

Fremont Environmental Inc.

March 28, 2023

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

Subject: **Excavation Report**
 UPRC #27-9F Tank Battery
 API# 05-123-15377
 NESE Sec. 27, T4N, R66W
 Weld County, Colorado
 Fremont Project No. C022-025
 Location #327969, Remediation #18876

Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Excavation Report for the UPRC #27-9F tank battery site in Weld County, Colorado. The enclosed report describes excavation and sampling efforts to remediate impacted soil at the site.

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.

A handwritten signature in black ink, appearing to read "Ethan Black" with "for PVH" written below it.

Paul V. Hennehan, P.E.
Senior Consultant

Enclosure

EXCAVATION REPORT

NOBLE ENERGY INC.

UPRC #27-9F TANK BATTERY

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C022-025

LOCATION #327969, REMEDIATION #18876

**Prepared by:
Fremont Environmental Inc.
1759 Redwing Lane
Broomfield, CO 80020
(303) 956-8714**

March 28, 2023

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EXCAVATION REPORT
NOBLE ENERGY INC.
UPRC #27-9F TANK BATTERY
WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-025
LOCATION #327969, REMEDIATION #18876

1.0 INTRODUCTION

The purpose of this document is to present information collected during the multi-day excavation of petroleum impacted soil at the UPRC #27-9F tank battery site in Weld County, Colorado. This excavation project was completed on January 10, 2023.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The UPRC #27-9F tank battery is located approximately one mile east of Gilcrest, Colorado in Weld County as shown on Figure 1. The site is located in a rural and agricultural area approximately 0.5 miles north of the intersection of County Road 33 and County Road 40. The location is further described as the NE ¼ of the SE ¼ of Section 27, Township 4N, Range 66W.

2.2 Site History

The site consists of the former tank battery for the UPRC #27-9F natural gas well. The UPRC #27-9F well was drilled in 1992 to a depth of approximately 7,378 feet.

Impacted soil and groundwater were identified by Eagle Environmental Consulting, Inc. (Eagle) at the former tank battery location following the facility's abandonment, in January 2022. In March 2022 the site was transferred to Fremont Environmental, Inc. (Fremont) and a site investigation to determine the magnitude and extent of impacts at

the former UPRC #27-9F tank battery location was undertaken. Subsequently, soil impacts were removed via excavation.

3.0 FIELD ACTIVITIES

3.1 Soil Sampling and Analysis

Soil remediation efforts consisted of a multi-day excavation and removal of petroleum impacted soil directly beneath, and adjacent to the former produced water vault (PWV). The excavation extent measured approximately 45 feet x 50 feet, with a maximum depth of six feet below ground surface (bgs). Generally, the soil consisted of silty-sand extending to a maximum depth of six feet bgs. Groundwater flowed into the excavation at approximately six feet bgs limiting the vertical extent of the excavation. The excavation extent is illustrated on Figure 2.

The multi-day excavation was completed at the UPRC #27-9F tank battery on January 10, 2023. Soil samples were collected as grab samples from the excavation sidewalls at five feet bgs, and two groundwater samples were collected from the excavation floor at six feet bgs.

The soil samples were analyzed by Summit Scientific, Inc. in Golden, Colorado for benzene, toluene, ethylbenzene and total xylenes (BTEX), naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene (TMB), total petroleum hydrocarbons – gasoline range organics (TPH-GRO) by EPA method 8260B, TPH – diesel range organics (TPH-DRO), extended range organics (TPH-ORO) by EPA method 8015, polycyclic aromatic hydrocarbons (PAH) acenaphthene, anthracene, benzo (a) anthracene, benzo (a) pyrene, benzo (b) fluoranthene, chrysene, dibenz (a,h) anthracene, fluoranthene, fluorene, indeno (1,2,3-cd) pyrene, pyrene, 1-methylnaphthalene, 2-methylnaphthalene by EPA method 8270D, specific conductance (EC) by EPA Method 120.1 saturated paste extraction, saturated paste extraction of soluble nutrients by EPA method 6020/USDA60

6(2) for calculated analysis of sodium absorption ratio (SAR), pH by saturated paste extraction APHA/ASTM/EPA methods, total metals by EPA method 6020B, and hexavalent chromium by EPA method 7196. The laboratory reports and chain-of-custody documentation are included in Appendix B.

A summary of the soil laboratory data is included in Tables 1 through 4. The laboratory analyses indicate that all samples achieved COGCC Table 915-1 Protection of Groundwater Soil Screening Levels (PGSSLs) for organic petroleum constituents. However, several soil samples exceeded Table 915-1 PGSSLs for metals.

All 12 samples collected from the excavation exceeded COGCC Table 915-1 Residential Soil Screening Levels (RSSLS) for arsenic, seven of the 12 samples exceeded the PGSSLs for barium, and 10 of the 12 samples exceeded the PGSSLs for selenium. Three local background samples collected to the north and south of the UPRC #27-9F tank battery in native soil at five-and-six feet bgs also exceeded the COGCC Table 915-1 standards for arsenic and selenium. Therefore, it is proposed that these elevated concentrations of arsenic and selenium be attributed to native soil conditions.

A total of approximately 798 tons (~ 570 cubic yards) of petroleum impacted soil was removed from location via excavation by 4X Industrial, LLC. Impacted soil was disposed of at Buffalo Ridge Landfill in Keenesburg, Colorado as non-hazardous waste. The excavation was backfilled using clean imported fill.

3.2 Groundwater Sampling and Analysis

Groundwater flowed into the bottom of the excavation limiting the vertical extent of soil removed within the saturated zone. Two groundwater samples (GW01 & GW02) were collected from the excavation floor. The groundwater samples were submitted to Summit

Scientific, Inc. for the analyses of organic petroleum constituents benzene, toluene, ethylbenzene, xylenes (BTEX), 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene and naphthalene by EPA Method 8260B. A copy of the laboratory's report is presented in Appendix B.

Both groundwater samples collected achieved the COGCC Table 915-1 standards for all organic petroleum constituents analyzed. The groundwater chemistry is shown on Figure 4 and the analytical data are summarized in Table 5.

4.0 DISCUSSION

As demonstrated by the soil sampling, petroleum impacted soil was removed from the UPRC #27-9F tank battery by excavation. This was confirmed by analysis of soil and groundwater samples collected within the excavation at and adjacent to the former UPRC #27-9F PWV. Approximately 570 cubic yards of impacted soil were removed and transported to the Buffalo Ridge Landfill in Keenesburg, Colorado. The soil and groundwater data are illustrated and summarized in the attached tables and figures.

Concentrations of metals in soil, greater than the COGCC Table 915-1 standards for arsenic, selenium, and barium remain in situ following the excavation's completion. Arsenic and selenium concentrations are proposed to be attributed to native soil conditions based on background samples collected from native soils surrounding the site. Analysis of dissolved barium will be added to the existing groundwater monitoring plan since a potential for communication with groundwater exists between soils exceeding the COGCC Table 915-1 PGSSLs for barium at five feet bgs. After four consecutive quarters of COGCC Table 915-1 compliant groundwater concentrations are achieved a no further action designation will be requested from the COGCC.

5.0 REMARKS

The discussion and conclusions contained in this report represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

This report was prepared by **FREMONT ENVIRONMENTAL INC.**

Prepared By:



3/28/23

Date_____

Jeff T. Griggs

Geologist

Reviewed by:



3/28/23

Date_____

Ethan D. Black, P.G.

Geologist

TABLES

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
UPRC #27-9F, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-025

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		
N01 @ 5.0'	9/6/2022	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.050	<50	<50
E01 @ 5.0'	9/6/2022	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.050	<50	<50
N02 @ 5.0'	9/7/2022	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.050	<50	<50
W01 @ 5.0'	9/7/2022	5	0.060	<0.0050	0.17	0.94	0.47	0.41	0.014	9.5	<50	<50
W02 @ 5.0'	9/8/2022	5	0.025	<0.0050	0.25	3.2	0.63	0.59	0.025	57	<50	<50
S01 @ 5.0'	9/8/2022	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.050	<50	<50
S02 @ 5.0'	9/9/2022	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.050	<50	<50
E02 @ 5.0'	9/9/2022	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.050	<50	<50
W03 @ 5.0'	1/9/2023	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.050	<50	<50
N03 @ 5.0'	1/9/2023	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.050	<50	<50
W04 @ 5.0'	1/10/2023	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.050	<50	<50
S03 @ 5.0'	1/10/2023	5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.050	<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.
UPRC #27-9F, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-025

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
N01 @ 5.0'	9/6/2022	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
E01 @ 5.0'	9/6/2022	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
N02 @ 5.0'	9/7/2022	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
W01 @ 5.0'	9/7/2022	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	0.0133	0.0441
W02 @ 5.0'	9/8/2022	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	0.00791	0.0319
S01 @ 5.0'	9/8/2022	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
S02 @ 5.0'	9/9/2022	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
E02 @ 5.0'	9/9/2022	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
W03 @ 5.0'	1/9/2023	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
N03 @ 5.0'	1/9/2023	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
W04 @ 5.0'	1/10/2023	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
S03 @ 5.0'	1/10/2023	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 COGCC Table 915-1 concentrations
Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

TABLE 3
SUMMARY OF INORGANICS IN SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
UPRC #27-9F, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-025

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
N01@5.0'	9/6/2022	5	7.71	0.481	1.35	0.192
E01@5.0'	9/6/2022	5	7.47	0.891	1.25	0.183
N02@5.0'	9/7/2022	5	7.63	0.757	1.58	0.115
W01@5.0'	9/7/2022	5	7.60	0.514	1.51	0.171
W02@5.0'	9/8/2022	5	7.74	0.667	2.06	0.227
S01@5.0'	9/8/2022	5	7.68	1.29	1.62	0.144
S02@5.0'	9/9/2022	5	7.16	0.576	0.980	0.219
E02@5.0'	9/9/2022	5	6.64	0.994	1.21	0.243
W03@5.0'	1/9/2023	5	7.19	0.789	2.36	0.214
N03@5.0'	1/9/2023	5	7.51	1.00	3.50	0.200
W04@5.0'	1/10/2023	5	7.53	1.18	4.24	0.697
S03@5.0'	1/10/2023	5	7.88	0.385	1.25	0.254
BKG01@5.0'	1/27/2023	5	7.59	1.01	2.35	0.123
BKG N 6ft	02/27/2023	6	8.00	0.518	2.84	0.191
BKG S 6ft	02/27/2023	6	8.13	0.41	1.85	0.22

Bold faced values exceed the COGCC Table 915-1 concentrations

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

Local Background Sample (BKG01@5.0')

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
UPRC #27-9F, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-025

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)
COGCC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
N01 @5.0'	9/6/2022	5	1.62	71.8	<0.238	<0.30	7.22	6.46	6.54	0.688	0.0343	32.9
E01 @5.0'	9/6/2022	5	1.70	55.8	<0.233	<0.30	6.22	5.18	4.54	0.499	0.0278	23.7
N02 @5.0'	9/7/2022	5	1.05	70.6	<0.233	<0.30	5.65	4.72	4.72	0.575	0.0273	26.5
W01 @5.0'	9/7/2022	5	1.59	85.5	<0.250	<0.30	7.03	6.45	6.97	0.770	0.0359	37.5
W02 @5.0'	9/8/2022	5	2.71	82.8	<0.240	<0.30	9.81	9.64	12.5	1.20	0.0404	39.7
S01 @5.0'	9/8/2022	5	2.51	100	<0.243	<0.30	9.21	7.92	10.2	1.25	0.0364	43.2
S02 @5.0'	9/9/2022	5	2.95	132	<0.239	<0.30	11.4	8.70	11.0	1.19	0.0398	50.0
E02 @5.0'	9/9/2022	5	2.96	103	0.271	<0.30	12.0	10.5	9.64	1.16	0.0699	52.3
W03 @5.0'	1/9/2023	5	1.39	66.4	0.176	<0.30	6.56	7.10	6.32	0.501	0.0374	28.4
N03 @5.0'	1/9/2023	5	1.71	143	0.410	<0.30	12.0	11.4	10.2	0.754	0.0537	52.9
W04 @5.0'	1/10/2023	5	2.08	125	0.416	<0.30	6.20	9.35	5.51	<0.310	0.0305	22.9
S03 @5.0'	1/10/2023	5	3.22	54.8	0.212	<0.30	6.16	9.64	6.57	<0.303	0.0308	20.0
BKG01 @5.0'	1/27/2023	5	1.48	73.1	0.0599	<0.30	4.39	4.77	4.60	0.377	0.0449	20.3
BKG N 6ft	02/27/2023	6	2.33	59.9	0.159	<0.30	7.41	6.79	6.64	0.491	0.0346	27.9
BKG S 6ft	02/27/2023	6	2.52	42.4	0.0616	<0.30	7.29	8.17	7.76	0.6	0.0189	29.6

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

Local Background Sample (BKG01@5.0')

TABLE 5
SUMMARY OF GROUNDWATER ORGANIC CHEMISTRY DATA
NOBLE ENERGY INC.
UPRC #27-9F, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-025

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- Trimethyl- Benzene (µg/L)	1,3,5- Trimethyl- Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
COGCC Table 915-1 Limits		5.0	560	700	1400	140	67	67				
GW01	9/9/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	N/A	N/A	N/A	N/A
GW02	1/10/2023	<1.0	<1.0	<1.0	5.7	<1.0	7.2	6.6	N/A	N/A	N/A	N/A

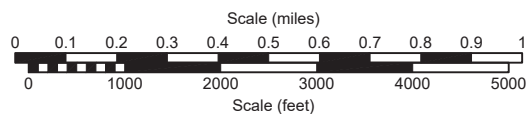
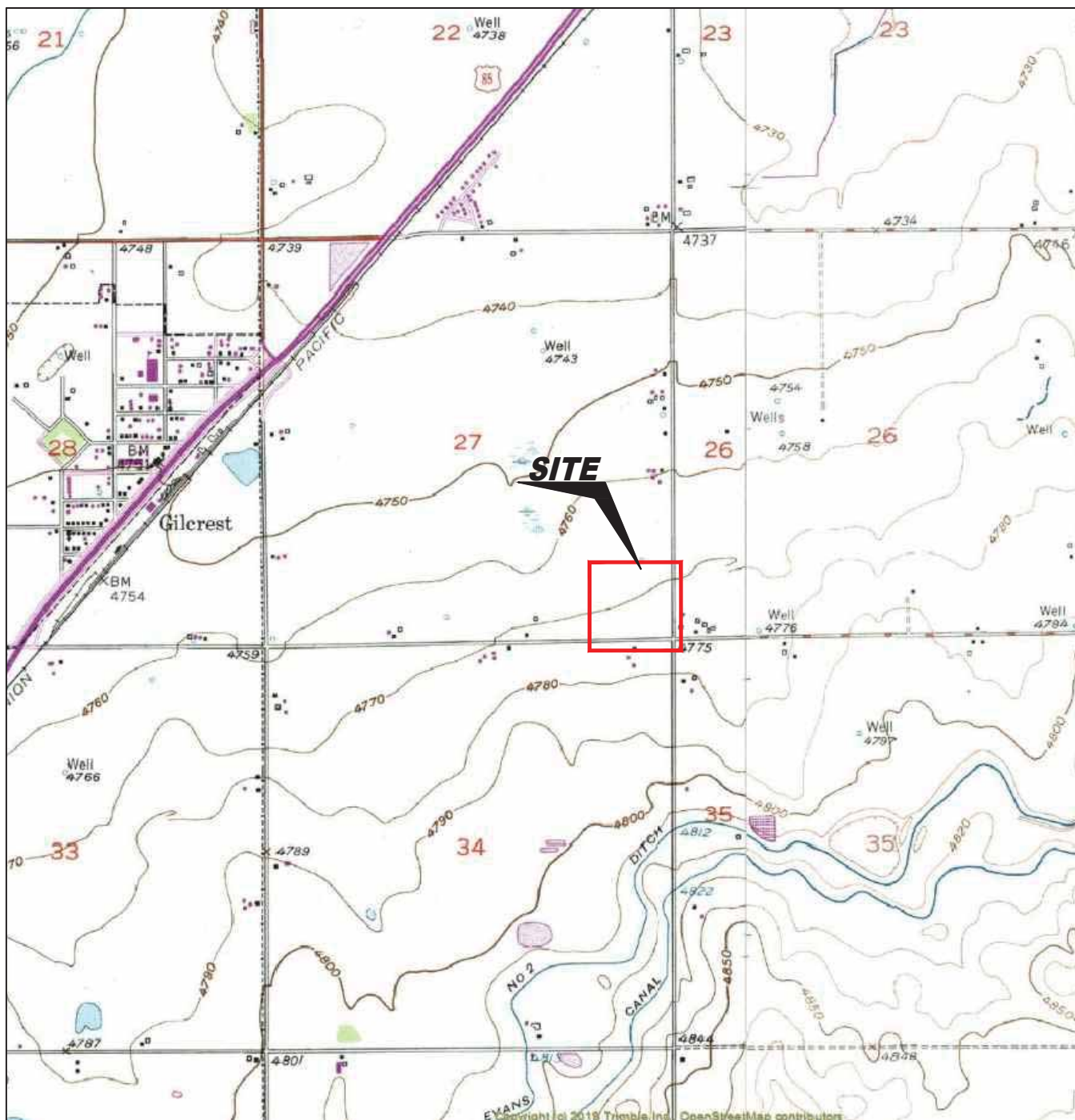
Bold face values exceed the COGCC limits

