

S₂

2212059

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 1

client: Fremont

Project Manager: Hendhan

Address:

E-Mail: Fremont Dist. List

City/State/Zip:

Dill Toi Dan P.

Phone:

Project Name: Noble - Nix 01

Sampler Name: EB

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	NDTEX/TMS	TPH	PAH	SAR/EC/PH		Boron
1	<u>AST CEN SURFACE</u>	<u>12/2/22</u>		<u>2</u>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
2	<u>AST CEN SURFACE</u>																	
3	<u>PWV N WALL 3FT</u>																	
4	<u>PWV REMAIN FLOOR 5FT</u>																	
5	<u>SEP 2FT</u>																	
6	<u>BKG 2FT</u>																	
7																		
8																		
9																		
10																		

Relinquished by: <u>[Signature]</u>	Date/Time: <u>12/2/22 1332</u>	Received by: <u>S2</u>	Date/Time: <u>12/2/22 1332</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> Sample Integrity: Samples Intact: <input checked="" type="checkbox"/> Yes No	Notes:
Relinquished by: <u>S2</u>	Date/Time: <u>12/2/22 1600</u>	Received by: <u>[Signature]</u>	Date/Time: <u>12/2/22 1600</u>		
Temperature Upon Receipt: <u>9.0</u>	Corrected Temperature: <u>[Signature]</u>	HNO3 lot #			
IR gun correction: <u>[Signature]</u>	IR gun #: <u>1</u>				

S₂

Sample Receipt Checklist

S2 Work Order# 22/2059Client: Fremont Client Project ID: Noble-Nix 01Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

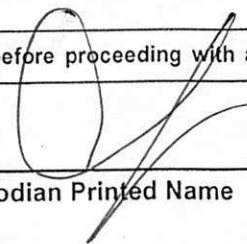
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------------	-------------------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply) Air Soil/Solid Water Other Temp (°C) Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽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"/>	on ice
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 type="checkbox"/>	<input checked="" 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.


Custodian Printed Name

12.2.22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

FL01 2ft
2212059-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFL0099	12/05/22	12/07/22	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: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0538	135 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0382	95.5 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFL0102	12/05/22	12/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	13.2	105 %		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 - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

FL01 2ft
2212059-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0183	12/07/22	12/07/22	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: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0244	73.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0269	80.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.183	0.0100	mg/L	1	BFL0116	12/05/22	12/06/22	EPA 6020B	

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

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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 - Nix 01

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/12/22 14:09

FL01 2ft
2212059-01 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	88.4	0.0550	mg/L dry	1	BFL0119	12/05/22	12/07/22	EPA 6020B	
Magnesium	25.7	0.0550	"	"	"	"	"	"	
Sodium	103	0.0550	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.48	0.00100	units	1	BFL0185	12/07/22	12/07/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.8		%	1	BFL0124	12/05/22	12/06/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.34	0.0100	mmhos/cm	1	BFL0147	12/06/22	12/06/22	EPA 120.1	

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

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.66		pH Units	1	BFL0145	12/06/22	12/06/22	EPA 9045D	

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 - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

AST Cen Surface
2212059-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0099	12/05/22	12/07/22	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: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0472	118 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0401	100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0383	95.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0102	12/05/22	12/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.0	95.9 %	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 - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

AST Cen Surface
2212059-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0183	12/07/22	12/07/22	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: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0183	54.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0231	69.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0602	0.0100	mg/L	1	BFL0116	12/05/22	12/06/22	EPA 6020B	

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

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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 - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

AST Cen Surface
2212059-02 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	29.2	0.0529	mg/L dry	1	BFL0119	12/05/22	12/07/22	EPA 6020B	
Magnesium	4.19	0.0529	"	"	"	"	"	"	
Sodium	2.76	0.0529	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.126	0.00100	units	1	BFL0185	12/07/22	12/07/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.4		%	1	BFL0124	12/05/22	12/06/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.154	0.0100	mmhos/cm	1	BFL0147	12/06/22	12/06/22	EPA 120.1	

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

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25		pH Units	1	BFL0145	12/06/22	12/06/22	EPA 9045D	

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 - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

**PWV N Wall 3 ft
2212059-03 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0099	12/05/22	12/07/22	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: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0510	128 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0387	96.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0396	99.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0102	12/05/22	12/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.4	99.1 %	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 - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

