

FREMONT ENVIRONMENTAL INC.

December 5, 2023

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

Subject: **Facility Closure Data Submittal**
Prospect CO-64N64W 26NENE Facility
Facility ID: 329937
NENE Sec. 26, T4N, R64W
Weld County, Colorado
Fremont Project No. C023-201
Remediation # 27801

Dear Mr. Peterson:

As requested, Fremont Environmental Inc. (Fremont) personnel conducted facility abandonment activities at the Noble Energy Inc. (Noble) Prospect CO-64N64W 26NENE Facility. Details of the facility abandonment activities are documented in the attached Closure Report. Soil samples collected from the base of the PWV excavation (PWVB01@6') were reported with elevated concentrations/values of organic compounds and SAR. Groundwater was not encountered during decommissioning activities.

Please contact me at (970) 213-7488 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

FREMONT ENVIRONMENTAL INC.

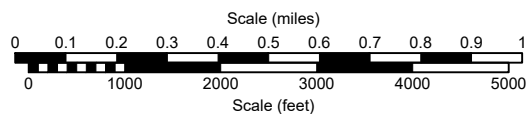
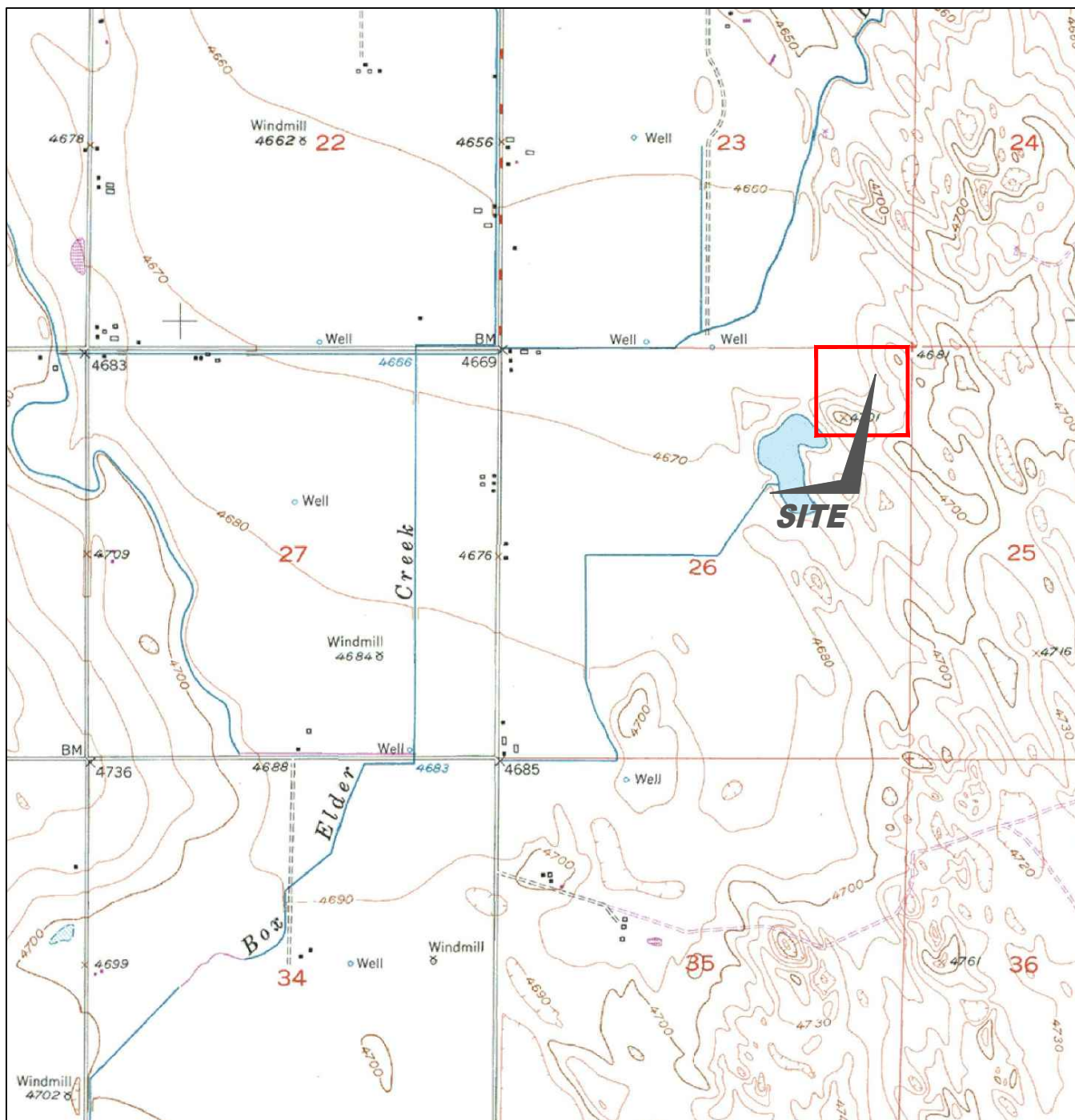


Chris Lattes
Consultant

Attachments:

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

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



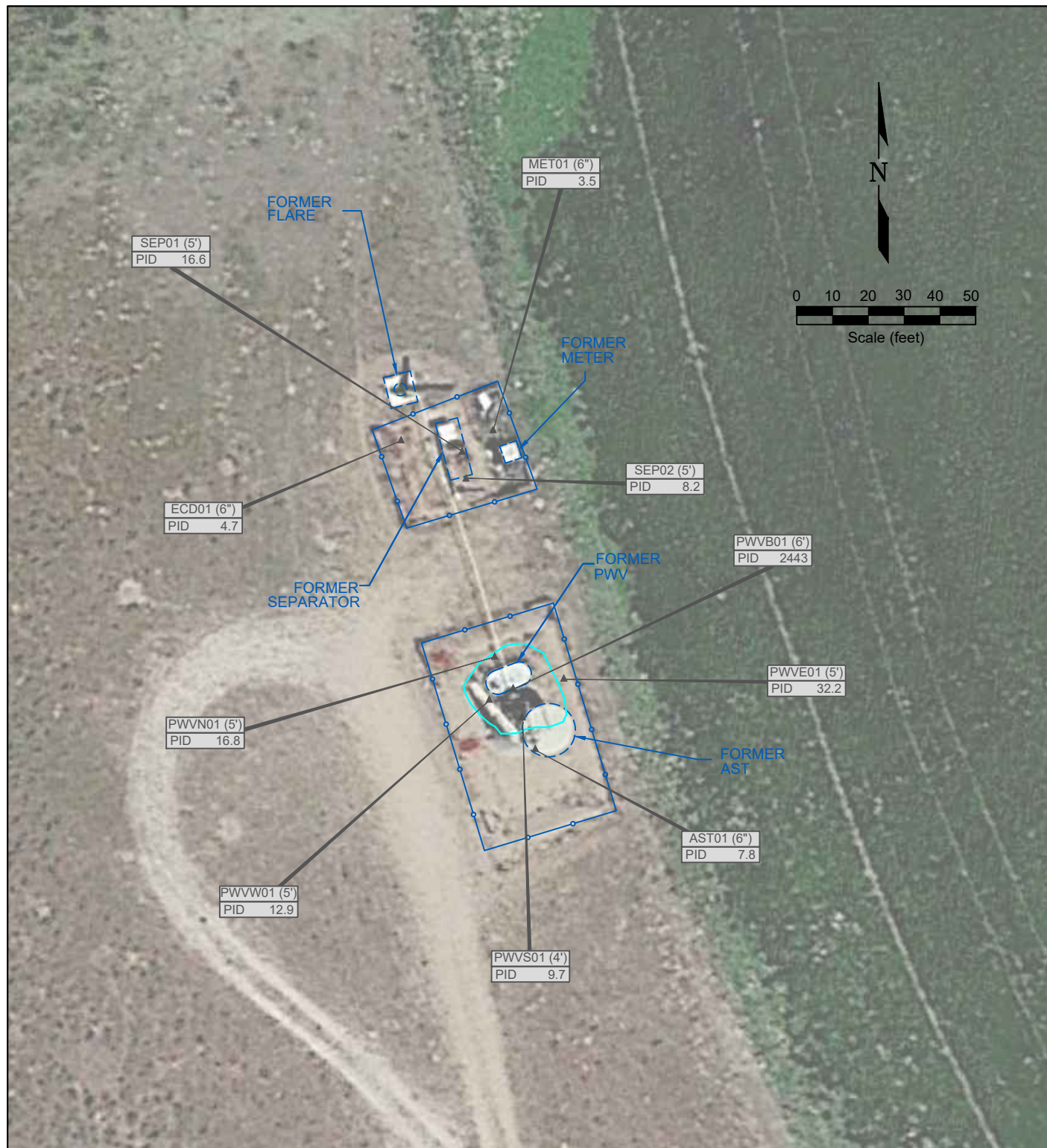
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY INC - PROSPECT CO-64N64W 26NENE
NENE Sec. 26, T4N, R64W, 6th PM
Weld County, Colorado
40.286501°, -104.512236°

