

FREMONT ENVIRONMENTAL INC.

November 15, 2022

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

Subject: **Facility Closure Data Submittal**
MILLAGE C-64N64W 12SEW
API # 05-123-25437
SEW Sec. 12, T4N, R64W
Weld County, Colorado
Fremont Project No. C022-149
Facility # 309832, Remediation #20432

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted Facility Closure activities for the Noble Energy Inc. (Noble) Millage C-64N64W 12SEW. Impacted soil was not encountered during abandonment activities. Details of the Millage C-64N64W 12SEW facility closure activities are documented in the attached Closure Report. Groundwater was not encountered during the facility abandonment activities.

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

Sincerely,

FREMONT ENVIRONMENTAL INC.



Paul V. Henehan, P.E.
Senior Consultant

Attachments:

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

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

Tank Battery Closure Checklist

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

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure	X	Partially Buried Vault Closure
Site Name & COGCC Facility Number: MILLAGE C-64N64W 12SENW Facility ID: 309832		Date: 10/20/2022		Remediation Project #: 20432				
Associated Wells: MILLAGE C12-18 Facility ID: 234 API: 05-123-25437		Age of Site: 2008		Number of Photos Attached: 7 Photos				
Location: (GPS coordinates of southeaster berm) 40.333857,-104.498861							Estimated Facility Size (acres): ~1 Acre	

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)
Good housekeeping. General condition for all the on-site equipment looked fine. Waste management well maintained.

USCS Soil Type: Sandy Clay	Estimated Depth to Groundwater: N/A
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Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
 Staining and odor was observed at both on-site separators and at the eastern above ground storage tank. These samples all passed for volatile organics and polycyclic aromatic hydrocarbons. Further Investigation is not required. Refer to Tables 1 and 2 for reference. Exceedances in pH concentrations were discovered at the western AST (WAST01@6.0') and the southern separator (SSEP01@3.0'). Refer to Table 3 for reference. (WAST@6.0' - pH 8.57 / SSEP01@3.0' - pH 8.47)

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

Tanks

Tank Contents	Oil	Oil					
Size (barrels)	300 BBLS	300 BBLS					
Age	2008	2008					
Construction Material	Steel	Steel					
Tank type (AST/BBV, etc)	AST	AST					
Visual Integrity of Tank	No Damage	No Damage					
Condition of tank footprint	No Impacts	Staining Present					
PID Readings	High @ 10.6ppm	High @ 12.1ppm					
Soil impacts present at valves or hatches?	No Impacts	No Impacts					
PID Readings	N/A	N/A					
Sample taken? Location/ Sample ID#	40.333966, -104.499164 WAST01@6.0"	40.333968, -104.499113 EAST01@6.0"					
Photo Number(s)	Photo 1A	Photo 2A					

Other observations regarding tanks:
 Tanks removed prior to sampling event

Separators

Separator size	UNK	UNK					
Vertical or Horizontal	Horizontal	Horizontal					
Age	2008	2008					
Soil impacts	Staining/Odor	Staining/Odor					
PID Readings	High @ 13.1ppm	High @ 21.6ppm					
Sample taken? Location/ Sample ID#	40.333935, -104.498932 NSEP01@5.0'	40.333900, -104.498934 SSEP01@3.0'					
Photo Number(s)	Photo 5A	Photo 6A					

Other observations regarding separators:
 Separators removed prior to sampling event

Third Party Equipment

Type							
Age							

Third Party Removal Date									
Sample taken? Location/ Sample									
PID Readings									
Photo Number(s)									

Other Facility Equipment

Equipment type	Combustion Unit	Combustion Unit		
Equipment Condition	No Damage	No Damage		
Age	2008	2008		
Soil impacts	No Impacts	No Impacts		
PID Readings	High @ 0.0ppm	High @ 0.1ppm		
Sample taken? Location/ Sample	SECD01 @6.0"	NECD01 @6.0"		
Photo Number(s)	Photo 8A	Photo 9A		

Other observations regarding other facility or third party equipment:

Combustion units removed prior to sampling event

Summary

Was impacted soil identified?	
No	Yes - less than 10 cubic yards Yes - more than 10 cubic yards
Total number of samples field screened: 2 Samples	Total number of samples collected: 7 Samples
Highest PID Reading: High at 21.6ppm (SSEP01 @3.0')	Total number of samples submitted to lab for analysis: 5 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	

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: MILLAGE C-64N64W 12SENW Facility ID: 309832		Date: 10/20/2022		Remediation Project #: 20432				
Associated Wells: MILLAGE C12-18 Facility ID: 234 API: 05-123-25437		Age of Site: 2008		Number of Photos Attached: 9 Photos				
Location: (GPS coordinates of vault or southeastern tank berm for multiple) Eastern PWV: 40.333930, -104.499115 Western PWV: 40.333930, -104.499158							Estimated Facility Size (acres): ~1 acre	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good housekeeping. General condition for all the on-site equipment looked fine. Waste management well maintained.								
USCS Soil Type: Sandy Clay				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) Staining and odor was observed at the dumpline separator tie-in (NDL01@5.0'). NDL01@5.0' passed for volatile organics and polycyclic aromatic hydrocarbons. Further Investigation is not required. Refer to Tables 1 and 2 for reference. Exceedances in pH concentrations were discovered at the base and northern sidewall of the western PWV excavation (PWVB02@6.0' & PWVN02@5.0'). Refer to Table 3 for reference. Exceedances in both pH and SAR concentrations were discovered at the separator tie-in (NDL01@5.0') and for the local background sample (BKG01@6.0'). Refer to Table 3 for reference								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed								
Buried or Partially Buried Vessels								
Tank Contents	Produced Water	Produced Water						
Size (barrels)	<50 BBLs	<50 BBLs						
Age	2008	2008						
Construction Material	PBV Concrete	PBV Concrete						
Visual Integrity of Tank	No Damage	No Damage						
Condition of tank foundation	No Impacts	No Impacts						
PID Readings	High @ 10.9ppm	High @ 5.0ppm						
Condition of Dumpline	No Damage	No Damage						
PID Readings	High @ 3.8ppm NDL01@5.0'	High @ 3.8ppm NDL01@5.0'						
Sample taken? Location/Sample ID#	PWVB01@6.0' PWVN01@5.0'	PWVB02@6.0' PWVN02@5.0'						
Photo Number(s)	Photo 3A-3D & 7A	Photo 4A-4D & 7A						
Other observations regarding partially buried vessels: The southern sidewall of both PWV excavations was the tie-in points for the dumpline to the separator. Dumplines were not trenched.								
Summary								
Was impacted soil identified? No Yes - less than 10 cubic yards Yes - more than 10 cubic yards								
Total number of samples field screened: 4 samples				Total number of samples collected: 9 samples				
Highest PID Reading: High @ 10.9ppm (PWVN01@5.0')				Total number of samples submitted to lab for analysis: 5 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? No								
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.
MILLAGE C-64N64W 12SEW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-149

