

FREMONT ENVIRONMENTAL INC.

February 5, 2024

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

Subject: **Flowline Closure Data Submittal**
Furrow USX AB 15-99HZ
API # 05-123-31249
SESE Sec. 15, T7N, R64W
Weld County, Colorado
Fremont Project No. C024-009
Facility ID #416066, Remediation #30076

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted Flowline Closure activities for the Noble Energy Inc. (Noble) Furrow USX AB 15-99HZ. Impacted soil was not encountered during abandonment activities. Details of the Furrow USX AB 15-99HZ flowline closure activities are documented in the attached Closure Report. Groundwater was not encountered during flowline abandonment activities.

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

Sincerely,

FREMONT ENVIRONMENTAL INC.



Paul V. Henchan, P.E.
Senior Consultant

Attachments:

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

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

Flowline Closure Checklist

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

Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: Furrow USX T7N-R64W-S15 L02 Facility: 416214		Date: 01/12/2024						Remediation Project #: 30076
Associated Wells: Furrow USX AB 15-99HZ Facility ID: 416066 API: 05-123-31249		Age of Site: 2010						Number of Photos Attached: 13 Photos
Starting point: (GPS coordinates and descriptions) 40.5683527, -104.5270946								
End point: (GPS coordinates and descriptions) 40.5663081, -104.5267533								
USCS Soil Type: SW					Estimated Depth to Groundwater: N/A			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
None observed								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
None observed								
Flowlines								
Flowline type	Multi Phase							
Depth	Roughly 3-4ft							
Age	2010							
Length	761ft							
Construction Material	BLK Non-ACM TGF 3" Steel							
Were flowlines pulled?	Abandoned-in-Place							
Visual Integrity of lines	No Damage							
Visual impacts if trenched	N/A							
PID Readings if trenched	N/A							
Sample taken? Location/Sample ID#	99FL01@5.0' 99FL02@4.0' PJPB01@5.0' PJPB01@4.0'							
Photo Number(s)	Photo 1A-1B, 2A-2E & 3A-3F							
Other observations regarding on loction flowlines: Exceedances in pH and arsenic were discovered at the wellhead tie-in (99FL01@5.0'), separator tie-in (99FL02@4.0'), floor of the pumpjack pit vault excavation (PJPB01@5.0') and north sidewall of the pumpjack pit vault excavation (PJPB01@4.0'). Exceedances in barium were discovered at both the wellhead tie-in (99FL01@5.0') and separator tie-in (99FL02@4.0'). Refer to the inorganic soil chemistry table (Table 3) and metals in soil chemistry table (Table 4) for reference. Additionally, exceedances in pH and barium were discovered in several background samples, and arsenic was found exceeding in all background samples. Thus, these exceedance should be contributed to native soils.								
Summary								
Was impacted soil identified? No Yes - less than 10 cubic yards Yes - more than 10 cubic yards								
Total number of samples field screened: 3 samples					Total number of samples collected: 23 samples			
Highest PID Reading: High @ 7.1ppm (99FL01@5.0')					Total number of samples submitted to lab for analysis: 20 Samples			
If more than 10 cubic yards of impacted soil were observed:								
Vertical extent: N/A					Estimated spill volume: N/A			
Lateral extent: N/A					Volume of soil removed: N/A			
Is additional investigation required? N/A								
Was groundwater encountered during the investigation? No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils								
Measured depth to groundwater: N/A					Was remedial groundwater removal conducted? Yes No			
Date Groundwater was encountered: N/A					Commencement date of removal: N/A			
Sheen on groundwater? Yes No					Volume of groundwater removed prior to sampling: N/A			
Free product observed? Yes No					Volume of groundwater removed post sampling: N/A			
Total number of samples collected: N/A					Total Volume of groundwater removed: N/A			
Total number of samples submitted to lab for analysis: N/A								

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
FURROW USX AB 15-99HZ, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C024-009

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**		
99FL01@5.0'	1/12/2024	5.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	67	<50
99FL02@4.0'	1/12/2024	4.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PJPB01@5.0'	1/19/2024	5.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PJPN01@4.0'	1/19/2024	4.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the ECMC Table 915-1 concentrations

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

Green highlighted cells indicate soil removed via excavation

* Indicates laboratory minimum detection limit in excess of SSL

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

NA - Not analyzed

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
FURROW USX AB 15-99HZ, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C024-009

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
99FL01@5.0'	1/12/2024	5.0 Ft	<0.00500	<0.00500	0.00646	0.0288	0.0359	0.00851	0.0231	0.00507	0.0547	<0.00500	0.0234	0.0694	<0.00500	<0.00500
99FL02@4.0'	1/12/2024	4.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PJPB01@5.0'	1/19/2024	5.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PJPN01@4.0'	1/19/2024	4.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the ECMC Table 915-1 concentrations
Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)
* Indicates laboratory minimum detection limit in excess of SSL
NA - Not analyzed
Green highlighted cells indicate soil removed via excavation

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
FURROW USX AB 15-99HZ, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C024-009

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
Max. Background Concentration (or Concentration Range)			9.48	-	-	-
99FL01@5.0'	1/12/2024	5.0 Ft	8.76	0.117	0.161	<2.00
99FL02@4.0'	1/12/2024	4.0 Ft	8.66	0.116	0.191	<2.00
PJPB01@5.0'	1/19/2024	5.0 Ft	8.99	0.166	0.374	<2.00
PJPN01@4.0'	1/19/2024	4.0 Ft	8.97	0.120	0.132	<2.00
BKG01@6.0"	1/19/2024	0.5 Ft	7.06	0.0367	0.0231	<2.00
BKG01@4.0'	1/19/2024	4.0 Ft	7.90	0.0673	0.130	<2.00
BKG01@5.0'	1/19/2024	5.0 Ft	8.15	0.262	1.35	<2.00
BKG02@6.0"	1/19/2024	0.5 Ft	7.12	0.0334	0.0286	<2.00
BKG02@4.0'	1/19/2024	4.0 Ft	9.27	0.164	0.815	<2.00
BKG02@5.0'	1/19/2024	5.0 Ft	8.68	0.126	0.741	<2.00
BKG03@6.0"	1/19/2024	0.5 Ft	6.23	0.0480	0.0351	<2.00
BKG03@4.0'	1/19/2024	4.0 Ft	8.73	0.621	4.32	<2.00
BKG03@5.0'	1/19/2024	5.0 Ft	9.16	0.458	5.84	<2.00
BKG04@6.0"	1/19/2024	0.5 Ft	8.77	0.0556	0.0501	<2.00
BKG04@4.0'	1/19/2024	4.0 Ft	8.82	0.0892	0.0519	<2.00
BKG04@5.0'	1/19/2024	5.0 Ft	8.91	0.0854	0.0909	<2.00
BKG05@6.0"	1/19/2024	0.5 Ft	7.56	0.0428	0.142	<2.00
BKG05@4.0'	1/19/2024	4.0 Ft	9.48	0.375	0.845	<2.00
BKG05@5.0'	1/19/2024	5.0 Ft	8.91	0.997	6.33	<2.00
99BKG06@5.0'	1/12/2024	5.0 Ft	9.31	0.142	0.491	<2.00

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

Green highlighted cells indicate soil removed via excavation

Orange highlighted cells exceed of the maximum background concentration, or concentration range

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

NA - Not analyzed

Local Background Samples (BKG01, BKG02, BKG03, BKG04, BKG05, BKG06)

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
FURROW USX AB 15-99HZ, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C024-009

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
125% Max. Background Concentration			8.52	217	-	-	-	-	-	-	-	-
99FL01@5.0'	1/12/2024	5.0 Ft	2.42	207	<0.200	<0.30	3.63	4.06	2.91	<0.260	<0.0200	10.6
99FL02@4.0'	1/12/2024	4.0 Ft	2.34	85.1	<0.200	<0.30	4.63	8.12	3.01	<0.260	0.0395	18.8
PJPB01@5.0'	1/19/2024	5.0 Ft	2.35	45.2	<0.200	<0.30	2.90	5.45	2.89	<0.260	<0.0200	11.6
PJPN01@4.0'	1/19/2024	4.0 Ft	2.43	27.5	<0.200	<0.30	2.46	4.12	2.79	<0.260	<0.0200	10.2
BKG01@6.0"	1/19/2024	0.5 Ft	1.63	39.4	<0.200	<0.30	2.73	4.97	2.48	<0.260	<0.0200	11.3
BKG01@4.0'	1/19/2024	4.0 Ft	6.82	90.5	0.573	<0.30	9.49	16.5	6.38	0.471	0.0852	24.5
BKG01@5.0'	1/19/2024	5.0 Ft	5.36	108	0.749	<0.30	6.29	16.0	7.79	0.555	0.103	19.2
BKG02@6.0"	1/19/2024	0.5 Ft	2.52	46.2	0.259	<0.30	4.19	9.08	3.41	<0.260	0.0330	16.5
BKG02@4.0'	1/19/2024	4.0 Ft	3.60	54.7	0.262	<0.30	6.59	10.5	6.15	<0.260	0.0436	27.7
BKG02@5.0'	1/19/2024	5.0 Ft	3.53	58.0	0.274	<0.30	6.05	9.80	4.04	<0.260	0.0423	21.0
BKG03@6.0"	1/19/2024	0.5 Ft	1.91	26.6	<0.200	<0.30	3.58	6.43	2.88	<0.260	0.0246	13.6
BKG03@4.0'	1/19/2024	4.0 Ft	6.21	101	0.409	<0.30	9.31	15.2	6.92	0.388	0.0451	31.5
BKG03@5.0'	1/19/2024	5.0 Ft	2.25	86.8	0.287	<0.30	11.4	13.7	4.76	<0.260	0.0586	20.7
BKG04@6.0"	1/19/2024	0.5 Ft	3.69	77.4	0.274	<0.30	4.97	8.79	5.66	<0.260	0.0362	19.7
BKG04@4.0'	1/19/2024	4.0 Ft	2.81	63.1	<0.200	<0.30	3.47	4.94	3.44	<0.260	0.0246	12.1
BKG04@5.0'	1/19/2024	5.0 Ft	2.19	174	<0.200	<0.30	2.72	4.45	3.00	<0.260	<0.0200	11.5
BKG05@6.0"	1/19/2024	0.5 Ft	2.81	51.5	0.233	<0.30	4.40	7.86	4.54	<0.260	0.0406	16.7
BKG05@4.0'	1/19/2024	4.0 Ft	3.17	48.4	<0.200	<0.30	3.68	5.30	3.77	<0.260	<0.0200	12.9
BKG05@5.0'	1/19/2024	5.0 Ft	3.24	65.4	0.202	<0.30	3.63	5.51	3.80	0.328	0.0265	13.4
99BKG06@5.0'	1/12/204	5.0 Ft	2.50	38.6	<2.00	<0.30	2.75	4.89	3.18	<0.260	<0.0200	12.2