Project # CO23-201	API #	Facility # 329937
Date 09/29/2023	Remediation # 27801	Filename 23201T





LEGEND

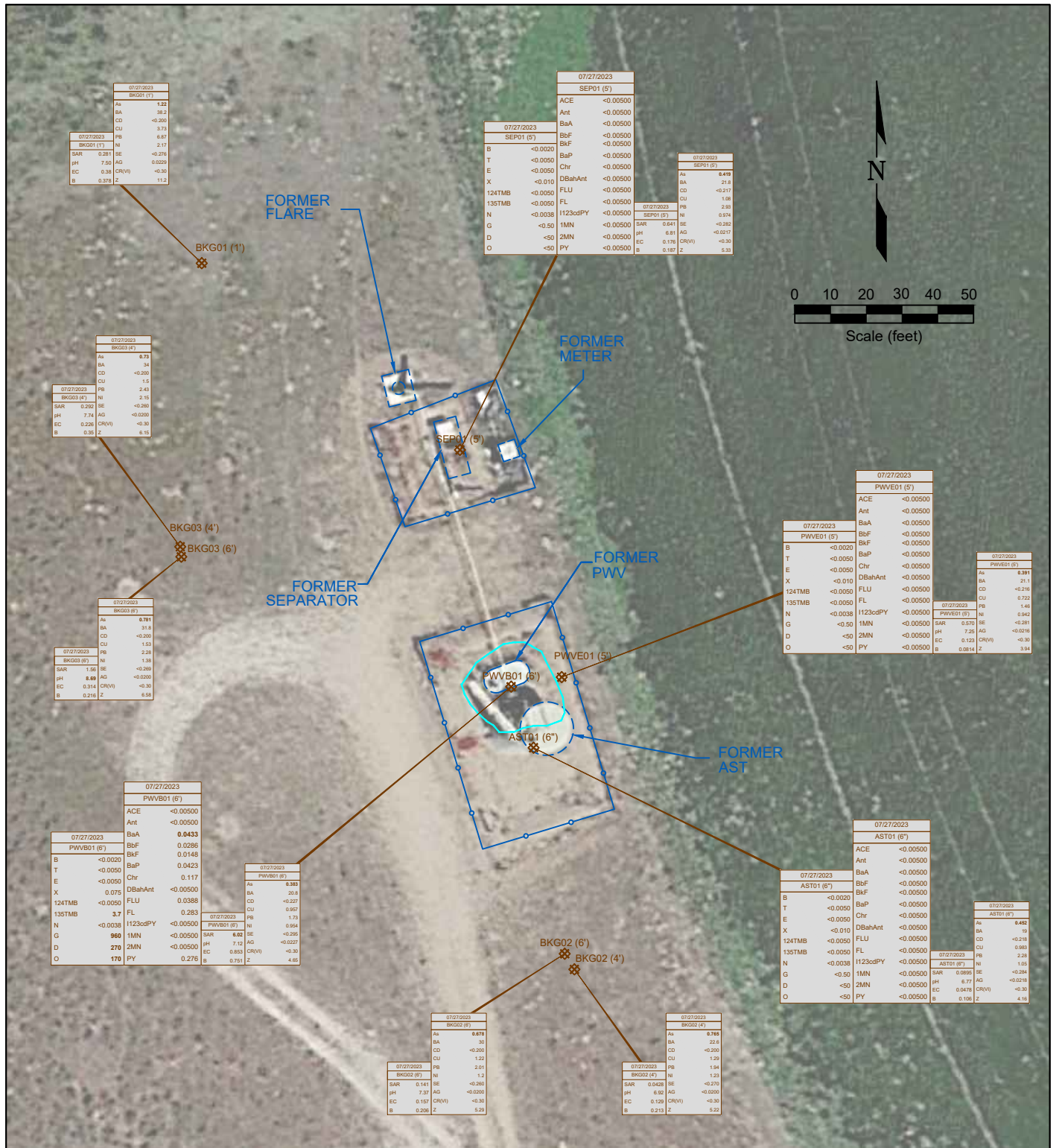
● WELLHEAD LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	FLOW LINE
▲ PID READING LOCATION			CONTAINMENT BERM
			FENCE LINE
			EXTENT OF EXCAVATION
FL01 PID 0.1	PID READING LOCATION IDENTIFICATION PHOTO IONIZATION DETECTION (ppm)		

Figure 2
SITE MAP

NOBLE ENERGY INC - PROSPECT CO-64N64W 26NENE
 NENE Sec. 26, T4N, R64W, 6th PM
 Weld County, Colorado
 40.286501°, -104.512236°

Project # CO23-201	API #	Facility # 329937
Date 09/29/2023	Remediation # 27801	Filename 23201Q





LEGEND

- WELLHEAD LOCATION
- ★ SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FLOW LINE
- CONTAINMENT BERM
- FENCE LINE
- EXTENT OF EXCAVATION

DATE SAMPLED	SAMPLE ID AND DEPTH (ft)	DATE SAMPLED	SAMPLE ID AND DEPTH (ft)	DATE SAMPLED	SAMPLE ID AND DEPTH (ft)	DATE SAMPLED	SAMPLE ID AND DEPTH (ft)
4/7/2023	FL01 (4')	4/7/2023	FL01 (4')	4/7/2023	FL01 (4')	4/7/2023	FL01 (4')
ACE	<0.00500	ACE	<0.00500	ACE	<0.00500	ACE	<0.00500
Ant	<0.00500	Ant	<0.00500	Ant	<0.00500	Ant	<0.00500
BaA	<0.00500	BaA	<0.00500	BaA	<0.00500	BaA	<0.00500
BbF	<0.00500	BbF	<0.00500	BbF	<0.00500	BbF	<0.00500
BbP	<0.00500	BbP	<0.00500	BbP	<0.00500	BbP	<0.00500
Chr	<0.00500	Chr	<0.00500	Chr	<0.00500	Chr	<0.00500
DBahAnt	<0.00500	DBahAnt	<0.00500	DBahAnt	<0.00500	DBahAnt	<0.00500
FLU	<0.00500	FLU	<0.00500	FLU	<0.00500	FLU	<0.00500
FL	<0.00500	FL	<0.00500	FL	<0.00500	FL	<0.00500
123cdPY	<0.00500	123cdPY	<0.00500	123cdPY	<0.00500	123cdPY	<0.00500
1MN	<0.00500	1MN	<0.00500	1MN	<0.00500	1MN	<0.00500
2MN	<0.00500	2MN	<0.00500	2MN	<0.00500	2MN	<0.00500
PY	<0.00500	PY	<0.00500	PY	<0.00500	PY	<0.00500
pH	7.50	pH	7.50	pH	7.50	pH	7.50
EC	0.38	EC	0.38	EC	0.38	EC	0.38
CR(VI)	<0.30	CR(VI)	<0.30	CR(VI)	<0.30	CR(VI)	<0.30
Z	11.2	Z	11.2	Z	11.2	Z	11.2

NOT ANALYZED

Figure 3
SOIL CHEMISTRY MAP

NOBLE ENERGY INC - PROSPECT CO-64N64W 26NENE
NENE Sec. 26, T4N, R64W, 6th PM
Weld County, Colorado
40.286501°, -104.512236°

Project #	API #	Facility #	
CO23-201		329937	
Date	Remediation #	Filename	
12/5/23	27801	23201Q	

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
PROSPECT CO-64N64W 26NENE, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-201

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**		
AST01@6"	07/27/2023	6"	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
PWVB01@6'	07/27/2023	6'	<0.0020	<0.0050	<0.0050	0.075	<0.0050	3.7	<0.0038	960	270	170
PWVE01@4'	07/27/2023	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50
SEP01@5'	07/27/2023	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<50	<0.50	<50

Bold faced values exceed the ECMC Table 915-1 concentrations

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

* Indicates laboratory minimum detection limit in excess of SSL

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

NA - Not analyzed

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
PROSPECT CO-64N64W 26NENE, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-201

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
AST01@6"	07/27/2023	6"	<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
PWVB01@6'	07/27/2023	6'	<0.00500	<0.00500	0.0433	0.0423	0.0286	0.0148	0.117	<0.00500	0.0388	0.283	<0.00500	0.276	<0.00500	<0.00500
PWVE01@4'	07/27/2023	4'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP01@5'	07/27/2023	5'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the ECMC Table 915-1 concentrations

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

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
PROSPECT CO-64N64W 26NENE, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-201