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500		
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500		
WAST01@6.0"	10/20/2022	0.5 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
EAST01@6.0"	10/20/2022	0.5 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
NSEP01@5.0'	10/20/2022	5.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SSEP01@3.0'	10/20/2022	3.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
NDL01@5.0'	10/20/2022	5.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWVB01@6.0'	10/20/2022	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWVB02@6.0'	10/20/2022	6.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWVN01@5.0'	10/20/2022	5.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWVN02@5.0'	10/20/2022	5.0 Ft	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the COGCC Table 915-1 concentrations

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

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

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
MILLAGE C-64N64W 12SEW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-149

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
WAST01 @ 6.0"	10/20/2022	0.5 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
EAST01 @ 6.0"	10/20/2022	0.5 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
NSEP01 @ 5.0'	10/20/2022	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
SSEP01 @ 3.0'	10/20/2022	3.0 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
NDL01 @ 5.0'	10/20/2022	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
PWVB01 @ 6.0'	10/20/2022	6.0 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
PWVB02 @ 6.0'	10/20/2022	6.0 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
PWVN01 @ 5.0'	10/20/2022	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
PWVN02 @ 5.0'	10/20/2022	5.0 Ft	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the COGCC Table 915-1 concentrations

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

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
MILLAGE C-64N64W 12SEW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-149

Sample ID	Sample Date	Depth (ft)	EC (mmhos/cm)	pH	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			<4	6 - 8.3	<6	2
WAST01@6.0"	10/20/2022	0.5 Ft	0.528	8.57	3.45	0.289
EAST01@6.0"	10/20/2022	0.5 Ft	0.508	8.27	2.95	0.250
NSEP01@5.0'	10/20/2022	5.0 Ft	0.410	8.19	0.869	0.0572
SSEP01@3.0'	10/20/2022	3.0 Ft	0.424	8.47	3.65	0.129
NDL01@5.0'	10/20/2022	5.0 Ft	0.961	8.35	6.25	0.104
PWVB01@6.0'	10/20/2022	6.0 Ft	0.303	8.23	0.654	0.145
PWVB02@6.0'	10/20/2022	6.0 Ft	0.330	8.31	1.29	0.0761
PWVN01@5.0'	10/20/2022	5.0 Ft	0.490	8.25	2.95	0.160
PWVN02@5.0'	10/20/2022	5.0 Ft	0.503	8.40	2.85	0.324
BKG01@6.0"	10/20/2022	0.5 Ft	6.06	7.88	6.84	0.522

Bold faced values exceed the COGCC Table 915-1 concentrations

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

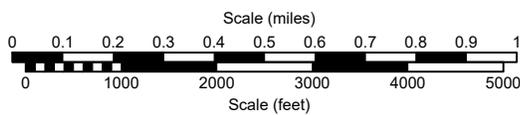
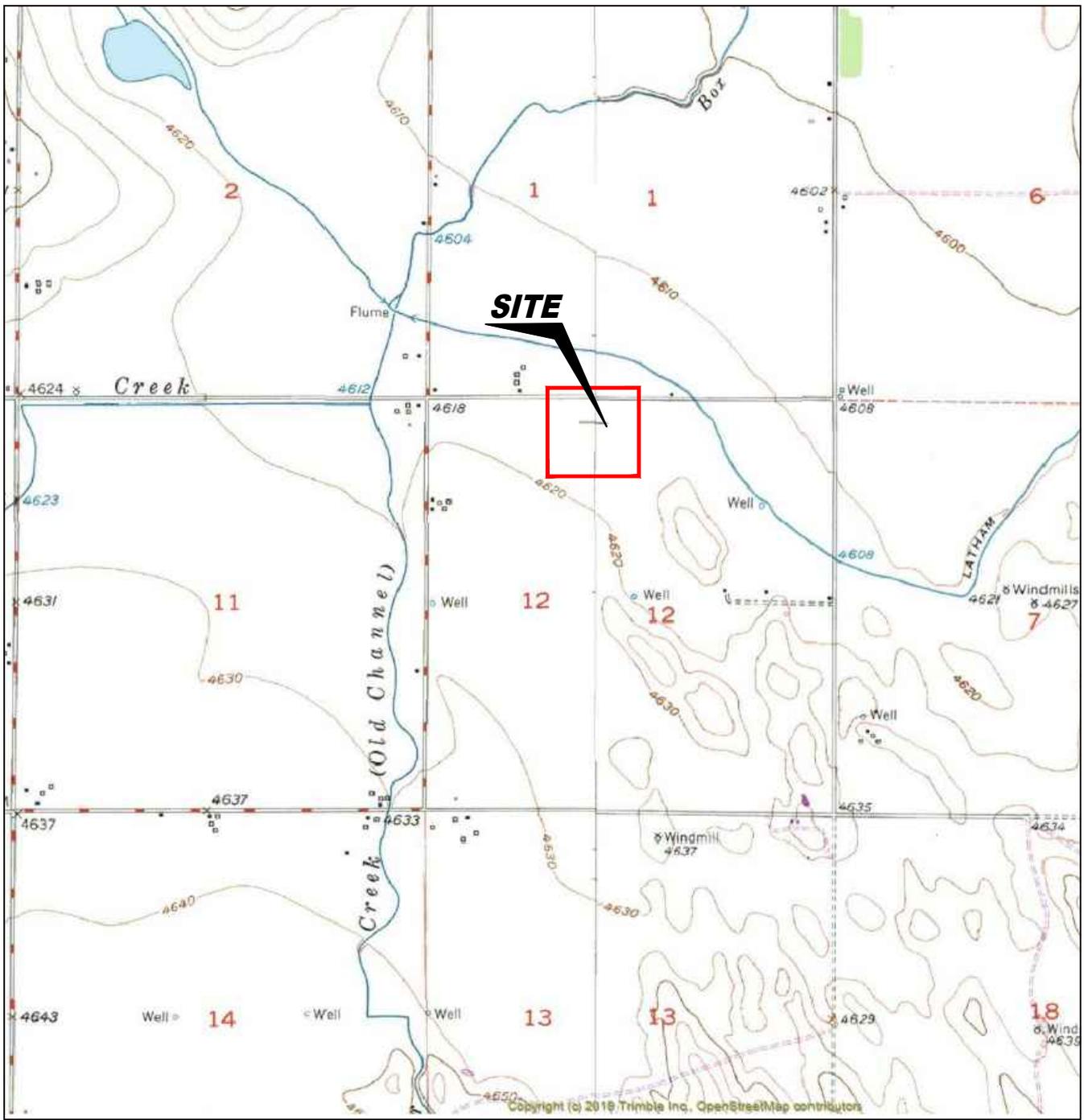
TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
MILLAGE C-64N64W 12SEW, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-149