Bold faced values exceed the ECMC Table 915-1 concentrations

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

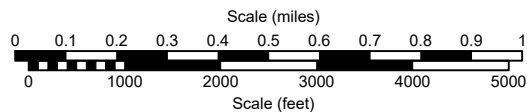
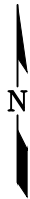
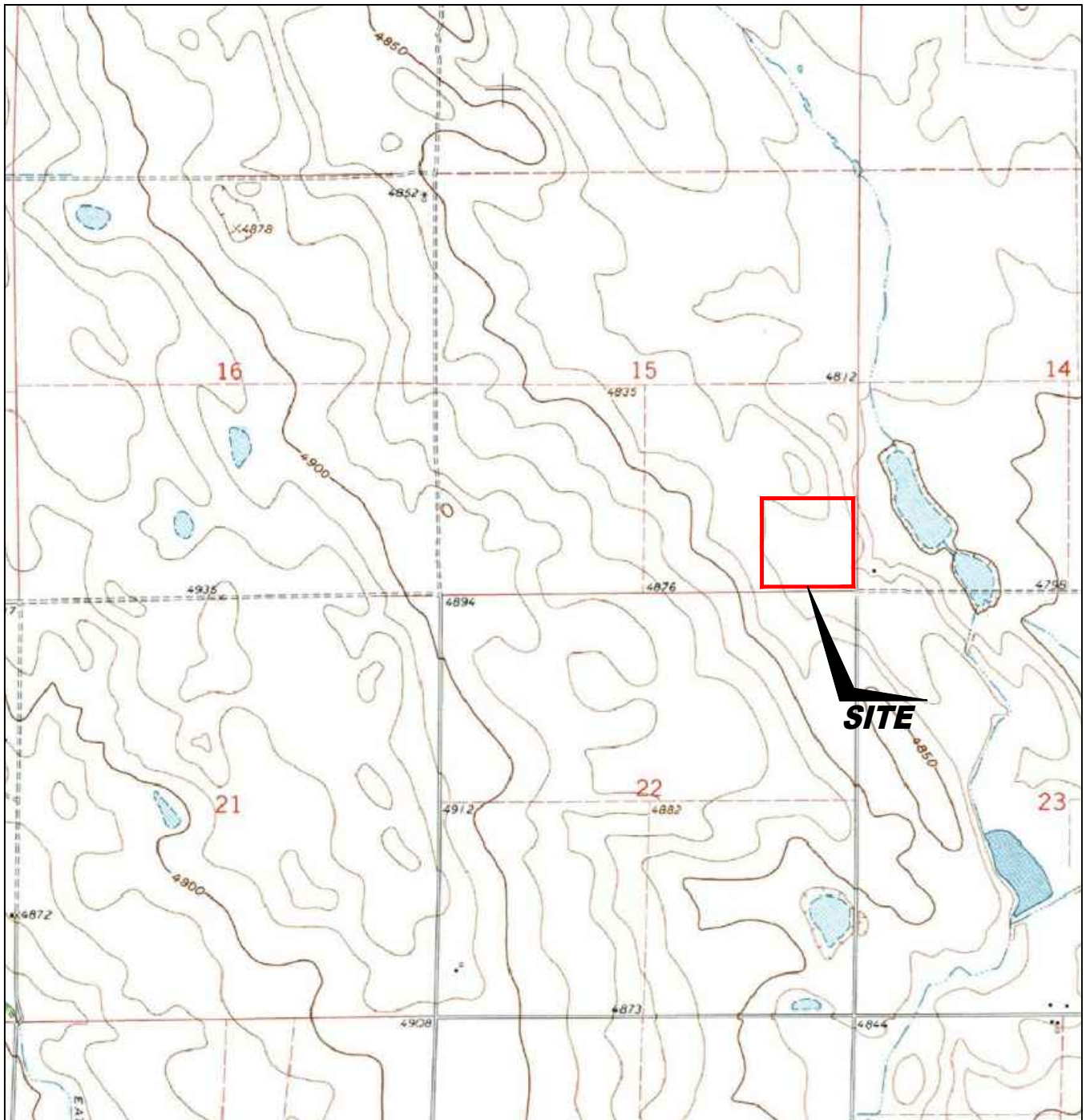
Orange highlighted cells exceed 125% of the maximum background concentration

* Indicates laboratory minimum detection limit in excess of SSL

Green highlighted cells indicate soil removed via excavation

NA - Not analyzed

Local Background Samples (BKG01, BKG02, BKG03, BKG04, BKG05, BKG06)



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1


SITE LOCATION MAP

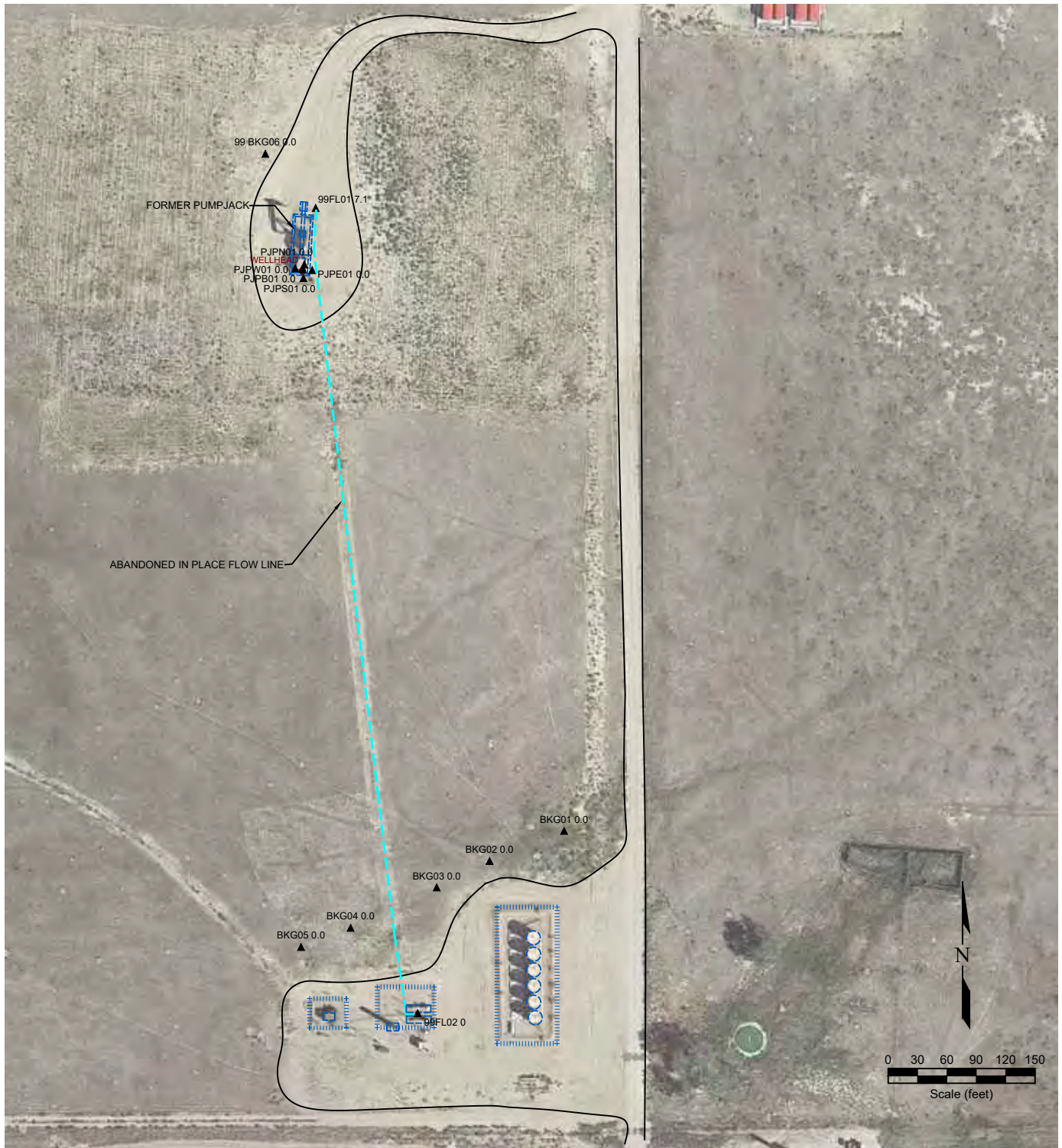
NOBLE ENERGY INC ~ FURROW USX AB15-99HZ

SESE Sec. 15, T7N, R64W, 6th PM

Weld County, Colorado

40.568360°, -104.527110°

Project # C024-009	API # 123-31249	Facility #	
Date 5/21/24	Remediation # 30076	Filename 24009T	



LEGEND

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

SAMPLE ID	SAMPLE ID
DATE	DATE
DEPTH	DEPTH
ACE	ACENAPHTHENE (mg/kg)
ANT	ANTHRACENE (mg/kg)
BaA	BENZO (A) ANTHRACENE (mg/kg)
BbF	BENZO (B) FLUORANTHENE (mg/kg)
BkF	BENZO (K) FLUORANTHENE (mg/kg)
Chr	CHRYSENE (mg/kg)
DibAht	DIBENZ (A,H) ANTHRACENE (mg/kg)
FLU	FLUORANTHENE (mg/kg)
FL	FLUORENE (mg/kg)
123456789	1,2,3,4,5,6,7,8,9-PYRENE (mg/kg)
PI	PYRENE (mg/kg)
1MN	1-METHYLNAPHTHALENE (mg/kg)
2MN	2-METHYLNAPHTHALENE (mg/kg)