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
AST01@6"	07/27/2023	6"	6.77	0.0478	0.0895	0.106
PWVB01@6'	07/27/2023	6'	7.12	0.853	6.02	0.751
PWVE01@4'	07/27/2023	4'	7.25	0.123	0.570	0.0814
SEP01@5'	07/27/2023	5'	6.81	0.176	0.641	0.187
BKG01@1'	07/27/2023	1'	7.50	0.38	0.281	0.378
BKG02@4'	07/27/2023	4'	6.92	0.129	0.0428	0.213
BKG02@6'	07/27/2023	6'	7.37	0.157	0.141	0.206
BKG03@4'	07/27/2023	4'	7.74	0.226	0.292	0.35
BKG03@6'	07/27/2023	6'	8.69	0.314	1.56	0.216

Bold faced values exceed the ECMC Table 915-1 concentrations

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

NA - Not analyzed

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
PROSPECT CO-64N64W 26NENE, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-201

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
AST01@6"	07/27/2023	6"	0.452	19	<0.218	<0.30	0.983	2.28	1.05	<0.284	<0.0218	4.16
PWVB01@6'	07/27/2023	6'	0.383	20.8	<0.227	<0.30	0.957	1.73	0.954	<0.295	<0.0227	4.65
PWVE01@4'	07/27/2023	4'	0.391	21.1	<0.216	<0.30	0.722	1.46	0.942	<0.281	<0.0216	3.94
SEP01@5'	07/27/2023	5'	0.419	21.8	<0.217	<0.30	1.08	2.93	0.974	<0.282	<0.0217	5.33
BKG01@1'	07/27/2023	1'	1.22	38.2	<0.200	<0.30	3.73	6.87	2.17	<0.276	0.0229	11.2
BKG02@4'	07/27/2023	4'	0.765	22.6	<0.200	<0.30	1.29	1.94	1.23	<0.270	<0.0200	5.22
BKG02@6'	07/27/2023	6'	0.678	30	<0.200	<0.30	1.22	2.01	1.2	<0.260	<0.0200	5.29
BKG03@4'	07/27/2023	4'	0.73	34	<0.200	<0.30	1.5	2.43	2.15	<0.260	<0.0200	6.15
BKG03@6'	07/27/2023	6'	0.781	31.8	<0.200	<0.30	1.53	2.28	1.38	<0.269	<0.0200	6.58

Bold faced values exceed the COGCC Table 915-1 concentrations

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

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

Tank Battery Closure Checklist

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

Additional attachments (optional):	<input type="checkbox"/>	Pit Closure	<input type="checkbox"/>	Wellhead Closure	<input type="checkbox"/>	Flowline Closure	<input checked="" type="checkbox"/>	Partially Buried Vault Closure
Site Name & COGCC Facility Number: PROSPECT CO-64N64W 26NENE		Date: 7/27/2023						Remediation Project #: 27801
Associated Wells: Prospect CO 26-01i4		Age of Site: Unknown						Number of Photos Attached: See attached
Location: (GPS coordinates of southeaster berm) 40.286501, -104.286501								Estimated Facility Size (acres):
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good condition, no observed issues.								
USCS Soil Type: Sand (SP)					Estimated Depth to Groundwater:			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) No observed hydrocarbon impacted soil or spills.								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) No observed salt crusted soil or impacted vegetation.								
Tanks								
Tank Contents	Crude							
Size (barrels)	500							
Age	Unknown							
Construction Material	Steel							
Tank type (AST/DRU, etc.)	AST							
Visual Integrity of Tank	Good - per crew							
Condition of tank footprint	Good condition							
PID Readings	7.8 ppm							
Soil impacts present at valves or hatches?	None observed							
PID Readings								
Sample taken? Location/ Sample ID#	AST01@6"							
Photo Number(s)	See attached							
Other observations regarding tanks:								
Separators								
Separator size	Unknown							
Vertical or Horizontal	Horizontal							
Age	Unknown							
Soil impacts observed? If yes,	None observed							
PID Readings	8.2 to 16.6 ppm							
Sample taken? Location/ Sample ID#	SEP01@5' and SEP02@2'							
Photo Number(s)	See attached							
Other observations regarding separators								
Third Party Equipment								
Type	Meter shed							
Age	Unknown							

Third Party	Unknown													
Removal Date	Unknown													
Sample taken?	MET01 @6"													
PID Readings	3.5 ppm													
Photo Number(s)	See attached													
Other Facility Equipment														
Equipment type	ECD													
Equipment Condition	Good - per crew													
Age	Unknown													
Soil impacts observed during	None observed													
PID Readings	4.7 ppm													
Sample taken?	ECD01 @6"													
Photo Number(s)	See attached													
Other observations regarding other facility or third party equipment:														
Summary														
Was impacted soil identified? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards														
Total number of samples field screened: 5					Total number of samples collected: 10									
Highest PID Reading: 16.6 ppm					Total number of samples submitted to lab for analysis: 7									
If more than 10 cubic yards of impacted soil were observed: N/A														
Vertical extent:					Estimated spill volume:									
Lateral extent:					Volume of soil removed:									
Is additional investigation required?														
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - not impacted or in contact with impacted soils <input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils														
Measured depth to groundwater:					Was remedial groundwater removal conducted? <input type="checkbox"/> Yes <input type="checkbox"/> No									
Date Groundwater was encountered:					Commencement date of removal:									
Sheen on groundwater? <input type="checkbox"/> Yes <input type="checkbox"/> No					Volume of groundwater removed prior to sampling:									
Free product observed? <input type="checkbox"/> Yes <input type="checkbox"/> No					Volume of groundwater removed post sampling:									
Total number of samples collected:					Total Volume of groundwater removed:									
Total number of samples submitted to lab for analysis:														

Buried or Partially Buried Vessel Closure Checklist

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

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure	X	Tank Battery Closure
Site Name & COGCC Facility Number: PROSPECT CO-64N64W 26NENE		Date: 7/27/2023						Remediation Project #: 27801
Associated Wells: Prospect CO 26-014		Age of Site: Unknown						Number of Photos Attached: See attached
Location: (GPS coordinates of vault or southeastern tank berm for multiple) 40.286501, -104.286501							Estimated Facility Size (acres):	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) <div style="text-align: center;">Good condition, no observed issues.</div>								
USCS Soil Type: Sand (SP)					Estimated Depth to Groundwater: ~20 to 25 feet			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) Grey soil with elevated PID measurements identified at the base of the produced water vault excavation (PWVB01 @6')								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) No observed salt crusted soil or impacted vegetation.								
Buried or Partially Buried Vessels								
Tank Contents	Produced water							
Size (barrels)	~50							
Age	Unknown							
Construction Material	Concrete							
Visual Integrity of Tank	Good - per crew							
Condition of tank foundation	Grey soil at base							
PID Readings	9.7 to 2,443 ppm							
Condition of dump line	Good condition							
PID Readings	16.8 ppm							
Sample taken? Location/Sample ID#	See attached figure							
Photo Number(s)	See attached							
Other observations regarding partially buried vessels:								
Summary								
Was impacted soil identified? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards								
Total number of samples field screened: 5					Total number of samples collected: 5			
Highest PID Reading: 2,443 ppm					Total number of samples submitted to lab for analysis: 2			
If more than 10 cubic yards of impacted soil were observed: Impacted soil has not been removed yet.								
Vertical extent:					Estimated spill volume:			
Lateral extent:					Volume of soil removed:			
Is additional investigation required? Yes								
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - not impacted or in contact with impacted soils <input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils								
Measured depth to groundwater:					Was remedial groundwater removal conducted? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date Groundwater was encountered:					Commencement date of removal:			
Sheen on groundwater? <input type="checkbox"/> Yes <input type="checkbox"/> No					Volume of groundwater removed prior to sampling:			
Free product observed? <input type="checkbox"/> Yes <input type="checkbox"/> No					Volume of groundwater removed post sampling:			
Total number of samples collected:					Total Volume of groundwater removed:			
Total number of samples submitted to lab for analysis:								

Photo Log



Description:

Facility Placard

Photo Log

DIRECTION
NE (T)

40.28649°N
104.51215°W

ACCURACY 5 m
DATUM WGS84



Prospect C0 64N64W
26NENE

PWV Excavation

2023-07-21
10:10:49-06:00

Description:

PWV Excavation Facing NE

Photo Log

DIRECTION
E (T)

40.28656°N
104.51220°W

ACCURACY 5 m
DATUM WGS84



Prospect C0 64N64W
26NENE

PWV Excavation

2023-07-21
10:11:03-06:00

Description:

PWV Excavation Facing E

Photo Log

DIRECTION
SW (T)

40.28656°N
104.51209°W

ACCURACY 5 m
DATUM WGS84



Prospect C0 64N64W
26NENE

PWV Excavation

2023-07-21
10:11:26-06:00

Description:

PWV Excavation Facing SW

Photo Log



Description:

PWV Excavation Facing NW

Photo Log

DIRECTION
N (T)