**PWV N Wall 3 ft
2212059-03 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0183	12/07/22	12/08/22	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: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0212	63.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0235	70.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0670	0.0100	mg/L	1	BFL0116	12/05/22	12/06/22	EPA 6020B	

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

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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 - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

**PWV N Wall 3 ft
2212059-03 (Soil)**

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	27.2	0.0532	mg/L dry	1	BFL0119	12/05/22	12/07/22	EPA 6020B	
Magnesium	5.48	0.0532	"	"	"	"	"	"	
Sodium	3.90	0.0532	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 12/02/22 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.179	0.00100	units	1	BFL0185	12/07/22	12/07/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/02/22 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.9		%	1	BFL0124	12/05/22	12/06/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: 12/02/22 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.208	0.0100	mmhos/cm	1	BFL0147	12/06/22	12/06/22	EPA 120.1	

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

Date Sampled: 12/02/22 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BFL0145	12/06/22	12/06/22	EPA 9045D	

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 - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

**PWV Floor 5ft
2212059-04 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0099	12/05/22	12/07/22	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: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0460	115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0393	98.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0102	12/05/22	12/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	12.7	102 %	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 - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

**PWV Floor 5ft
2212059-04 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0183	12/07/22	12/08/22	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: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0187	56.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0227	68.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0727	0.0100	mg/L	1	BFL0116	12/05/22	12/06/22	EPA 6020B	

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

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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 - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

**PWV Floor 5ft
2212059-04 (Soil)**

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	55.7	0.0542	mg/L dry	1	BFL0119	12/05/22	12/07/22	EPA 6020B	
Magnesium	8.74	0.0542	"	"	"	"	"	"	
Sodium	30.6	0.0542	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.01	0.00100	units	1	BFL0185	12/07/22	12/07/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.3		%	1	BFL0124	12/05/22	12/06/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.256	0.0100	mmhos/cm	1	BFL0147	12/06/22	12/06/22	EPA 120.1	

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

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.85		pH Units	1	BFL0145	12/06/22	12/06/22	EPA 9045D	

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 - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

SEP 2 ft
2212059-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0099	12/05/22	12/07/22	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: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0461	115 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0410	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0102	12/05/22	12/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	13.4	107 %	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 - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

SEP 2 ft
2212059-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0183	12/07/22	12/08/22	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: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0233	70.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0259	77.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0270	0.0100	mg/L	1	BFL0116	12/05/22	12/06/22	EPA 6020B	

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

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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 - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

SEP 2 ft
2212059-05 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	15.7	0.0529	mg/L dry	1	BFL0119	12/05/22	12/07/22	EPA 6020B	
Magnesium	4.73	0.0529	"	"	"	"	"	"	
Sodium	1.76	0.0529	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0997	0.00100	units	1	BFL0185	12/07/22	12/07/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.5		%	1	BFL0124	12/05/22	12/06/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.142	0.0100	mmhos/cm	1	BFL0147	12/06/22	12/06/22	EPA 120.1	

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

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	5.05		pH Units	1	BFL0145	12/06/22	12/06/22	EPA 9045D	

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 - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

BKG 2ft
2212059-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.166	0.0100	mg/L	1	BFL0116	12/05/22	12/06/22	EPA 6020B	

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

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	49.7	0.0566	mg/L dry	1	BFL0119	12/05/22	12/07/22	EPA 6020B	
Magnesium	17.3	0.0566	"	"	"	"	"	"	
Sodium	96.2	0.0566	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.00	0.00100	units	1	BFL0185	12/07/22	12/07/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.3		%	1	BFL0124	12/05/22	12/06/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.06	0.0100	mmhos/cm	1	BFL0147	12/06/22	12/06/22	EPA 120.1	

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

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 - Nix 01

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/12/22 14:09

BKG 2ft
2212059-06 (Soil)

Summit Scientific

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

Date Sampled: **12/02/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.87			pH Units	1	BFL0145	12/06/22	12/06/22	EPA 9045D	

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 - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

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 BFL0099 - EPA 5030 Soil MS

Blank (BFL0099-BLK1)

Prepared: 12/05/22 Analyzed: 12/06/22

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	0.0435		"	0.0400		109	50-150			
Surrogate: Toluene-d8	0.0411		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0414		"	0.0400		104	50-150			