SAMPLE	SAMPLE ID
DATE	DATE
DEPTH	DEPTH
B	BENZENE (mg/kg)
E	ETHYLBENZENE (mg/kg)
X	TOTAL XYLENES (mg/kg)
124TMB	1,2,4-TRIMETHYLBENZENE (mg/kg)
135TMB	1,3,5-TRIMETHYLBENZENE (mg/kg)
N	NAPHTHALENE (mg/kg)
G	TPH-GRO (mg/kg)
D	TPH-DRO (mg/kg)
O	TPH-ORO (mg/kg)

SAMPLE	SAMPLE ID
DATE	DATE
DEPTH	DEPTH
As	ARSENIC (mg/kg)
Ba	BARIIUM (mg/kg)
CD	CADMIUM (mg/kg)
CR(VI)	CHROMIUM (mg/kg)
CU	COPPER (mg/kg)
FS	LEAD (mg/kg)
NI	NICKEL (mg/kg)
SE	SELENIUM (mg/kg)
AG	SILVER (mg/kg)
Z	ZINC (mg/kg)

SAMPLE	SAMPLE ID
DATE	DATE
DEPTH	DEPTH
EC	EC (mmhos/cm)
pH	pH (unitless)
SAR	SAR (unitless)
B	BORON (mg/L)

Figure 2
SITE MAP

NOBLE ENERGY INC ~ FURROW USX AB15-99HZ

SESE Sec. 15, T7N, R64W, 6th PM
Weld County, Colorado
40.568360°, -104.527110°

Project No. C024-009	API # 05-123-31249	Facility #
Date 5/29/24	Remediation # 30076	Filename 24009Q



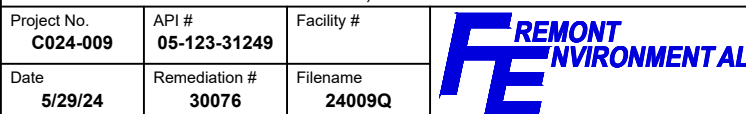


Photo Log



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Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

February 05, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

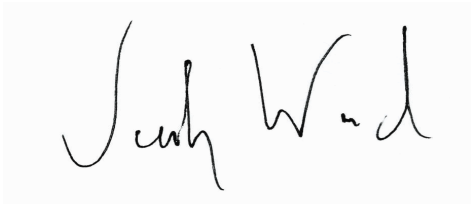
Wellington, CO 80549

RE: Noble - Furrow USX AB 15-99Hz

Work Order #2401330

Enclosed are the results of analyses for samples received by Summit Scientific on 01/19/24 14:01. 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 - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
99FL01@5.0'	2401330-01	Soil	01/12/24 00:00	01/19/24 14:01
99FL02@4.0'	2401330-02	Soil	01/12/24 00:00	01/19/24 14:01
PJPB01@5.0'	2401330-03	Soil	01/12/24 00:00	01/19/24 14:01
PJPN01@4.0'	2401330-04	Soil	01/12/24 00:00	01/19/24 14:01

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

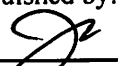

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2401330	

Client: Fremont Env		Send Data To:		Send Invoice To:	
Address:		Project Manager: Paul Henahan		Company: Noble	
City/State/Zip:		E-Mail: Paulh@Fremontenv.com		Project Name/Location: Furrow USX AB 15-99HZ	
Phone:		jeffg@Fremontenv.com Ethank@Fremontenv.com		AFE#:	
Sampler Name: JG		Project Name: Furrow USX AB 15-99HZ		PO/Billing Codes: UWRWE-A2542-ABN	
		Project Number:		Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBs (915)	DRO,ORO,GRO	PAHs (915)	EC,PT,SAR, Bdon	Metals (915)			
1	99FL01@5.0'	01/12/24		2			X			X			X	X	X	X	X	X			
2	99FL02@4.0'	01/12/24		1			↓			↓			↓	↓	↓	↓	↓	↓			
3	PJPB01@5.0'	01/19/24		↓			↓			↓			↓	↓	↓	↓	↓	↓			
4	PJPN01@4.0'	01/19/24		↓						↓			↓	↓	↓	↓	↓	↓			
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					

Relinquished by: 	Date/Time: 01/19/24	Received by: 	Date/Time: 1/19/24 14:01	TAT Business Days	Field DO	Notes: Bill to Noble
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 5.4	Corrected Temperature	IR gun #: 2	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2401330Client: Fremont Client Project ID: Furrow USX AB 15-99HZShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 5.8Thermometer # 2

	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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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.

Mikayla Axtell

Custodian Printed Name

1/19/24 14:01

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

99FL01@5.0'
2401330-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BHA0722	01/22/24	01/23/24	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: **01/12/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0423	106 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0392	98.1 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0388	97.1 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	67	50		mg/kg	1	BHA0723	01/22/24	01/23/24	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.42	59.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

99FL01@5.0'
2401330-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0752	01/22/24	01/23/24	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0288	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0359	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.00851	0.00500	"	"	"	"	"	"	
Chrysene	0.0231	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	0.00507	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0547	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	0.0234	0.00500	"	"	"	"	"	"	
Pyrene	0.0694	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0515	155 %	40-150		"	"	"	"	S-02
Surrogate: Fluoranthene-d10	0.0288	86.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0771	01/23/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.42	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

99FL01@5.0'
2401330-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Barium	207	0.400	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	3.63	0.400	"	"	"	"	"	"
Lead	4.06	0.200	"	"	"	"	"	"
Nickel	2.91	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	10.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0748	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.0	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	5.32	0.0500	"	"	"	"	"	"	
Sodium	3.73	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.161	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

99FL01@5.0'
2401330-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	93.6	%	1	BHA0717	01/22/24	01/23/24	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.117	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.76		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

Summit Scientific

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Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

99FL01@5.0'
2401330-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzo (a) anthracene	0.00646	0.00500	mg/kg	1	BHA1096	01/22/24	01/31/24	EPA 8270D SIM	

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0182	54.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0195	58.4 %	40-150		"	"	"	"	

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

99FL02@4.0'
2401330-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHA0722	01/22/24	01/23/24	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: **01/12/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0430	107 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0400	99.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0382	95.6 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0723	01/22/24	01/23/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.01	56.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

99FL02@4.0'
2401330-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0752	01/22/24	01/23/24	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: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0228	68.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0261	78.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0771	01/23/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

99FL02@4.0'
2401330-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.34	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B
Barium	85.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	4.63	0.400	"	"	"	"	"	"
Lead	8.12	0.200	"	"	"	"	"	"
Nickel	3.01	0.400	"	"	"	"	"	"
Silver	0.0395	0.0200	"	"	"	"	"	"
Zinc	18.8	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0748	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	34.2	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	11.1	0.0500	"	"	"	"	"	"	
Sodium	5.02	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.191	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

99FL02@4.0'
2401330-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.0		%	1	BHA0717	01/22/24	01/23/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.116	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.66		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

PJPB01@5.0'
2401330-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHA0722	01/22/24	01/23/24	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: **01/12/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0410	102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0383	95.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0403	101 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0723	01/22/24	01/23/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.23	57.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

PJPB01@5.0'
2401330-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0752	01/22/24	01/23/24	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: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0294	88.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0320	96.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0771	01/23/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

PJPB01@5.0'
2401330-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.35	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B
Barium	45.2	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.90	0.400	"	"	"	"	"	"
Lead	5.45	0.200	"	"	"	"	"	"
Nickel	2.89	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	11.6	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0748	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	41.9	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	6.52	0.0500	"	"	"	"	"	"	
Sodium	9.86	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.374	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

PJPB01@5.0'
2401330-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	93.8			%	1	BHA0717	01/22/24	01/23/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	0.166	0.0100		mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.99			pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

PJPN01@4.0'
2401330-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BHA0722	01/22/24	01/23/24	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: **01/12/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0426	106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0406	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0365	91.4 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BHA0723	01/22/24	01/23/24	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	6.79	54.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

PJPN01@4.0'
2401330-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BHA0752	01/22/24	01/23/24	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: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0194	58.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0236	70.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BHA0771	01/23/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

PJPN01@4.0'
2401330-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.43	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B
Barium	27.5	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.46	0.400	"	"	"	"	"	"
Lead	4.12	0.200	"	"	"	"	"	"
Nickel	2.79	0.400	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	10.2	0.400	"	"	"	"	"	"
Selenium	ND	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0748	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	38.3	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	7.02	0.0500	"	"	"	"	"	"	
Sodium	3.38	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.132	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

PJPN01@4.0'
2401330-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.3		%	1	BHA0717	01/22/24	01/23/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.120	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.97		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

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 BHA0722 - EPA 5030 Soil MS

Blank (BHA0722-BLK1)

Prepared & Analyzed: 01/22/24

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	0.0356		"	0.0400		89.0	50-150			
Surrogate: Toluene-d8	0.0382		"	0.0400		95.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	50-150			

LCS (BHA0722-BS1)

Prepared & Analyzed: 01/22/24

Benzene	0.157	0.0020	mg/kg	0.150		105	70-130			
Toluene	0.151	0.0050	"	0.150		101	70-130			
Ethylbenzene	0.152	0.0050	"	0.150		101	70-130			
m,p-Xylene	0.303	0.010	"	0.300		101	70-130			
o-Xylene	0.150	0.0050	"	0.150		99.8	70-130			
1,2,4-Trimethylbenzene	0.148	0.0050	"	0.150		98.4	70-130			
1,3,5-Trimethylbenzene	0.151	0.0050	"	0.150		101	70-130			
Naphthalene	0.138	0.0038	"	0.150		91.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0409		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0421		"	0.0400		105	50-150			

Matrix Spike (BHA0722-MS1)

Source: 2401283-01

Prepared & Analyzed: 01/22/24

Benzene	0.141	0.0020	mg/kg	0.150	ND	93.9	70-130			
Toluene	0.136	0.0050	"	0.150	ND	90.5	70-130			
Ethylbenzene	0.128	0.0050	"	0.150	ND	85.4	70-130			
m,p-Xylene	0.253	0.010	"	0.300	ND	84.4	70-130			
o-Xylene	0.128	0.0050	"	0.150	ND	85.0	70-130			
1,2,4-Trimethylbenzene	0.119	0.0050	"	0.150	ND	79.5	70-130			
1,3,5-Trimethylbenzene	0.118	0.0050	"	0.150	ND	78.8	70-130			
Naphthalene	0.122	0.0038	"	0.150	ND	81.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0428		"	0.0400		107	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0414		"	0.0400		104	50-150			