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Chromium (VI) (mg/kg)
COGCC Table 915-1 Limits (Residential SSL)			0.68	15000	71	3100	400	1500	390	390	23000	0.3
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	46	14	26	0.26	0.8	370	0.00067
BKG01@6.0"	10/20/2022	0.5 Ft	1.18	111	0.346	10.0	10.5	7.41	<0.320	0.797	39.4	<0.30

Bold faced values exceed the COGCC Table 915-1 concentrations

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

NA - Not analyzed



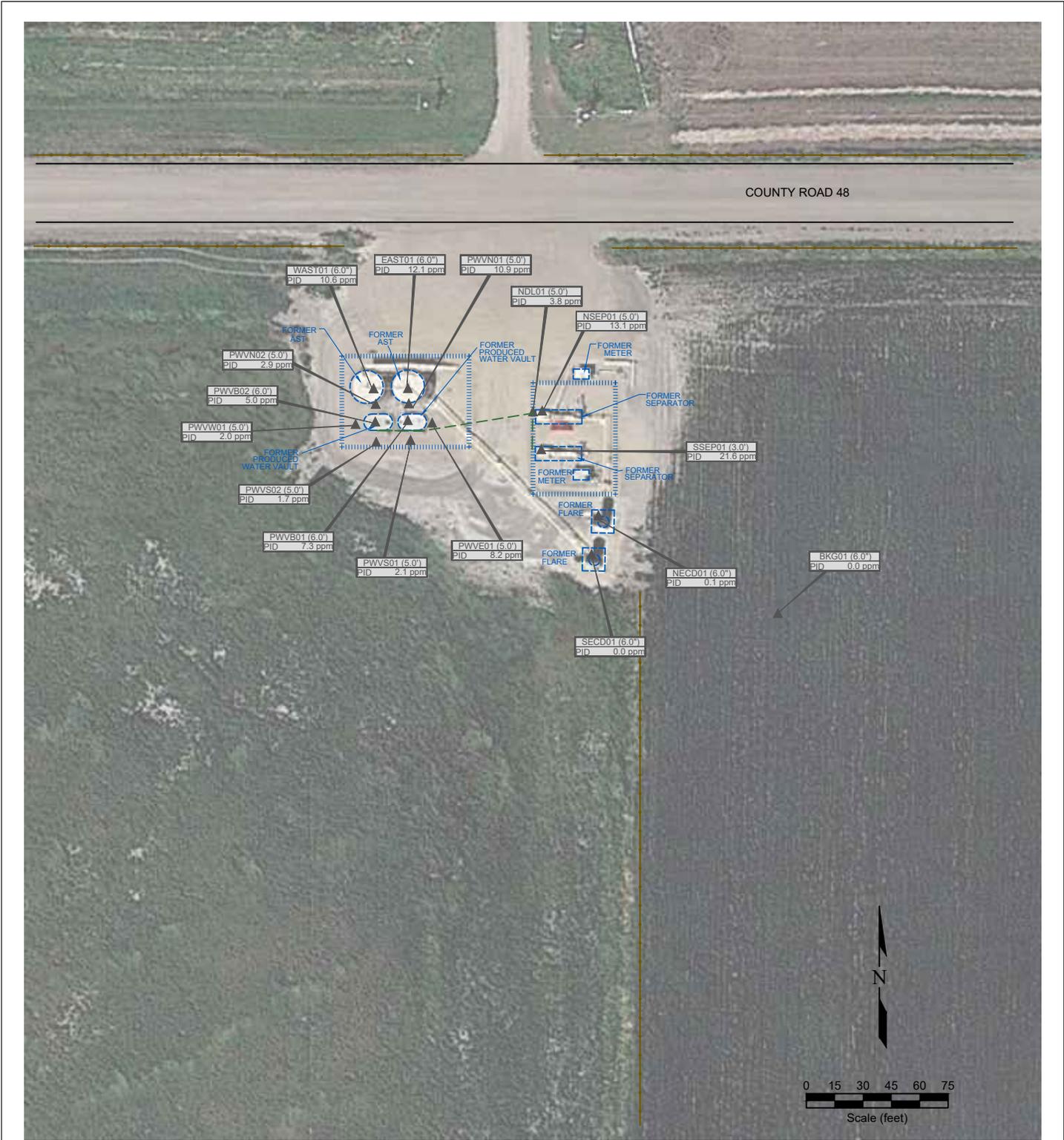
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy, Inc. ~ Millage C-64N64W 12SENW
 SENW Sec. 12, T4N, R64W, 6th PM
 Weld County, Colorado
 40.333857°, -104.498861°

Project # C022-149	API # 05-123-25437	Facility # 309832
Date 11/15/22	Remediation # 20432	Filename 22149T





LEGEND

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

**Figure 2
SITE MAP**

Noble Energy, Inc. ~ Millage C-64N64W 12SENW
 SENW Sec. 12, T4N, R64W, 6th PM
 Weld County, Colorado
 40.333857°, -104.498861°

Project No. C022-149	Drawn By	Facility # 309832
Date 11/15/22	Reviewed By 20432	Filename 22149Q





Description:

Photo Log



Description:

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Photo Log



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Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 31, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Millage C12-18
Work Order #2210358