Red highlighted 915-1 Limits indicate the referenced groundwater screening level

NP - No measureable LNAPL

NA - Not Analyzed

FIGURES



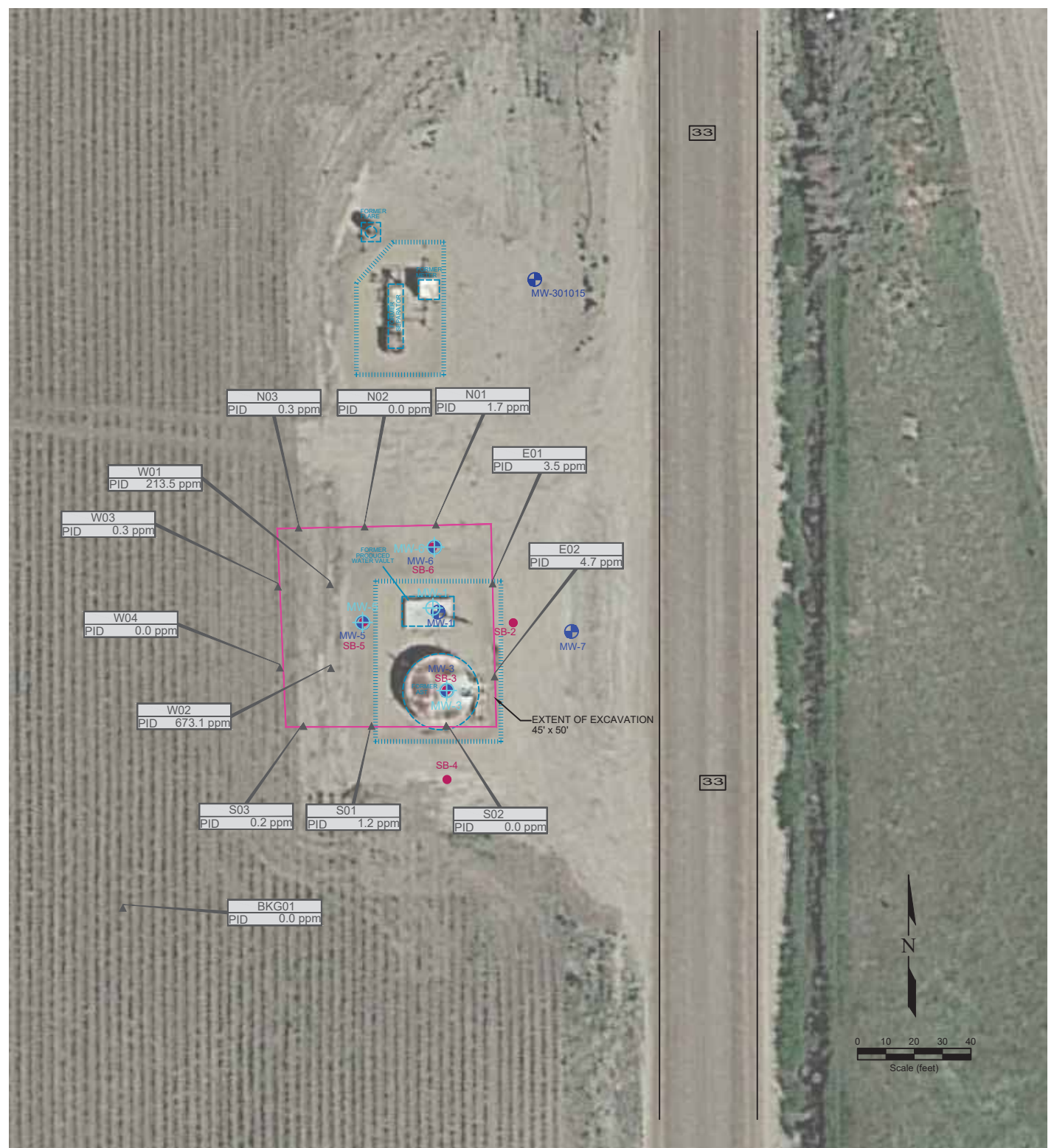
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy, Inc. ~ UPRC #27-9F
NESE Sec. 27, T4N, R66W, 6th PM
Weld County, Colorado
40.278319°, -104.754134°

Project # C022-025	API # 05-123-15377	Location # 327969
Date 3/1/2023	Remediation # 18876	Filename 22025T



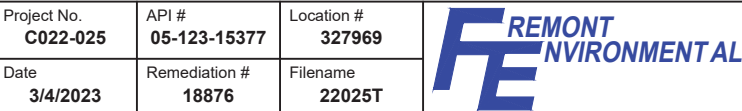


**Figure 2
SITE MAP**

Noble Energy, Inc. ~ UPRC #27-9F
 NESE Sec. 27, T4N, R66W, 6th PM
 Weld County, Colorado
 40.278319°, -104.754134°

Project No. C022-025	API # 05-123-15377	Location # 327969
Date 3/4/2023	Remediation # 18876	Filename 22025T







LEGEND

- SOIL BORING LOCATION
- ★ GROUNDWATER SAMPLE
- ABOVE GROUND STORAGE TANK
- ⊕ MONITORING WELL
- ⊕ PRE-EXISTING WELLS
- ⊕ MONITORING WELL
- ⊕ DESTROYED MONITORING WELL
- ⊕ MONITORING WELL
- FORMER FACILITY
- CONTAINMENT BERM
- EXTENT OF EXCAVATION

DATE SAMPLED	SAMPLE ID
01/10/2023	GW02
B	<1.0
T	<1.0
E	<1.0
X	5.7
124TMB	7.2
135TMB	6.7
N	<1.0

Figure 4

GROUNDWATER CHEMISTRY MAP

Noble Energy, Inc. ~ UPRC #27-9F
NESE Sec. 27, T4N, R66W, 6th PM
Weld County, Colorado
40.278319°, -104.754134°

Project No.
C022-025

API #
05-123-15377

Location #
327969

Date
3/4/2023

Remediation #
18876

Filename
22025T



APPENDIX A

PHOTO LOG

Photo Log



Description:

#1M - UPRC #27-9F - Local Background Sample - BKG01@5.0' - No Impacts Noted - PID 0.0ppm

Photo Log



Description:

#1N - UPRC #27-9F - Local Background Sample Depth - BKG01@5.0'

Photo Log



Description:

#1C - UPRC #27-9F - North Sidewall of Excavation - N03@5.0' - No Impacts Noted - PID 0.2ppm

Photo Log



Description:

#1D - UPRC #27-9F - South Sidewall of Excavation - S01@5.0' - No Impacts Noted - PID 1.2ppm

Photo Log



Description:

#1E - UPRC #27-9F - South Sidewall of Excavation - S03@5.0' - No Impacts Noted - PID 0.2ppm

Photo Log



Description:

#1F - UPRC #27-9F - East Sidewall of Excavation - E01@5.0' - No Impacts Noted - PID 3.5ppm

Photo Log



Description:

#1G - UPRC #27-9F - West Sidewall of Excavation - W01@5.0' - Staining and Odor Present - PID 213.5ppm

Photo Log



Description:

#1H - UPRC #27-9F - West Sidewall of Excavation - W02@5.0' - Staining and Odor Present - PID 673.1ppm

Photo Log



Description:

#11 - UPRC #27-9F - West Sidewall of Excavation - W03@5.0' - No Impacts Noted - PID 0.3ppm

Photo Log



Description:

#1J - UPRC #27-9F - West Sidewall of Excavation - W04@5.0' - No Impacts Noted - PID 0.0ppm

Photo Log



Description:

#1K - UPRC #27-9F - Groundwater Sample - GW01 - Slight Odor - No Sheen

Photo Log



Description:

#1L- UPRC #27-9F - Groundwater Sample - GW02 - Slight Odor - No Sheen

Photo Log



Description:

#1M - UPRC #27-9F - Local Background Sample - BKG01@5.0' - No Impacts Noted - PID 0.0ppm

Photo Log



Description:

#1N - UPRC #27-9F - Local Background Sample Depth - BKG01@5.0'

APPENDIX B

LABORATORY DOCUMENTATION

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 12, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - UPRC 27-9F
Work Order #2209091

Enclosed are the results of analyses for samples received by Summit Scientific on 09/06/22 15:30. 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@5.0'	2209091-01	Soil	09/06/22 00:00	09/06/22 15:30
E01@5.0'	2209091-02	Soil	09/06/22 00:00	09/06/22 15:30

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.

220909/

Summit Scientific

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

ethanb@fremontenv.com

City/State/Zip:

jeffg@fremontenv.com





Phone:

Project Name: UPRC 27-9F

Sampler Name: J6

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBS(915)	GR0, DA0, OR0	PAHs(915)	EC, PH, SAR	Baron	Metals(915)		
1	NO1@5.0'	09/06/22		3			X			X				X	X	X	X	X	X		
2	E01@5.0'	09/06/22		3			X			X				X	X	X	X	X	X		
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: 	Date/Time: 09/06/22 3:30	Received by: 	Date/Time: 9/6/22 3:30	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/>	Bill to Noble
				24 hours <input type="checkbox"/> Standard <input type="checkbox"/>	
				48 hours <input type="checkbox"/>	
Temperature Upon Receipt: 9.1	Corrected Temperature 	HNO ₃ lot #	Sample Integrity:		
IR gun correction: 	IR gun #: 1		Samples Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

S₂

Sample Receipt Checklist

S2 Work Order# 2209091Client: Fremont Client Project ID: UPRC 27-9FShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

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

Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 9.1 Thermometer # 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"/>	
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Same day</u>
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

 Custodian Printed Name

9-6-22
 Date/Time
18:30



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

N01@5.0'
2209091-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BF10121	09/06/22	09/06/22	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: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		95.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		98.9 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BF10122	"	09/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		56.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

N01@5.0'
2209091-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10124	09/07/22	09/07/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		65.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		51.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.192	0.0100	mg/L	1	BF10148	09/07/22	09/08/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

N01@5.0'
2209091-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.62	0.238	mg/kg dry	1	BF10147	09/07/22	09/09/22	EPA 6020B
Barium	71.8	0.475	"	"	"	"	"	"
Cadmium	ND	0.238	"	"	"	"	"	"
Copper	7.22	0.475	"	"	"	"	"	"
Lead	6.46	0.238	"	"	"	"	"	"
Nickel	6.54	0.475	"	"	"	"	"	"
Selenium	0.688	0.309	"	"	"	"	"	"
Silver	0.0343	0.0238	"	"	"	"	"	"
Zinc	32.9	0.475	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10129	09/07/22	09/07/22	EPA 7196A	

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

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.1	0.0594	mg/L dry	1	BF10146	09/07/22	09/09/22	EPA 6020B	
Magnesium	8.21	0.0594	"	"	"	"	"	"	
Sodium	35.0	0.0594	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.35	0.00100	units	1	BF10220	09/09/22	09/09/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

N01@5.0'
2209091-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	84.2	%	1	BFI0156	09/07/22	09/08/22	Calculation
----------	------	---	---	---------	----------	----------	-------------

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.481	0.0100	mmhos/cm	1	BFI0178	09/08/22	09/08/22	EPA 120.1	

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

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.71		pH Units	1	BFI0179	09/08/22	09/08/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henehan

Reported:
09/12/22 10:43

E01@5.0'
2209091-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFI0121	09/06/22	09/06/22	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: **09/06/22 00:00**

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

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFI0122	"	09/06/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		65.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

E01@5.0'
2209091-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10124	09/07/22	09/08/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		63.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		51.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.183	0.0100	mg/L	1	BF10148	09/07/22	09/08/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/06/22 00:00**

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

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

E01@5.0'
2209091-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.70	0.233	mg/kg dry	1	BF10147	09/07/22	09/09/22	EPA 6020B
Barium	55.8	0.467	"	"	"	"	"	"
Cadmium	ND	0.233	"	"	"	"	"	"
Copper	6.22	0.467	"	"	"	"	"	"
Lead	5.18	0.233	"	"	"	"	"	"
Nickel	4.54	0.467	"	"	"	"	"	"
Selenium	0.499	0.303	"	"	"	"	"	"
Silver	0.0278	0.0233	"	"	"	"	"	"
Zinc	23.7	0.467	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10129	09/07/22	09/07/22	EPA 7196A	

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

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	74.7	0.0584	mg/L dry	1	BF10146	09/07/22	09/09/22	EPA 6020B	
Magnesium	17.7	0.0584	"	"	"	"	"	"	
Sodium	46.2	0.0584	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.25	0.00100	units	1	BF10220	09/09/22	09/09/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/06/22 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

E01@5.0'
2209091-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.7	%	1	BF10156	09/07/22	09/08/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.891	0.0100	mmhos/cm	1	BF10178	09/08/22	09/08/22	EPA 120.1	

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

Date Sampled: **09/06/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.47		pH Units	1	BF10179	09/08/22	09/08/22	EPA 9045D	

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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

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 BFI0121 - EPA 5030 Soil MS

Blank (BFI0121-BLK1)

Prepared: 09/06/22 Analyzed: 09/07/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0409		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400		102	50-150			

LCS (BFI0121-BS1)

Prepared: 09/06/22 Analyzed: 09/07/22

Benzene	0.161	0.0020	mg/kg	0.150		108	70-130			
Toluene	0.158	0.0050	"	0.150		105	70-130			
Ethylbenzene	0.156	0.0050	"	0.150		104	70-130			
m,p-Xylene	0.318	0.010	"	0.300		106	70-130			
o-Xylene	0.146	0.0050	"	0.150		97.1	70-130			
1,2,4-Trimethylbenzene	0.152	0.0050	"	0.150		101	70-130			
1,3,5-Trimethylbenzene	0.150	0.0050	"	0.150		99.8	70-130			
Naphthalene	0.143	0.0038	"	0.150		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0408		"	0.0400		102	50-150			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	50-150			

Matrix Spike (BFI0121-MS1)

Source: 2209083-02

Prepared: 09/06/22 Analyzed: 09/07/22

Benzene	0.144	0.0020	mg/kg	0.150	ND	95.7	70-130			
Toluene	0.134	0.0050	"	0.150	ND	89.6	70-130			
Ethylbenzene	0.129	0.0050	"	0.150	ND	86.1	70-130			
m,p-Xylene	0.259	0.010	"	0.300	ND	86.3	70-130			
o-Xylene	0.143	0.0050	"	0.150	ND	95.4	70-130			
1,2,4-Trimethylbenzene	0.140	0.0050	"	0.150	ND	93.2	70-130			
1,3,5-Trimethylbenzene	0.139	0.0050	"	0.150	ND	92.9	70-130			
Naphthalene	0.128	0.0038	"	0.150	ND	85.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0410		"	0.0400		103	50-150			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.7	50-150			

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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

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 BFI0121 - EPA 5030 Soil MS

Matrix Spike Dup (BFI0121-MSD1)		Source: 2209083-02			Prepared: 09/06/22 Analyzed: 09/07/22					
Benzene	0.144	0.0020	mg/kg	0.150	ND	96.2	70-130	0.500	30	
Toluene	0.137	0.0050	"	0.150	ND	91.3	70-130	1.90	30	
Ethylbenzene	0.132	0.0050	"	0.150	ND	87.7	70-130	1.84	30	
m,p-Xylene	0.263	0.010	"	0.300	ND	87.6	70-130	1.54	30	
o-Xylene	0.147	0.0050	"	0.150	ND	97.7	70-130	2.42	30	
1,2,4-Trimethylbenzene	0.144	0.0050	"	0.150	ND	95.7	70-130	2.67	30	
1,3,5-Trimethylbenzene	0.142	0.0050	"	0.150	ND	94.9	70-130	2.07	30	
Naphthalene	0.128	0.0038	"	0.150	ND	85.6	70-130	0.0935	30	
Surrogate: 1,2-Dichloroethane-d4		0.0412	"	0.0400		103	50-150			
Surrogate: Toluene-d8		0.0408	"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene		0.0403	"	0.0400		101	50-150			

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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFI0122 - EPA 3550A

Blank (BFI0122-BLK1)

Prepared & Analyzed: 09/06/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BFI0122-BS1)

Prepared: 09/06/22 Analyzed: 09/07/22

C10-C28 (DRO)	592	50	mg/kg	500	118	70-130
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Matrix Spike (BFI0122-MS1)

Source: 2209083-02

Prepared: 09/06/22 Analyzed: 09/07/22

C10-C28 (DRO)	510	50	mg/kg	500	17.5	98.5	70-130
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Matrix Spike Dup (BFI0122-MSD1)

Source: 2209083-02

Prepared: 09/06/22 Analyzed: 09/07/22

C10-C28 (DRO)	487	50	mg/kg	500	17.5	93.8	70-130	4.68	20
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PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