LCS (BFL0099-BS1)

Prepared: 12/05/22 Analyzed: 12/07/22

Benzene	0.0717	0.0020	mg/kg	0.0750		95.6	70-130			
Toluene	0.0722	0.0050	"	0.0750		96.2	70-130			
Ethylbenzene	0.0783	0.0050	"	0.0750		104	70-130			
m,p-Xylene	0.149	0.010	"	0.150		99.5	70-130			
o-Xylene	0.0742	0.0050	"	0.0750		98.9	70-130			
1,2,4-Trimethylbenzene	0.0770	0.0050	"	0.0750		103	70-130			
1,3,5-Trimethylbenzene	0.0757	0.0050	"	0.0750		101	70-130			
Naphthalene	0.0684	0.0038	"	0.0750		91.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0400		"	0.0400		99.9	50-150			
Surrogate: Toluene-d8	0.0413		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		96.1	50-150			

Matrix Spike (BFL0099-MS1)

Source: 2212028-01

Prepared: 12/05/22 Analyzed: 12/07/22

Benzene	0.0698	0.0020	mg/kg	0.0750	ND	93.0	70-130			
Toluene	0.0737	0.0050	"	0.0750	ND	98.3	70-130			
Ethylbenzene	0.0741	0.0050	"	0.0750	ND	98.8	70-130			
m,p-Xylene	0.139	0.010	"	0.150	ND	93.0	70-130			
o-Xylene	0.0718	0.0050	"	0.0750	ND	95.8	70-130			
1,2,4-Trimethylbenzene	0.0748	0.0050	"	0.0750	ND	99.8	70-130			
1,3,5-Trimethylbenzene	0.0741	0.0050	"	0.0750	ND	98.8	70-130			
Naphthalene	0.0799	0.0038	"	0.0750	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0466		"	0.0400		116	50-150			
Surrogate: Toluene-d8	0.0409		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0421		"	0.0400		105	50-150			

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 - Nix 01

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/12/22 14:09

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 BFL0099 - EPA 5030 Soil MS

Matrix Spike Dup (BFL0099-MSD1)	Source: 2212028-01			Prepared: 12/05/22 Analyzed: 12/07/22						
Benzene	0.0767	0.0020	mg/kg	0.0750	ND	102	70-130	9.50	30	
Toluene	0.0796	0.0050	"	0.0750	ND	106	70-130	7.59	30	
Ethylbenzene	0.0719	0.0050	"	0.0750	ND	95.9	70-130	2.96	30	
m,p-Xylene	0.139	0.010	"	0.150	ND	92.8	70-130	0.172	30	
o-Xylene	0.0707	0.0050	"	0.0750	ND	94.3	70-130	1.52	30	
1,2,4-Trimethylbenzene	0.0736	0.0050	"	0.0750	ND	98.2	70-130	1.62	30	
1,3,5-Trimethylbenzene	0.0727	0.0050	"	0.0750	ND	96.9	70-130	1.96	30	
Naphthalene	0.0835	0.0038	"	0.0750	ND	111	70-130	4.44	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0535</i>		<i>"</i>	<i>0.0400</i>		<i>134</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0428</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.4</i>	<i>50-150</i>			

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 - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

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 BFL0102 - EPA 3550A

Blank (BFL0102-BLK1)

Prepared & Analyzed: 12/05/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.8		"	12.5	119	30-150					

LCS (BFL0102-BS1)

Prepared & Analyzed: 12/05/22

C10-C28 (DRO)	387	50	mg/kg	500	77.4	70-130					
Surrogate: <i>o</i> -Terphenyl	14.4		"	12.5	116	30-150					

Matrix Spike (BFL0102-MS1)

Source: 2212028-01

Prepared & Analyzed: 12/05/22

C10-C28 (DRO)	380	50	mg/kg	500	7.38	74.6	70-130				
Surrogate: <i>o</i> -Terphenyl	13.3		"	12.5	107	30-150					

Matrix Spike Dup (BFL0102-MSD1)

Source: 2212028-01

Prepared & Analyzed: 12/05/22

C10-C28 (DRO)	387	50	mg/kg	500	7.38	75.9	70-130	1.69	20		
Surrogate: <i>o</i> -Terphenyl	7.91		"	12.5	63.3	30-150					