Enclosed are the results of analyses for samples received by Summit Scientific on 10/20/22 16:36. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WAST01@6.0"	2210358-01	Soil	10/20/22 00:00	10/20/22 16:36
EAST01@6.0"	2210358-02	Soil	10/20/22 00:00	10/20/22 16:36
NSEP01@5.0'	2210358-03	Soil	10/20/22 00:00	10/20/22 16:36
SSEP01@3.0'	2210358-04	Soil	10/20/22 00:00	10/20/22 16:36
NDL01@5.0'	2210358-05	Soil	10/20/22 00:00	10/20/22 16:36
PWVB01@6.0'	2210358-06	Soil	10/20/22 00:00	10/20/22 16:36
PWVB02@6.0'	2210358-07	Soil	10/20/22 00:00	10/20/22 16:36
PWVN01@5.0'	2210358-08	Soil	10/20/22 00:00	10/20/22 16:36
PWVN02@5.0'	2210358-09	Soil	10/20/22 00:00	10/20/22 16:36
BKG01@6.0"	2210358-10	Soil	10/20/22 00:00	10/20/22 16:36

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

2210358

S₂

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

Page 1 of 1

Client: Fremont Env

Project Manager: Paul Henehan

Address:

E-Mail: Paulh@fremontenv.com Ethenb@fremontenv.com

City/State/Zip:

Jeffg@fremontenv.com

Phone:

Project Name: Millage C12-18

Sampler Name: JG

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	BTEX+N	TMBS(915)	GRO-DRO, BRO	PAHs (915)	EC1P1, SAR Carbon	Metals (915)		
1	WASTO1@6.0'	10/20/22		2			X			X				X	X	X	X	X		
2	EASTO1@6.0'																			
3	NSEP01@5.0'																			
4	SSEP01@3.0'																			
5	NDL01@5.0'																			
6	PWVBO1@6.0'																			
7	PWVBO2@6.0'																			
8	PWVNO1@5.0'																			
9	PWVNO2@5.0'			2										X	X	X	X	X		
10	BK601@6.0'			1										X	X	X	X	X	X	

Relinquished by: <u>[Signature]</u> Date/Time: <u>10/20/22 1636</u>	Received by: <u>[Signature]</u> Date/Time: <u>10.20.22 1636</u>	Turn Around Time (Check) Same Day <u> </u> 72 hours 24 hours <u> </u> Standard <u>X</u> 48 hours <u> </u>	Notes: <u>Bill to Noble</u>
Relinquished by: <u> </u> Date/Time: <u> </u>	Received by: <u> </u> Date/Time: <u> </u>	Sample Integrity: Samples Intact: <u>Yes</u> No	
Temperature Upon Receipt: <u>20.2</u>	Corrected Temperature <u> </u>	HNO3 lot # <u> </u>	
IR gun correction: <u> </u>	IR gun #: <u> </u>		

S₂

2210358

Sample Receipt Checklist

S2 Work Order#

Client: Fremont Client Project ID: Millage 12-18

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) 20.2 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"/>	
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.

AT
Custodian Printed Name

10.20.22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

WAST01@6.0"
2210358-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFJ0645	10/24/22	10/25/22	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		123 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		109 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFJ0647	10/24/22	10/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		92.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

WAST01@6.0"
2210358-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0702	10/26/22	10/27/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		53.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		67.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.289	0.0100	mg/L	1	BFJ0566	10/21/22	10/21/22	EPA 6020B	

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

Date Sampled: **10/20/22 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 - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

WAST01@6.0"
2210358-01 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	62.8	0.0625	mg/L dry	1	BFJ0732	10/26/22	10/28/22	EPA 6020B	
Magnesium	10.3	0.0625	"	"	"	"	"	"	
Sodium	112	0.0625	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.45	0.00100	units	1	BFJ0808	10/28/22	10/28/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.9		%	1	BFJ0762	10/27/22	10/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.528	0.0100	mmhos/cm	1	BFJ0778	10/27/22	10/27/22	EPA 120.1	

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

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.57		pH Units	1	BFJ0777	10/27/22	10/27/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

EAST01@6.0"
2210358-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0645	10/24/22	10/25/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		134 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0647	10/24/22	10/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		74.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

EAST01@6.0"
2210358-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0702	10/26/22	10/27/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		61.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		78.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.250	0.0100	mg/L	1	BFJ0566	10/21/22	10/21/22	EPA 6020B	

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

Date Sampled: **10/20/22 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 - Millage C12-18

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/31/22 11:04

EAST01@6.0"
2210358-02 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	36.3	0.0659	mg/L dry	1	BFJ0732	10/26/22	10/28/22	EPA 6020B	
Magnesium	13.5	0.0659	"	"	"	"	"	"	
Sodium	82.1	0.0659	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.95	0.00100	units	1	BFJ0808	10/28/22	10/28/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	75.9		%	1	BFJ0762	10/27/22	10/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.508	0.0100	mmhos/cm	1	BFJ0778	10/27/22	10/27/22	EPA 120.1	

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

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BFJ0777	10/27/22	10/27/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

NSEP01@5.0'
2210358-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0645	10/24/22	10/25/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		122 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0647	10/24/22	10/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		91.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

NSEP01@5.0'
2210358-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0702	10/26/22	10/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		66.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		88.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0572	0.0100	mg/L	1	BFJ0566	10/21/22	10/21/22	EPA 6020B	

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

Date Sampled: **10/20/22 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 - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

NSEP01@5.0'
2210358-03 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	43.3	0.0564	mg/L dry	1	BFJ0732	10/26/22	10/28/22	EPA 6020B	
Magnesium	12.7	0.0564	"	"	"	"	"	"	
Sodium	25.3	0.0564	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.869	0.00100	units	1	BFJ0808	10/28/22	10/28/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.7		%	1	BFJ0762	10/27/22	10/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.410	0.0100	mmhos/cm	1	BFJ0778	10/27/22	10/27/22	EPA 120.1	

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

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.19		pH Units	1	BFJ0777	10/27/22	10/27/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

SSEP01@3.0'
2210358-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0645	10/24/22	10/25/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		131 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0647	10/24/22	10/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		89.7 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

SSEP01@3.0'
2210358-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0702	10/26/22	10/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		62.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		74.1 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.129	0.0100	mg/L	1	BFJ0566	10/21/22	10/21/22	EPA 6020B	