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 BFI0124 - EPA 5030 Soil MS

Blank (BFI0124-BLK1)

Prepared & Analyzed: 09/07/22

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0381		"	0.0333		114	40-150			
Surrogate: Fluoranthene-d10	0.0269		"	0.0333		80.6	40-150			

LCS (BFI0124-BS1)

Prepared & Analyzed: 09/07/22

Acenaphthene	0.0345	0.00500	mg/kg	0.0333		103	31-137			
Anthracene	0.0322	0.00500	"	0.0333		96.7	30-120			
Benzo (a) anthracene	0.0256	0.00500	"	0.0333		76.7	30-120			
Benzo (a) pyrene	0.0244	0.00500	"	0.0333		73.3	30-120			
Benzo (b) fluoranthene	0.0291	0.00500	"	0.0333		87.3	30-120			
Benzo (k) fluoranthene	0.0349	0.00500	"	0.0333		105	30-120			
Chrysene	0.0317	0.00500	"	0.0333		95.0	30-120			
Dibenz (a,h) anthracene	0.0292	0.00500	"	0.0333		87.5	30-120			
Fluoranthene	0.0339	0.00500	"	0.0333		102	30-120			
Fluorene	0.0357	0.00500	"	0.0333		107	30-120			
Indeno (1,2,3-cd) pyrene	0.0248	0.00500	"	0.0333		74.4	30-120			
Pyrene	0.0319	0.00500	"	0.0333		95.6	35-142			
1-Methylnaphthalene	0.0308	0.00500	"	0.0333		92.3	35-142			
2-Methylnaphthalene	0.0299	0.00500	"	0.0333		89.6	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0311		"	0.0333		93.3	40-150			
Surrogate: Fluoranthene-d10	0.0327		"	0.0333		98.2	40-150			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BFI0124 - EPA 5030 Soil MS

Matrix Spike (BFI0124-MS1)

Source: 2209027-01

Prepared & Analyzed: 09/07/22

Acenaphthene	0.0222	0.00500	mg/kg	0.0333	ND	66.6	31-137				
Anthracene	0.0212	0.00500	"	0.0333	ND	63.6	30-120				
Benzo (a) anthracene	0.0185	0.00500	"	0.0333	ND	55.4	30-120				
Benzo (a) pyrene	0.0166	0.00500	"	0.0333	ND	49.7	30-120				
Benzo (b) fluoranthene	0.0193	0.00500	"	0.0333	ND	57.9	30-120				
Benzo (k) fluoranthene	0.0247	0.00500	"	0.0333	ND	74.2	30-120				
Chrysene	0.0206	0.00500	"	0.0333	ND	61.8	30-120				
Dibenz (a,h) anthracene	0.0191	0.00500	"	0.0333	ND	57.2	30-120				
Fluoranthene	0.0226	0.00500	"	0.0333	ND	67.8	30-120				
Fluorene	0.0234	0.00500	"	0.0333	ND	70.2	30-120				
Indeno (1,2,3-cd) pyrene	0.0179	0.00500	"	0.0333	ND	53.7	30-120				
Pyrene	0.0209	0.00500	"	0.0333	ND	62.6	35-142				
1-Methylnaphthalene	0.0198	0.00500	"	0.0333	ND	59.5	15-130				
2-Methylnaphthalene	0.0186	0.00500	"	0.0333	ND	55.7	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0196		"	0.0333		58.7	40-150				
Surrogate: Fluoranthene-d10	0.0206		"	0.0333		61.8	40-150				

Matrix Spike Dup (BFI0124-MSD1)

Source: 2209027-01

Prepared & Analyzed: 09/07/22

Acenaphthene	0.0213	0.00500	mg/kg	0.0333	ND	64.0	31-137	3.97	30
Anthracene	0.0195	0.00500	"	0.0333	ND	58.5	30-120	8.23	30
Benzo (a) anthracene	0.0172	0.00500	"	0.0333	ND	51.7	30-120	6.78	30
Benzo (a) pyrene	0.0157	0.00500	"	0.0333	ND	47.1	30-120	5.45	30
Benzo (b) fluoranthene	0.0179	0.00500	"	0.0333	ND	53.7	30-120	7.55	30
Benzo (k) fluoranthene	0.0229	0.00500	"	0.0333	ND	68.8	30-120	7.42	30
Chrysene	0.0187	0.00500	"	0.0333	ND	56.0	30-120	9.81	30
Dibenz (a,h) anthracene	0.0165	0.00500	"	0.0333	ND	49.4	30-120	14.7	30
Fluoranthene	0.0213	0.00500	"	0.0333	ND	64.0	30-120	5.71	30
Fluorene	0.0213	0.00500	"	0.0333	ND	63.8	30-120	9.64	30
Indeno (1,2,3-cd) pyrene	0.0157	0.00500	"	0.0333	ND	47.2	30-120	12.8	30
Pyrene	0.0193	0.00500	"	0.0333	ND	57.9	35-142	7.72	30
1-Methylnaphthalene	0.0204	0.00500	"	0.0333	ND	61.3	15-130	2.98	50
2-Methylnaphthalene	0.0187	0.00500	"	0.0333	ND	56.2	15-130	0.812	50
Surrogate: 2-Methylnaphthalene-d10	0.0197		"	0.0333		59.0	40-150		
Surrogate: Fluoranthene-d10	0.0200		"	0.0333		60.1	40-150		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

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 BFI0148 - EPA 3050B

Blank (BFI0148-BLK1)

Prepared: 09/07/22 Analyzed: 09/08/22

Boron ND 0.0100 mg/L

LCS (BFI0148-BS1)

Prepared: 09/07/22 Analyzed: 09/08/22

Boron 4.57 0.0100 mg/L 5.00 91.5 80-120

Duplicate (BFI0148-DUP1)

Source: 2209026-21

Prepared: 09/07/22 Analyzed: 09/08/22

Boron 0.247 0.0100 mg/L 0.251 1.58 20

Matrix Spike (BFI0148-MS1)

Source: 2209026-21

Prepared: 09/07/22 Analyzed: 09/08/22

Boron 4.83 0.0100 mg/L 5.00 0.251 91.7 75-125

Matrix Spike Dup (BFI0148-MSD1)

Source: 2209026-21

Prepared: 09/07/22 Analyzed: 09/08/22

Boron 4.89 0.0100 mg/L 5.00 0.251 92.8 75-125 1.17 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

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 BFI0147 - EPA 3050B

Blank (BFI0147-BLK1)

Prepared: 09/07/22 Analyzed: 09/09/22

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 (BFI0147-BS1)

Prepared: 09/07/22 Analyzed: 09/09/22

Arsenic	36.1	0.200	mg/kg wet	40.0	90.1	80-120
Barium	35.4	0.400	"	40.0	88.5	80-120
Cadmium	1.67	0.200	"	2.00	83.7	80-120
Copper	36.3	0.400	"	40.0	90.7	80-120
Lead	16.2	0.200	"	20.0	80.9	80-120
Nickel	34.5	0.400	"	40.0	86.2	80-120
Selenium	3.60	0.260	"	4.00	89.9	80-120
Silver	1.65	0.0200	"	2.00	82.4	80-120
Zinc	37.2	0.400	"	40.0	92.9	80-120

Duplicate (BFI0147-DUP1)

Source: 2208347-01

Prepared: 09/07/22 Analyzed: 09/09/22

Arsenic	0.674	0.208	mg/kg dry	0.691	2.50	20
Barium	24.9	0.416	"	25.2	1.39	20
Cadmium	0.0238	0.208	"	0.0242	1.89	20
Copper	2.02	0.416	"	2.04	0.963	20
Lead	2.05	0.208	"	2.06	0.383	20
Nickel	1.70	0.416	"	1.73	2.18	20
Selenium	0.300	0.270	"	0.266	11.9	20
Silver	0.00748	0.0208	"	0.00628	17.4	20
Zinc	8.02	0.416	"	8.06	0.536	20

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PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

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 BFI0147 - EPA 3050B

Matrix Spike (BFI0147-MS1)		Source: 2208347-01			Prepared: 09/07/22 Analyzed: 09/09/22					
Arsenic	34.9	0.208	mg/kg dry	41.6	0.691	82.2	75-125			
Barium	49.0	0.416	"	41.6	25.2	57.1	75-125			QM-05
Cadmium	1.84	0.208	"	2.08	0.0242	87.4	75-125			
Copper	35.2	0.416	"	41.6	2.04	79.7	75-125			
Lead	18.7	0.208	"	20.8	2.06	79.9	75-125			
Nickel	34.4	0.416	"	41.6	1.73	78.5	75-125			
Selenium	3.42	0.270	"	4.16	0.266	75.8	75-125			
Silver	1.75	0.0208	"	2.08	0.00628	83.7	75-125			
Zinc	42.4	0.416	"	41.6	8.06	82.5	75-125			

Matrix Spike Dup (BFI0147-MSD1)		Source: 2208347-01			Prepared: 09/07/22 Analyzed: 09/09/22					
Arsenic	35.7	0.208	mg/kg dry	41.6	0.691	84.2	75-125	2.34	25	
Barium	52.6	0.416	"	41.6	25.2	65.9	75-125	7.16	25	QM-05
Cadmium	1.60	0.208	"	2.08	0.0242	75.9	75-125	14.0	25	
Copper	36.0	0.416	"	41.6	2.04	81.6	75-125	2.19	25	
Lead	19.4	0.208	"	20.8	2.06	83.5	75-125	3.94	25	
Nickel	35.3	0.416	"	41.6	1.73	80.8	75-125	2.72	25	
Selenium	3.50	0.270	"	4.16	0.266	77.6	75-125	2.15	25	
Silver	1.90	0.0208	"	2.08	0.00628	91.2	75-125	8.58	25	
Zinc	39.6	0.416	"	41.6	8.06	75.7	75-125	6.90	25	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

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 BFI0129 - 3060A Mod

Blank (BFI0129-BLK1)

Prepared & Analyzed: 09/07/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFI0129-BS1)

Prepared & Analyzed: 09/07/22

Chromium, Hexavalent 23.2 0.30 mg/kg wet 25.0 93.0 80-120

Duplicate (BFI0129-DUP1)

Source: 2208478-01

Prepared & Analyzed: 09/07/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFI0129-MS1)

Source: 2208478-01

Prepared & Analyzed: 09/07/22

Chromium, Hexavalent 26.5 0.30 mg/kg dry 25.6 ND 104 75-125

Matrix Spike Dup (BFI0129-MSD1)

Source: 2208478-01

Prepared & Analyzed: 09/07/22

Chromium, Hexavalent 26.7 0.30 mg/kg dry 25.6 ND 104 75-125 0.769 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

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

Summit Scientific

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

Batch BFI0146 - General Preparation

Blank (BFI0146-BLK1)

Prepared: 09/07/22 Analyzed: 09/09/22

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

LCS (BFI0146-BS1)

Prepared: 09/07/22 Analyzed: 09/09/22

Calcium	5.47	0.0500	mg/L wet	5.00	109	70-130
Magnesium	5.22	0.0500	"	5.00	104	70-130
Sodium	5.02	0.0500	"	5.00	100	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

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

Summit Scientific

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

Batch BFI0156 - General Preparation

Duplicate (BFI0156-DUP1)		Source: 2209046-01		Prepared: 09/07/22 Analyzed: 09/08/22						
% Solids	91.2		%		89.4			1.98	20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

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 BFI0178 - General Preparation

Blank (BFI0178-BLK1)

Prepared & Analyzed: 09/08/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFI0178-BS1)

Prepared & Analyzed: 09/08/22

Specific Conductance (EC) 0.146 0.0100 mmhos/cm 0.150 97.1 95-105

Duplicate (BFI0178-DUP1)

Source: 2209026-17

Prepared & Analyzed: 09/08/22

Specific Conductance (EC) 1.06 0.0100 mmhos/cm 1.08 1.31 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

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

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

Batch BFI0179 - General Preparation

LCS (BFI0179-BS1)

Prepared & Analyzed: 09/08/22

pH	9.13	pH Units	9.18	99.5	95-105
----	------	----------	------	------	--------

Duplicate (BFI0179-DUP1)

Source: 2209026-16

Prepared & Analyzed: 09/08/22

pH	7.65	pH Units	7.62	0.393	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/12/22 10:43

Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 15, 2022

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - UPRC 27-9F

Work Order #2209112

Enclosed are the results of analyses for samples received by Summit Scientific on 09/07/22 16:00. 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N02@5.0'	2209112-01	Soil	09/07/22 00:00	09/07/22 16:00
W01@5.0'	2209112-02	Soil	09/07/22 00:00	09/07/22 16:00

Summit Scientific

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

Summit Scientific

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

220910

Page 1 of 1

Client: Fremont Env

Project Manager: Paul Henahan

Address:

E-Mail: Paul.H@fremontenv.com

ethan.b@fremontenv.com

City/State/Zip:

jeff.g@fremontenv.com

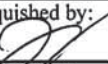



Phone:

Project Name: UPRC 27-9F

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)	GAO,ORO,DRO	PAHs (915)	EC,PH,SAR Boron	Metals (915)		
1	N02@5.0'	09/07/22		3			X				X			X	X	X	X	X		
2	w01@5.0'	09/07/22		3			X			X				X	X	X	X	X		
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: 	Date/Time: 09/07/22/1600	Received by: 	Date/Time: 09/07/22/1600	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/>	Bill to Noble
				24 hours <input type="checkbox"/> Standard <input type="checkbox"/>	
				48 hours <input type="checkbox"/>	
Temperature Upon Receipt: 10.3	Corrected Temperature: 	HNO3 lot #	Sample Integrity:	Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
IR gun correction: 	IR gun #: 1				

S₂

Sample Receipt Checklist

S2 Work Order# 2209112Client: FremontClient Project ID: UPRC 27-9FShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐Airbill #: ☐

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

Matrix (Check all that apply)

Air ☐Soil/Solid ☒Water ☐Other ☐

Temp (°C)

10.3

Thermometer #

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"/>	
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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Sameday</u>
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

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

 Custodian Printed Name

9-7-22
 Date/Time
18:45



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

N02@5.0'
2209112-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BF10157	09/07/22	09/07/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		125 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BF10158	09/07/22	09/07/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		63.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

N02@5.0'
2209112-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10162	09/08/22	09/08/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		65.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		52.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.115	0.0100	mg/L	1	BF10184	09/08/22	09/10/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/07/22 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

N02@5.0'
2209112-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	1.05	0.233	mg/kg dry	1	BFI0214	09/09/22	09/10/22	EPA 6020B
Barium	70.6	0.466	"	"	"	"	"	"
Cadmium	ND	0.233	"	"	"	"	"	"
Copper	5.65	0.466	"	"	"	"	"	"
Lead	4.72	0.233	"	"	"	"	"	"
Nickel	4.72	0.466	"	"	"	"	"	"
Selenium	0.575	0.303	"	"	"	"	"	"
Silver	0.0237	0.0233	"	"	"	"	"	"
Zinc	26.5	0.466	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFI0165	09/08/22	09/09/22	EPA 7196A	

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

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	51.2	0.0583	mg/L dry	1	BFI0182	09/08/22	09/10/22	EPA 6020B	
Magnesium	12.9	0.0583	"	"	"	"	"	"	
Sodium	48.9	0.0583	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.58	0.00100	units	1	BFI0261	09/12/22	09/12/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

N02@5.0'
2209112-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.8	%	1	BFI0175	09/08/22	09/09/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.757	0.0100	mmhos/cm	1	BFI0231	09/09/22	09/09/22	EPA 120.1	

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

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.63		pH Units	1	BFI0230	09/09/22	09/09/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

W01@5.0'
2209112-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.060	0.0020	mg/kg	1	BF10157	09/07/22	09/07/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.17	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.94	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.47	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.41	0.0050	"	"	"	"	"	"	
Naphthalene	0.014	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	9.5	0.50	"	"	"	"	"	"	

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		124 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		97.0 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		126 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BF10158	09/07/22	09/07/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		46.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

W01@5.0'
2209112-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10162	09/08/22	09/08/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.0133	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0441	0.00500	"	"	"	"	"	"	

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		60.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		53.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.171	0.0100	mg/L	1	BF10184	09/08/22	09/10/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henehan

Reported:
09/15/22 16:15

W01@5.0'
2209112-02 (Soil)

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Total Metals by EPA 6020B

Arsenic	1.59	0.250	mg/kg dry	1	BF10214	09/09/22	09/10/22	EPA 6020B
Barium	85.5	0.501	"	"	"	"	"	"
Cadmium	ND	0.250	"	"	"	"	"	"
Copper	7.03	0.501	"	"	"	"	"	"
Lead	6.45	0.250	"	"	"	"	"	"
Nickel	6.97	0.501	"	"	"	"	"	"
Selenium	0.770	0.325	"	"	"	"	"	"
Silver	0.0359	0.0250	"	"	"	"	"	"
Zinc	37.5	0.501	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10165	09/08/22	09/09/22	EPA 7196A	

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

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	37.8	0.0626	mg/L dry	1	BF10182	09/08/22	09/10/22	EPA 6020B	
Magnesium	11.1	0.0626	"	"	"	"	"	"	
Sodium	41.0	0.0626	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.51	0.00100	units	1	BF10261	09/12/22	09/12/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/07/22 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