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Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

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 BHA0722 - EPA 5030 Soil MS

Matrix Spike Dup (BHA0722-MSD1)	Source: 2401283-01			Prepared & Analyzed: 01/22/24						
Benzene	0.127	0.0020	mg/kg	0.150	ND	84.9	70-130	10.1	30	
Toluene	0.120	0.0050	"	0.150	ND	80.0	70-130	12.4	30	
Ethylbenzene	0.117	0.0050	"	0.150	ND	78.0	70-130	9.06	30	
m,p-Xylene	0.230	0.010	"	0.300	ND	76.7	70-130	9.54	30	
o-Xylene	0.117	0.0050	"	0.150	ND	77.9	70-130	8.71	30	
1,2,4-Trimethylbenzene	0.109	0.0050	"	0.150	ND	72.4	70-130	9.45	30	
1,3,5-Trimethylbenzene	0.106	0.0050	"	0.150	ND	70.6	70-130	11.0	30	
Naphthalene	0.116	0.0038	"	0.150	ND	77.1	70-130	5.28	30	
Surrogate: 1,2-Dichloroethane-d4	0.0419		"	0.0400		105	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0430		"	0.0400		107	50-150			

Summit Scientific

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

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 BHA0723 - EPA 3550A

Blank (BHA0723-BLK1)

Prepared & Analyzed: 01/22/24

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	9.70		"	12.5		77.6	30-150			

LCS (BHA0723-BS1)

Prepared & Analyzed: 01/22/24

C10-C28 (DRO)	471	50	mg/kg	500		94.2	70-130			
Surrogate: o-Terphenyl	9.11		"	12.5		72.9	30-150			

Matrix Spike (BHA0723-MS1)

Source: 2401283-01

Prepared & Analyzed: 01/22/24

C10-C28 (DRO)	431	50	mg/kg	500	12.1	83.8	70-130			
Surrogate: o-Terphenyl	9.17		"	12.5		73.3	30-150			

Matrix Spike Dup (BHA0723-MSD1)

Source: 2401283-01

Prepared & Analyzed: 01/22/24

C10-C28 (DRO)	381	50	mg/kg	500	12.1	73.7	70-130	12.5	20	
Surrogate: o-Terphenyl	7.93		"	12.5		63.4	30-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

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 BHA0752 - EPA 5030 Soil MS

Blank (BHA0752-BLK1)

Prepared: 01/22/24 Analyzed: 01/23/24

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	0.0290		"	0.0333		87.1	40-150			
Surrogate: Fluoranthene-d10	0.0371		"	0.0333		111	40-150			

LCS (BHA0752-BS1)

Prepared: 01/22/24 Analyzed: 01/23/24

Acenaphthene	0.0384	0.00500	mg/kg	0.0333	115	31-137
Anthracene	0.0376	0.00500	"	0.0333	113	30-120
Benzo (a) anthracene	0.0382	0.00500	"	0.0333	115	30-120
Benzo (a) pyrene	0.0381	0.00500	"	0.0333	114	30-120
Benzo (b) fluoranthene	0.0397	0.00500	"	0.0333	119	30-120
Benzo (k) fluoranthene	0.0384	0.00500	"	0.0333	115	30-120
Chrysene	0.0371	0.00500	"	0.0333	111	30-120
Dibenz (a,h) anthracene	0.0347	0.00500	"	0.0333	104	30-120
Fluoranthene	0.0354	0.00500	"	0.0333	106	30-120
Fluorene	0.0379	0.00500	"	0.0333	114	30-120
Indeno (1,2,3-cd) pyrene	0.0326	0.00500	"	0.0333	97.7	30-120
Pyrene	0.0268	0.00500	"	0.0333	80.4	35-142
1-Methylnaphthalene	0.0387	0.00500	"	0.0333	116	35-142
2-Methylnaphthalene	0.0374	0.00500	"	0.0333	112	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0340		"	0.0333	102	40-150
Surrogate: Fluoranthene-d10	0.0407		"	0.0333	122	40-150

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

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 BHA0752 - EPA 5030 Soil MS

Matrix Spike (BHA0752-MS1)

Source: 2401330-02

Prepared: 01/22/24 Analyzed: 01/23/24

Acenaphthene	0.0218	0.00500	mg/kg	0.0333	ND	65.5	31-137				
Anthracene	0.0243	0.00500	"	0.0333	ND	73.0	30-120				
Benzo (a) anthracene	0.0289	0.00500	"	0.0333	ND	86.7	30-120				
Benzo (a) pyrene	0.0263	0.00500	"	0.0333	ND	79.0	30-120				
Benzo (b) fluoranthene	0.0288	0.00500	"	0.0333	ND	86.3	30-120				
Benzo (k) fluoranthene	0.0238	0.00500	"	0.0333	ND	71.4	30-120				
Chrysene	0.0322	0.00500	"	0.0333	ND	96.7	30-120				
Dibenz (a,h) anthracene	0.0250	0.00500	"	0.0333	ND	75.0	30-120				
Fluoranthene	0.0344	0.00500	"	0.0333	ND	103	30-120				
Fluorene	0.0227	0.00500	"	0.0333	ND	68.0	30-120				
Indeno (1,2,3-cd) pyrene	0.0293	0.00500	"	0.0333	ND	87.9	30-120				
Pyrene	0.0250	0.00500	"	0.0333	ND	75.1	35-142				
1-Methylnaphthalene	0.0207	0.00500	"	0.0333	ND	62.2	15-130				
2-Methylnaphthalene	0.0200	0.00500	"	0.0333	ND	60.0	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0195		"	0.0333		58.5	40-150				
Surrogate: Fluoranthene-d10	0.0198		"	0.0333		59.4	40-150				

Matrix Spike Dup (BHA0752-MSD1)

Source: 2401330-02

Prepared: 01/22/24 Analyzed: 01/23/24

Acenaphthene	0.0246	0.00500	mg/kg	0.0333	ND	73.9	31-137	12.1	30
Anthracene	0.0259	0.00500	"	0.0333	ND	77.7	30-120	6.25	30
Benzo (a) anthracene	0.0336	0.00500	"	0.0333	ND	101	30-120	15.1	30
Benzo (a) pyrene	0.0300	0.00500	"	0.0333	ND	90.0	30-120	13.0	30
Benzo (b) fluoranthene	0.0328	0.00500	"	0.0333	ND	98.4	30-120	13.0	30
Benzo (k) fluoranthene	0.0261	0.00500	"	0.0333	ND	78.2	30-120	9.09	30
Chrysene	0.0297	0.00500	"	0.0333	ND	89.2	30-120	8.05	30
Dibenz (a,h) anthracene	0.0287	0.00500	"	0.0333	ND	86.2	30-120	13.8	30
Fluoranthene	0.0397	0.00500	"	0.0333	ND	119	30-120	14.2	30
Fluorene	0.0267	0.00500	"	0.0333	ND	80.1	30-120	16.3	30
Indeno (1,2,3-cd) pyrene	0.0343	0.00500	"	0.0333	ND	103	30-120	15.6	30
Pyrene	0.0334	0.00500	"	0.0333	ND	100	35-142	28.6	30
1-Methylnaphthalene	0.0233	0.00500	"	0.0333	ND	69.9	15-130	11.6	50
2-Methylnaphthalene	0.0230	0.00500	"	0.0333	ND	69.0	15-130	13.9	50
Surrogate: 2-Methylnaphthalene-d10	0.0232		"	0.0333		69.7	40-150		
Surrogate: Fluoranthene-d10	0.0225		"	0.0333		67.5	40-150		

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

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

Batch BHA1096 - EPA 5030 Soil MS

Blank (BHA1096-BLK1)

Prepared & Analyzed: 01/31/24

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	0.0236	"	0.0333	70.9	40-150
Surrogate: Fluoranthene-d10	0.0213	"	0.0333	63.8	40-150

LCS (BHA1096-BS1)

Prepared & Analyzed: 01/31/24

Acenaphthene	0.0278	0.00500	mg/kg	0.0333	83.3	31-137
Anthracene	0.0262	0.00500	"	0.0333	78.6	30-120
Benzo (a) anthracene	0.0249	0.00500	"	0.0333	74.8	30-120
Benzo (a) pyrene	0.0252	0.00500	"	0.0333	75.6	30-120
Benzo (b) fluoranthene	0.0191	0.00500	"	0.0333	57.4	30-120
Benzo (k) fluoranthene	0.0170	0.00500	"	0.0333	51.1	30-120
Chrysene	0.0269	0.00500	"	0.0333	80.7	30-120
Dibenz (a,h) anthracene	0.0295	0.00500	"	0.0333	88.6	30-120
Fluoranthene	0.0261	0.00500	"	0.0333	78.2	30-120
Fluorene	0.0277	0.00500	"	0.0333	83.0	30-120
Indeno (1,2,3-cd) pyrene	0.0338	0.00500	"	0.0333	101	30-120
Pyrene	0.0333	0.00500	"	0.0333	100	35-142
1-Methylnaphthalene	0.0293	0.00500	"	0.0333	87.9	35-142
2-Methylnaphthalene	0.0276	0.00500	"	0.0333	82.7	35-142

Surrogate: 2-Methylnaphthalene-d10	0.0273	"	0.0333	82.0	40-150
Surrogate: Fluoranthene-d10	0.0258	"	0.0333	77.5	40-150

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BHA1096 - EPA 5030 Soil MS

Matrix Spike (BHA1096-MS1)