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

Date Sampled: **10/20/22 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 - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

SSEP01@3.0'
2210358-04 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	29.2	0.0646	mg/L dry	1	BFJ0732	10/26/22	10/28/22	EPA 6020B	
Magnesium	7.48	0.0646	"	"	"	"	"	"	
Sodium	85.5	0.0646	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.65	0.00100	units	1	BFJ0808	10/28/22	10/28/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.3		%	1	BFJ0762	10/27/22	10/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.424	0.0100	mmhos/cm	1	BFJ0778	10/27/22	10/27/22	EPA 120.1	

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

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.47		pH Units	1	BFJ0777	10/27/22	10/27/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

NDL01@5.0'
2210358-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0645	10/24/22	10/25/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		130 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		117 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0647	10/24/22	10/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		88.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

NDL01@5.0'
2210358-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0702	10/26/22	10/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		42.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		56.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.104	0.0100	mg/L	1	BFJ0566	10/21/22	10/21/22	EPA 6020B	

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

Date Sampled: **10/20/22 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 - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

NDL01@5.0'
2210358-05 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	36.7	0.0624	mg/L dry	1	BFJ0732	10/26/22	10/28/22	EPA 6020B	
Magnesium	16.3	0.0624	"	"	"	"	"	"	
Sodium	181	0.0624	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.25	0.00100	units	1	BFJ0808	10/28/22	10/28/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.2		%	1	BFJ0762	10/27/22	10/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.961	0.0100	mmhos/cm	1	BFJ0778	10/27/22	10/27/22	EPA 120.1	

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

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.35		pH Units	1	BFJ0777	10/27/22	10/27/22	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

PWVB01@6.0'
2210358-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0645	10/24/22	10/25/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		131 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0647	10/24/22	10/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		86.6 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

PWVB01@6.0'
2210358-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0702	10/26/22	10/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		45.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		63.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.145	0.0100	mg/L	1	BFJ0566	10/21/22	10/21/22	EPA 6020B	

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

Date Sampled: **10/20/22 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 - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

PWVB01@6.0'
2210358-06 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	56.6	0.0619	mg/L dry	1	BFJ0732	10/26/22	10/28/22	EPA 6020B	
Magnesium	9.48	0.0619	"	"	"	"	"	"	
Sodium	20.2	0.0619	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.654	0.00100	units	1	BFJ0808	10/28/22	10/28/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.7		%	1	BFJ0762	10/27/22	10/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.303	0.0100	mmhos/cm	1	BFJ0778	10/27/22	10/27/22	EPA 120.1	

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

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.23		pH Units	1	BFJ0777	10/27/22	10/27/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

PWVB02@6.0'
2210358-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0645	10/24/22	10/25/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		123 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0647	10/24/22	10/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		83.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

PWVB02@6.0'
2210358-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0702	10/26/22	10/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		57.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		79.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0761	0.0100	mg/L	1	BFJ0566	10/21/22	10/21/22	EPA 6020B	

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

Date Sampled: **10/20/22 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 - Millage C12-18

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/31/22 11:04

PWVB02@6.0'
2210358-07 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	61.1	0.0614	mg/L dry	1	BFJ0732	10/26/22	10/28/22	EPA 6020B	
Magnesium	6.51	0.0614	"	"	"	"	"	"	
Sodium	39.8	0.0614	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.29	0.00100	units	1	BFJ0808	10/28/22	10/28/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.4		%	1	BFJ0762	10/27/22	10/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.330	0.0100	mmhos/cm	1	BFJ0778	10/27/22	10/27/22	EPA 120.1	

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

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.31		pH Units	1	BFJ0777	10/27/22	10/27/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

PWVN01@5.0'
2210358-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0645	10/24/22	10/25/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		129 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		109 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0647	10/24/22	10/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		77.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

PWVN01@5.0'
2210358-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0702	10/26/22	10/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		65.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		94.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.160	0.0100	mg/L	1	BFJ0566	10/21/22	10/21/22	EPA 6020B	

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

Date Sampled: **10/20/22 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 - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

PWVN01@5.0'
2210358-08 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	50.6	0.0595	mg/L dry	1	BFJ0732	10/26/22	10/28/22	EPA 6020B	
Magnesium	10.2	0.0595	"	"	"	"	"	"	
Sodium	88.1	0.0595	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.95	0.00100	units	1	BFJ0808	10/28/22	10/28/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	84.0		%	1	BFJ0762	10/27/22	10/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.490	0.0100	mmhos/cm	1	BFJ0778	10/27/22	10/27/22	EPA 120.1	

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

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.25		pH Units	1	BFJ0777	10/27/22	10/27/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

PWVN02@5.0'
2210358-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFJ0645	10/24/22	10/25/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		131 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		108 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFJ0647	10/24/22	10/25/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		85.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

PWVN02@5.0'
2210358-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFJ0702	10/26/22	10/28/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		57.6 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		76.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.324	0.0100	mg/L	1	BFJ0566	10/21/22	10/21/22	EPA 6020B	

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

Date Sampled: **10/20/22 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 - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

PWVN02@5.0'
2210358-09 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	62.5	0.0623	mg/L dry	1	BFJ0732	10/26/22	10/28/22	EPA 6020B	
Magnesium	8.41	0.0623	"	"	"	"	"	"	
Sodium	90.6	0.0623	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.85	0.00100	units	1	BFJ0808	10/28/22	10/28/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.2		%	1	BFJ0762	10/27/22	10/27/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.503	0.0100	mmhos/cm	1	BFJ0778	10/27/22	10/27/22	EPA 120.1	

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

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.40		pH Units	1	BFJ0777	10/27/22	10/27/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

BKG01@6.0"
2210358-10 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.522	0.0100	mg/L	1	BFJ0566	10/21/22	10/21/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.18	0.247	mg/kg dry	1	BFJ0570	10/21/22	10/22/22	EPA 6020B	
Barium	111	0.493	"	"	"	"	"	"	
Cadmium	0.346	0.247	"	"	"	"	"	"	
Copper	10.0	0.493	"	"	"	"	"	"	
Lead	10.5	0.247	"	"	"	"	"	"	
Nickel	7.41	0.493	"	"	"	"	"	"	
Selenium	ND	0.320	"	"	"	"	"	"	
Silver	0.797	0.0247	"	"	"	"	"	"	
Zinc	39.4	0.493	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFJ0632	10/23/22	10/24/22	EPA 7196A	