W01@5.0'
2209112-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	79.9	%	1	BFI0175	09/08/22	09/09/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.514	0.0100	mmhos/cm	1	BFI0231	09/09/22	09/09/22	EPA 120.1	

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

Date Sampled: **09/07/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.60		pH Units	1	BFI0230	09/09/22	09/09/22	EPA 9045D	

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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

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 BFI0157 - EPA 5030 Soil MS

Blank (BFI0157-BLK1)

Prepared: 09/07/22 Analyzed: 09/08/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0476		"	0.0400		119	50-150			
Surrogate: Toluene-d8	0.0387		"	0.0400		96.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0366		"	0.0400		91.6	50-150			

LCS (BFI0157-BS1)

Prepared: 09/07/22 Analyzed: 09/08/22

Benzene	0.0563	0.0020	mg/kg	0.0750		75.0	70-130			
Toluene	0.0554	0.0050	"	0.0750		73.8	70-130			
Ethylbenzene	0.0588	0.0050	"	0.0750		78.4	70-130			
m,p-Xylene	0.119	0.010	"	0.150		79.6	70-130			
o-Xylene	0.0550	0.0050	"	0.0750		73.4	70-130			
1,2,4-Trimethylbenzene	0.0532	0.0050	"	0.0750		70.9	70-130			
1,3,5-Trimethylbenzene	0.0556	0.0050	"	0.0750		74.2	70-130			
Naphthalene	0.0532	0.0038	"	0.0750		71.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0468		"	0.0400		117	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		99.9	50-150			
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400		95.5	50-150			

Matrix Spike (BFI0157-MS1)

Source: 2209111-01

Prepared: 09/07/22 Analyzed: 09/08/22

Benzene	0.0529	0.0020	mg/kg	0.0750	ND	70.5	70-130			
Toluene	0.0546	0.0050	"	0.0750	ND	72.8	70-130			
Ethylbenzene	0.0569	0.0050	"	0.0750	ND	75.9	70-130			
m,p-Xylene	0.110	0.010	"	0.150	ND	73.5	70-130			
o-Xylene	0.0556	0.0050	"	0.0750	ND	74.2	70-130			
1,2,4-Trimethylbenzene	0.0526	0.0050	"	0.0750	ND	70.2	70-130			
1,3,5-Trimethylbenzene	0.0714	0.0050	"	0.0750	ND	95.2	70-130			
Naphthalene	0.0727	0.0038	"	0.0750	ND	96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0473		"	0.0400		118	50-150			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	50-150			

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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

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 BFI0157 - EPA 5030 Soil MS

Matrix Spike Dup (BFI0157-MSD1)		Source: 2209111-01		Prepared: 09/07/22 Analyzed: 09/08/22						
Benzene	0.0540	0.0020	mg/kg	0.0750	ND	72.0	70-130	2.13	30	
Toluene	0.0557	0.0050	"	0.0750	ND	74.3	70-130	2.01	30	
Ethylbenzene	0.0568	0.0050	"	0.0750	ND	75.7	70-130	0.317	30	
m,p-Xylene	0.114	0.010	"	0.150	ND	76.2	70-130	3.61	30	
o-Xylene	0.0557	0.0050	"	0.0750	ND	74.3	70-130	0.162	30	
1,2,4-Trimethylbenzene	0.0531	0.0050	"	0.0750	ND	70.8	70-130	0.795	30	
1,3,5-Trimethylbenzene	0.0713	0.0050	"	0.0750	ND	95.0	70-130	0.126	30	
Naphthalene	0.0745	0.0038	"	0.0750	ND	99.4	70-130	2.49	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0468		"	0.0400		117	50-150			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	50-150			

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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFI0158 - EPA 3550A

Blank (BFI0158-BLK1)

Prepared: 09/07/22 Analyzed: 09/08/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BFI0158-BS1)

Prepared: 09/07/22 Analyzed: 09/08/22

C10-C28 (DRO)	576	50	mg/kg	500	115	70-130
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Matrix Spike (BFI0158-MS1)

Source: 2209111-01

Prepared: 09/07/22 Analyzed: 09/08/22

C10-C28 (DRO)	641	50	mg/kg	500	22.8	124	70-130
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Matrix Spike Dup (BFI0158-MSD1)

Source: 2209111-01

Prepared: 09/07/22 Analyzed: 09/08/22

C10-C28 (DRO)	602	50	mg/kg	500	22.8	116	70-130	6.16	20
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PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

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 BFI0162 - EPA 5030 Soil MS

Blank (BFI0162-BLK1)

Prepared & Analyzed: 09/08/22

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0328		"	0.0333		98.3	40-150			
Surrogate: Fluoranthene-d10	0.0257		"	0.0333		77.1	40-150			

LCS (BFI0162-BS1)

Prepared & Analyzed: 09/08/22

Acenaphthene	0.0370	0.00500	mg/kg	0.0333	111	31-137
Anthracene	0.0355	0.00500	"	0.0333	107	30-120
Benzo (a) anthracene	0.0262	0.00500	"	0.0333	78.6	30-120
Benzo (a) pyrene	0.0254	0.00500	"	0.0333	76.1	30-120
Benzo (b) fluoranthene	0.0305	0.00500	"	0.0333	91.6	30-120
Benzo (k) fluoranthene	0.0351	0.00500	"	0.0333	105	30-120
Chrysene	0.0352	0.00500	"	0.0333	106	30-120
Dibenz (a,h) anthracene	0.0346	0.00500	"	0.0333	104	30-120
Fluoranthene	0.0353	0.00500	"	0.0333	106	30-120
Fluorene	0.0381	0.00500	"	0.0333	114	30-120
Indeno (1,2,3-cd) pyrene	0.0271	0.00500	"	0.0333	81.4	30-120
Pyrene	0.0422	0.00500	"	0.0333	126	35-142
1-Methylnaphthalene	0.0307	0.00500	"	0.0333	92.0	35-142
2-Methylnaphthalene	0.0316	0.00500	"	0.0333	94.8	35-142
Surrogate: 2-Methylnaphthalene-d10	0.0320		"	0.0333	96.1	40-150
Surrogate: Fluoranthene-d10	0.0337		"	0.0333	101	40-150

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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

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 BFI0162 - EPA 5030 Soil MS

Matrix Spike (BFI0162-MS1)

Source: 2209112-01

Prepared & Analyzed: 09/08/22

Acenaphthene	0.0215	0.00500	mg/kg	0.0333	ND	64.4	31-137		
Anthracene	0.0171	0.00500	"	0.0333	ND	51.2	30-120		
Benzo (a) anthracene	0.0161	0.00500	"	0.0333	ND	48.2	30-120		
Benzo (a) pyrene	0.0142	0.00500	"	0.0333	ND	42.5	30-120		
Benzo (b) fluoranthene	0.0174	0.00500	"	0.0333	ND	52.3	30-120		
Benzo (k) fluoranthene	0.0243	0.00500	"	0.0333	ND	72.9	30-120		
Chrysene	0.0183	0.00500	"	0.0333	ND	54.9	30-120		
Dibenz (a,h) anthracene	0.0316	0.00500	"	0.0333	ND	94.9	30-120		
Fluoranthene	0.0177	0.00500	"	0.0333	ND	53.1	30-120		
Fluorene	0.0231	0.00500	"	0.0333	ND	69.3	30-120		
Indeno (1,2,3-cd) pyrene	0.0301	0.00500	"	0.0333	ND	90.2	30-120		
Pyrene	0.0216	0.00500	"	0.0333	ND	64.7	35-142		
1-Methylnaphthalene	0.0156	0.00500	"	0.0333	ND	46.8	15-130		
2-Methylnaphthalene	0.0150	0.00500	"	0.0333	ND	45.1	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0171		"	0.0333		51.2	40-150		
Surrogate: Fluoranthene-d10	0.0170		"	0.0333		50.9	40-150		

Matrix Spike Dup (BFI0162-MSD1)

Source: 2209112-01

Prepared & Analyzed: 09/08/22

Acenaphthene	0.0216	0.00500	mg/kg	0.0333	ND	64.7	31-137	0.514	30
Anthracene	0.0193	0.00500	"	0.0333	ND	57.8	30-120	12.1	30
Benzo (a) anthracene	0.0176	0.00500	"	0.0333	ND	52.7	30-120	8.82	30
Benzo (a) pyrene	0.0159	0.00500	"	0.0333	ND	47.6	30-120	11.4	30
Benzo (b) fluoranthene	0.0192	0.00500	"	0.0333	ND	57.5	30-120	9.42	30
Benzo (k) fluoranthene	0.0258	0.00500	"	0.0333	ND	77.3	30-120	5.91	30
Chrysene	0.0196	0.00500	"	0.0333	ND	58.9	30-120	7.04	30
Dibenz (a,h) anthracene	0.0249	0.00500	"	0.0333	ND	74.8	30-120	23.7	30
Fluoranthene	0.0196	0.00500	"	0.0333	ND	58.9	30-120	10.4	30
Fluorene	0.0239	0.00500	"	0.0333	ND	71.7	30-120	3.31	30
Indeno (1,2,3-cd) pyrene	0.0293	0.00500	"	0.0333	ND	87.9	30-120	2.58	30
Pyrene	0.0222	0.00500	"	0.0333	ND	66.6	35-142	2.85	30
1-Methylnaphthalene	0.0175	0.00500	"	0.0333	ND	52.5	15-130	11.6	50
2-Methylnaphthalene	0.0168	0.00500	"	0.0333	ND	50.4	15-130	11.1	50
Surrogate: 2-Methylnaphthalene-d10	0.0173		"	0.0333		52.0	40-150		
Surrogate: Fluoranthene-d10	0.0187		"	0.0333		56.2	40-150		

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Fremont Environmental
PO Box 1289
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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

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 BFI0184 - EPA 3050B

Blank (BFI0184-BLK1)

Prepared: 09/08/22 Analyzed: 09/10/22

Boron ND 0.0100 mg/L

LCS (BFI0184-BS1)

Prepared: 09/08/22 Analyzed: 09/10/22

Boron 4.87 0.0100 mg/L 5.00 97.4 80-120

Duplicate (BFI0184-DUP1)

Source: 2209038-05

Prepared: 09/08/22 Analyzed: 09/10/22

Boron 0.564 0.0100 mg/L 0.564 0.0423 20

Matrix Spike (BFI0184-MS1)

Source: 2209038-05

Prepared: 09/08/22 Analyzed: 09/10/22

Boron 4.90 0.0100 mg/L 5.00 0.564 86.7 75-125

Matrix Spike Dup (BFI0184-MSD1)

Source: 2209038-05

Prepared: 09/08/22 Analyzed: 09/10/22

Boron 4.81 0.0100 mg/L 5.00 0.564 84.9 75-125 1.91 25

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

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 BFI0214 - EPA 3050B

Blank (BFI0214-BLK1)

Prepared: 09/09/22 Analyzed: 09/10/22

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 (BFI0214-BS1)

Prepared: 09/09/22 Analyzed: 09/10/22

Arsenic	34.1	0.200	mg/kg wet	40.0	85.3	80-120
Barium	35.5	0.400	"	40.0	88.8	80-120
Cadmium	1.73	0.200	"	2.00	86.7	80-120
Copper	36.6	0.400	"	40.0	91.4	80-120
Lead	20.6	0.200	"	20.0	103	80-120
Nickel	35.8	0.400	"	40.0	89.5	80-120
Selenium	3.69	0.260	"	4.00	92.2	80-120
Silver	2.13	0.0200	"	2.00	106	80-120
Zinc	38.8	0.400	"	40.0	97.0	80-120

Duplicate (BFI0214-DUP1)

Source: 2209038-01

Prepared: 09/09/22 Analyzed: 09/10/22

Arsenic	5.24	0.240	mg/kg dry	5.22	0.407	20
Barium	34.1	0.479	"	34.1	0.210	20
Cadmium	0.107	0.240	"	0.103	3.48	20
Copper	9.10	0.479	"	8.97	1.37	20
Lead	6.70	0.240	"	6.51	2.93	20
Nickel	7.50	0.479	"	7.47	0.479	20
Selenium	0.709	0.312	"	0.726	2.47	20
Silver	0.0463	0.0240	"	0.0451	2.61	20
Zinc	39.2	0.479	"	38.6	1.58	20

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PO Box 1289
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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

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 BFI0214 - EPA 3050B

Matrix Spike (BFI0214-MS1)

Source: 2209038-01

Prepared: 09/09/22 Analyzed: 09/10/22

Arsenic	43.5	0.240	mg/kg dry	47.9	5.22	79.8	75-125
Barium	77.1	0.479	"	47.9	34.1	89.7	75-125
Cadmium	1.95	0.240	"	2.40	0.103	77.2	75-125
Copper	46.6	0.479	"	47.9	8.97	78.6	75-125
Lead	28.4	0.240	"	24.0	6.51	91.4	75-125
Nickel	44.9	0.479	"	47.9	7.47	78.1	75-125
Selenium	4.65	0.312	"	4.79	0.726	81.9	75-125
Silver	2.14	0.0240	"	2.40	0.0451	87.4	75-125
Zinc	85.4	0.479	"	47.9	38.6	97.7	75-125

Matrix Spike Dup (BFI0214-MSD1)

Source: 2209038-01

Prepared: 09/09/22 Analyzed: 09/10/22

Arsenic	46.0	0.240	mg/kg dry	47.9	5.22	85.0	75-125	5.57	25
Barium	81.7	0.479	"	47.9	34.1	99.4	75-125	5.85	25
Cadmium	2.04	0.240	"	2.40	0.103	80.7	75-125	4.20	25
Copper	50.5	0.479	"	47.9	8.97	86.7	75-125	8.02	25
Lead	25.1	0.240	"	24.0	6.51	77.7	75-125	12.3	25
Nickel	47.6	0.479	"	47.9	7.47	83.7	75-125	5.83	25
Selenium	4.55	0.312	"	4.79	0.726	79.8	75-125	2.20	25
Silver	2.23	0.0240	"	2.40	0.0451	91.2	75-125	4.11	25
Zinc	90.0	0.479	"	47.9	38.6	107	75-125	5.26	25

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

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 BFI0165 - 3060A Mod

Blank (BFI0165-BLK1)

Prepared: 09/08/22 Analyzed: 09/09/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFI0165-BS1)

Prepared: 09/08/22 Analyzed: 09/09/22

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 103 80-120

Duplicate (BFI0165-DUP1)

Source: 2208347-01

Prepared: 09/08/22 Analyzed: 09/09/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFI0165-MS1)

Source: 2208347-01

Prepared: 09/08/22 Analyzed: 09/09/22

Chromium, Hexavalent 26.0 0.30 mg/kg dry 26.0 ND 99.8 75-125

Matrix Spike Dup (BFI0165-MSD1)

Source: 2208347-01

Prepared: 09/08/22 Analyzed: 09/09/22

Chromium, Hexavalent 24.3 0.30 mg/kg dry 26.0 ND 93.6 75-125 6.41 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

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

Summit Scientific

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

Batch BFI0182 - General Preparation

Blank (BFI0182-BLK1)

Prepared: 09/08/22 Analyzed: 09/10/22

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

LCS (BFI0182-BS1)

Prepared: 09/08/22 Analyzed: 09/10/22

Calcium	5.46	0.0500	mg/L wet	5.00	109	70-130
Magnesium	5.24	0.0500	"	5.00	105	70-130
Sodium	5.08	0.0500	"	5.00	102	70-130

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

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

Summit Scientific

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

Batch BFI0175 - General Preparation

Duplicate (BFI0175-DUP1)		Source: 2209083-02		Prepared: 09/08/22 Analyzed: 09/09/22						
% Solids	83.7		%		84.5			0.941	20	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

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 BFI0231 - General Preparation

Blank (BFI0231-BLK1)

Prepared & Analyzed: 09/09/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFI0231-BS1)

Prepared & Analyzed: 09/09/22

Specific Conductance (EC) 0.145 0.0100 mmhos/cm 0.150 96.7 95-105

Duplicate (BFI0231-DUP1)

Source: 2209050-01

Prepared & Analyzed: 09/09/22

Specific Conductance (EC) 5.63 0.0100 mmhos/cm 5.62 0.249 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

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

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

Batch BFI0230 - General Preparation

LCS (BFI0230-BS1)

Prepared & Analyzed: 09/09/22

pH	9.13	pH Units	9.18	99.5	95-105
----	------	----------	------	------	--------

Duplicate (BFI0230-DUP1)

Source: 2209050-01

Prepared & Analyzed: 09/09/22

pH	7.51	pH Units	7.41	1.34	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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 16:15

Notes and Definitions

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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 13, 2022

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - UPRC 27-9F

Work Order #2209147

Enclosed are the results of analyses for samples received by Summit Scientific on 09/08/22 16:00. 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W02@5.0'	2209147-01	Soil	09/08/22 00:00	09/08/22 16:00
S01@5.0'	2209147-02	Soil	09/08/22 00:00	09/08/22 16:00

Summit Scientific

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

Summit Scientific

2209147

S₂

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

Page 1 of 1

Client: Fremont Env

Project Manager: Paul Henahan

Address:

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

City/State/Zip:

Jeffg@fremontenv.com

Phone:

Project Name: UPRC 27-9F

Sampler Name: J6

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMDS(915)	GRD, DRD, ORD	PAHs(915)	EC ₁₀ PH ₁ SAR BOD ₅	Metals(915)			
1	W02@5.0'	09/08/22		3			X			X				X	X	X	X	X	X		
2	S01@5.0'	09/08/22		3			X			X				X	X	X	X	X	X		
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>09/08/22 1600</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9/8/22 1600</u>	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/>	Bill to Noble
				24 hours <input type="checkbox"/> Standard <input type="checkbox"/>	
				48 hours <input type="checkbox"/>	
Temperature Upon Receipt: <u>8.9</u>	Corrected Temperature: <u>[Signature]</u>	HNO ₃ lot #	Sample Integrity:		
IR gun correction: <u>[Signature]</u>	IR gun #: <u>1</u>		Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

S₂

Sample Receipt Checklist

S2 Work Order# 2209147

Client: Fremont Env.