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 - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFL0183 - EPA 5030 Soil MS

Blank (BFL0183-BLK1)

Prepared & Analyzed: 12/07/22

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>0.0334</i>		<i>"</i>	<i>0.0333</i>	<i>100</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0385</i>		<i>"</i>	<i>0.0333</i>	<i>115</i>	<i>40-150</i>				

LCS (BFL0183-BS1)

Prepared & Analyzed: 12/07/22

Acenaphthene	0.0334	0.00500	mg/kg	0.0333	100	31-137
Anthracene	0.0333	0.00500	"	0.0333	99.9	30-120
Benzo (a) anthracene	0.0325	0.00500	"	0.0333	97.4	30-120
Benzo (a) pyrene	0.0322	0.00500	"	0.0333	96.7	30-120
Benzo (b) fluoranthene	0.0326	0.00500	"	0.0333	97.7	30-120
Benzo (k) fluoranthene	0.0334	0.00500	"	0.0333	100	30-120
Chrysene	0.0347	0.00500	"	0.0333	104	30-120
Dibenz (a,h) anthracene	0.0273	0.00500	"	0.0333	81.9	30-120
Fluoranthene	0.0342	0.00500	"	0.0333	103	30-120
Fluorene	0.0336	0.00500	"	0.0333	101	30-120
Indeno (1,2,3-cd) pyrene	0.0309	0.00500	"	0.0333	92.6	30-120
Pyrene	0.0321	0.00500	"	0.0333	96.2	35-142
1-Methylnaphthalene	0.0348	0.00500	"	0.0333	104	35-142
2-Methylnaphthalene	0.0360	0.00500	"	0.0333	108	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0351</i>		<i>"</i>	<i>0.0333</i>	<i>105</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0370</i>		<i>"</i>	<i>0.0333</i>	<i>111</i>	<i>40-150</i>

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 - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

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 BFL0183 - EPA 5030 Soil MS

Matrix Spike (BFL0183-MS1)

Source: 2212058-01

Prepared & Analyzed: 12/07/22

Acenaphthene	0.0220	0.00500	mg/kg	0.0333	ND	66.0	31-137			
Anthracene	0.0211	0.00500	"	0.0333	ND	63.3	30-120			
Benzo (a) anthracene	0.0211	0.00500	"	0.0333	ND	63.3	30-120			
Benzo (a) pyrene	0.0199	0.00500	"	0.0333	ND	59.6	30-120			
Benzo (b) fluoranthene	0.0197	0.00500	"	0.0333	ND	59.2	30-120			
Benzo (k) fluoranthene	0.0209	0.00500	"	0.0333	ND	62.7	30-120			
Chrysene	0.0227	0.00500	"	0.0333	0.00674	47.9	30-120			
Dibenz (a,h) anthracene	0.0198	0.00500	"	0.0333	ND	59.5	30-120			
Fluoranthene	0.0209	0.00500	"	0.0333	ND	62.7	30-120			
Fluorene	0.0212	0.00500	"	0.0333	ND	63.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0209	0.00500	"	0.0333	ND	62.6	30-120			
Pyrene	0.0239	0.00500	"	0.0333	0.00160	66.9	35-142			
1-Methylnaphthalene	0.0199	0.00500	"	0.0333	ND	59.8	15-130			
2-Methylnaphthalene	0.0208	0.00500	"	0.0333	ND	62.3	15-130			
Surrogate: 2-Methylnaphthalene-d10	0.0202		"	0.0333		60.7	40-150			
Surrogate: Fluoranthene-d10	0.0215		"	0.0333		64.4	40-150			

Matrix Spike Dup (BFL0183-MSD1)