Source: 2401523-01

Prepared & Analyzed: 01/31/24

Acenaphthene	0.0192	0.00500	mg/kg	0.0333	ND	57.7	31-137		
Anthracene	0.0173	0.00500	"	0.0333	ND	51.9	30-120		
Benzo (a) anthracene	0.0175	0.00500	"	0.0333	ND	52.5	30-120		
Benzo (a) pyrene	0.0174	0.00500	"	0.0333	ND	52.1	30-120		
Benzo (b) fluoranthene	0.0190	0.00500	"	0.0333	ND	56.9	30-120		
Benzo (k) fluoranthene	0.0179	0.00500	"	0.0333	ND	53.8	30-120		
Chrysene	0.0180	0.00500	"	0.0333	ND	54.1	30-120		
Dibenz (a,h) anthracene	0.0202	0.00500	"	0.0333	ND	60.6	30-120		
Fluoranthene	0.0182	0.00500	"	0.0333	ND	54.7	30-120		
Fluorene	0.0202	0.00500	"	0.0333	ND	60.5	30-120		
Indeno (1,2,3-cd) pyrene	0.0222	0.00500	"	0.0333	ND	66.6	30-120		
Pyrene	0.0224	0.00500	"	0.0333	ND	67.1	35-142		
1-Methylnaphthalene	0.0197	0.00500	"	0.0333	ND	59.0	15-130		
2-Methylnaphthalene	0.0200	0.00500	"	0.0333	ND	60.1	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0203		"	0.0333		60.8	40-150		
Surrogate: Fluoranthene-d10	0.0189		"	0.0333		56.8	40-150		

Matrix Spike Dup (BHA1096-MSD1)

Source: 2401523-01

Prepared & Analyzed: 01/31/24

Acenaphthene	0.0225	0.00500	mg/kg	0.0333	ND	67.4	31-137	15.6	30
Anthracene	0.0216	0.00500	"	0.0333	ND	64.7	30-120	21.9	30
Benzo (a) anthracene	0.0214	0.00500	"	0.0333	ND	64.2	30-120	20.0	30
Benzo (a) pyrene	0.0205	0.00500	"	0.0333	ND	61.4	30-120	16.4	30
Benzo (b) fluoranthene	0.0208	0.00500	"	0.0333	ND	62.3	30-120	8.99	30
Benzo (k) fluoranthene	0.0209	0.00500	"	0.0333	ND	62.8	30-120	15.3	30
Chrysene	0.0213	0.00500	"	0.0333	ND	64.0	30-120	16.7	30
Dibenz (a,h) anthracene	0.0229	0.00500	"	0.0333	ND	68.8	30-120	12.8	30
Fluoranthene	0.0214	0.00500	"	0.0333	ND	64.2	30-120	15.9	30
Fluorene	0.0219	0.00500	"	0.0333	ND	65.6	30-120	8.21	30
Indeno (1,2,3-cd) pyrene	0.0263	0.00500	"	0.0333	ND	79.0	30-120	17.0	30
Pyrene	0.0290	0.00500	"	0.0333	ND	86.9	35-142	25.7	30
1-Methylnaphthalene	0.0233	0.00500	"	0.0333	ND	70.0	15-130	17.1	50
2-Methylnaphthalene	0.0228	0.00500	"	0.0333	ND	68.3	15-130	12.8	50
Surrogate: 2-Methylnaphthalene-d10	0.0222		"	0.0333		66.7	40-150		
Surrogate: Fluoranthene-d10	0.0220		"	0.0333		66.0	40-150		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

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 BHA0771 - EPA 3050B

Blank (BHA0771-BLK1)

Prepared: 01/23/24 Analyzed: 01/24/24

Boron ND 2.00 mg/L

LCS (BHA0771-BS1)

Prepared: 01/23/24 Analyzed: 01/24/24

Boron 4.89 2.00 mg/L 5.00 97.8 80-120

Duplicate (BHA0771-DUP1)

Source: 2401318-01

Prepared: 01/23/24 Analyzed: 01/24/24

Boron ND 2.00 mg/L ND 20

Matrix Spike (BHA0771-MS1)

Source: 2401318-01

Prepared: 01/23/24 Analyzed: 01/24/24

Boron 4.31 2.00 mg/L 5.00 ND 86.1 75-125

Matrix Spike Dup (BHA0771-MSD1)

Source: 2401318-01

Prepared: 01/23/24 Analyzed: 01/24/24

Boron 4.64 2.00 mg/L 5.00 ND 92.9 75-125 7.55 25

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Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHA0758 - EPA 3050B

Blank (BHA0758-BLK1)

Prepared: 01/22/24 Analyzed: 01/24/24

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

LCS (BHA0758-BS1)

Prepared: 01/22/24 Analyzed: 01/24/24

Arsenic	35.6	0.200	mg/kg wet	40.0	88.9	80-120
Barium	37.2	0.400	"	40.0	93.0	80-120
Cadmium	1.82	0.200	"	2.00	90.9	80-120
Copper	37.6	0.400	"	40.0	93.9	80-120
Lead	18.1	0.200	"	20.0	90.3	80-120
Nickel	36.7	0.400	"	40.0	91.8	80-120
Silver	1.80	0.0200	"	2.00	90.1	80-120
Zinc	37.0	0.400	"	40.0	92.6	80-120
Selenium	4.13	0.260	"	4.00	103	80-120

Duplicate (BHA0758-DUP1)

Source: 2401328-01

Prepared: 01/22/24 Analyzed: 01/24/24

Arsenic	1.53	0.200	mg/kg dry	1.63	6.12	20	
Barium	24.5	0.400	"	39.4	46.6	20	QR-04
Cadmium	0.159	0.200	"	0.161	1.56	20	
Copper	2.58	0.400	"	2.73	5.54	20	
Lead	5.04	0.200	"	4.97	1.26	20	
Nickel	2.26	0.400	"	2.48	9.21	20	
Silver	0.0121	0.0200	"	0.0154	24.2	20	QR-01
Zinc	10.4	0.400	"	11.3	8.64	20	
Selenium	ND	0.260	"	ND		20	

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Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHA0758 - EPA 3050B

Matrix Spike (BHA0758-MS1)

Source: 2401328-01

Prepared: 01/22/24 Analyzed: 01/24/24

Arsenic	38.8	0.200	mg/kg dry	41.6	1.63	89.2	75-125			
Barium	61.7	0.400	"	41.6	39.4	53.4	75-125			QM-05
Cadmium	2.08	0.200	"	2.08	0.161	92.5	75-125			
Copper	33.3	0.400	"	41.6	2.73	73.5	75-125			QM-05
Lead	23.4	0.200	"	20.8	4.97	88.5	75-125			
Nickel	32.6	0.400	"	41.6	2.48	72.3	75-125			QM-05
Silver	1.88	0.0200	"	2.08	0.0154	89.8	75-125			
Zinc	42.0	0.400	"	41.6	11.3	73.8	75-125			QM-05
Selenium	3.94	0.260	"	4.16	ND	94.8	75-125			

Matrix Spike Dup (BHA0758-MSD1)

Source: 2401328-01

Prepared: 01/22/24 Analyzed: 01/24/24

Arsenic	39.2	0.200	mg/kg dry	41.6	1.63	90.4	75-125	1.22	25	
Barium	62.2	0.400	"	41.6	39.4	54.8	75-125	0.913	25	QM-05
Cadmium	2.09	0.200	"	2.08	0.161	92.9	75-125	0.458	25	
Copper	34.1	0.400	"	41.6	2.73	75.5	75-125	2.46	25	
Lead	23.9	0.200	"	20.8	4.97	90.8	75-125	2.02	25	
Nickel	33.4	0.400	"	41.6	2.48	74.4	75-125	2.69	25	QM-05
Silver	1.91	0.0200	"	2.08	0.0154	90.9	75-125	1.12	25	
Zinc	43.1	0.400	"	41.6	11.3	76.3	75-125	2.46	25	
Selenium	4.31	0.260	"	4.16	ND	104	75-125	9.02	25	

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHA0748 - 3060A Mod

Blank (BHA0748-BLK1)

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHA0748-BS1)

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent 23.8 0.30 mg/kg wet 25.0 95.0 80-120

Duplicate (BHA0748-DUP1)

Source: 2401330-01

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHA0748-MS1)

Source: 2401330-01

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent 23.8 0.30 mg/kg dry 26.7 ND 89.0 75-125

Matrix Spike Dup (BHA0748-MSD1)

Source: 2401330-01

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent 24.4 0.30 mg/kg dry 26.7 ND 91.2 75-125 2.44 20

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Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

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 BHA0781 - General Preparation

Blank (BHA0781-BLK1)

Prepared: 01/23/24 Analyzed: 01/25/24

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

LCS (BHA0781-BS1)

Prepared: 01/23/24 Analyzed: 01/25/24

Calcium	6.11	0.0500	mg/L wet	5.00	122	70-130
Magnesium	5.23	0.0500	"	5.00	105	70-130
Sodium	5.09	0.0500	"	5.00	102	70-130

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz

Project Number: UWRWE-A2542-ABN

Project Manager: Paul Henchan

Reported:
02/05/24 16:55

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

Summit Scientific

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

Batch BHA0717 - General Preparation

Duplicate (BHA0717-DUP1)		Source: 2401317-01		Prepared: 01/22/24 Analyzed: 01/23/24	
% Solids	94.5		%	94.7	0.198 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

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

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

Batch BHA0832 - General Preparation

Blank (BHA0832-BLK1)

Prepared & Analyzed: 01/24/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHA0832-BS1)

Prepared & Analyzed: 01/24/24

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHA0832-DUP1)

Source: 2401328-01

Prepared & Analyzed: 01/24/24

Specific Conductance (EC) 0.0362 0.0100 mmhos/cm 0.0367 1.37 20

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Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

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

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

Batch BHA0831 - General Preparation

LCS (BHA0831-BS1)

Prepared & Analyzed: 01/24/24

pH	9.27	pH Units	9.18	101	95-105
----	------	----------	------	-----	--------

Duplicate (BHA0831-DUP1)

Source: 2401328-01

Prepared & Analyzed: 01/24/24

pH	6.85	pH Units	7.06	3.02	20
----	------	----------	------	------	----

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
02/05/24 16:55

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 25, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

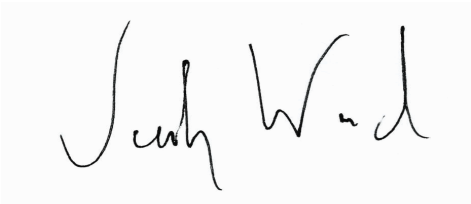
Wellington, CO 80549

RE: Noble - Furrow USX (Backgrounds)