40.28648°N
104.51212°W

ACCURACY 5 m
DATUM WGS84



Prospect C0 64N64W
26NENE

PWV Excavation

2023-07-21
10:11:51-06:00

Description:

PWV Excavation Facing N

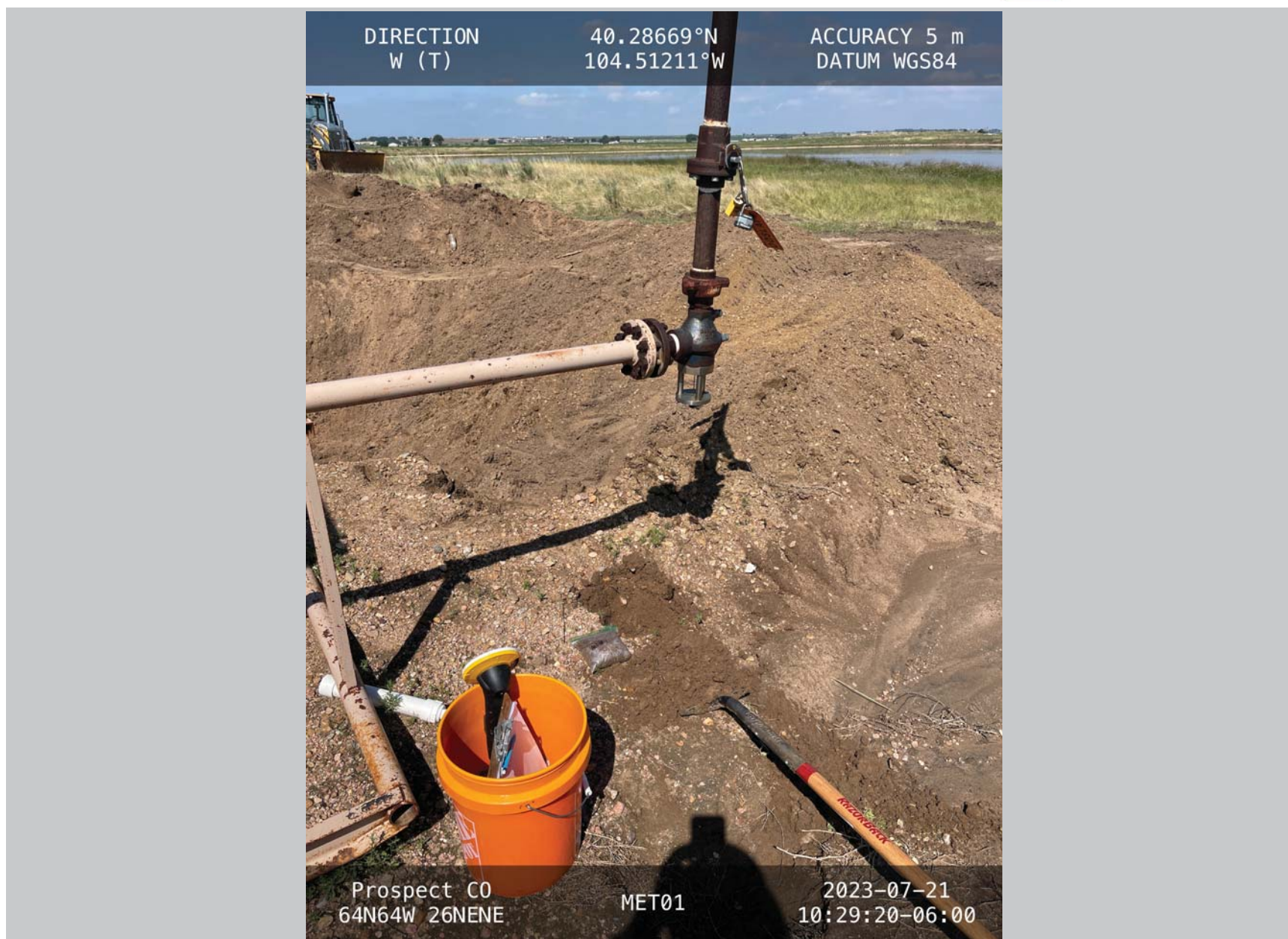
Photo Log



Description:

AST01@6"

Photo Log



Description:

MET01@6"

Photo Log



Description:

Separator Excavation Facing S (SEP02@5' Far & SEP01@5' Close)

Photo Log



Description:

ECD01@6"

Photo Log



Description:

BKG01@1'

Photo Log



Description:

BKG02@4' & BKG02@6'

Photo Log



Description:

BKG03@4' & BKG03@6'

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 14, 2023

Paul Henchan

Fremont Environmental

PO Box 1289

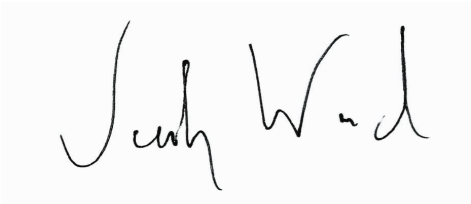
Wellington, CO 80549

RE: Noble - Prospect CO 26-0114

Work Order #2307533

Enclosed are the results of analyses for samples received by Summit Scientific on 07/27/23 16:30. 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 - Prospect CO 26-0114

Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@6"	2307533-01	Soil	07/27/23 00:00	07/27/23 16:30
SEP01@5'	2307533-02	Soil	07/27/23 00:00	07/27/23 16:30
PWVE01@4'	2307533-03	Soil	07/27/23 00:00	07/27/23 16:30
PWVB01@6'	2307533-04	Soil	07/27/23 00:00	07/27/23 16:30
BKG01@1'	2307533-05	Soil	07/27/23 00:00	07/27/23 16:30
BKG02@4'	2307533-06	Soil	07/27/23 00:00	07/27/23 16:30
BKG02@6'	2307533-07	Soil	07/27/23 00:00	07/27/23 16:30
BKG03@4'	2307533-08	Soil	07/27/23 00:00	07/27/23 16:30
BKG03@6'	2307533-09	Soil	07/27/23 00:00	07/27/23 16:30
26-0114 FL01@4'	2307533-10	Soil	07/27/23 00:00	07/27/23 16:30

Case Narrative

Chris Lattes requested 915 Metals, SAR, EC, pH, & Boron be added to BKG01@1', BKG02@4', BKG02@6', BKG03@4', & BKG03@6' on 8/7/2023. This report includes those results.

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

2307533

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page

of

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: on file

E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG and ChrisL. @fremontenv.com

City/State/Zip:

Bill to Noble UWRWE - A3174 - ABN

Phone:

Project Name: Prospect CO 26-81I4

Sampler Name: Chris Lattes

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	TPH, BTEX, TMBs, Naph	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate	HOLD					
1	AST01 @ 6"	7/21/23		2			X			X				X	X	X	X						
2	SEP01 @ 5'			2			X							X	X	X	X						
3	PWVE01 @ 4'			2			X							X	X	X	X						
4	PWVB01 @ 6'			2			X							X	X	X	X						
5	BK601 @ 1'			2			X									X	X				X	Hold	CL
6	BK602 @ 4'			2			X									X	X				X		
7	BK602 @ 6'			2			X									X	X				X		
8	BK603 @ 4'			2			X									X	X				X		
9	BK603 @ 6'			2			X									X	X				X	Hold	
10	26-81I4 FL @ 4'	7/21/23		2			X			X				X	X	X	X						

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time	(Check)	Notes: 26-81I4 FL & Prospect Co 64N64W 26 NENE Facility
Chris Lattes	7/27/23 15:25	S2	7/27/23 15:25	Same Day	72 hours	
				24 hours	Standard	
				48 hours		
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:		
S2	7/27/23 1630	[Signature]	7/27/23 1630	Temperature Upon Receipt:	10.9	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Samples Intact:	(P) No	

S₂

Sample Receipt Checklist

S2 Work Order# 2307533Client: Fremont Client Project ID: Prospect CO 2001 I4Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 10.9Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on file
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

7/27/23
Date/Time

11/23



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114

Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

AST01@6"
2307533-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGG0980	07/28/23	07/28/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0418	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0432	108 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGG0981	07/28/23	07/28/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.7	93.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Prospect CO 26-0114

Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

AST01@6"
2307533-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGG0953	07/28/23	07/29/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0278	83.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0287	86.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.106	0.0100	mg/L	1	BGG1027	07/31/23	08/04/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/27/23 00:00**

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

Project: Noble - Prospect CO 26-0114

Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

AST01@6"
2307533-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.452	0.200	mg/kg dry	1	BGG0993	07/31/23	08/04/23	EPA 6020B
Barium	19.0	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.983	0.400	"	"	"	"	"	"
Lead	2.28	0.200	"	"	"	"	"	"
Nickel	1.05	0.400	"	"	"	"	"	"
Selenium	ND	0.284	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	4.16	0.400	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGG1022	07/31/23	07/31/23	EPA 7196A	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.6	0.0546	mg/L dry	1	BGG1010	07/31/23	08/04/23	EPA 6020B	
Magnesium	12.8	0.0546	"	"	"	"	"	"	
Sodium	2.36	0.0546	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0895	0.00100	units	1	BGH0184	08/04/23	08/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Wellington CO, 80549