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

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	645	0.0616	mg/L dry	1	BFJ0732	10/26/22	10/28/22	EPA 6020B	
Magnesium	217	0.0616	"	"	"	"	"	"	
Sodium	787	0.0616	"	"	"	"	"	"	

Calculated Analysis

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/31/22 11:04

BKG01@6.0"
2210358-10 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	6.84	0.00100	units	1	BFJ0808	10/28/22	10/28/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.1		%	1	BFJ0544	10/21/22	10/21/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	6.06	0.0100	mmhos/cm	1	BFJ0778	10/27/22	10/27/22	EPA 120.1	

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

Date Sampled: **10/20/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BFJ0777	10/27/22	10/27/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFJ0645 - EPA 5030 Soil MS

Blank (BFJ0645-BLK1)

Prepared: 10/24/22 Analyzed: 10/25/22

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0500		"	0.0400		125	50-150				
<i>Surrogate: Toluene-d8</i>	0.0474		"	0.0400		118	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0421		"	0.0400		105	50-150				

LCS (BFJ0645-BS1)

Prepared: 10/24/22 Analyzed: 10/25/22

Benzene	0.0797	0.0020	mg/kg	0.100		79.7	70-130				
Toluene	0.0767	0.0050	"	0.100		76.7	70-130				
Ethylbenzene	0.0759	0.0050	"	0.100		75.9	70-130				
m,p-Xylene	0.150	0.010	"	0.200		74.8	70-130				
o-Xylene	0.0780	0.0050	"	0.100		78.0	70-130				
1,2,4-Trimethylbenzene	0.0858	0.0050	"	0.100		85.8	70-130				
1,3,5-Trimethylbenzene	0.0847	0.0050	"	0.100		84.7	70-130				
Naphthalene	0.120	0.0038	"	0.100		120	70-130				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0449		"	0.0400		112	50-150				
<i>Surrogate: Toluene-d8</i>	0.0482		"	0.0400		120	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0421		"	0.0400		105	50-150				

Matrix Spike (BFJ0645-MS1)

Source: 2210358-01

Prepared: 10/24/22 Analyzed: 10/25/22

Benzene	0.0792	0.0020	mg/kg	0.100	ND	79.2	70-130				
Toluene	0.0767	0.0050	"	0.100	ND	76.7	70-130				
Ethylbenzene	0.0720	0.0050	"	0.100	ND	72.0	70-130				
m,p-Xylene	0.141	0.010	"	0.200	ND	70.7	70-130				
o-Xylene	0.0753	0.0050	"	0.100	ND	75.3	70-130				
1,2,4-Trimethylbenzene	0.0832	0.0050	"	0.100	ND	83.2	70-130				
1,3,5-Trimethylbenzene	0.0806	0.0050	"	0.100	ND	80.6	70-130				
Naphthalene	0.135	0.0038	"	0.100	ND	135	70-130				QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0500		"	0.0400		125	50-150				
<i>Surrogate: Toluene-d8</i>	0.0489		"	0.0400		122	50-150				
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0424		"	0.0400		106	50-150				

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/31/22 11:04

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BFJ0645 - EPA 5030 Soil MS

Matrix Spike Dup (BFJ0645-MSD1)	Source: 2210358-01			Prepared: 10/24/22 Analyzed: 10/25/22						
Benzene	0.0802	0.0020	mg/kg	0.100	ND	80.2	70-130	1.32	30	
Toluene	0.0780	0.0050	"	0.100	ND	78.0	70-130	1.75	30	
Ethylbenzene	0.0733	0.0050	"	0.100	ND	73.3	70-130	1.78	30	
m,p-Xylene	0.145	0.010	"	0.200	ND	72.3	70-130	2.26	30	
o-Xylene	0.0766	0.0050	"	0.100	ND	76.6	70-130	1.74	30	
1,2,4-Trimethylbenzene	0.0858	0.0050	"	0.100	ND	85.8	70-130	2.98	30	
1,3,5-Trimethylbenzene	0.0833	0.0050	"	0.100	ND	83.3	70-130	3.29	30	
Naphthalene	0.152	0.0038	"	0.100	ND	152	70-130	11.5	30	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0520		"	0.0400		130	50-150			
Surrogate: Toluene-d8	0.0482		"	0.0400		120	50-150			
Surrogate: 4-Bromofluorobenzene	0.0421		"	0.0400		105	50-150			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/31/22 11:04

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFJ0647 - EPA 3550A

Blank (BFJ0647-BLK1)

Prepared: 10/24/22 Analyzed: 10/25/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	11.4		"	12.5		91.4	30-150				

LCS (BFJ0647-BS1)

Prepared: 10/24/22 Analyzed: 10/25/22

C10-C28 (DRO)	460	50	mg/kg	500		92.0	70-130				
Surrogate: <i>o</i> -Terphenyl	11.0		"	12.5		87.8	30-150				

Matrix Spike (BFJ0647-MS1)

Source: 2210358-01

Prepared: 10/24/22 Analyzed: 10/25/22

C10-C28 (DRO)	428	50	mg/kg	500	ND	85.5	70-130				
Surrogate: <i>o</i> -Terphenyl	9.63		"	12.5		77.1	30-150				

Matrix Spike Dup (BFJ0647-MSD1)

Source: 2210358-01

Prepared: 10/24/22 Analyzed: 10/25/22

C10-C28 (DRO)	458	50	mg/kg	500	ND	91.6	70-130	6.83	20		
Surrogate: <i>o</i> -Terphenyl	11.3		"	12.5		90.1	30-150				

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0702 - EPA 5030 Soil MS

Blank (BFJ0702-BLK1)

Prepared: 10/26/22 Analyzed: 10/27/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0204</i>		<i>"</i>	<i>0.0333</i>		<i>61.1</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0247</i>		<i>"</i>	<i>0.0333</i>		<i>74.2</i>	<i>40-150</i>			

LCS (BFJ0702-BS1)