Work Order #2401328

Enclosed are the results of analyses for samples received by Summit Scientific on 01/19/24 13:59. 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 - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@6.0"	2401328-01	Soil	01/19/24 00:00	01/19/24 13:59
BKG01@4.0'	2401328-02	Soil	01/19/24 00:00	01/19/24 13:59
BKG01@5.0'	2401328-03	Soil	01/19/24 00:00	01/19/24 13:59
BKG02@6.0"	2401328-04	Soil	01/19/24 00:00	01/19/24 13:59
BKG02@4.0'	2401328-05	Soil	01/19/24 00:00	01/19/24 13:59
BKG02@5.0'	2401328-06	Soil	01/19/24 00:00	01/19/24 13:59
BKG03@6.0"	2401328-07	Soil	01/19/24 00:00	01/19/24 13:59
BKG03@4.0'	2401328-08	Soil	01/19/24 00:00	01/19/24 13:59
BKG03@5.0'	2401328-09	Soil	01/19/24 00:00	01/19/24 13:59
BKG04@6.0"	2401328-10	Soil	01/19/24 00:00	01/19/24 13:59
BKG04@4.0'	2401328-11	Soil	01/19/24 00:00	01/19/24 13:59
BKG04@5.0'	2401328-12	Soil	01/19/24 00:00	01/19/24 13:59
BKG05@6.0"	2401328-13	Soil	01/19/24 00:00	01/19/24 13:59
BKG05@4.0'	2401328-14	Soil	01/19/24 00:00	01/19/24 13:59
BKG05@5.0'	2401328-15	Soil	01/19/24 00:00	01/19/24 13:59

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SUMMIT SCIENTIFIC

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

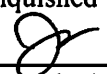

Lab ID

Page 1 of 1

2401328

Client: Fremont Env		Send Data To:		Send Invoice To:	
Address:		Project Manager: Paul Henahan		Company: Noble	
City/State/Zip:		E-Mail: Paulh@fremontenv.com		Project Name/Location: Furrow USX AB 15-99H2	
Phone:		jeffg@fremontenv.com Ethenb@fremontenv.com		AFE#:	
Sampler Name: JG		Project Name: Furrow USX (Backgrounds)		PO/Billing Codes: UWRWE-A2543-ABN	
		Project Number:		Contact:	

				Preservative				Matrix				Analysis Requested						Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	PH, SAR, EC, Boron	Metals (915)				
1	BK601@6.0"	01/19/24		1			X			X			X	X				
2	BK601@4.0"																	
3	BK601@5.0'																	
4	BK602@6.0"																	
5	BK602@4.0'																	
6	BK602@5.0'																	
7	BK603@6.0"																	
8	BK603@4.0'																	
9	BK603@5.0'																	
10	BK604@6.0"																	
11	BK604@4.0'																	
12	BK604@5.0'																	
13	BK605@6.0"																	
14	BK605@4.0'																	
15	BK605@5.0'																	

Relinquished by: 	Date/Time: 01/19/24	Received by: 	Date/Time: 1/19/24 13:54	TAT Business Days	Field DO	Notes: Bill to Noble
Relinquished by:	Date/Time:	Received by:	Date/Time:	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	X Field Turb.	
Temperature Upon Receipt: 8.1	Corrected Temperature	IR gun #: 2	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2401328Client: Fremont Client Project ID: Furrow USX (Background)Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 8.1 Thermometer # 2

	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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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.				

Mikayla Axtell

Custodian Printed Name

1/19/24 13:59

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG01@6.0"
2401328-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.63	0.200		mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	39.4	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	2.73	0.400		"	"	"	"	"	"	
Lead	4.97	0.200		"	"	"	"	"	"	
Nickel	2.48	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	11.3	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	28.0	0.0500		mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	5.05	0.0500		"	"	"	"	"	"	
Sodium	0.506	0.0500		"	"	"	"	"	"	

Summit Scientific

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Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG01@6.0"
2401328-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0231	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.1		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0367	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.06		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG01@4.0'
2401328-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	6.82	0.200		mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	90.5	0.400		"	"	"	"	"	"	
Cadmium	0.573	0.200		"	"	"	"	"	"	
Copper	9.49	0.400		"	"	"	"	"	"	
Lead	16.5	0.200		"	"	"	"	"	"	
Nickel	6.38	0.400		"	"	"	"	"	"	
Silver	0.0852	0.0200		"	"	"	"	"	"	
Zinc	24.5	0.400		"	"	"	"	"	"	
Selenium	0.471	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	31.7	0.0500		mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	11.7	0.0500		"	"	"	"	"	"	
Sodium	3.37	0.0500		"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG01@4.0'
2401328-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.130	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.9		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0673	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.90		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG01@5.0'
2401328-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	5.36	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	108	0.400	"	"	"	"	"	"	
Cadmium	0.749	0.200	"	"	"	"	"	"	
Copper	6.29	0.400	"	"	"	"	"	"	
Lead	16.0	0.200	"	"	"	"	"	"	
Nickel	7.79	0.400	"	"	"	"	"	"	
Silver	0.103	0.0200	"	"	"	"	"	"	
Zinc	19.2	0.400	"	"	"	"	"	"	
Selenium	0.555	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	20.1	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	8.18	0.0500	"	"	"	"	"	"	
Sodium	28.5	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG01@5.0'
2401328-03 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.35	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.2		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.262	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.15		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG02@6.0"
2401328-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.52	0.200		mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	46.2	0.400		"	"	"	"	"	"	
Cadmium	0.259	0.200		"	"	"	"	"	"	
Copper	4.19	0.400		"	"	"	"	"	"	
Lead	9.08	0.200		"	"	"	"	"	"	
Nickel	3.41	0.400		"	"	"	"	"	"	
Silver	0.0330	0.0200		"	"	"	"	"	"	
Zinc	16.5	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	67.3	0.0500		mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	17.5	0.0500		"	"	"	"	"	"	
Sodium	1.02	0.0500		"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG02@6.0"
2401328-04 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0286	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.3		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0334	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.12		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG02@4.0'
2401328-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.60	0.200		mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	54.7	0.400		"	"	"	"	"	"	
Cadmium	0.262	0.200		"	"	"	"	"	"	
Copper	6.59	0.400		"	"	"	"	"	"	
Lead	10.5	0.200		"	"	"	"	"	"	
Nickel	6.15	0.400		"	"	"	"	"	"	
Silver	0.0436	0.0200		"	"	"	"	"	"	
Zinc	27.7	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	25.2	0.0500		mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	9.44	0.0500		"	"	"	"	"	"	
Sodium	18.9	0.0500		"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
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Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG02@4.0'
2401328-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.815	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.6		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.164	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.27		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG02@5.0'
2401328-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.53	0.200		mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	58.0	0.400		"	"	"	"	"	"	
Cadmium	0.274	0.200		"	"	"	"	"	"	
Copper	6.05	0.400		"	"	"	"	"	"	
Lead	9.80	0.200		"	"	"	"	"	"	
Nickel	4.04	0.400		"	"	"	"	"	"	
Silver	0.0423	0.0200		"	"	"	"	"	"	
Zinc	21.0	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	23.0	0.0500		mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	8.30	0.0500		"	"	"	"	"	"	
Sodium	16.3	0.0500		"	"	"	"	"	"	

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Fremont Environmental
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Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG02@5.0'
2401328-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.741	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.8		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.126	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.68		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG03@6.0"
2401328-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.91	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	36.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.58	0.400	"	"	"	"	"	"	
Lead	6.43	0.200	"	"	"	"	"	"	
Nickel	2.88	0.400	"	"	"	"	"	"	
Silver	0.0246	0.0200	"	"	"	"	"	"	
Zinc	13.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	16.4	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	5.89	0.0500	"	"	"	"	"	"	
Sodium	0.651	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG03@6.0"
2401328-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0351	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.6		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0480	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.23		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG03@4.0'
2401328-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	6.21	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	101	0.400	"	"	"	"	"	"	
Cadmium	0.409	0.200	"	"	"	"	"	"	
Copper	9.31	0.400	"	"	"	"	"	"	
Lead	15.2	0.200	"	"	"	"	"	"	
Nickel	6.92	0.400	"	"	"	"	"	"	
Silver	0.0451	0.0200	"	"	"	"	"	"	
Zinc	31.5	0.400	"	"	"	"	"	"	
Selenium	0.388	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	18.7	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	7.73	0.0500	"	"	"	"	"	"	
Sodium	88.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG03@4.0'
2401328-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.32	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.3		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.621	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.73		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG03@5.0'
2401328-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.25	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	86.8	0.400	"	"	"	"	"	"	
Cadmium	0.287	0.200	"	"	"	"	"	"	
Copper	11.4	0.400	"	"	"	"	"	"	
Lead	13.7	0.200	"	"	"	"	"	"	
Nickel	4.76	0.400	"	"	"	"	"	"	
Silver	0.0586	0.0200	"	"	"	"	"	"	
Zinc	20.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	14.5	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	9.64	0.0500	"	"	"	"	"	"	
Sodium	116	0.0500	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
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Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG03@5.0'
2401328-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	5.84	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	50.5		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.458	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.16		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG04@6.0"
2401328-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.69	0.200		mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	77.4	0.400		"	"	"	"	"	"	
Cadmium	0.274	0.200		"	"	"	"	"	"	
Copper	4.97	0.400		"	"	"	"	"	"	
Lead	8.79	0.200		"	"	"	"	"	"	
Nickel	5.66	0.400		"	"	"	"	"	"	
Silver	0.0362	0.0200		"	"	"	"	"	"	
Zinc	19.7	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	9.62	0.0500		mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	2.36	0.0500		"	"	"	"	"	"	
Sodium	0.669	0.0500		"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG04@6.0"
2401328-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0501	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.5		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0556	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.77		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG04@4.0'
2401328-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.81	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	63.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.47	0.400	"	"	"	"	"	"	
Lead	4.94	0.200	"	"	"	"	"	"	
Nickel	3.44	0.400	"	"	"	"	"	"	
Silver	0.0246	0.0200	"	"	"	"	"	"	
Zinc	12.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	90.6	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	7.92	0.0500	"	"	"	"	"	"	
Sodium	1.92	0.0500	"	"	"	"	"	"	

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Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG04@4.0'
2401328-11 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0519	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.4		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0892	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.82		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG04@5.0'
2401328-12 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.19	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	174	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.72	0.400	"	"	"	"	"	"	
Lead	4.45	0.200	"	"	"	"	"	"	
Nickel	3.00	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	11.5	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	87.8	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	11.4	0.0500	"	"	"	"	"	"	
Sodium	3.41	0.0500	"	"	"	"	"	"	