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

AST01@6"
2307533-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.7		%	1	BGG1018	07/31/23	07/31/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.0478	0.0100	mmhos/cm	1	BGH0033	08/01/23	08/01/23	EPA 120.1	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.77		pH Units	1	BGH0034	08/01/23	08/01/23	EPA 9045D	

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Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

SEP01@5'
2307533-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGG0980	07/28/23	07/28/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0368	91.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0414	103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0431	108 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGG0981	07/28/23	07/28/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	11.5	92.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Wellington CO, 80549

Project: Noble - Prospect CO 26-0114

Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

SEP01@5'
2307533-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGG0953	07/28/23	07/29/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0248	74.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0277	83.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/27/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.187	0.0100	mg/L	1	BGG1027	07/31/23	08/04/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/27/23 00:00**

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

Project: Noble - Prospect CO 26-0114

Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

SEP01@5'
2307533-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	0.419	0.200	mg/kg dry	1	BGG0993	07/31/23	08/04/23	EPA 6020B
Barium	21.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	1.08	0.400	"	"	"	"	"	"
Lead	2.93	0.200	"	"	"	"	"	"
Nickel	0.974	0.400	"	"	"	"	"	"
Selenium	ND	0.282	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	5.33	0.400	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGG1022	07/31/23	07/31/23	EPA 7196A	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	52.3	0.0543	mg/L dry	1	BGG1010	07/31/23	08/04/23	EPA 6020B	
Magnesium	25.4	0.0543	"	"	"	"	"	"	
Sodium	22.6	0.0543	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.641	0.00100	units	1	BGH0184	08/04/23	08/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

SEP01@5'
2307533-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.0		%	1	BGG1018	07/31/23	07/31/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.176	0.0100	mmhos/cm	1	BGH0033	08/01/23	08/01/23	EPA 120.1	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.81		pH Units	1	BGH0034	08/01/23	08/01/23	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

PWVE01@4'
2307533-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGG0980	07/28/23	07/28/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0374	93.4 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0419	105 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0438	110 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGG0981	07/28/23	07/28/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	10.8	86.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

PWVE01@4'
2307533-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGG0953	07/28/23	07/29/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0254	76.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0247	74.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/27/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0814	0.0100	mg/L	1	BGG1027	07/31/23	08/04/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/27/23 00:00**

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

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

PWVE01@4'
2307533-03 (Soil)

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Total Metals by EPA 6020B

Arsenic	0.391	0.200	mg/kg dry	1	BGG0993	07/31/23	08/04/23	EPA 6020B
Barium	21.1	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.722	0.400	"	"	"	"	"	"
Lead	1.46	0.200	"	"	"	"	"	"
Nickel	0.942	0.400	"	"	"	"	"	"
Selenium	ND	0.281	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	3.94	0.400	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGG1022	07/31/23	07/31/23	EPA 7196A	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.9	0.0540	mg/L dry	1	BGG1010	07/31/23	08/04/23	EPA 6020B	
Magnesium	15.5	0.0540	"	"	"	"	"	"	
Sodium	15.7	0.0540	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.570	0.00100	units	1	BGH0184	08/04/23	08/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

PWVE01@4'
2307533-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.6		%	1	BGG1018	07/31/23	07/31/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.123	0.0100	mmhos/cm	1	BGH0033	08/01/23	08/01/23	EPA 120.1	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.25		pH Units	1	BGH0034	08/01/23	08/01/23	EPA 9045D	

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Project: Noble - Prospect CO 26-0114

Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

PWVB01@6'
2307533-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGG0980	07/28/23	07/29/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.075	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	3.7	0.050	"	10	"	"	07/28/23	"	
Naphthalene	ND	0.0038	"	1	"	"	07/29/23	"	
Gasoline Range Hydrocarbons	270	5.0	"	10	"	"	07/28/23	"	

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0357	89.2 %	50-150		"	"	07/29/23	"	
Surrogate: Toluene-d8	0.0337	84.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.182	455 %	50-150		"	"	"	"	S-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	960	50	mg/kg	1	BGG0981	07/28/23	07/28/23	EPA 8015M	
C28-C36 (ORO)	170	50	"	"	"	"	"	"	

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	11.0	88.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

PWVB01@6'
2307533-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGG0953	07/28/23	07/29/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.0433	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	0.0423	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	0.0286	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	0.0148	0.00500	"	"	"	"	"	"	
Chrysene	0.117	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	0.0388	0.00500	"	"	"	"	"	"	
Fluorene	0.283	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	0.276	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0276	82.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0203	60.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/27/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.751	0.0100	mg/L	1	BGG1027	07/31/23	08/04/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/27/23 00:00**

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

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

PWVB01@6'
2307533-04 (Soil)

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Total Metals by EPA 6020B

Arsenic	0.383	0.200	mg/kg dry	1	BGG0993	07/31/23	08/04/23	EPA 6020B
Barium	20.8	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	0.957	0.400	"	"	"	"	"	"
Lead	1.73	0.200	"	"	"	"	"	"
Nickel	0.954	0.400	"	"	"	"	"	"
Selenium	ND	0.295	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	4.65	0.400	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGG1022	07/31/23	07/31/23	EPA 7196A	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	55.7	0.0567	mg/L dry	1	BGG1010	07/31/23	08/04/23	EPA 6020B	
Magnesium	15.4	0.0567	"	"	"	"	"	"	
Sodium	197	0.0567	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.02	0.00100	units	1	BGH0184	08/04/23	08/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

PWVB01@6'
2307533-04 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.2		%	1	BGG1018	07/31/23	07/31/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.853	0.0100	mmhos/cm	1	BGH0033	08/01/23	08/01/23	EPA 120.1	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.12		pH Units	1	BGH0034	08/01/23	08/01/23	EPA 9045D	

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Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

BKG01@1'
2307533-05 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.378	0.0100	mg/L	1	BGH0283	08/08/23	08/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	1.22	0.200	mg/kg dry	1	BGH0271	08/08/23	08/08/23	EPA 6020B	
Barium	38.2	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	3.73	0.400	"	"	"	"	"	"	
Lead	6.87	0.200	"	"	"	"	"	"	
Nickel	2.17	0.400	"	"	"	"	"	"	
Selenium	ND	0.276	"	"	"	"	"	"	
Silver	0.0229	0.0200	"	"	"	"	"	"	
Zinc	11.2	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/27/23 00:00**

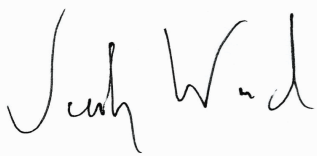
Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0273	08/08/23	08/08/23	EPA 7196A	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	21.4	0.0530	mg/L dry	1	BGH0261	08/07/23	08/08/23	EPA 6020B	
Magnesium	8.77	0.0530	"	"	"	"	"	"	
Sodium	6.11	0.0530	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

BKG01@1'
2307533-05 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.281	0.00100	units	1	BGH0339	08/09/23	08/09/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.3		%	1	BGH0281	08/08/23	08/08/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.380	0.0100	mmhos/cm	1	BGH0285	08/08/23	08/08/23	EPA 120.1	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.50		pH Units	1	BGH0284	08/08/23	08/08/23	EPA 9045D	

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Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

BKG02@4'
2307533-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.213	0.0100	mg/L	1	BGH0283	08/08/23	08/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.765	0.200	mg/kg dry	1	BGH0271	08/08/23	08/08/23	EPA 6020B	
Barium	22.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.29	0.400	"	"	"	"	"	"	
Lead	1.94	0.200	"	"	"	"	"	"	
Nickel	1.23	0.400	"	"	"	"	"	"	
Selenium	ND	0.270	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	5.22	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0273	08/08/23	08/08/23	EPA 7196A	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	61.7	0.0519	mg/L dry	1	BGH0261	08/07/23	08/08/23	EPA 6020B	
Magnesium	25.2	0.0519	"	"	"	"	"	"	
Sodium	1.58	0.0519	"	"	"	"	"	"	

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Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

BKG02@4'
2307533-06 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0428	0.00100	units	1	BGH0339	08/09/23	08/09/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.4		%	1	BGH0281	08/08/23	08/08/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.129	0.0100	mmhos/cm	1	BGH0285	08/08/23	08/08/23	EPA 120.1	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.92		pH Units	1	BGH0284	08/08/23	08/08/23	EPA 9045D	

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Project: Noble - Prospect CO 26-0114

Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

BKG02@6'
2307533-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.206	0.0100	mg/L	1	BGH0283	08/08/23	08/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.678	0.200	mg/kg dry	1	BGH0271	08/08/23	08/08/23	EPA 6020B	
Barium	30.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.22	0.400	"	"	"	"	"	"	
Lead	2.01	0.200	"	"	"	"	"	"	
Nickel	1.20	0.400	"	"	"	"	"	"	
Selenium	ND	0.274	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	5.29	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/27/23 00:00**


Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0273	08/08/23	08/08/23	EPA 7196A	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	62.1	0.0528	mg/L dry	1	BGH0261	08/07/23	08/08/23	EPA 6020B	
Magnesium	16.2	0.0528	"	"	"	"	"	"	
Sodium	4.82	0.0528	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

BKG02@6'
2307533-07 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.141	0.00100	units	1	BGH0339	08/09/23	08/09/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	94.8		%	1	BGH0281	08/08/23	08/08/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.157	0.0100	mmhos/cm	1	BGH0285	08/08/23	08/08/23	EPA 120.1	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.37		pH Units	1	BGH0284	08/08/23	08/08/23	EPA 9045D	

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Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

BKG03@4'
2307533-08 (Soil)

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Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.350	0.0100	mg/L	1	BGH0283	08/08/23	08/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.730	0.200	mg/kg dry	1	BGH0271	08/08/23	08/08/23	EPA 6020B	
Barium	34.0	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.50	0.400	"	"	"	"	"	"	
Lead	2.43	0.200	"	"	"	"	"	"	
Nickel	2.15	0.400	"	"	"	"	"	"	
Selenium	ND	0.277	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	6.15	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/27/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0273	08/08/23	08/08/23	EPA 7196A	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	39.1	0.0534	mg/L dry	1	BGH0261	08/07/23	08/08/23	EPA 6020B	
Magnesium	12.2	0.0534	"	"	"	"	"	"	
Sodium	8.15	0.0534	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

BKG03@4'
2307533-08 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.292	0.00100	units	1	BGH0339	08/09/23	08/09/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.7		%	1	BGH0281	08/08/23	08/08/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.226	0.0100	mmhos/cm	1	BGH0285	08/08/23	08/08/23	EPA 120.1	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.74		pH Units	1	BGH0284	08/08/23	08/08/23	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114

Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

BKG03@6'
2307533-09 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Boron	0.216	0.0100	mg/L	1	BGH0283	08/08/23	08/09/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Arsenic	0.781	0.200	mg/kg dry	1	BGH0271	08/08/23	08/08/23	EPA 6020B	
Barium	31.8	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.53	0.400	"	"	"	"	"	"	
Lead	2.28	0.200	"	"	"	"	"	"	
Nickel	1.38	0.400	"	"	"	"	"	"	
Selenium	ND	0.269	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	6.58	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGH0273	08/08/23	08/08/23	EPA 7196A	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Calcium	91.2	0.0517	mg/L dry	1	BGH0261	08/07/23	08/08/23	EPA 6020B	
Magnesium	29.6	0.0517	"	"	"	"	"	"	
Sodium	67.1	0.0517	"	"	"	"	"	"	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

BKG03@6'
2307533-09 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.56	0.00100	units	1	BGH0339	08/09/23	08/09/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.8		%	1	BGH0281	08/08/23	08/08/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.314	0.0100	mmhos/cm	1	BGH0285	08/08/23	08/08/23	EPA 120.1	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.69		pH Units	1	BGH0284	08/08/23	08/08/23	EPA 9045D	

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Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

26-0114 FL01@4'
2307533-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	0.0032	0.0020	mg/kg	1	BGG0980	07/28/23	07/28/23	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.057	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.77	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.20	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.096	0.0050	"	"	"	"	"	"	
Naphthalene	0.010	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	14	0.50	"	"	"	"	"	"	

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0380	95.0 %	50-150		"	"	"	"	
<i>Surrogate: Toluene-d8</i>	0.0412	103 %	50-150		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0591	148 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGG0981	07/28/23	07/29/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
<i>Surrogate: o-Terphenyl</i>	11.1	88.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
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Wellington CO, 80549

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

26-0114 FL01@4'
2307533-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGG0953	07/28/23	07/29/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0317	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0453	0.00500	"	"	"	"	"	"	

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0198	59.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0173	51.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **07/27/23 00:00**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.164	0.0100	mg/L	1	BGG1027	07/31/23	08/04/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **07/27/23 00:00**

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

Project: Noble - Prospect CO 26-0114

Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

26-0114 FL01@4'
2307533-10 (Soil)

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Total Metals by EPA 6020B

Arsenic	0.635	0.200	mg/kg dry	1	BGG0993	07/31/23	08/04/23	EPA 6020B
Barium	43.9	0.400	"	"	"	"	"	"
Cadmium	ND	0.200	"	"	"	"	"	"
Copper	2.37	0.400	"	"	"	"	"	"
Lead	3.66	0.200	"	"	"	"	"	"
Nickel	1.91	0.400	"	"	"	"	"	"
Selenium	ND	0.322	"	"	"	"	"	"
Silver	ND	0.0200	"	"	"	"	"	"
Zinc	7.77	0.400	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGG1022	07/31/23	07/31/23	EPA 7196A	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	18.1	0.0620	mg/L dry	1	BGG1010	07/31/23	08/04/23	EPA 6020B	
Magnesium	5.46	0.0620	"	"	"	"	"	"	
Sodium	50.9	0.0620	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.69	0.00100	units	1	BGH0184	08/04/23	08/04/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

26-0114 FL01@4'
2307533-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.6		%	1	BGG1018	07/31/23	07/31/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.679	0.0100	mmhos/cm	1	BGH0033	08/01/23	08/01/23	EPA 120.1	

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

Date Sampled: **07/27/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.50		pH Units	1	BGH0034	08/01/23	08/01/23	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

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 BGG0980 - EPA 5030 Soil MS

Blank (BGG0980-BLK1)

Prepared & Analyzed: 07/28/23

Benzene	ND	0.0020	mg/kg
Toluene	ND	0.0050	"
Ethylbenzene	ND	0.0050	"
Xylenes (total)	ND	0.010	"
1,2,4-Trimethylbenzene	ND	0.0050	"
1,3,5-Trimethylbenzene	ND	0.0050	"
Naphthalene	ND	0.0038	"
Gasoline Range Hydrocarbons	ND	0.50	"

Surrogate: 1,2-Dichloroethane-d4	0.0361	"	0.0400	90.3	50-150
Surrogate: Toluene-d8	0.0429	"	0.0400	107	50-150
Surrogate: 4-Bromofluorobenzene	0.0448	"	0.0400	112	50-150

LCS (BGG0980-BS1)

Prepared & Analyzed: 07/28/23

Benzene	0.0782	0.0020	mg/kg	0.0750	104	70-130
Toluene	0.0803	0.0050	"	0.0750	107	70-130
Ethylbenzene	0.0683	0.0050	"	0.0750	91.1	70-130
1,2,4-Trimethylbenzene	0.0628	0.0050	"	0.0750	83.8	70-130
1,3,5-Trimethylbenzene	0.0644	0.0050	"	0.0750	85.8	70-130
Naphthalene	0.0938	0.0038	"	0.0750	125	70-130

Surrogate: 1,2-Dichloroethane-d4	0.0325	"	0.0400	81.2	50-150
Surrogate: Toluene-d8	0.0432	"	0.0400	108	50-150
Surrogate: 4-Bromofluorobenzene	0.0441	"	0.0400	110	50-150

Matrix Spike (BGG0980-MS1)

Source: 2307532-01

Prepared & Analyzed: 07/28/23

Benzene	0.0825	0.0020	mg/kg	0.0750	ND	110	70-130
Toluene	0.0853	0.0050	"	0.0750	ND	114	70-130
Ethylbenzene	0.0732	0.0050	"	0.0750	ND	97.6	70-130
1,2,4-Trimethylbenzene	0.0694	0.0050	"	0.0750	ND	92.6	70-130
1,3,5-Trimethylbenzene	0.0705	0.0050	"	0.0750	ND	94.0	70-130
Naphthalene	0.0969	0.0038	"	0.0750	ND	129	70-130

Surrogate: 1,2-Dichloroethane-d4	0.0347	"	0.0400	86.8	50-150
Surrogate: Toluene-d8	0.0429	"	0.0400	107	50-150
Surrogate: 4-Bromofluorobenzene	0.0431	"	0.0400	108	50-150

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Wellington CO, 80549

Project: Noble - Prospect CO 26-0114

Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

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 BGG0980 - EPA 5030 Soil MS

Matrix Spike Dup (BGG0980-MSD1)	Source: 2307532-01			Prepared & Analyzed: 07/28/23						
Benzene	0.0862	0.0020	mg/kg	0.0750	ND	115	70-130	4.30	30	
Toluene	0.0900	0.0050	"	0.0750	ND	120	70-130	5.31	30	
Ethylbenzene	0.0769	0.0050	"	0.0750	ND	103	70-130	4.92	30	
1,2,4-Trimethylbenzene	0.0742	0.0050	"	0.0750	ND	99.0	70-130	6.64	30	
1,3,5-Trimethylbenzene	0.0752	0.0050	"	0.0750	ND	100	70-130	6.38	30	
Naphthalene	0.0934	0.0038	"	0.0750	ND	125	70-130	3.66	30	
Surrogate: 1,2-Dichloroethane-d4	0.0376		"	0.0400		94.0	50-150			
Surrogate: Toluene-d8	0.0435		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0426		"	0.0400		106	50-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGG0981 - EPA 3550A