Client Project ID: UPRC 27-9F

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

Airbill #:

☐ ☒ ☐ ☐ ☐

Matrix (Check all that apply)

Air

☐

Soil/Solid

☒

Water

☐

Other

☐

Temp (°C) 8.9

Thermometer #

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

Additional Comments (if any):

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

CS

Custodian Printed Name

9.8.22 19:50

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

W02@5.0'
2209147-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.025	0.0020	mg/kg	1	BF10198	09/08/22	09/08/22	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.25	0.0050	"	"	"	"	"	"	
Xylenes (total)	3.2	0.10	"	10	"	"	"	"	
1,2,4-Trimethylbenzene	0.63	0.0050	"	1	"	"	"	"	
1,3,5-Trimethylbenzene	0.59	0.0050	"	"	"	"	"	"	
Naphthalene	0.025	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	57	0.50	"	"	"	"	"	"	

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		140 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		124 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BF10199	09/08/22	09/08/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		72.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

W02@5.0'
2209147-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10204	09/09/22	09/10/22	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	0.00791	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0319	0.00500	"	"	"	"	"	"	

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		72.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		51.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.227	0.0100	mg/L	1	BF10208	09/09/22	09/10/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/08/22 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

W02@5.0'
2209147-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.71	0.240	mg/kg dry	1	BFI0259	09/12/22	09/12/22	EPA 6020B
Barium	82.8	0.481	"	"	"	"	"	"
Cadmium	ND	0.240	"	"	"	"	"	"
Copper	9.81	0.481	"	"	"	"	"	"
Lead	9.64	0.240	"	"	"	"	"	"
Nickel	12.5	0.481	"	"	"	"	"	"
Selenium	1.20	0.313	"	"	"	"	"	"
Silver	0.0404	0.0240	"	"	"	"	"	"
Zinc	39.7	0.481	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFI0212	09/09/22	09/10/22	EPA 7196A	

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

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	48.1	0.0601	mg/L dry	1	BFI0232	09/09/22	09/11/22	EPA 6020B	
Magnesium	14.2	0.0601	"	"	"	"	"	"	
Sodium	63.3	0.0601	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.06	0.00100	units	1	BFI0251	09/12/22	09/12/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

W02@5.0'
2209147-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.2	%	1	BFI0233	09/09/22	09/10/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.667	0.0100	mmhos/cm	1	BFI0245	09/12/22	09/12/22	EPA 120.1	

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

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.74		pH Units	1	BFI0246	09/12/22	09/12/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

S01@5.0'
2209147-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BF10198	09/08/22	09/08/22	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: **09/08/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		121 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		103 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BF10199	09/08/22	09/08/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		60.5 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

S01@5.0'
2209147-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10204	09/09/22	09/10/22	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: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		79.4 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.144	0.0100	mg/L	1	BF10208	09/09/22	09/10/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/08/22 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

S01@5.0'
2209147-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.51	0.243	mg/kg dry	1	BFI0259	09/12/22	09/12/22	EPA 6020B
Barium	100	0.487	"	"	"	"	"	"
Cadmium	ND	0.243	"	"	"	"	"	"
Copper	9.21	0.487	"	"	"	"	"	"
Lead	7.92	0.243	"	"	"	"	"	"
Nickel	10.2	0.487	"	"	"	"	"	"
Selenium	1.25	0.316	"	"	"	"	"	"
Silver	0.0364	0.0243	"	"	"	"	"	"
Zinc	43.2	0.487	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BFI0212	09/09/22	09/10/22	EPA 7196A	

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

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	130	0.0608	mg/L dry	1	BFI0232	09/09/22	09/11/22	EPA 6020B	
Magnesium	26.9	0.0608	"	"	"	"	"	"	
Sodium	77.8	0.0608	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.62	0.00100	units	1	BFI0251	09/12/22	09/12/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

S01@5.0'
2209147-02 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	82.2	%	1	BFI0233	09/09/22	09/10/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.29	0.0100	mmhos/cm	1	BFI0245	09/12/22	09/12/22	EPA 120.1	

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

Date Sampled: **09/08/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.68		pH Units	1	BFI0246	09/12/22	09/12/22	EPA 9045D	

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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BFI0198 - EPA 5030 Soil MS

Blank (BFI0198-BLK1)

Prepared & Analyzed: 09/08/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0460		"	0.0400		115	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0363		"	0.0400		90.7	50-150			

LCS (BFI0198-BS1)

Prepared & Analyzed: 09/08/22

Benzene	0.0960	0.0020	mg/kg	0.100		96.0	70-130			
Toluene	0.108	0.0050	"	0.100		108	70-130			
Ethylbenzene	0.111	0.0050	"	0.100		111	70-130			
m,p-Xylene	0.217	0.010	"	0.200		108	70-130			
o-Xylene	0.0909	0.0050	"	0.100		90.9	70-130			
1,2,4-Trimethylbenzene	0.0893	0.0050	"	0.100		89.3	70-130			
1,3,5-Trimethylbenzene	0.0919	0.0050	"	0.100		91.9	70-130			
Naphthalene	0.0903	0.0038	"	0.100		90.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0473		"	0.0400		118	50-150			
Surrogate: Toluene-d8	0.0392		"	0.0400		98.0	50-150			
Surrogate: 4-Bromofluorobenzene	0.0374		"	0.0400		93.4	50-150			

Matrix Spike (BFI0198-MS1)

Source: 2209146-01

Prepared & Analyzed: 09/08/22

Benzene	0.0936	0.0020	mg/kg	0.100	ND	93.6	70-130			
Toluene	0.102	0.0050	"	0.100	ND	102	70-130			
Ethylbenzene	0.106	0.0050	"	0.100	ND	106	70-130			
m,p-Xylene	0.212	0.010	"	0.200	ND	106	70-130			
o-Xylene	0.0879	0.0050	"	0.100	ND	87.9	70-130			
1,2,4-Trimethylbenzene	0.0824	0.0050	"	0.100	ND	82.4	70-130			
1,3,5-Trimethylbenzene	0.0864	0.0050	"	0.100	ND	86.4	70-130			
Naphthalene	0.0854	0.0038	"	0.100	ND	85.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0514		"	0.0400		129	50-150			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.1	50-150			

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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

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 BFI0198 - EPA 5030 Soil MS

Matrix Spike Dup (BFI0198-MSD1)		Source: 2209146-01			Prepared & Analyzed: 09/08/22					
Benzene	0.0938	0.0020	mg/kg	0.100	ND	93.8	70-130	0.224	30	
Toluene	0.103	0.0050	"	0.100	ND	103	70-130	0.587	30	
Ethylbenzene	0.104	0.0050	"	0.100	ND	104	70-130	1.12	30	
m,p-Xylene	0.209	0.010	"	0.200	ND	105	70-130	1.05	30	
o-Xylene	0.0883	0.0050	"	0.100	ND	88.3	70-130	0.477	30	
1,2,4-Trimethylbenzene	0.0844	0.0050	"	0.100	ND	84.4	70-130	2.52	30	
1,3,5-Trimethylbenzene	0.0843	0.0050	"	0.100	ND	84.3	70-130	2.53	30	
Naphthalene	0.0877	0.0038	"	0.100	ND	87.7	70-130	2.67	30	
Surrogate: 1,2-Dichloroethane-d4		0.0520	"	0.0400		130	50-150			
Surrogate: Toluene-d8		0.0405	"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene		0.0389	"	0.0400		97.2	50-150			

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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFI0199 - EPA 3550A

Blank (BFI0199-BLK1)

Prepared & Analyzed: 09/08/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BFI0199-BS1)

Prepared & Analyzed: 09/08/22

C10-C28 (DRO)	460	50	mg/kg	500	92.1	70-130
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Matrix Spike (BFI0199-MS1)

Source: 2209146-01

Prepared & Analyzed: 09/08/22

C10-C28 (DRO)	401	50	mg/kg	500	19.3	76.4	70-130
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Matrix Spike Dup (BFI0199-MSD1)

Source: 2209146-01

Prepared & Analyzed: 09/08/22

C10-C28 (DRO)	468	50	mg/kg	500	19.3	89.8	70-130	15.4	20
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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFI0204 - EPA 5030 Soil MS

Blank (BFI0204-BLK1)

Prepared & Analyzed: 09/09/22

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	"								
Surrogate: 2-Methylnaphthalene-d10	0.0374		"	0.0333		112		40-150			
Surrogate: Fluoranthene-d10	0.0259		"	0.0333		77.6		40-150			

LCS (BFI0204-BS1)

Prepared & Analyzed: 09/09/22

Acenaphthene	0.0362	0.00500	mg/kg	0.0333		109		31-137			
Anthracene	0.0369	0.00500	"	0.0333		111		30-120			
Benzo (a) anthracene	0.0302	0.00500	"	0.0333		90.6		30-120			
Benzo (a) pyrene	0.0333	0.00500	"	0.0333		99.9		30-120			
Benzo (b) fluoranthene	0.0375	0.00500	"	0.0333		113		30-120			
Benzo (k) fluoranthene	0.0390	0.00500	"	0.0333		117		30-120			
Chrysene	0.0337	0.00500	"	0.0333		101		30-120			
Dibenz (a,h) anthracene	0.0321	0.00500	"	0.0333		96.4		30-120			
Fluoranthene	0.0378	0.00500	"	0.0333		113		30-120			
Fluorene	0.0351	0.00500	"	0.0333		105		30-120			
Indeno (1,2,3-cd) pyrene	0.0264	0.00500	"	0.0333		79.1		30-120			
Pyrene	0.0327	0.00500	"	0.0333		98.1		35-142			
1-Methylnaphthalene	0.0378	0.00500	"	0.0333		113		35-142			
2-Methylnaphthalene	0.0353	0.00500	"	0.0333		106		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0382		"	0.0333		115		40-150			
Surrogate: Fluoranthene-d10	0.0367		"	0.0333		110		40-150			

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Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BFI0204 - EPA 5030 Soil MS

Matrix Spike (BFI0204-MS1)

Source: 2209099-01

Prepared & Analyzed: 09/09/22

Acenaphthene	0.0229	0.00500	mg/kg	0.0333	ND	68.7	31-137		
Anthracene	0.0245	0.00500	"	0.0333	ND	73.6	30-120		
Benzo (a) anthracene	0.0212	0.00500	"	0.0333	ND	63.7	30-120		
Benzo (a) pyrene	0.0236	0.00500	"	0.0333	ND	70.8	30-120		
Benzo (b) fluoranthene	0.0261	0.00500	"	0.0333	ND	78.4	30-120		
Benzo (k) fluoranthene	0.0297	0.00500	"	0.0333	ND	89.0	30-120		
Chrysene	0.0226	0.00500	"	0.0333	ND	67.8	30-120		
Dibenz (a,h) anthracene	0.0213	0.00500	"	0.0333	ND	63.8	30-120		
Fluoranthene	0.0287	0.00500	"	0.0333	ND	86.0	30-120		
Fluorene	0.0262	0.00500	"	0.0333	ND	78.6	30-120		
Indeno (1,2,3-cd) pyrene	0.0182	0.00500	"	0.0333	ND	54.7	30-120		
Pyrene	0.0244	0.00500	"	0.0333	ND	73.2	35-142		
1-Methylnaphthalene	0.0231	0.00500	"	0.0333	ND	69.2	15-130		
2-Methylnaphthalene	0.0213	0.00500	"	0.0333	ND	64.0	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0230		"	0.0333		69.0	40-150		
Surrogate: Fluoranthene-d10	0.0265		"	0.0333		79.5	40-150		

Matrix Spike Dup (BFI0204-MSD1)

Source: 2209099-01

Prepared & Analyzed: 09/09/22

Acenaphthene	0.0242	0.00500	mg/kg	0.0333	ND	72.5	31-137	5.49	30
Anthracene	0.0247	0.00500	"	0.0333	ND	74.1	30-120	0.596	30
Benzo (a) anthracene	0.0217	0.00500	"	0.0333	ND	65.2	30-120	2.39	30
Benzo (a) pyrene	0.0244	0.00500	"	0.0333	ND	73.2	30-120	3.35	30
Benzo (b) fluoranthene	0.0266	0.00500	"	0.0333	ND	79.8	30-120	1.70	30
Benzo (k) fluoranthene	0.0298	0.00500	"	0.0333	ND	89.4	30-120	0.490	30
Chrysene	0.0229	0.00500	"	0.0333	ND	68.7	30-120	1.35	30
Dibenz (a,h) anthracene	0.0227	0.00500	"	0.0333	ND	68.0	30-120	6.37	30
Fluoranthene	0.0305	0.00500	"	0.0333	ND	91.4	30-120	6.16	30
Fluorene	0.0261	0.00500	"	0.0333	ND	78.2	30-120	0.537	30
Indeno (1,2,3-cd) pyrene	0.0191	0.00500	"	0.0333	ND	57.3	30-120	4.57	30
Pyrene	0.0248	0.00500	"	0.0333	ND	74.5	35-142	1.67	30
1-Methylnaphthalene	0.0234	0.00500	"	0.0333	ND	70.1	15-130	1.31	50
2-Methylnaphthalene	0.0215	0.00500	"	0.0333	ND	64.6	15-130	0.933	50
Surrogate: 2-Methylnaphthalene-d10	0.0258		"	0.0333		77.3	40-150		
Surrogate: Fluoranthene-d10	0.0282		"	0.0333		84.5	40-150		

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PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

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 BFI0208 - EPA 3050B

Blank (BFI0208-BLK1)

Prepared: 09/09/22 Analyzed: 09/10/22

Boron ND 0.0100 mg/L

LCS (BFI0208-BS1)

Prepared: 09/09/22 Analyzed: 09/10/22

Boron 5.03 0.0100 mg/L 5.00 101 80-120

Duplicate (BFI0208-DUP1)

Source: 2209047-03

Prepared: 09/09/22 Analyzed: 09/10/22

Boron 0.106 0.0100 mg/L 0.111 4.50 20

Matrix Spike (BFI0208-MS1)

Source: 2209047-03

Prepared: 09/09/22 Analyzed: 09/10/22

Boron 5.09 0.0100 mg/L 5.00 0.111 99.6 75-125

Matrix Spike Dup (BFI0208-MSD1)

Source: 2209047-03

Prepared: 09/09/22 Analyzed: 09/10/22

Boron 5.14 0.0100 mg/L 5.00 0.111 101 75-125 0.995 25

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PO Box 1289
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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

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 BFI0259 - EPA 3050B

Blank (BFI0259-BLK1)

Prepared & Analyzed: 09/12/22

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 (BFI0259-BS1)

Prepared & Analyzed: 09/12/22

Arsenic	46.6	0.200	mg/kg wet	40.0	116	80-120
Barium	44.2	0.400	"	40.0	111	80-120
Cadmium	2.25	0.200	"	2.00	112	80-120
Copper	43.8	0.400	"	40.0	109	80-120
Lead	21.4	0.200	"	20.0	107	80-120
Nickel	43.7	0.400	"	40.0	109	80-120
Selenium	4.71	0.260	"	4.00	118	80-120
Silver	2.20	0.0200	"	2.00	110	80-120
Zinc	47.4	0.400	"	40.0	119	80-120

Duplicate (BFI0259-DUP1)

Source: 2209079-01

Prepared & Analyzed: 09/12/22

Arsenic	ND	0.231	mg/kg dry	ND		20	
Barium	2.83	0.461	"	2.67	6.04	20	
Cadmium	0.0144	0.231	"	0.0138	4.67	20	
Copper	1.16	0.461	"	1.13	3.05	20	
Lead	1.30	0.231	"	1.25	4.38	20	
Nickel	0.683	0.461	"	0.678	0.819	20	
Selenium	0.220	0.300	"	0.283	24.7	20	QR-01
Silver	0.00432	0.0231	"	0.00309	33.1	20	QR-01
Zinc	6.65	0.461	"	6.47	2.77	20	

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PO Box 1289
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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