Source: 2212058-01

Prepared & Analyzed: 12/07/22

Acenaphthene	0.0237	0.00500	mg/kg	0.0333	ND	71.2	31-137	7.67	30
Anthracene	0.0235	0.00500	"	0.0333	ND	70.6	30-120	10.9	30
Benzo (a) anthracene	0.0237	0.00500	"	0.0333	ND	71.2	30-120	11.7	30
Benzo (a) pyrene	0.0211	0.00500	"	0.0333	ND	63.4	30-120	6.16	30
Benzo (b) fluoranthene	0.0214	0.00500	"	0.0333	ND	64.3	30-120	8.37	30
Benzo (k) fluoranthene	0.0222	0.00500	"	0.0333	ND	66.6	30-120	6.06	30
Chrysene	0.0251	0.00500	"	0.0333	0.00674	55.0	30-120	9.90	30
Dibenz (a,h) anthracene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	12.1	30
Fluoranthene	0.0253	0.00500	"	0.0333	ND	76.0	30-120	19.2	30
Fluorene	0.0238	0.00500	"	0.0333	ND	71.4	30-120	11.4	30
Indeno (1,2,3-cd) pyrene	0.0194	0.00500	"	0.0333	ND	58.2	30-120	7.18	30
Pyrene	0.0215	0.00500	"	0.0333	0.00160	59.6	35-142	10.7	30
1-Methylnaphthalene	0.0209	0.00500	"	0.0333	ND	62.6	15-130	4.57	50
2-Methylnaphthalene	0.0212	0.00500	"	0.0333	ND	63.6	15-130	2.15	50
Surrogate: 2-Methylnaphthalene-d10	0.0195		"	0.0333		58.6	40-150		
Surrogate: Fluoranthene-d10	0.0264		"	0.0333		79.2	40-150		

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 - Nix 01

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/12/22 14:09

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

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

Batch BFL0116 - EPA 3050B

Blank (BFL0116-BLK1)

Prepared: 12/05/22 Analyzed: 12/06/22

Boron ND 0.0100 mg/L

LCS (BFL0116-BS1)

Prepared: 12/05/22 Analyzed: 12/06/22

Boron 4.23 0.0100 mg/L 5.00 84.6 80-120

Duplicate (BFL0116-DUP1)

Source: 2212053-01

Prepared: 12/05/22 Analyzed: 12/06/22

Boron 0.0656 0.0100 mg/L 0.0735 11.4 20

Matrix Spike (BFL0116-MS1)

Source: 2212053-01

Prepared: 12/05/22 Analyzed: 12/06/22

Boron 3.89 0.0100 mg/L 5.00 0.0735 76.4 75-125

Matrix Spike Dup (BFL0116-MSD1)

Source: 2212053-01

Prepared: 12/05/22 Analyzed: 12/06/22

Boron 3.90 0.0100 mg/L 5.00 0.0735 76.6 75-125 0.249 25

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 - Nix 01

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/12/22 14:09

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

Summit Scientific

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

Batch BFL0119 - General Preparation

Blank (BFL0119-BLK1)

Prepared: 12/05/22 Analyzed: 12/07/22

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

LCS (BFL0119-BS1)

Prepared: 12/05/22 Analyzed: 12/07/22

Calcium	3.95	0.0500	mg/L wet	5.00	79.0	70-130
Magnesium	4.10	0.0500	"	5.00	82.0	70-130
Sodium	3.91	0.0500	"	5.00	78.2	70-130

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 - Nix 01

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/12/22 14:09

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

Summit Scientific

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

Batch BFL0124 - General Preparation

Duplicate (BFL0124-DUP1)

Source: 2212055-01

Prepared: 12/05/22 Analyzed: 12/06/22

% Solids	91.5		%		89.8			1.90	20	
----------	------	--	---	--	------	--	--	------	----	--

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 - Nix 01

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/12/22 14:09

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 BFL0147 - General Preparation

Blank (BFL0147-BLK1)

Prepared & Analyzed: 12/06/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFL0147-BS1)

Prepared & Analyzed: 12/06/22

Specific Conductance (EC) 0.144 0.0100 mmhos/cm 0.150 96.0 95-105

Duplicate (BFL0147-DUP1)

Source: 2212056-01

Prepared & Analyzed: 12/06/22

Specific Conductance (EC) 0.359 0.0100 mmhos/cm 0.358 0.446 20

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 - Nix 01

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/12/22 14:09

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

Summit Scientific

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

Batch BFL0145 - General Preparation

LCS (BFL0145-BS1)

Prepared & Analyzed: 12/06/22

pH 9.17 pH Units 9.18 99.9 95-105

Duplicate (BFL0145-DUP1)

Source: 2212055-01

Prepared & Analyzed: 12/06/22

pH 6.38 pH Units 6.16 3.51 20

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 - Nix 01

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 14:09

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