Blank (BGG0981-BLK1)

Prepared & Analyzed: 07/28/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	11.5		"	12.5		91.6	30-150			

LCS (BGG0981-BS1)

Prepared & Analyzed: 07/28/23

C10-C28 (DRO)	442	50	mg/kg	500		88.3	70-130			
Surrogate: o-Terphenyl	11.6		"	12.5		92.5	30-150			

Matrix Spike (BGG0981-MS1)

Source: 2307532-01

Prepared & Analyzed: 07/28/23

C10-C28 (DRO)	438	50	mg/kg	500	6.25	86.4	70-130			
Surrogate: o-Terphenyl	11.6		"	12.5		92.8	30-150			


Matrix Spike Dup (BGG0981-MSD1)

Source: 2307532-01

Prepared & Analyzed: 07/28/23

C10-C28 (DRO)	478	50	mg/kg	500	6.25	94.4	70-130	8.73	20	
Surrogate: o-Terphenyl	11.2		"	12.5		89.5	30-150			

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PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

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 BGG0953 - EPA 5030 Soil MS

Blank (BGG0953-BLK1)

Prepared: 07/28/23 Analyzed: 07/29/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0271		"	0.0333		81.2	40-150			
Surrogate: Fluoranthene-d10	0.0279		"	0.0333		83.7	40-150			

LCS (BGG0953-BS1)

Prepared: 07/28/23 Analyzed: 07/29/23

Acenaphthene	0.0337	0.00500	mg/kg	0.0333	101	31-137
Anthracene	0.0378	0.00500	"	0.0333	114	30-120
Benzo (a) anthracene	0.0372	0.00500	"	0.0333	112	30-120
Benzo (a) pyrene	0.0373	0.00500	"	0.0333	112	30-120
Benzo (b) fluoranthene	0.0397	0.00500	"	0.0333	119	30-120
Benzo (k) fluoranthene	0.0394	0.00500	"	0.0333	118	30-120
Chrysene	0.0363	0.00500	"	0.0333	109	30-120
Dibenz (a,h) anthracene	0.0252	0.00500	"	0.0333	75.7	30-120
Fluoranthene	0.0366	0.00500	"	0.0333	110	30-120
Fluorene	0.0335	0.00500	"	0.0333	101	30-120
Indeno (1,2,3-cd) pyrene	0.0204	0.00500	"	0.0333	61.1	30-120
Pyrene	0.0383	0.00500	"	0.0333	115	35-142
1-Methylnaphthalene	0.0244	0.00500	"	0.0333	73.1	35-142
2-Methylnaphthalene	0.0429	0.00500	"	0.0333	129	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0317		"	0.0333	95.1	40-150
Surrogate: Fluoranthene-d10	0.0333		"	0.0333	99.8	40-150

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

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 BGG0953 - EPA 5030 Soil MS

Matrix Spike (BGG0953-MS1)			Source: 2307531-01		Prepared: 07/28/23 Analyzed: 07/29/23						
Acenaphthene	0.0238	0.00500	mg/kg	0.0333	ND	71.3	31-137				
Anthracene	0.0249	0.00500	"	0.0333	ND	74.7	30-120				
Benzo (a) anthracene	0.0255	0.00500	"	0.0333	ND	76.6	30-120				
Benzo (a) pyrene	0.0237	0.00500	"	0.0333	ND	71.2	30-120				
Benzo (b) fluoranthene	0.0252	0.00500	"	0.0333	ND	75.6	30-120				
Benzo (k) fluoranthene	0.0243	0.00500	"	0.0333	ND	73.0	30-120				
Chrysene	0.0239	0.00500	"	0.0333	ND	71.6	30-120				
Dibenz (a,h) anthracene	0.0151	0.00500	"	0.0333	ND	45.4	30-120				
Fluoranthene	0.0258	0.00500	"	0.0333	ND	77.3	30-120				
Fluorene	0.0234	0.00500	"	0.0333	ND	70.3	30-120				
Indeno (1,2,3-cd) pyrene	0.0124	0.00500	"	0.0333	ND	37.1	30-120				
Pyrene	0.0254	0.00500	"	0.0333	ND	76.1	35-142				
1-Methylnaphthalene	0.0147	0.00500	"	0.0333	ND	44.2	15-130				
2-Methylnaphthalene	0.0306	0.00500	"	0.0333	ND	91.9	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0241		"	0.0333		72.3	40-150				
Surrogate: Fluoranthene-d10	0.0235		"	0.0333		70.5	40-150				

Matrix Spike Dup (BGG0953-MSD1)			Source: 2307531-01		Prepared: 07/28/23 Analyzed: 07/29/23						
Acenaphthene	0.0233	0.00500	mg/kg	0.0333	ND	69.8	31-137	2.06	30		
Anthracene	0.0228	0.00500	"	0.0333	ND	68.3	30-120	8.99	30		
Benzo (a) anthracene	0.0204	0.00500	"	0.0333	ND	61.3	30-120	22.3	30		
Benzo (a) pyrene	0.0198	0.00500	"	0.0333	ND	59.5	30-120	17.9	30		
Benzo (b) fluoranthene	0.0208	0.00500	"	0.0333	ND	62.3	30-120	19.2	30		
Benzo (k) fluoranthene	0.0205	0.00500	"	0.0333	ND	61.4	30-120	17.3	30		
Chrysene	0.0203	0.00500	"	0.0333	ND	60.9	30-120	16.1	30		
Dibenz (a,h) anthracene	0.0118	0.00500	"	0.0333	ND	35.5	30-120	24.5	30		
Fluoranthene	0.0220	0.00500	"	0.0333	ND	65.9	30-120	15.8	30		
Fluorene	0.0225	0.00500	"	0.0333	ND	67.4	30-120	4.14	30		
Indeno (1,2,3-cd) pyrene	0.0159	0.00500	"	0.0333	ND	47.7	30-120	25.0	30		
Pyrene	0.0230	0.00500	"	0.0333	ND	69.0	35-142	9.82	30		
1-Methylnaphthalene	0.0109	0.00500	"	0.0333	ND	32.7	15-130	30.0	50		
2-Methylnaphthalene	0.0270	0.00500	"	0.0333	ND	81.0	15-130	12.6	50		
Surrogate: 2-Methylnaphthalene-d10	0.0215		"	0.0333		64.4	40-150				
Surrogate: Fluoranthene-d10	0.0198		"	0.0333		59.5	40-150				

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

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 BGG1027 - EPA 3050B

Blank (BGG1027-BLK1)

Prepared: 07/31/23 Analyzed: 08/04/23

Boron ND 0.0100 mg/L

LCS (BGG1027-BS1)

Prepared: 07/31/23 Analyzed: 08/04/23

Boron 2.95 0.0100 mg/L 2.50 118 80-120

Duplicate (BGG1027-DUP1)

Source: 2307527-01

Prepared: 07/31/23 Analyzed: 08/04/23

Boron 0.0705 0.0100 mg/L 0.0886 22.7 20 QR-01

Matrix Spike (BGG1027-MS1)

Source: 2307527-01

Prepared: 07/31/23 Analyzed: 08/04/23

Boron 3.15 0.0100 mg/L 2.50 0.0886 122 75-125

Matrix Spike Dup (BGG1027-MSD1)

Source: 2307527-01

Prepared: 07/31/23 Analyzed: 08/04/23

Boron 2.49 0.0100 mg/L 2.50 0.0886 95.9 75-125 23.5 25

Batch BGH0283 - EPA 3050B

Blank (BGH0283-BLK1)

Prepared: 08/08/23 Analyzed: 08/09/23

Boron ND 0.0100 mg/L

LCS (BGH0283-BS1)

Prepared: 08/08/23 Analyzed: 08/09/23

Boron 5.99 0.0100 mg/L 5.00 120 80-120

Duplicate (BGH0283-DUP1)

Source: 2307533-05

Prepared: 08/08/23 Analyzed: 08/09/23

Boron 0.345 0.0100 mg/L 0.378 9.23 20

Matrix Spike (BGH0283-MS1)

Source: 2307533-05

Prepared: 08/08/23 Analyzed: 08/09/23

Boron 6.48 0.0100 mg/L 5.00 0.378 122 75-125

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Fremont Environmental	Project: Noble - Prospect CO 26-0114	
PO Box 1289	Project Number: UWRWE-A3174-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	08/14/23 09:18