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 BFI0259 - EPA 3050B

Matrix Spike (BFI0259-MS1)			Source: 2209079-01		Prepared & Analyzed: 09/12/22					
Arsenic	51.7	0.231	mg/kg dry	46.1	ND	112	75-125			
Barium	53.3	0.461	"	46.1	2.67	110	75-125			
Cadmium	2.57	0.231	"	2.31	0.0138	111	75-125			
Copper	49.4	0.461	"	46.1	1.13	105	75-125			
Lead	25.8	0.231	"	23.1	1.25	107	75-125			
Nickel	49.4	0.461	"	46.1	0.678	106	75-125			
Selenium	5.51	0.300	"	4.61	0.283	113	75-125			
Silver	2.50	0.0231	"	2.31	0.00309	108	75-125			
Zinc	63.8	0.461	"	46.1	6.47	124	75-125			

Matrix Spike Dup (BFI0259-MSD1)			Source: 2209079-01		Prepared & Analyzed: 09/12/22					
Arsenic	52.2	0.231	mg/kg dry	46.1	ND	113	75-125	0.900	25	
Barium	53.0	0.461	"	46.1	2.67	109	75-125	0.584	25	
Cadmium	2.56	0.231	"	2.31	0.0138	110	75-125	0.710	25	
Copper	49.8	0.461	"	46.1	1.13	106	75-125	0.894	25	
Lead	25.7	0.231	"	23.1	1.25	106	75-125	0.684	25	
Nickel	49.9	0.461	"	46.1	0.678	107	75-125	1.02	25	
Selenium	5.70	0.300	"	4.61	0.283	118	75-125	3.37	25	
Silver	2.49	0.0231	"	2.31	0.00309	108	75-125	0.325	25	
Zinc	64.0	0.461	"	46.1	6.47	125	75-125	0.335	25	

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henehan

Reported:
09/13/22 12:33

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 BFI0212 - 3060A Mod

Blank (BFI0212-BLK1)

Prepared: 09/09/22 Analyzed: 09/10/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFI0212-BS1)

Prepared: 09/09/22 Analyzed: 09/10/22

Chromium, Hexavalent 25.6 0.30 mg/kg wet 25.0 102 80-120

Duplicate (BFI0212-DUP1)

Source: 2209038-01

Prepared: 09/09/22 Analyzed: 09/10/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFI0212-MS1)

Source: 2209038-01

Prepared: 09/09/22 Analyzed: 09/10/22

Chromium, Hexavalent 29.0 0.30 mg/kg dry 30.0 ND 96.8 75-125

Matrix Spike Dup (BFI0212-MSD1)

Source: 2209038-01

Prepared: 09/09/22 Analyzed: 09/10/22

Chromium, Hexavalent 29.2 0.30 mg/kg dry 30.0 ND 97.4 75-125 0.618 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

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

Summit Scientific

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

Batch BFI0232 - General Preparation

Blank (BFI0232-BLK1)

Prepared: 09/09/22 Analyzed: 09/11/22

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

LCS (BFI0232-BS1)

Prepared: 09/09/22 Analyzed: 09/11/22

Calcium	5.40	0.0500	mg/L wet	5.00	108	70-130
Magnesium	5.60	0.0500	"	5.00	112	70-130
Sodium	5.56	0.0500	"	5.00	111	70-130

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

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

Summit Scientific

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

Batch BFI0233 - General Preparation

Duplicate (BFI0233-DUP1)

Source: 2209109-01

Prepared: 09/09/22 Analyzed: 09/10/22

% Solids	83.2	%	84.8	1.85	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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

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 BFI0245 - General Preparation

Blank (BFI0245-BLK1)

Prepared & Analyzed: 09/12/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFI0245-BS1)

Prepared & Analyzed: 09/12/22

Specific Conductance (EC) 0.146 0.0100 mmhos/cm 0.150 97.2 95-105

Duplicate (BFI0245-DUP1)

Source: 2209035-01

Prepared & Analyzed: 09/12/22

Specific Conductance (EC) 0.406 0.0100 mmhos/cm 0.420 3.44 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

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

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

Batch BFI0246 - General Preparation

LCS (BFI0246-BS1)

Prepared & Analyzed: 09/12/22

pH	9.26	pH Units	9.18	101	95-105
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Duplicate (BFI0246-DUP1)

Source: 2209035-01

Prepared & Analyzed: 09/12/22

pH	6.93	pH Units	6.82	1.60	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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/13/22 12:33

Notes and Definitions

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

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 15, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - UPRC 27-9F
Work Order #2209186

Enclosed are the results of analyses for samples received by Summit Scientific on 09/09/22 15:00. 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	2209186-01	Water	09/09/22 00:00	09/09/22 15:00
S02@5.0'	2209186-02	Soil	09/09/22 00:00	09/09/22 15:00
E02@5.0'	2209186-03	Soil	09/09/22 00:00	09/09/22 15:00

Summit Scientific

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

2209186

Summit Scientific

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 ethanb@fremontenv.com

City/State/Zip:

Jeffg@fremontenv.com

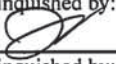
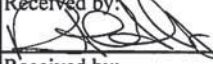


Phone:

Project Name: UPRC 27-9F

Sampler Name: JG

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBS (915)	GRG, DRG, DRG	PAHs (915)	EC, PH, SAR Ben	Metals (915)		
1	GW01	09/09/22		3			X		X					X	X	X	X	X		
2	S02@5.0'	↓		↓			↓		X	X				X	X	X	X	X		
3	E02@5.0'	↓		↓			↓		X	X				X	X	X	X	X		
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: 	Date/Time: 09/09/22 1500	Received by: 	Date/Time: 09/09/22 1300	Turn Around Time (Check)	Notes: Bill to Noble
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/> 72 hours —	
				24 hours — Standard —	
Temperature Upon Receipt: 8.4	Corrected Temperature: 	HNO ₃ lot #	Sample Integrity:	Samples Intact: Yes No	
IR gun correction: 	IR gun #: 1				

S₂

Sample Receipt Checklist

S2 Work Order# 2309186Client: FremontClient Project ID: UPRC 27-9F

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

Airbill #: _____

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

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☒

Other

☐

Temp (°C)

8.4

Thermometer #

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 ice
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	same day
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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input 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 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 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 type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Custodian Printed Name

Date/Time

9/19/22 17:00



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henehan

Reported:
09/15/22 12:31

GW01
2209186-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BF10190	09/09/22	09/11/22	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		114 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	21-167		"	"	"	"	

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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

S02@5.0'
2209186-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFI0238	09/10/22	09/11/22	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: **09/09/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		120 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.0 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFI0239	09/10/22	09/11/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		103 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

S02@5.0'
2209186-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10242	09/12/22	09/13/22	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: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		71.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		53.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.219	0.0100	mg/L	1	BF10287	09/13/22	09/14/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

S02@5.0'
2209186-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.95	0.239	mg/kg dry	1	BF10260	09/12/22	09/13/22	EPA 6020B
Barium	132	0.479	"	"	"	"	"	"
Cadmium	ND	0.239	"	"	"	"	"	"
Copper	11.4	0.479	"	"	"	"	"	"
Lead	8.70	0.239	"	"	"	"	"	"
Nickel	11.0	0.479	"	"	"	"	"	"
Selenium	1.19	0.311	"	"	"	"	"	"
Silver	0.0398	0.0239	"	"	"	"	"	"
Zinc	50.0	0.479	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10317	09/13/22	09/14/22	EPA 7196A	

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

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	66.2	0.0598	mg/L dry	1	BF10272	09/12/22	09/14/22	EPA 6020B	
Magnesium	13.6	0.0598	"	"	"	"	"	"	
Sodium	33.5	0.0598	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.980	0.00100	units	1	BF10356	09/14/22	09/14/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

S02@5.0'
2209186-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.5	%	1	BFI0270	09/12/22	09/12/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.576	0.0100	mmhos/cm	1	BFI0303	09/13/22	09/14/22	EPA 120.1	

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

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.16		pH Units	1	BFI0304	09/13/22	09/14/22	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

E02@5.0'
2209186-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFI0238	09/10/22	09/11/22	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: **09/09/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		119 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		107 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFI0239	09/10/22	09/11/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		99.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

E02@5.0'
2209186-03 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BF10242	09/12/22	09/13/22	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: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		76.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		71.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.243	0.0100	mg/L	1	BF10287	09/13/22	09/14/22	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

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E02@5.0'
2209186-03 (Soil)

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Total Metals by EPA 6020B

Arsenic	2.96	0.227	mg/kg dry	1	BF10260	09/12/22	09/13/22	EPA 6020B
Barium	103	0.453	"	"	"	"	"	"
Cadmium	0.271	0.227	"	"	"	"	"	"
Copper	12.0	0.453	"	"	"	"	"	"
Lead	10.5	0.227	"	"	"	"	"	"
Nickel	9.64	0.453	"	"	"	"	"	"
Selenium	1.16	0.295	"	"	"	"	"	"
Silver	0.0699	0.0227	"	"	"	"	"	"
Zinc	52.3	0.453	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BF10317	09/13/22	09/14/22	EPA 7196A	

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

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	88.3	0.0567	mg/L dry	1	BF10272	09/12/22	09/14/22	EPA 6020B	
Magnesium	30.4	0.0567	"	"	"	"	"	"	
Sodium	51.8	0.0567	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.21	0.00100	units	1	BF10356	09/14/22	09/14/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

E02@5.0'
2209186-03 (Soil)

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Physical Parameters by APHA/ASTM/EPA Methods

% Solids	88.2	%	1	BFI0270	09/12/22	09/12/22	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.994	0.0100	mmhos/cm	1	BFI0303	09/13/22	09/14/22	EPA 120.1	

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

Date Sampled: **09/09/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.64		pH Units	1	BFI0304	09/13/22	09/14/22	EPA 9045D	

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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BFI0190 - EPA 5030 Water MS

Blank (BFI0190-BLK1)

Prepared: 09/09/22 Analyzed: 09/11/22

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.5		"	13.3		101	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	12.1		"	13.3		90.8	21-167			

LCS (BFI0190-BS1)

Prepared: 09/09/22 Analyzed: 09/11/22

Benzene	45.0	1.0	ug/l	41.7		108	51-132			
Toluene	40.5	1.0	"	41.7		97.2	51-138			
Ethylbenzene	46.0	1.0	"	41.7		110	58-146			
m,p-Xylene	92.5	2.0	"	83.3		111	57-144			
o-Xylene	45.0	1.0	"	41.7		108	53-146			
Naphthalene	52.7	1.0	"	41.7		127	70-130			
1,2,4-Trimethylbenzene	47.5	1.0	"	41.7		114	70-130			
1,3,5-Trimethylbenzene	47.1	1.0	"	41.7		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	16.0		"	13.3		120	23-173			
Surrogate: Toluene-d8	13.3		"	13.3		99.7	20-170			
Surrogate: 4-Bromofluorobenzene	12.5		"	13.3		93.7	21-167			

Matrix Spike (BFI0190-MS1)

Source: 2209144-01

Prepared: 09/09/22 Analyzed: 09/11/22

Benzene	45.4	1.0	ug/l	41.7	ND	109	34-141			
Toluene	40.1	1.0	"	41.7	ND	96.3	27-151			
Ethylbenzene	47.9	1.0	"	41.7	ND	115	29-160			
m,p-Xylene	97.3	2.0	"	83.3	ND	117	20-166			
o-Xylene	46.7	1.0	"	41.7	ND	112	33-159			
Naphthalene	48.7	1.0	"	41.7	ND	117	70-130			
1,2,4-Trimethylbenzene	50.2	1.0	"	41.7	ND	121	70-130			
1,3,5-Trimethylbenzene	49.2	1.0	"	41.7	ND	118	70-130			
Surrogate: 1,2-Dichloroethane-d4	16.6		"	13.3		124	23-173			
Surrogate: Toluene-d8	13.0		"	13.3		97.4	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.9	21-167			

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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BFI0190 - EPA 5030 Water MS

Matrix Spike Dup (BFI0190-MSD1)

Source: 2209144-01

Prepared: 09/09/22 Analyzed: 09/11/22

Benzene	41.4	1.0	ug/l	41.7	ND	99.5	34-141	9.21	30	
Toluene	40.5	1.0	"	41.7	ND	97.3	27-151	0.967	30	
Ethylbenzene	47.7	1.0	"	41.7	ND	114	29-160	0.523	30	
m,p-Xylene	97.4	2.0	"	83.3	ND	117	20-166	0.0616	30	
o-Xylene	46.5	1.0	"	41.7	ND	112	33-159	0.429	30	
Naphthalene	40.9	1.0	"	41.7	ND	98.1	70-130	17.6	30	
1,2,4-Trimethylbenzene	50.7	1.0	"	41.7	ND	122	70-130	0.991	30	
1,3,5-Trimethylbenzene	49.5	1.0	"	41.7	ND	119	70-130	0.466	30	
Surrogate: 1,2-Dichloroethane-d4	14.1		"	13.3		106	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		99.2	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.7	21-167			

Batch BFI0238 - EPA 5030 Soil MS

Blank (BFI0238-BLK1)

Prepared & Analyzed: 09/10/22

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0443		"	0.0400		111	50-150			
Surrogate: Toluene-d8	0.0416		"	0.0400		104	50-150			
Surrogate: 4-Bromofluorobenzene	0.0372		"	0.0400		93.1	50-150			

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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

Volatile Organic Compounds by EPA Method 8260B - Quality Control

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

Batch BFI0238 - EPA 5030 Soil MS

LCS (BFI0238-BS1)

Prepared & Analyzed: 09/10/22

Benzene	0.0528	0.0020	mg/kg	0.0500		106	70-130			
Toluene	0.0557	0.0050	"	0.0500		111	70-130			
Ethylbenzene	0.0618	0.0050	"	0.0500		124	70-130			
m,p-Xylene	0.122	0.010	"	0.100		122	70-130			
o-Xylene	0.0560	0.0050	"	0.0500		112	70-130			
1,2,4-Trimethylbenzene	0.0550	0.0050	"	0.0500		110	70-130			
1,3,5-Trimethylbenzene	0.0551	0.0050	"	0.0500		110	70-130			
Naphthalene	0.0570	0.0038	"	0.0500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0376		"	0.0400		94.1	50-150			
Surrogate: Toluene-d8	0.0424		"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene	0.0379		"	0.0400		94.8	50-150			

Matrix Spike (BFI0238-MS1)

Source: 2209184-01

Prepared & Analyzed: 09/10/22

Benzene	0.0475	0.0020	mg/kg	0.0500	ND	95.0	70-130			
Toluene	0.0533	0.0050	"	0.0500	ND	107	70-130			
Ethylbenzene	0.0619	0.0050	"	0.0500	ND	124	70-130			
m,p-Xylene	0.122	0.010	"	0.100	0.0117	110	70-130			
o-Xylene	0.0554	0.0050	"	0.0500	0.00480	101	70-130			
1,2,4-Trimethylbenzene	0.0546	0.0050	"	0.0500	0.00921	90.8	70-130			
1,3,5-Trimethylbenzene	0.0551	0.0050	"	0.0500	0.00459	101	70-130			
Naphthalene	0.0595	0.0038	"	0.0500	0.00879	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0355		"	0.0400		88.7	50-150			
Surrogate: Toluene-d8	0.0427		"	0.0400		107	50-150			
Surrogate: 4-Bromofluorobenzene	0.0373		"	0.0400		93.2	50-150			

Matrix Spike Dup (BFI0238-MSD1)

Source: 2209184-01

Prepared: 09/10/22 Analyzed: 09/11/22

Benzene	0.0507	0.0020	mg/kg	0.0500	ND	101	70-130	6.54	30	
Toluene	0.0550	0.0050	"	0.0500	ND	110	70-130	3.10	30	
Ethylbenzene	0.0635	0.0050	"	0.0500	ND	127	70-130	2.58	30	
m,p-Xylene	0.124	0.010	"	0.100	0.0117	113	70-130	2.24	30	
o-Xylene	0.0575	0.0050	"	0.0500	0.00480	105	70-130	3.67	30	
1,2,4-Trimethylbenzene	0.0556	0.0050	"	0.0500	0.00921	92.9	70-130	1.85	30	
1,3,5-Trimethylbenzene	0.0554	0.0050	"	0.0500	0.00459	102	70-130	0.488	30	
Naphthalene	0.0614	0.0038	"	0.0500	0.00879	105	70-130	3.18	30	
Surrogate: 1,2-Dichloroethane-d4	0.0353		"	0.0400		88.3	50-150			
Surrogate: Toluene-d8	0.0423		"	0.0400		106	50-150			
Surrogate: 4-Bromofluorobenzene	0.0367		"	0.0400		91.7	50-150			

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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFI0239 - EPA 3550A

Blank (BFI0239-BLK1)

Prepared & Analyzed: 09/10/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BFI0239-BS1)

Prepared & Analyzed: 09/10/22

C10-C28 (DRO)	592	50	mg/kg	500	118	70-130
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Matrix Spike (BFI0239-MS1)

Source: 2209184-01

Prepared & Analyzed: 09/10/22

C10-C28 (DRO)	555	50	mg/kg	500	16.8	108	70-130
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Matrix Spike Dup (BFI0239-MSD1)