Prepared: 10/26/22 Analyzed: 10/27/22

Acenaphthene	0.0310	0.00500	mg/kg	0.0333	93.0	31-137
Anthracene	0.0284	0.00500	"	0.0333	85.1	30-120
Benzo (a) anthracene	0.0207	0.00500	"	0.0333	62.1	30-120
Benzo (a) pyrene	0.0187	0.00500	"	0.0333	56.1	30-120
Benzo (b) fluoranthene	0.0167	0.00500	"	0.0333	50.0	30-120
Benzo (k) fluoranthene	0.0174	0.00500	"	0.0333	52.2	30-120
Chrysene	0.0343	0.00500	"	0.0333	103	30-120
Dibenz (a,h) anthracene	0.0136	0.00500	"	0.0333	40.9	30-120
Fluoranthene	0.0354	0.00500	"	0.0333	106	30-120
Fluorene	0.0249	0.00500	"	0.0333	74.8	30-120
Indeno (1,2,3-cd) pyrene	0.0142	0.00500	"	0.0333	42.6	30-120
Pyrene	0.0371	0.00500	"	0.0333	111	35-142
1-Methylnaphthalene	0.0391	0.00500	"	0.0333	117	35-142
2-Methylnaphthalene	0.0259	0.00500	"	0.0333	77.6	35-142
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0220</i>		<i>"</i>	<i>0.0333</i>	<i>66.1</i>	<i>40-150</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0223</i>		<i>"</i>	<i>0.0333</i>	<i>67.0</i>	<i>40-150</i>

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFJ0702 - EPA 5030 Soil MS

Matrix Spike (BFJ0702-MS1)	Source: 2210358-01			Prepared: 10/26/22 Analyzed: 10/27/22					
Acenaphthene	0.0188	0.00500	mg/kg	0.0333	ND	56.4	31-137		
Anthracene	0.0179	0.00500	"	0.0333	ND	53.8	30-120		
Benzo (a) anthracene	0.0208	0.00500	"	0.0333	ND	62.3	30-120		
Benzo (a) pyrene	0.0140	0.00500	"	0.0333	ND	42.1	30-120		
Benzo (b) fluoranthene	0.0139	0.00500	"	0.0333	ND	41.8	30-120		
Benzo (k) fluoranthene	0.0149	0.00500	"	0.0333	ND	44.8	30-120		
Chrysene	0.0182	0.00500	"	0.0333	ND	54.5	30-120		
Dibenz (a,h) anthracene	0.0141	0.00500	"	0.0333	ND	42.2	30-120		
Fluoranthene	0.0268	0.00500	"	0.0333	ND	80.4	30-120		
Fluorene	0.0140	0.00500	"	0.0333	ND	42.0	30-120		
Indeno (1,2,3-cd) pyrene	0.0139	0.00500	"	0.0333	ND	41.7	30-120		
Pyrene	0.0196	0.00500	"	0.0333	ND	58.8	35-142		
1-Methylnaphthalene	0.0140	0.00500	"	0.0333	ND	41.9	15-130		
2-Methylnaphthalene	0.0138	0.00500	"	0.0333	ND	41.3	15-130		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0259</i>		<i>"</i>	<i>0.0333</i>		<i>77.8</i>	<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0287</i>		<i>"</i>	<i>0.0333</i>		<i>86.1</i>	<i>40-150</i>		

Matrix Spike Dup (BFJ0702-MSD1)	Source: 2210358-01			Prepared: 10/26/22 Analyzed: 10/27/22					
Acenaphthene	0.0219	0.00500	mg/kg	0.0333	ND	65.6	31-137	15.0	30
Anthracene	0.0206	0.00500	"	0.0333	ND	61.9	30-120	13.9	30
Benzo (a) anthracene	0.0253	0.00500	"	0.0333	ND	75.9	30-120	19.6	30
Benzo (a) pyrene	0.0145	0.00500	"	0.0333	ND	43.4	30-120	3.06	30
Benzo (b) fluoranthene	0.0143	0.00500	"	0.0333	ND	42.8	30-120	2.28	30
Benzo (k) fluoranthene	0.0135	0.00500	"	0.0333	ND	40.6	30-120	9.77	30
Chrysene	0.0215	0.00500	"	0.0333	ND	64.6	30-120	17.0	30
Dibenz (a,h) anthracene	0.0148	0.00500	"	0.0333	ND	44.3	30-120	4.87	30
Fluoranthene	0.0238	0.00500	"	0.0333	ND	71.4	30-120	11.7	30
Fluorene	0.0153	0.00500	"	0.0333	ND	45.9	30-120	8.94	30
Indeno (1,2,3-cd) pyrene	0.0144	0.00500	"	0.0333	ND	43.3	30-120	3.83	30
Pyrene	0.0186	0.00500	"	0.0333	ND	55.7	35-142	5.55	30
1-Methylnaphthalene	0.0231	0.00500	"	0.0333	ND	69.2	15-130	49.1	50
2-Methylnaphthalene	0.0174	0.00500	"	0.0333	ND	52.1	15-130	23.2	50
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0335</i>		<i>"</i>	<i>0.0333</i>		<i>101</i>	<i>40-150</i>		
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0261</i>		<i>"</i>	<i>0.0333</i>		<i>78.4</i>	<i>40-150</i>		

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/31/22 11:04

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

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

Batch BFJ0566 - EPA 3050B

Blank (BFJ0566-BLK1)

Prepared & Analyzed: 10/21/22

Boron ND 0.0100 mg/L

LCS (BFJ0566-BS1)

Prepared & Analyzed: 10/21/22

Boron 4.63 0.0100 mg/L 5.00 92.6 80-120

Duplicate (BFJ0566-DUP1)

Source: 2210148-01

Prepared & Analyzed: 10/21/22

Boron 0.772 0.0100 mg/L 0.712 8.04 20

Matrix Spike (BFJ0566-MS1)

Source: 2210148-01

Prepared & Analyzed: 10/21/22

Boron 5.01 0.0100 mg/L 5.00 0.712 86.0 75-125

Matrix Spike Dup (BFJ0566-MSD1)

Source: 2210148-01

Prepared & Analyzed: 10/21/22

Boron 5.46 0.0100 mg/L 5.00 0.712 95.0 75-125 8.68 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFJ0570 - EPA 3050B

Blank (BFJ0570-BLK1)

Prepared: 10/21/22 Analyzed: 10/22/22

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	"						

LCS (BFJ0570-BS1)