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Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG04@5.0'
2401328-12 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0909	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.0		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0854	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.91		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG05@6.0"
2401328-13 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	2.81	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	51.5	0.400	"	"	"	"	"	"	
Cadmium	0.233	0.200	"	"	"	"	"	"	
Copper	4.40	0.400	"	"	"	"	"	"	
Lead	7.86	0.200	"	"	"	"	"	"	
Nickel	4.54	0.400	"	"	"	"	"	"	
Silver	0.0406	0.0200	"	"	"	"	"	"	
Zinc	16.7	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	78.3	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	31.1	0.0500	"	"	"	"	"	"	
Sodium	5.89	0.0500	"	"	"	"	"	"	

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Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG05@6.0"
2401328-13 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.142	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.8		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0428	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.56		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG05@4.0'
2401328-14 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.17	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	48.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.68	0.400	"	"	"	"	"	"	
Lead	5.30	0.200	"	"	"	"	"	"	
Nickel	3.77	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	12.9	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	356	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	21.4	0.0500	"	"	"	"	"	"	
Sodium	60.7	0.0500	"	"	"	"	"	"	

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Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG05@4.0'
2401328-14 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.845	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.6		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.375	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.48		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

Summit Scientific

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Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG05@5.0'
2401328-15 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	ND	2.00	mg/L	1	BHA0750	01/22/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	3.24	0.200	mg/kg dry	1	BHA0758	01/22/24	01/24/24	EPA 6020B	
Barium	65.4	0.400	"	"	"	"	"	"	
Cadmium	0.202	0.200	"	"	"	"	"	"	
Copper	3.63	0.400	"	"	"	"	"	"	
Lead	5.51	0.200	"	"	"	"	"	"	
Nickel	3.80	0.400	"	"	"	"	"	"	
Silver	0.0265	0.0200	"	"	"	"	"	"	
Zinc	13.4	0.400	"	"	"	"	"	"	
Selenium	0.328	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BHA0747	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	17.2	0.0500	mg/L dry	1	BHA0781	01/23/24	01/25/24	EPA 6020B	
Magnesium	10.8	0.0500	"	"	"	"	"	"	
Sodium	136	0.0500	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

BKG05@5.0'
2401328-15 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.33	0.00100	units	1	BHA0905	01/25/24	01/25/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.0		%	1	BHA0763	01/22/24	01/22/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.997	0.0100	mmhos/cm	1	BHA0832	01/24/24	01/24/24	EPA 120.1	

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

Date Sampled: **01/19/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.91		pH Units	1	BHA0831	01/24/24	01/24/24	EPA 9045D	

Summit Scientific

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Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

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 BHA0750 - EPA 3050B

Blank (BHA0750-BLK1)

Prepared: 01/22/24 Analyzed: 01/24/24

Boron ND 2.00 mg/L

LCS (BHA0750-BS1)

Prepared: 01/22/24 Analyzed: 01/24/24

Boron 5.53 2.00 mg/L 5.00 111 80-120

Duplicate (BHA0750-DUP1)

Source: 2312139-17

Prepared: 01/22/24 Analyzed: 01/24/24

Boron 3.12 2.00 mg/L 3.17 1.55 20

Matrix Spike (BHA0750-MS1)

Source: 2312139-17

Prepared: 01/22/24 Analyzed: 01/24/24

Boron 7.26 2.00 mg/L 5.00 3.17 81.7 75-125

Matrix Spike Dup (BHA0750-MSD1)

Source: 2312139-17

Prepared: 01/22/24 Analyzed: 01/24/24

Boron 7.42 2.00 mg/L 5.00 3.17 85.1 75-125 2.30 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 - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHA0758 - EPA 3050B

Blank (BHA0758-BLK1)

Prepared: 01/22/24 Analyzed: 01/24/24

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

LCS (BHA0758-BS1)

Prepared: 01/22/24 Analyzed: 01/24/24

Arsenic	35.6	0.200	mg/kg wet	40.0	88.9	80-120
Barium	37.2	0.400	"	40.0	93.0	80-120
Cadmium	1.82	0.200	"	2.00	90.9	80-120
Copper	37.6	0.400	"	40.0	93.9	80-120
Lead	18.1	0.200	"	20.0	90.3	80-120
Nickel	36.7	0.400	"	40.0	91.8	80-120
Silver	1.80	0.0200	"	2.00	90.1	80-120
Zinc	37.0	0.400	"	40.0	92.6	80-120
Selenium	4.13	0.260	"	4.00	103	80-120

Duplicate (BHA0758-DUP1)

Source: 2401328-01

Prepared: 01/22/24 Analyzed: 01/24/24

Arsenic	1.53	0.200	mg/kg dry	1.63	6.12	20	
Barium	24.5	0.400	"	39.4	46.6	20	QR-04
Cadmium	0.159	0.200	"	0.161	1.56	20	
Copper	2.58	0.400	"	2.73	5.54	20	
Lead	5.04	0.200	"	4.97	1.26	20	
Nickel	2.26	0.400	"	2.48	9.21	20	
Silver	0.0121	0.0200	"	0.0154	24.2	20	QR-01
Zinc	10.4	0.400	"	11.3	8.64	20	
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHA0758 - EPA 3050B

Matrix Spike (BHA0758-MS1)		Source: 2401328-01			Prepared: 01/22/24 Analyzed: 01/24/24					
Arsenic	38.8	0.200	mg/kg dry	41.6	1.63	89.2	75-125			
Barium	61.7	0.400	"	41.6	39.4	53.4	75-125			QM-05
Cadmium	2.08	0.200	"	2.08	0.161	92.5	75-125			
Copper	33.3	0.400	"	41.6	2.73	73.5	75-125			QM-05
Lead	23.4	0.200	"	20.8	4.97	88.5	75-125			
Nickel	32.6	0.400	"	41.6	2.48	72.3	75-125			QM-05
Silver	1.88	0.0200	"	2.08	0.0154	89.8	75-125			
Zinc	42.0	0.400	"	41.6	11.3	73.8	75-125			QM-05
Selenium	3.94	0.260	"	4.16	ND	94.8	75-125			

Matrix Spike Dup (BHA0758-MSD1)		Source: 2401328-01			Prepared: 01/22/24 Analyzed: 01/24/24					
Arsenic	39.2	0.200	mg/kg dry	41.6	1.63	90.4	75-125	1.22	25	
Barium	62.2	0.400	"	41.6	39.4	54.8	75-125	0.913	25	QM-05
Cadmium	2.09	0.200	"	2.08	0.161	92.9	75-125	0.458	25	
Copper	34.1	0.400	"	41.6	2.73	75.5	75-125	2.46	25	
Lead	23.9	0.200	"	20.8	4.97	90.8	75-125	2.02	25	
Nickel	33.4	0.400	"	41.6	2.48	74.4	75-125	2.69	25	QM-05
Silver	1.91	0.0200	"	2.08	0.0154	90.9	75-125	1.12	25	
Zinc	43.1	0.400	"	41.6	11.3	76.3	75-125	2.46	25	
Selenium	4.31	0.260	"	4.16	ND	104	75-125	9.02	25	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHA0747 - 3060A Mod

Blank (BHA0747-BLK1)

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHA0747-BS1)

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent 24.3 0.30 mg/kg wet 25.0 97.2 80-120

Duplicate (BHA0747-DUP1)

Source: 2401318-01

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHA0747-MS1)

Source: 2401318-01

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent 23.8 0.30 mg/kg dry 26.1 ND 91.2 75-125

Matrix Spike Dup (BHA0747-MSD1)

Source: 2401318-01

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent 23.4 0.30 mg/kg dry 26.1 ND 89.8 75-125 1.55 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

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 BHA0781 - General Preparation

Blank (BHA0781-BLK1)

Prepared: 01/23/24 Analyzed: 01/25/24

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

LCS (BHA0781-BS1)

Prepared: 01/23/24 Analyzed: 01/25/24

Calcium	6.11	0.0500	mg/L wet	5.00	122	70-130
Magnesium	5.23	0.0500	"	5.00	105	70-130
Sodium	5.09	0.0500	"	5.00	102	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	Project: Noble - Furrow USX (Backgrounds)	
PO Box 1289	Project Number: UWRWE-A2542-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	01/25/24 16:29

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

Summit Scientific

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

Batch BHA0763 - General Preparation

Duplicate (BHA0763-DUP1)	Source: 2312139-17			Prepared & Analyzed: 01/22/24						
% Solids	78.4		%		76.1			3.01	20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN

Project Manager: Paul Henchan

Reported:
01/25/24 16:29

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

Summit Scientific

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

Batch BHA0832 - General Preparation

Blank (BHA0832-BLK1)

Prepared & Analyzed: 01/24/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHA0832-BS1)

Prepared & Analyzed: 01/24/24

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHA0832-DUP1)

Source: 2401328-01

Prepared & Analyzed: 01/24/24

Specific Conductance (EC) 0.0362 0.0100 mmhos/cm 0.0367 1.37 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

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

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

Batch BHA0831 - General Preparation

LCS (BHA0831-BS1)				Prepared & Analyzed: 01/24/24						
pH	9.27		pH Units	9.18	101	95-105				
Duplicate (BHA0831-DUP1)				Prepared & Analyzed: 01/24/24						
pH	6.85		pH Units	7.06	3.02	20				

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX (Backgrounds)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:29

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 25, 2024

Paul Henchan

Fremont Environmental

PO Box 1289

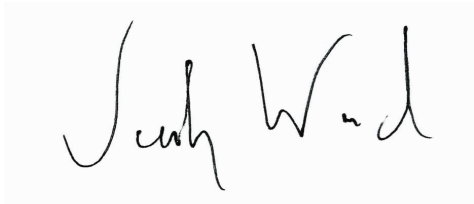
Wellington, CO 80549

RE: Noble - Furrow USX AB 15-99Hz (BKG)

Work Order #2401326

Enclosed are the results of analyses for samples received by Summit Scientific on 01/19/24 14:01. 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 - Furrow USX AB 15-99Hz (BKG)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
99BKG06@5.0'	2401326-01	Soil	01/12/24 00:00	01/19/24 14:01

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

SUMMIT SCIENTIFIC

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


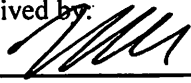
Lab ID

Page 1 of 1

2401326

Client: Fremont Env				Send Data To:				Send Invoice To:			
Address:				Project Manager: Paul Henehan				Company: Noble			
City/State/Zip:				E-Mail: Paulh@fremontenv.com				Project Name/Location: Furrow USX AB 15-99H2			
Phone:				Jeffg@fremontenv.com Ethenb@fremontenv.com				AFE#:			
Sampler Name: J6				Project Name: Furrow USX AB 15-99H2 (BK6)				PO/Billing Codes: UWRWE-A2542-ABN			
Project Number:				Contact:							

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested				Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	PH, SAR, EC, Boron	Metals (915)						
1	99BK606@5.0'	01/12/24		1			X			X				X	X					
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Relinquished by:	Date/Time:	Received by:	Date/Time:	TAT Business Days	Field DO	Notes: Bill to Noble
	01/19/24		1/19/24 14:01	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	X Field Turb.	
Temperature Upon Receipt: 6.1		Corrected Temperature		IR gun #: 2	HNO3 lot #:	

S₂

Sample Receipt Checklist

S2 Work Order# 2401320Client: Fremont Client Project ID: Furrow USX AB 15-99HZ (BKG)Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____
☒ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 6.1 Thermometer # 2

	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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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.