Source: 2209184-01

Prepared & Analyzed: 09/10/22

C10-C28 (DRO)	554	50	mg/kg	500	16.8	108	70-130	0.0892	20
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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BFI0242 - EPA 5030 Soil MS

Blank (BFI0242-BLK1)

Prepared & Analyzed: 09/12/22

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	"							
Surrogate: 2-Methylnaphthalene-d10	0.0377		"	0.0333		113	40-150			
Surrogate: Fluoranthene-d10	0.0287		"	0.0333		86.2	40-150			

LCS (BFI0242-BS1)

Prepared & Analyzed: 09/12/22

Acenaphthene	0.0316	0.00500	mg/kg	0.0333		94.9	31-137			
Anthracene	0.0320	0.00500	"	0.0333		96.0	30-120			
Benzo (a) anthracene	0.0253	0.00500	"	0.0333		76.0	30-120			
Benzo (a) pyrene	0.0163	0.00500	"	0.0333		48.8	30-120			
Benzo (b) fluoranthene	0.0243	0.00500	"	0.0333		73.0	30-120			
Benzo (k) fluoranthene	0.0306	0.00500	"	0.0333		91.7	30-120			
Chrysene	0.0317	0.00500	"	0.0333		95.2	30-120			
Dibenz (a,h) anthracene	0.0255	0.00500	"	0.0333		76.4	30-120			
Fluoranthene	0.0359	0.00500	"	0.0333		108	30-120			
Fluorene	0.0318	0.00500	"	0.0333		95.3	30-120			
Indeno (1,2,3-cd) pyrene	0.0285	0.00500	"	0.0333		85.5	30-120			
Pyrene	0.0281	0.00500	"	0.0333		84.3	35-142			
1-Methylnaphthalene	0.0302	0.00500	"	0.0333		90.7	35-142			
2-Methylnaphthalene	0.0295	0.00500	"	0.0333		88.5	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0306		"	0.0333		91.9	40-150			
Surrogate: Fluoranthene-d10	0.0351		"	0.0333		105	40-150			

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

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 BFI0242 - EPA 5030 Soil MS

Matrix Spike (BFI0242-MS1)

Source: 2209109-01

Prepared & Analyzed: 09/12/22

Acenaphthene	0.0225	0.00500	mg/kg	0.0333	ND	67.4	31-137		
Anthracene	0.0257	0.00500	"	0.0333	ND	77.0	30-120		
Benzo (a) anthracene	0.0209	0.00500	"	0.0333	0.00536	46.8	30-120		
Benzo (a) pyrene	0.0145	0.00500	"	0.0333	ND	43.4	30-120		
Benzo (b) fluoranthene	0.0202	0.00500	"	0.0333	ND	60.7	30-120		
Benzo (k) fluoranthene	0.0212	0.00500	"	0.0333	ND	63.5	30-120		
Chrysene	0.0200	0.00500	"	0.0333	ND	60.1	30-120		
Dibenz (a,h) anthracene	0.0202	0.00500	"	0.0333	ND	60.5	30-120		
Fluoranthene	0.0279	0.00500	"	0.0333	ND	83.6	30-120		
Fluorene	0.0215	0.00500	"	0.0333	ND	64.5	30-120		
Indeno (1,2,3-cd) pyrene	0.0160	0.00500	"	0.0333	ND	48.1	30-120		
Pyrene	0.0188	0.00500	"	0.0333	ND	56.5	35-142		
1-Methylnaphthalene	0.0210	0.00500	"	0.0333	ND	63.1	15-130		
2-Methylnaphthalene	0.0204	0.00500	"	0.0333	ND	61.2	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0210		"	0.0333		63.0	40-150		
Surrogate: Fluoranthene-d10	0.0251		"	0.0333		75.2	40-150		

Matrix Spike Dup (BFI0242-MSD1)

Source: 2209109-01

Prepared & Analyzed: 09/12/22

Acenaphthene	0.0228	0.00500	mg/kg	0.0333	ND	68.3	31-137	1.28	30	
Anthracene	0.0231	0.00500	"	0.0333	ND	69.4	30-120	10.4	30	
Benzo (a) anthracene	0.0194	0.00500	"	0.0333	0.00536	42.1	30-120	7.64	30	
Benzo (a) pyrene	0.0213	0.00500	"	0.0333	ND	63.9	30-120	38.2	30	QR-02
Benzo (b) fluoranthene	0.0189	0.00500	"	0.0333	ND	56.8	30-120	6.63	30	
Benzo (k) fluoranthene	0.0204	0.00500	"	0.0333	ND	61.2	30-120	3.72	30	
Chrysene	0.0183	0.00500	"	0.0333	ND	54.9	30-120	9.07	30	
Dibenz (a,h) anthracene	0.0253	0.00500	"	0.0333	ND	76.0	30-120	22.7	30	
Fluoranthene	0.0260	0.00500	"	0.0333	ND	77.9	30-120	6.95	30	
Fluorene	0.0210	0.00500	"	0.0333	ND	63.0	30-120	2.24	30	
Indeno (1,2,3-cd) pyrene	0.0192	0.00500	"	0.0333	ND	57.5	30-120	17.8	30	
Pyrene	0.0148	0.00500	"	0.0333	ND	44.5	35-142	23.8	30	
1-Methylnaphthalene	0.0184	0.00500	"	0.0333	ND	55.2	15-130	13.4	50	
2-Methylnaphthalene	0.0182	0.00500	"	0.0333	ND	54.7	15-130	11.3	50	
Surrogate: 2-Methylnaphthalene-d10	0.0186		"	0.0333		55.7	40-150			
Surrogate: Fluoranthene-d10	0.0241		"	0.0333		72.2	40-150			

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

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 BFI0287 - EPA 3050B

Blank (BFI0287-BLK1)

Prepared: 09/13/22 Analyzed: 09/14/22

Boron ND 0.0100 mg/L

LCS (BFI0287-BS1)

Prepared: 09/13/22 Analyzed: 09/14/22

Boron 5.64 0.0100 mg/L 5.00 113 80-120

Duplicate (BFI0287-DUP1)

Source: 2209153-01

Prepared: 09/13/22 Analyzed: 09/14/22

Boron 0.116 0.0100 mg/L 0.118 1.32 20

Matrix Spike (BFI0287-MS1)

Source: 2209153-01

Prepared: 09/13/22 Analyzed: 09/14/22

Boron 5.68 0.0100 mg/L 5.00 0.118 111 75-125

Matrix Spike Dup (BFI0287-MSD1)

Source: 2209153-01

Prepared: 09/13/22 Analyzed: 09/14/22

Boron 5.70 0.0100 mg/L 5.00 0.118 112 75-125 0.278 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

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 BFI0260 - EPA 3050B

Blank (BFI0260-BLK1)

Prepared & Analyzed: 09/12/22

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 (BFI0260-BS1)

Prepared & Analyzed: 09/12/22

Arsenic	47.6	0.200	mg/kg wet	40.0	119	80-120
Barium	42.8	0.400	"	40.0	107	80-120
Cadmium	2.04	0.200	"	2.00	102	80-120
Copper	46.0	0.400	"	40.0	115	80-120
Lead	19.1	0.200	"	20.0	95.7	80-120
Nickel	46.1	0.400	"	40.0	115	80-120
Selenium	4.60	0.260	"	4.00	115	80-120
Silver	2.06	0.0200	"	2.00	103	80-120
Zinc	44.3	0.400	"	40.0	111	80-120

Duplicate (BFI0260-DUP1)

Source: 2208347-02

Prepared & Analyzed: 09/12/22

Arsenic	1.15	0.207	mg/kg dry	1.15	0.0310	20
Barium	44.1	0.415	"	43.4	1.63	20
Cadmium	0.0401	0.207	"	0.0377	5.98	20
Copper	3.36	0.415	"	3.40	1.28	20
Lead	3.43	0.207	"	3.28	4.62	20
Nickel	3.13	0.415	"	3.15	0.613	20
Selenium	0.490	0.270	"	0.449	8.82	20
Silver	0.0112	0.0207	"	0.0115	2.22	20
Zinc	13.7	0.415	"	13.9	1.13	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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

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 BFI0260 - EPA 3050B

Matrix Spike (BFI0260-MS1)

Source: 2208347-02

Prepared & Analyzed: 09/12/22

Arsenic	48.5	0.207	mg/kg dry	41.5	1.15	114	75-125
Barium	89.5	0.415	"	41.5	43.4	111	75-125
Cadmium	2.24	0.207	"	2.07	0.0377	106	75-125
Copper	54.3	0.415	"	41.5	3.40	123	75-125
Lead	25.0	0.207	"	20.7	3.28	105	75-125
Nickel	48.4	0.415	"	41.5	3.15	109	75-125
Selenium	4.96	0.270	"	4.15	0.449	109	75-125
Silver	2.16	0.0207	"	2.07	0.0115	104	75-125
Zinc	65.7	0.415	"	41.5	13.9	125	75-125

Matrix Spike Dup (BFI0260-MSD1)

Source: 2208347-02

Prepared & Analyzed: 09/12/22

Arsenic	48.3	0.207	mg/kg dry	41.5	1.15	114	75-125	0.341	25
Barium	90.2	0.415	"	41.5	43.4	113	75-125	0.785	25
Cadmium	2.25	0.207	"	2.07	0.0377	107	75-125	0.518	25
Copper	48.7	0.415	"	41.5	3.40	109	75-125	11.0	25
Lead	25.2	0.207	"	20.7	3.28	106	75-125	0.623	25
Nickel	48.2	0.415	"	41.5	3.15	109	75-125	0.474	25
Selenium	5.05	0.270	"	4.15	0.449	111	75-125	1.69	25
Silver	2.17	0.0207	"	2.07	0.0115	104	75-125	0.477	25
Zinc	61.7	0.415	"	41.5	13.9	115	75-125	6.32	25

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

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 BFI0317 - 3060A Mod

Blank (BFI0317-BLK1)

Prepared: 09/13/22 Analyzed: 09/14/22

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BFI0317-BS1)

Prepared: 09/13/22 Analyzed: 09/14/22

Chromium, Hexavalent 23.5 0.30 mg/kg wet 25.0 94.0 80-120

Duplicate (BFI0317-DUP1)

Source: 2208475-01

Prepared: 09/13/22 Analyzed: 09/14/22

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BFI0317-MS1)

Source: 2208475-01

Prepared: 09/13/22 Analyzed: 09/14/22

Chromium, Hexavalent 27.4 0.30 mg/kg dry 30.7 ND 89.0 75-125

Matrix Spike Dup (BFI0317-MSD1)

Source: 2208475-01

Prepared: 09/13/22 Analyzed: 09/14/22

Chromium, Hexavalent 28.5 0.30 mg/kg dry 30.7 ND 92.8 75-125 4.18 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

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

Summit Scientific

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

Batch BFI0272 - General Preparation

Blank (BFI0272-BLK1)

Prepared: 09/12/22 Analyzed: 09/14/22

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

LCS (BFI0272-BS1)

Prepared: 09/12/22 Analyzed: 09/14/22

Calcium	6.41	0.0500	mg/L wet	5.00	128	70-130
Magnesium	6.46	0.0500	"	5.00	129	70-130
Sodium	6.19	0.0500	"	5.00	124	70-130

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

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

Summit Scientific

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

Batch BFI0270 - General Preparation

Duplicate (BFI0270-DUP1)

Source: 2209180-01

Prepared & Analyzed: 09/12/22

% Solids	77.8	%	78.3	0.620	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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

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 BFI0303 - General Preparation

Blank (BFI0303-BLK1)

Prepared: 09/13/22 Analyzed: 09/14/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFI0303-BS1)

Prepared: 09/13/22 Analyzed: 09/14/22

Specific Conductance (EC) 0.149 0.0100 mmhos/cm 0.150 99.1 95-105

Duplicate (BFI0303-DUP1)

Source: 2209099-01

Prepared: 09/13/22 Analyzed: 09/14/22

Specific Conductance (EC) 0.283 0.0100 mmhos/cm 0.289 2.10 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

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

Summit Scientific

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

Batch BFI0304 - General Preparation

LCS (BFI0304-BS1)

Prepared: 09/13/22 Analyzed: 09/14/22

pH	9.08	pH Units	9.18	98.9	95-105
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Duplicate (BFI0304-DUP1)

Source: 2209099-01

Prepared: 09/13/22 Analyzed: 09/14/22

pH	6.86	pH Units	6.76	1.47	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/15/22 12:31

Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 12, 2023

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - UPRC 27-9F

Work Order #2301132

Enclosed are the results of analyses for samples received by Summit Scientific on 01/09/23 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 "Scott Sheely".

Scott Sheely For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W03@5.0'	2301132-01	Soil	01/09/23 00:00	01/09/23 16:30
N03@5.0'	2301132-02	Soil	01/09/23 00:00	01/09/23 16:30

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.

2301132

Summit Scientific

S₂

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

Page 1 of 1

Client: Fremont EnvProject Manager: Paul Henehan

Address:

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

City/State/Zip:

Ethanb@fremontenv.com

Phone:

Project Name: UPRC #27-9FSampler Name: J6

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested							Special Instructions		
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBS (915)	GR0,OR0,DBP	PAHS (915)	EC,PH,SAR Boron	Metals (915)			
1	W03@5.0'	01/09/23		2			X			X				X	X	X	X	X	X		
2	N03@5.0'	01/09/23		2			X			X				X	X	X	X	X	X		
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>01/09/23</u>	Received by: <u>SZ</u>	Date/Time: <u>01/9/23</u>	Turn Around Time (Check)	Notes:
Relinquished by: <u>SZ</u>	Date/Time: <u>01/9/23</u> <u>1630</u>	Received by: <u>[Signature]</u>	Date/Time: <u>01/9/23</u> <u>1630</u>	Same Day <u>X</u> 24 hours <u>—</u> 48 hours <u>—</u>	Bill to Noble
Temperature Upon Receipt: <u>9.1</u>	Corrected Temperature <u>[Signature]</u>	HNO ₃ lot # <u>—</u>	Sample Integrity:	Samples Intact: <u>Yes</u> No	
IR gun correction: <u>—</u>	IR gun #: <u>1</u>				

S₂

Sample Receipt Checklist

S2 Work Order# 2301132Client: Fremont Client Project ID: UPRC #27-9FShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

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

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

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	same day
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 type="checkbox"/>	<input checked="" 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

1.9.23
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

W03@5.0'
2301132-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGA0168	01/09/23	01/09/23	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: **01/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0433	108 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0402	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0430	108 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGA0169	01/09/23	01/09/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	14.9	119 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

W03@5.0'
2301132-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGA0172	01/10/23	01/11/23	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: **01/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0180	54.0 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0206	61.8 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.214	0.0100	mg/L	1	BGA0171	01/09/23	01/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/09/23 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

W03@5.0'
2301132-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.39	0.233	mg/kg dry	1	BGA0170	01/09/23	01/11/23	EPA 6020B	
Barium	66.4	0.467	"	"	"	"	"	"	
Cadmium	0.176	0.233	"	"	"	"	"	"	
Copper	6.56	0.467	"	"	"	"	"	"	
Lead	7.10	0.233	"	"	"	"	"	"	
Nickel	6.32	0.467	"	"	"	"	"	"	
Selenium	0.501	0.303	"	"	"	"	"	"	
Silver	0.0374	0.0233	"	"	"	"	"	"	
Zinc	28.4	0.467	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 01/09/23 00:00

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGA0199	01/10/23	01/10/23	EPA 7196A	

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

Date Sampled: 01/09/23 00:00

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	68.4	0.0583	mg/L dry	1	BGA0156	01/09/23	01/11/23	EPA 6020B	
Magnesium	16.0	0.0583	"	"	"	"	"	"	
Sodium	83.5	0.0583	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 01/09/23 00:00

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.36	0.00100	units	1	BGA0281	01/12/23	01/12/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 01/09/23 00:00

Analyte	Result	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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

W03@5.0'
2301132-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.7	%	1	BGA0181	01/10/23	01/10/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.789	0.0100	mmhos/cm	1	BGA0190	01/10/23	01/10/23	EPA 120.1	

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

Date Sampled: **01/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.19		pH Units	1	BGA0189	01/10/23	01/10/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

N03@5.0'
2301132-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGA0168	01/09/23	01/09/23	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: **01/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0466	116 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0406	102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGA0169	01/09/23	01/09/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/09/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	16.5	132 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

N03@5.0'
2301132-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGA0172	01/10/23	01/11/23	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: **01/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0156	46.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0188	56.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/09/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.200	0.0100	mg/L	1	BGA0171	01/09/23	01/12/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/09/23 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

N03@5.0'
2301132-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.71	0.237	mg/kg dry	1	BGA0170	01/09/23	01/11/23	EPA 6020B	
Barium	143	0.474	"	"	"	"	"	"	
Cadmium	0.410	0.237	"	"	"	"	"	"	
Copper	12.0	0.474	"	"	"	"	"	"	
Lead	11.4	0.237	"	"	"	"	"	"	
Nickel	10.2	0.474	"	"	"	"	"	"	
Selenium	0.754	0.308	"	"	"	"	"	"	
Silver	0.0537	0.0237	"	"	"	"	"	"	
Zinc	52.9	0.474	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: 01/09/23 00:00