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

Summit Scientific

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

Batch BGH0283 - EPA 3050B

Matrix Spike Dup (BGH0283-MSD1)	Source: 2307533-05			Prepared: 08/08/23 Analyzed: 08/09/23						
Boron	6.46	0.0100	mg/L	5.00	0.378	122	75-125	0.393	25	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

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 BGH0271 - EPA 3050B

Blank (BGH0271-BLK1)

Prepared & Analyzed: 08/08/23

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

LCS (BGH0271-BS1)

Prepared & Analyzed: 08/08/23

Arsenic	37.1	0.200	mg/kg wet	40.0	92.7	80-120
Barium	34.5	0.400	"	40.0	86.3	80-120
Cadmium	1.61	0.200	"	2.00	80.3	80-120
Copper	32.3	0.400	"	40.0	80.6	80-120
Lead	16.3	0.200	"	20.0	81.3	80-120
Nickel	32.4	0.400	"	40.0	80.9	80-120
Selenium	4.30	0.260	"	4.00	107	80-120
Silver	1.62	0.0200	"	2.00	80.8	80-120
Zinc	32.2	0.400	"	40.0	80.6	80-120

Duplicate (BGH0271-DUP1)

Source: 2307533-05

Prepared & Analyzed: 08/08/23

Arsenic	1.20	0.200	mg/kg dry	1.22	1.16	20
Barium	39.3	0.400	"	38.2	2.79	20
Cadmium	0.189	0.200	"	0.189	0.00	20
Copper	3.84	0.400	"	3.73	2.87	20
Lead	6.81	0.200	"	6.87	0.899	20
Nickel	2.11	0.400	"	2.17	2.91	20
Selenium	ND	0.276	"	ND		20
Silver	0.0229	0.0200	"	0.0229	0.00	20
Zinc	11.2	0.400	"	11.2	0.0456	20
Selenium	ND	0.260	"	ND		200

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Wellington CO, 80549

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

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 BGH0271 - EPA 3050B

Matrix Spike (BGH0271-MS1)			Source: 2307533-05		Prepared & Analyzed: 08/08/23					
Arsenic	47.1	0.200	mg/kg dry	42.4	1.22	108	75-125			
Barium	83.8	0.400	"	42.4	38.2	108	75-125			
Cadmium	2.24	0.200	"	2.12	0.189	96.8	75-125			
Copper	32.7	0.400	"	42.4	3.73	68.4	75-125			QM-07
Lead	28.0	0.200	"	21.2	6.87	99.7	75-125			
Nickel	31.3	0.400	"	42.4	2.17	68.7	75-125			QM-07
Selenium	5.12	0.276	"	4.24	ND	121	75-125			
Silver	2.04	0.0200	"	2.12	0.0229	95.2	75-125			
Zinc	41.7	0.400	"	42.4	11.2	71.9	75-125			QM-07

Matrix Spike Dup (BGH0271-MSD1)			Source: 2307533-05		Prepared & Analyzed: 08/08/23					
Arsenic	44.0	0.200	mg/kg dry	42.4	1.22	101	75-125	7.01	25	
Barium	74.4	0.400	"	42.4	38.2	85.4	75-125	11.9	25	
Cadmium	2.04	0.200	"	2.12	0.189	87.1	75-125	9.58	25	
Copper	30.9	0.400	"	42.4	3.73	64.1	75-125	5.82	25	QM-07
Lead	25.3	0.200	"	21.2	6.87	87.2	75-125	9.96	25	
Nickel	29.5	0.400	"	42.4	2.17	64.6	75-125	5.77	25	QM-07
Selenium	4.42	0.276	"	4.24	ND	104	75-125	14.7	25	
Silver	1.84	0.0200	"	2.12	0.0229	85.8	75-125	10.2	25	
Zinc	39.7	0.400	"	42.4	11.2	67.2	75-125	4.96	25	QM-07

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

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 BGG1022 - 3060A Mod

Blank (BGG1022-BLK1)

Prepared & Analyzed: 07/31/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGG1022-BS1)

Prepared & Analyzed: 07/31/23

Chromium, Hexavalent 22.6 0.30 mg/kg wet 25.0 90.6 80-120

Duplicate (BGG1022-DUP1)

Source: 2307531-01

Prepared & Analyzed: 07/31/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGG1022-MS1)

Source: 2307531-01

Prepared & Analyzed: 07/31/23

Chromium, Hexavalent 27.6 0.30 mg/kg dry 29.6 ND 93.4 75-125

Matrix Spike Dup (BGG1022-MSD1)

Source: 2307531-01

Prepared & Analyzed: 07/31/23

Chromium, Hexavalent 29.5 0.30 mg/kg dry 29.6 ND 99.8 75-125 6.63 20

Batch BGH0273 - 3060A Mod

Blank (BGH0273-BLK1)

Prepared & Analyzed: 08/08/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGH0273-BS1)

Prepared & Analyzed: 08/08/23

Chromium, Hexavalent 23.2 0.30 mg/kg wet 25.0 92.8 80-120

Duplicate (BGH0273-DUP1)

Source: 2307533-05

Prepared & Analyzed: 08/08/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGH0273-MS1)

Source: 2307533-05

Prepared & Analyzed: 08/08/23

Chromium, Hexavalent 25.0 0.30 mg/kg dry 26.5 ND 94.4 75-125

Summit Scientific

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Fremont Environmental	Project: Noble - Prospect CO 26-0114	
PO Box 1289	Project Number: UWRWE-A3174-ABN	Reported:
Wellington CO, 80549	Project Manager: Paul Henchan	08/14/23 09:18

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

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

Batch BGH0273 - 3060A Mod

Matrix Spike Dup (BGH0273-MSD1)	Source: 2307533-05			Prepared & Analyzed: 08/08/23						
Chromium, Hexavalent	25.0	0.30	mg/kg dry	26.5	ND	94.2	75-125	0.212	20	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

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

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

Batch BGG1010 - General Preparation

Blank (BGG1010-BLK1)

Prepared: 07/31/23 Analyzed: 08/04/23

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

LCS (BGG1010-BS1)

Prepared: 07/31/23 Analyzed: 08/04/23

Calcium	4.24	0.0500	mg/L wet	5.00	84.8	70-130
Magnesium	5.27	0.0500	"	5.00	105	70-130
Sodium	5.03	0.0500	"	5.00	101	70-130

Batch BGH0261 - General Preparation

Blank (BGH0261-BLK1)

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

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

LCS (BGH0261-BS1)

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

Calcium	4.18	0.0500	mg/L wet	5.00	83.7	70-130
Magnesium	4.93	0.0500	"	5.00	98.5	70-130
Sodium	4.94	0.0500	"	5.00	98.8	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114

Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

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

Summit Scientific

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

Batch BGG1018 - General Preparation

Duplicate (BGG1018-DUP1)

Source: 2307531-01

Prepared & Analyzed: 07/31/23

% Solids	84.2	%		84.6		0.500	20
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Batch BGH0281 - General Preparation

Duplicate (BGH0281-DUP1)

Source: 2307533-05

Prepared & Analyzed: 08/08/23

% Solids	94.3	%		94.3		0.00273	20
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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 - Prospect CO 26-0114
Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

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 BGH0033 - General Preparation

Blank (BGH0033-BLK1)

Prepared & Analyzed: 08/01/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGH0033-BS1)

Prepared & Analyzed: 08/01/23

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 103 95-105

Duplicate (BGH0033-DUP1)

Source: 2307524-01

Prepared & Analyzed: 08/01/23

Specific Conductance (EC) 1.88 0.0100 mmhos/cm 1.91 1.53 20

Batch BGH0285 - General Preparation

Blank (BGH0285-BLK1)

Prepared & Analyzed: 08/08/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGH0285-BS1)

Prepared & Analyzed: 08/08/23

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

Duplicate (BGH0285-DUP1)

Source: 2307533-05

Prepared & Analyzed: 08/08/23

Specific Conductance (EC) 0.372 0.0100 mmhos/cm 0.380 2.10 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114

Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

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

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

Batch BGH0034 - General Preparation

LCS (BGH0034-BS1)

Prepared & Analyzed: 08/01/23

pH	9.15		pH Units	9.18	99.7	95-105
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Duplicate (BGH0034-DUP1)

Source: 2307524-01

Prepared & Analyzed: 08/01/23

pH	8.00		pH Units	7.93	0.879	20
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Batch BGH0284 - General Preparation

LCS (BGH0284-BS1)

Prepared & Analyzed: 08/08/23

pH	9.09		pH Units	9.18	99.0	95-105
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Duplicate (BGH0284-DUP1)

Source: 2307533-05

Prepared & Analyzed: 08/08/23

pH	7.58		pH Units	7.50	1.06	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Prospect CO 26-0114

Project Number: UWRWE-A3174-ABN
Project Manager: Paul Henchan

Reported:
08/14/23 09:18

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-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-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