Prepared: 10/21/22 Analyzed: 10/22/22

Arsenic	38.3	0.200	mg/kg wet	40.0	95.8	80-120
Barium	33.7	0.400	"	40.0	84.3	80-120
Cadmium	1.74	0.200	"	2.00	86.9	80-120
Copper	41.8	0.400	"	40.0	104	80-120
Lead	16.2	0.200	"	20.0	81.1	80-120
Nickel	39.9	0.400	"	40.0	99.9	80-120
Selenium	3.81	0.260	"	4.00	95.3	80-120
Silver	2.40	0.0200	"	2.00	120	80-120
Zinc	40.6	0.400	"	40.0	101	80-120

Duplicate (BFJ0570-DUP1)

Source: 2210337-41

Prepared: 10/21/22 Analyzed: 10/22/22

Arsenic	2.59	0.257	mg/kg dry	2.57	0.836	20
Barium	30.3	0.514	"	26.7	12.6	20
Cadmium	0.497	0.257	"	0.406	20.0	20
Copper	12.4	0.514	"	12.0	3.79	20
Lead	28.5	0.257	"	24.9	13.5	20
Nickel	10.1	0.514	"	9.67	3.89	20
Selenium	0.448	0.334	"	0.474	5.57	20
Silver	1.01	0.0257	"	0.875	14.5	20
Zinc	35.1	0.514	"	33.8	3.75	20

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
Project Manager: Paul Henchan

Reported:
10/31/22 11:04

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BFJ0570 - EPA 3050B

Matrix Spike (BFJ0570-MS1)

Source: 2210337-41

Prepared: 10/21/22 Analyzed: 10/22/22

Arsenic	13.4	0.257	mg/kg dry	51.4	2.57	21.0	75-125				QM-05
Barium	68.5	0.514	"	51.4	26.7	81.5	75-125				
Cadmium	2.58	0.257	"	2.57	0.406	84.7	75-125				
Copper	37.8	0.514	"	51.4	12.0	50.3	75-125				QM-05
Lead	47.9	0.257	"	25.7	24.9	89.6	75-125				
Nickel	34.3	0.514	"	51.4	9.67	48.0	75-125				QM-05
Selenium	5.30	0.334	"	5.14	0.474	94.0	75-125				
Silver	3.06	0.0257	"	2.57	0.875	85.2	75-125				
Zinc	72.4	0.514	"	51.4	33.8	75.2	75-125				

Matrix Spike Dup (BFJ0570-MSD1)

Source: 2210337-41

Prepared: 10/21/22 Analyzed: 10/22/22

Arsenic	13.8	0.257	mg/kg dry	51.4	2.57	21.8	75-125	2.96	25		QM-05
Barium	69.6	0.514	"	51.4	26.7	83.5	75-125	1.50	25		
Cadmium	2.65	0.257	"	2.57	0.406	87.3	75-125	2.61	25		
Copper	46.3	0.514	"	51.4	12.0	66.8	75-125	20.2	25		QM-05
Lead	44.3	0.257	"	25.7	24.9	75.5	75-125	7.84	25		
Nickel	37.0	0.514	"	51.4	9.67	53.3	75-125	7.62	25		QM-05
Selenium	5.45	0.334	"	5.14	0.474	96.9	75-125	2.77	25		
Silver	3.07	0.0257	"	2.57	0.875	85.4	75-125	0.218	25		
Zinc	72.3	0.514	"	51.4	33.8	75.0	75-125	0.136	25		

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/31/22 11:04

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BFJ0632 - 3060A Mod

Blank (BFJ0632-BLK1)

Prepared: 10/23/22 Analyzed: 10/24/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFJ0632-BS1)

Prepared: 10/23/22 Analyzed: 10/24/22

Chromium, Hexavalent 24.2 0.30 mg/kg wet 25.0 97.0 80-120

Duplicate (BFJ0632-DUP1)

Source: 2210320-01

Prepared: 10/23/22 Analyzed: 10/24/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFJ0632-MS1)

Source: 2210320-01

Prepared: 10/23/22 Analyzed: 10/24/22

Chromium, Hexavalent 29.5 0.30 mg/kg dry 26.9 ND 110 75-125

Matrix Spike Dup (BFJ0632-MSD1)

Source: 2210320-01

Prepared: 10/23/22 Analyzed: 10/24/22

Chromium, Hexavalent 28.1 0.30 mg/kg dry 26.9 ND 104 75-125 5.05 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/31/22 11:04

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

Summit Scientific

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

Batch BFJ0732 - General Preparation

Blank (BFJ0732-BLK1)

Prepared: 10/26/22 Analyzed: 10/28/22

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

LCS (BFJ0732-BS1)

Prepared: 10/26/22 Analyzed: 10/28/22

Calcium	5.90	0.0500	mg/L wet	5.00		118	70-130			
Magnesium	5.90	0.0500	"	5.00		118	70-130			
Sodium	5.54	0.0500	"	5.00		111	70-130			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/31/22 11:04

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

Summit Scientific

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

Batch BFJ0544 - General Preparation

Duplicate (BFJ0544-DUP1)		Source: 2210320-01			Prepared & Analyzed: 10/21/22					
% Solids	93.0		%		92.8			0.191	20	

Batch BFJ0762 - General Preparation

Duplicate (BFJ0762-DUP1)		Source: 2210286-10			Prepared & Analyzed: 10/27/22					
% Solids	90.2		%		92.8			2.94	20	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/31/22 11:04

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

Summit Scientific

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

Batch BFJ0778 - General Preparation

Blank (BFJ0778-BLK1)

Prepared & Analyzed: 10/27/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFJ0778-BS1)

Prepared & Analyzed: 10/27/22

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

Duplicate (BFJ0778-DUP1)

Source: 2210358-01

Prepared & Analyzed: 10/27/22

Specific Conductance (EC) 0.536 0.0100 mmhos/cm 0.528 1.67 20

Summit Scientific

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



Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Millage C12-18

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 10/31/22 11:04

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

Summit Scientific

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

Batch BFJ0777 - General Preparation

LCS (BFJ0777-BS1)

Prepared & Analyzed: 10/27/22

pH	9.04	pH Units	9.18	98.5	95-105
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Duplicate (BFJ0777-DUP1)

Source: 2210358-01

Prepared & Analyzed: 10/27/22

pH	8.53	pH Units	8.57	0.468	20
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Summit Scientific

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Notes and Definitions

- 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.
- 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