Mikayla Axtell

Custodian Printed Name

1/19/24 14:01

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz (BKG)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:20

99BKG06@5.0'
2401326-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BHA0771	01/23/24	01/24/24	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	2.50	0.200		mg/kg dry	1	BHA0807	01/23/24	01/24/24	EPA 6020B	
Barium	38.6	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	2.75	0.400		"	"	"	"	"	"	
Lead	4.89	0.200		"	"	"	"	"	"	
Nickel	3.18	0.400		"	"	"	"	"	"	
Silver	ND	0.0200		"	"	"	"	"	"	
Zinc	12.2	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BHA0749	01/22/24	01/22/24	EPA 7196A	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	85.9	0.0500		mg/L dry	1	BHA0702	01/19/24	01/23/24	EPA 6020B	
Magnesium	17.0	0.0500		"	"	"	"	"	"	
Sodium	19.7	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz (BKG)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:20

99BKG06@5.0'
2401326-01 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.491	0.00100	units	1	BHA0804	01/23/24	01/23/24	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.3		%	1	BHA0775	01/23/24	01/23/24	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.142	0.0100	mmhos/cm	1	BHA0727	01/22/24	01/23/24	EPA 120.1	

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

Date Sampled: **01/12/24 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.31		pH Units	1	BHA0726	01/22/24	01/23/24	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Furrow USX AB 15-99Hz (BKG)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:20

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 BHA0771 - EPA 3050B

Blank (BHA0771-BLK1)

Prepared: 01/23/24 Analyzed: 01/24/24

Boron ND 2.00 mg/L

LCS (BHA0771-BS1)

Prepared: 01/23/24 Analyzed: 01/24/24

Boron 4.89 2.00 mg/L 5.00 97.8 80-120

Duplicate (BHA0771-DUP1)

Source: 2401318-01

Prepared: 01/23/24 Analyzed: 01/24/24

Boron ND 2.00 mg/L ND 20

Matrix Spike (BHA0771-MS1)

Source: 2401318-01

Prepared: 01/23/24 Analyzed: 01/24/24

Boron 4.31 2.00 mg/L 5.00 ND 86.1 75-125

Matrix Spike Dup (BHA0771-MSD1)

Source: 2401318-01

Prepared: 01/23/24 Analyzed: 01/24/24

Boron 4.64 2.00 mg/L 5.00 ND 92.9 75-125 7.55 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 - Furrow USX AB 15-99Hz (BKG)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:20

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHA0807 - EPA 3050B

Blank (BHA0807-BLK1)

Prepared: 01/23/24 Analyzed: 01/24/24

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

LCS (BHA0807-BS1)

Prepared: 01/23/24 Analyzed: 01/24/24

Arsenic	33.3	0.200	mg/kg wet	40.0	83.3	80-120
Barium	34.0	0.400	"	40.0	85.0	80-120
Cadmium	1.64	0.200	"	2.00	82.1	80-120
Copper	36.1	0.400	"	40.0	90.2	80-120
Lead	16.7	0.200	"	20.0	83.3	80-120
Nickel	35.6	0.400	"	40.0	89.0	80-120
Silver	1.66	0.0200	"	2.00	83.2	80-120
Zinc	35.7	0.400	"	40.0	89.3	80-120
Selenium	3.55	0.260	"	4.00	88.8	80-120

Duplicate (BHA0807-DUP1)

Source: 2401326-01

Prepared: 01/23/24 Analyzed: 01/24/24

Arsenic	2.46	0.200	mg/kg dry	2.50	1.64	20	QR-04
Barium	64.9	0.400	"	38.6	50.7	20	
Cadmium	0.145	0.200	"	0.138	5.16	20	
Copper	2.90	0.400	"	2.75	5.32	20	
Lead	5.31	0.200	"	4.89	8.27	20	
Nickel	3.37	0.400	"	3.18	5.56	20	
Silver	0.0176	0.0200	"	0.0171	2.47	20	
Zinc	12.7	0.400	"	12.2	4.00	20	
Selenium	ND	0.260	"	ND		20	

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Wellington CO, 80549

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Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:20

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BHA0807 - EPA 3050B

Matrix Spike (BHA0807-MS1)

Source: 2401326-01

Prepared: 01/23/24 Analyzed: 01/24/24

Arsenic	33.6	0.200	mg/kg dry	42.9	2.50	72.6	75-125			QM-07
Barium	67.1	0.400	"	42.9	38.6	66.4	75-125			QM-07
Cadmium	1.74	0.200	"	2.14	0.138	75.0	75-125			
Copper	26.9	0.400	"	42.9	2.75	56.4	75-125			QM-07
Lead	19.8	0.200	"	21.4	4.89	69.6	75-125			QM-07
Nickel	27.4	0.400	"	42.9	3.18	56.5	75-125			QM-07
Silver	1.62	0.0200	"	2.14	0.0171	74.8	75-125			QM-07
Zinc	36.2	0.400	"	42.9	12.2	56.0	75-125			QM-07
Selenium	3.28	0.260	"	4.29	ND	76.5	75-125			

Matrix Spike Dup (BHA0807-MSD1)

Source: 2401326-01

Prepared: 01/23/24 Analyzed: 01/24/24

Arsenic	33.1	0.200	mg/kg dry	42.9	2.50	71.5	75-125	1.38	25	QM-07
Barium	66.0	0.400	"	42.9	38.6	63.9	75-125	1.64	25	QM-07
Cadmium	1.75	0.200	"	2.14	0.138	75.3	75-125	0.368	25	
Copper	27.2	0.400	"	42.9	2.75	57.1	75-125	1.13	25	QM-07
Lead	19.7	0.200	"	21.4	4.89	68.9	75-125	0.723	25	QM-07
Nickel	27.8	0.400	"	42.9	3.18	57.4	75-125	1.39	25	QM-07
Silver	1.59	0.0200	"	2.14	0.0171	73.6	75-125	1.55	25	QM-07
Zinc	36.9	0.400	"	42.9	12.2	57.7	75-125	1.97	25	QM-07
Selenium	3.27	0.260	"	4.29	ND	76.3	75-125	0.249	25	

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Project: Noble - Furrow USX AB 15-99Hz (BKG)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:20

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BHA0749 - 3060A Mod

Blank (BHA0749-BLK1)

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BHA0749-BS1)

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent 23.6 0.30 mg/kg wet 25.0 94.6 80-120

Duplicate (BHA0749-DUP1)

Source: 2401274-01

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BHA0749-MS1)

Source: 2401274-01

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent 25.4 0.30 mg/kg dry 29.8 ND 85.4 75-125

Matrix Spike Dup (BHA0749-MSD1)

Source: 2401274-01

Prepared & Analyzed: 01/22/24

Chromium, Hexavalent 25.5 0.30 mg/kg dry 29.8 ND 85.6 75-125 0.234 20

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Project: Noble - Furrow USX AB 15-99Hz (BKG)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:20

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

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

Batch BHA0702 - General Preparation

Blank (BHA0702-BLK1)

Prepared: 01/19/24 Analyzed: 01/23/24

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

LCS (BHA0702-BS1)

Prepared: 01/19/24 Analyzed: 01/23/24

Calcium	6.34	0.0500	mg/L wet	5.00	127	70-130
Magnesium	5.71	0.0500	"	5.00	114	70-130
Sodium	5.75	0.0500	"	5.00	115	70-130

Summit Scientific

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Project: Noble - Furrow USX AB 15-99Hz (BKG)

Project Number: UWRWE-A2542-ABN

Project Manager: Paul Henchan

Reported:

01/25/24 16:20

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

Summit Scientific

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

Batch BHA0775 - General Preparation

Duplicate (BHA0775-DUP1)			Source: 2401326-01			Prepared & Analyzed: 01/23/24				
% Solids	93.3		%			93.3		0.000482	20	

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Project: Noble - Furrow USX AB 15-99Hz (BKG)
Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:20

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

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

Batch BHA0727 - General Preparation

Blank (BHA0727-BLK1)

Prepared: 01/22/24 Analyzed: 01/23/24

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BHA0727-BS1)

Prepared: 01/22/24 Analyzed: 01/23/24

Specific Conductance (EC) 0.157 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BHA0727-DUP1)

Source: 2401324-01

Prepared: 01/22/24 Analyzed: 01/23/24

Specific Conductance (EC) 0.468 0.0100 mmhos/cm 0.477 1.84 20

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Project: Noble - Furrow USX AB 15-99Hz (BKG)

Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:20

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

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

Batch BHA0726 - General Preparation

LCS (BHA0726-BS1)

Prepared: 01/22/24 Analyzed: 01/23/24

pH	9.03	pH Units	9.18	98.4	95-105
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Duplicate (BHA0726-DUP1)

Source: 2401324-01

Prepared: 01/22/24 Analyzed: 01/23/24

pH	7.89	pH Units	8.00	1.38	20
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Project Number: UWRWE-A2542-ABN
Project Manager: Paul Henchan

Reported:
01/25/24 16:20

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
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