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGA0199	01/10/23	01/10/23	EPA 7196A	

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

Date Sampled: 01/09/23 00:00

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	68.7	0.0593	mg/L dry	1	BGA0156	01/09/23	01/11/23	EPA 6020B	
Magnesium	16.1	0.0593	"	"	"	"	"	"	
Sodium	124	0.0593	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: 01/09/23 00:00

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.50	0.00100	units	1	BGA0281	01/12/23	01/12/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 01/09/23 00:00

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

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

N03@5.0'
2301132-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	84.4	%	1	BGA0181	01/10/23	01/10/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.00	0.0100		mmhos/cm	1	BGA0190	01/10/23	01/10/23	EPA 120.1	

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

Date Sampled: **01/09/23 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	7.51			pH Units	1	BGA0189	01/10/23	01/10/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

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 BGA0168 - EPA 5030 Soil MS

Blank (BGA0168-BLK1)

Prepared: 01/09/23 Analyzed: 01/10/23

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	0.0487		"	0.0400		122	50-150			
Surrogate: Toluene-d8	0.0469		"	0.0400		117	50-150			
Surrogate: 4-Bromofluorobenzene	0.0498		"	0.0400		125	50-150			

LCS (BGA0168-BS1)

Prepared: 01/09/23 Analyzed: 01/10/23

Benzene	0.144	0.0020	mg/kg	0.150		95.8	70-130			
Toluene	0.173	0.0050	"	0.150		116	70-130			
Ethylbenzene	0.122	0.0050	"	0.150		81.5	70-130			
m,p-Xylene	0.231	0.010	"	0.300		77.0	70-130			
o-Xylene	0.115	0.0050	"	0.150		76.7	70-130			
1,2,4-Trimethylbenzene	0.131	0.0050	"	0.150		87.1	70-130			
1,3,5-Trimethylbenzene	0.130	0.0050	"	0.150		86.4	70-130			
Naphthalene	0.130	0.0038	"	0.150		86.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0515		"	0.0400		129	50-150			
Surrogate: Toluene-d8	0.0472		"	0.0400		118	50-150			
Surrogate: 4-Bromofluorobenzene	0.0473		"	0.0400		118	50-150			

Matrix Spike (BGA0168-MS1)

Source: 2301131-01

Prepared: 01/09/23 Analyzed: 01/10/23

Benzene	0.147	0.0020	mg/kg	0.150	ND	98.2	70-130			
Toluene	0.184	0.0050	"	0.150	ND	122	70-130			
Ethylbenzene	0.128	0.0050	"	0.150	ND	85.3	70-130			
m,p-Xylene	0.243	0.010	"	0.300	ND	81.0	70-130			
o-Xylene	0.119	0.0050	"	0.150	ND	79.5	70-130			
1,2,4-Trimethylbenzene	0.135	0.0050	"	0.150	ND	90.2	70-130			
1,3,5-Trimethylbenzene	0.136	0.0050	"	0.150	ND	90.6	70-130			
Naphthalene	0.135	0.0038	"	0.150	ND	90.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0460		"	0.0400		115	50-150			
Surrogate: Toluene-d8	0.0471		"	0.0400		118	50-150			
Surrogate: 4-Bromofluorobenzene	0.0492		"	0.0400		123	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

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 BGA0168 - EPA 5030 Soil MS

Matrix Spike Dup (BGA0168-MSD1)	Source: 2301131-01			Prepared: 01/09/23 Analyzed: 01/10/23						
Benzene	0.149	0.0020	mg/kg	0.150	ND	99.4	70-130	1.22	30	
Toluene	0.189	0.0050	"	0.150	ND	126	70-130	2.90	30	
Ethylbenzene	0.131	0.0050	"	0.150	ND	87.2	70-130	2.18	30	
m,p-Xylene	0.250	0.010	"	0.300	ND	83.3	70-130	2.87	30	
o-Xylene	0.122	0.0050	"	0.150	ND	81.4	70-130	2.39	30	
1,2,4-Trimethylbenzene	0.142	0.0050	"	0.150	ND	94.6	70-130	4.80	30	
1,3,5-Trimethylbenzene	0.140	0.0050	"	0.150	ND	93.6	70-130	3.34	30	
Naphthalene	0.131	0.0038	"	0.150	ND	87.1	70-130	3.56	30	
Surrogate: 1,2-Dichloroethane-d4	0.0472		"	0.0400		118	50-150			
Surrogate: Toluene-d8	0.0478		"	0.0400		119	50-150			
Surrogate: 4-Bromofluorobenzene	0.0488		"	0.0400		122	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGA0169 - EPA 3550A

Blank (BGA0169-BLK1)

Prepared: 01/09/23 Analyzed: 01/10/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	16.0		"	12.5		128	30-150			

LCS (BGA0169-BS1)

Prepared: 01/09/23 Analyzed: 01/10/23

C10-C28 (DRO)	472	50	mg/kg	500		94.3	70-130			
Surrogate: o-Terphenyl	16.0		"	12.5		128	30-150			

Matrix Spike (BGA0169-MS1)

Source: 2301132-01

Prepared: 01/09/23 Analyzed: 01/10/23

C10-C28 (DRO)	463	50	mg/kg	500	17.9	89.0	70-130			
Surrogate: o-Terphenyl	15.5		"	12.5		124	30-150			

Matrix Spike Dup (BGA0169-MSD1)

Source: 2301132-01

Prepared: 01/09/23 Analyzed: 01/10/23

C10-C28 (DRO)	472	50	mg/kg	500	17.9	90.7	70-130	1.84	20	
Surrogate: o-Terphenyl	15.4		"	12.5		123	30-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGA0172 - EPA 5030 Soil MS

Blank (BGA0172-BLK1)

Prepared & Analyzed: 01/10/23

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	0.0236		"	0.0333		70.7		40-150			
Surrogate: Fluoranthene-d10	0.0306		"	0.0333		91.7		40-150			

LCS (BGA0172-BS1)

Prepared & Analyzed: 01/10/23

Acenaphthene	0.0305	0.00500	mg/kg	0.0333		91.5		31-137			
Anthracene	0.0305	0.00500	"	0.0333		91.6		30-120			
Benzo (a) anthracene	0.0291	0.00500	"	0.0333		87.3		30-120			
Benzo (a) pyrene	0.0293	0.00500	"	0.0333		87.9		30-120			
Benzo (b) fluoranthene	0.0293	0.00500	"	0.0333		87.8		30-120			
Benzo (k) fluoranthene	0.0300	0.00500	"	0.0333		90.1		30-120			
Chrysene	0.0308	0.00500	"	0.0333		92.4		30-120			
Dibenz (a,h) anthracene	0.0277	0.00500	"	0.0333		83.1		30-120			
Fluoranthene	0.0298	0.00500	"	0.0333		89.5		30-120			
Fluorene	0.0302	0.00500	"	0.0333		90.5		30-120			
Indeno (1,2,3-cd) pyrene	0.0306	0.00500	"	0.0333		91.8		30-120			
Pyrene	0.0308	0.00500	"	0.0333		92.3		35-142			
1-Methylnaphthalene	0.0277	0.00500	"	0.0333		83.0		35-142			
2-Methylnaphthalene	0.0251	0.00500	"	0.0333		75.4		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0228		"	0.0333		68.5		40-150			
Surrogate: Fluoranthene-d10	0.0305		"	0.0333		91.4		40-150			

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

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 BGA0172 - EPA 5030 Soil MS

Matrix Spike (BGA0172-MS1)

Source: 2301095-01

Prepared & Analyzed: 01/10/23

Acenaphthene	0.0224	0.00500	mg/kg	0.0333	ND	67.1	31-137				
Anthracene	0.0218	0.00500	"	0.0333	ND	65.3	30-120				
Benzo (a) anthracene	0.0222	0.00500	"	0.0333	ND	66.6	30-120				
Benzo (a) pyrene	0.0212	0.00500	"	0.0333	ND	63.5	30-120				
Benzo (b) fluoranthene	0.0218	0.00500	"	0.0333	ND	65.3	30-120				
Benzo (k) fluoranthene	0.0222	0.00500	"	0.0333	ND	66.6	30-120				
Chrysene	0.0223	0.00500	"	0.0333	ND	66.9	30-120				
Dibenz (a,h) anthracene	0.0189	0.00500	"	0.0333	ND	56.6	30-120				
Fluoranthene	0.0221	0.00500	"	0.0333	ND	66.4	30-120				
Fluorene	0.0216	0.00500	"	0.0333	ND	64.8	30-120				
Indeno (1,2,3-cd) pyrene	0.0232	0.00500	"	0.0333	ND	69.6	30-120				
Pyrene	0.0221	0.00500	"	0.0333	ND	66.4	35-142				
1-Methylnaphthalene	0.0219	0.00500	"	0.0333	ND	65.6	15-130				
2-Methylnaphthalene	0.0188	0.00500	"	0.0333	ND	56.5	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0200		"	0.0333		60.0	40-150				
Surrogate: Fluoranthene-d10	0.0231		"	0.0333		69.4	40-150				

Matrix Spike Dup (BGA0172-MSD1)

Source: 2301095-01

Prepared & Analyzed: 01/10/23

Acenaphthene	0.0234	0.00500	mg/kg	0.0333	ND	70.1	31-137	4.35	30		
Anthracene	0.0234	0.00500	"	0.0333	ND	70.1	30-120	7.12	30		
Benzo (a) anthracene	0.0241	0.00500	"	0.0333	ND	72.2	30-120	8.07	30		
Benzo (a) pyrene	0.0227	0.00500	"	0.0333	ND	68.2	30-120	7.20	30		
Benzo (b) fluoranthene	0.0231	0.00500	"	0.0333	ND	69.4	30-120	6.15	30		
Benzo (k) fluoranthene	0.0235	0.00500	"	0.0333	ND	70.6	30-120	5.93	30		
Chrysene	0.0241	0.00500	"	0.0333	ND	72.4	30-120	7.77	30		
Dibenz (a,h) anthracene	0.0201	0.00500	"	0.0333	ND	60.3	30-120	6.21	30		
Fluoranthene	0.0238	0.00500	"	0.0333	ND	71.4	30-120	7.28	30		
Fluorene	0.0239	0.00500	"	0.0333	ND	71.7	30-120	10.1	30		
Indeno (1,2,3-cd) pyrene	0.0240	0.00500	"	0.0333	ND	71.9	30-120	3.19	30		
Pyrene	0.0246	0.00500	"	0.0333	ND	73.8	35-142	10.5	30		
1-Methylnaphthalene	0.0247	0.00500	"	0.0333	ND	74.0	15-130	12.1	50		
2-Methylnaphthalene	0.0226	0.00500	"	0.0333	ND	67.7	15-130	18.0	50		
Surrogate: 2-Methylnaphthalene-d10	0.0207		"	0.0333		62.0	40-150				
Surrogate: Fluoranthene-d10	0.0247		"	0.0333		74.0	40-150				

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

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 BGA0171 - EPA 3050B

Blank (BGA0171-BLK1)

Prepared: 01/09/23 Analyzed: 01/12/23

Boron ND 0.0100 mg/L

LCS (BGA0171-BS1)

Prepared: 01/09/23 Analyzed: 01/12/23

Boron 6.01 0.0100 mg/L 5.00 120 80-120

Duplicate (BGA0171-DUP1)

Source: 2301125-01

Prepared: 01/09/23 Analyzed: 01/12/23

Boron 0.135 0.0100 mg/L 0.135 0.00533 20

Matrix Spike (BGA0171-MS1)

Source: 2301125-01

Prepared: 01/09/23 Analyzed: 01/12/23

Boron 5.85 0.0100 mg/L 5.00 0.135 114 75-125

Matrix Spike Dup (BGA0171-MSD1)

Source: 2301125-01

Prepared: 01/09/23 Analyzed: 01/12/23

Boron 5.96 0.0100 mg/L 5.00 0.135 116 75-125 1.89 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F
Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

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 BGA0170 - EPA 3050B

Blank (BGA0170-BLK1)

Prepared: 01/09/23 Analyzed: 01/11/23

Arsenic	ND	0.200	mg/kg wet
Barium	0.383	0.400	"
Cadmium	ND	0.200	"
Copper	0.158	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BGA0170-BS1)

Prepared: 01/09/23 Analyzed: 01/11/23

Arsenic	44.6	0.200	mg/kg wet	40.0	112	80-120
Barium	41.2	0.400	"	40.0	103	80-120
Cadmium	2.08	0.200	"	2.00	104	80-120
Copper	40.9	0.400	"	40.0	102	80-120
Lead	20.1	0.200	"	20.0	100	80-120
Nickel	40.6	0.400	"	40.0	101	80-120
Selenium	4.48	0.260	"	4.00	112	80-120
Silver	2.04	0.0200	"	2.00	102	80-120
Zinc	45.4	0.400	"	40.0	114	80-120

Duplicate (BGA0170-DUP1)

Source: 2301125-01

Prepared: 01/09/23 Analyzed: 01/11/23

Arsenic	1.40	0.213	mg/kg dry	1.39	0.351	20
Barium	43.0	0.425	"	43.8	1.87	20
Cadmium	0.103	0.213	"	0.105	1.85	20
Copper	5.23	0.425	"	5.21	0.240	20
Lead	5.22	0.213	"	5.25	0.604	20
Nickel	4.21	0.425	"	4.21	0.0241	20
Selenium	0.418	0.276	"	0.433	3.36	20
Silver	0.0207	0.0213	"	0.0221	6.50	20
Zinc	19.6	0.425	"	20.0	2.35	20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

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 BGA0170 - EPA 3050B

Matrix Spike (BGA0170-MS1)		Source: 2301125-01			Prepared: 01/09/23		Analyzed: 01/11/23				
Arsenic	49.9	0.213	mg/kg dry	42.5	1.39	114	75-125				
Barium	107	0.425	"	42.5	43.8	148	75-125				QM-05
Cadmium	2.58	0.213	"	2.13	0.105	116	75-125				
Copper	50.9	0.425	"	42.5	5.21	107	75-125				
Lead	28.3	0.213	"	21.3	5.25	108	75-125				
Nickel	50.6	0.425	"	42.5	4.21	109	75-125				
Selenium	4.72	0.276	"	4.25	0.433	101	75-125				
Silver	2.27	0.0213	"	2.13	0.0221	106	75-125				
Zinc	74.1	0.425	"	42.5	20.0	127	75-125				QM-05

Matrix Spike Dup (BGA0170-MSD1)		Source: 2301125-01			Prepared: 01/09/23		Analyzed: 01/11/23				
Arsenic	49.2	0.213	mg/kg dry	42.5	1.39	112	75-125	1.31	25		
Barium	99.9	0.425	"	42.5	43.8	132	75-125	6.54	25		QM-05
Cadmium	2.36	0.213	"	2.13	0.105	106	75-125	8.85	25		
Copper	50.1	0.425	"	42.5	5.21	106	75-125	1.51	25		
Lead	26.5	0.213	"	21.3	5.25	100	75-125	6.53	25		
Nickel	49.4	0.425	"	42.5	4.21	106	75-125	2.39	25		
Selenium	4.57	0.276	"	4.25	0.433	97.2	75-125	3.21	25		
Silver	2.20	0.0213	"	2.13	0.0221	103	75-125	3.10	25		
Zinc	72.9	0.425	"	42.5	20.0	124	75-125	1.59	25		

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

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 BGA0199 - 3060A Mod

Blank (BGA0199-BLK1)

Prepared & Analyzed: 01/10/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGA0199-BS1)

Prepared & Analyzed: 01/10/23

Chromium, Hexavalent 22.8 0.30 mg/kg wet 25.0 91.2 80-120

Duplicate (BGA0199-DUP1)

Source: 2212468-04

Prepared & Analyzed: 01/10/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGA0199-MS1)

Source: 2212468-04

Prepared & Analyzed: 01/10/23

Chromium, Hexavalent 23.0 0.30 mg/kg dry 26.1 ND 88.0 75-125

Matrix Spike Dup (BGA0199-MSD1)

Source: 2212468-04

Prepared & Analyzed: 01/10/23

Chromium, Hexavalent 23.0 0.30 mg/kg dry 26.1 ND 88.2 75-125 0.227 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

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

Summit Scientific

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

Batch BGA0156 - General Preparation

Blank (BGA0156-BLK1)

Prepared: 01/09/23 Analyzed: 01/11/23

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

LCS (BGA0156-BS1)

Prepared: 01/09/23 Analyzed: 01/11/23

Calcium	4.54	0.0500	mg/L wet	5.00	90.9	70-130
Magnesium	5.50	0.0500	"	5.00	110	70-130
Sodium	4.67	0.0500	"	5.00	93.5	70-130

Summit Scientific

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



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

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

Summit Scientific

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

Batch BGA0181 - General Preparation

Duplicate (BGA0181-DUP1)

Source: 2301132-01

Prepared & Analyzed: 01/10/23

% Solids	85.3	%	85.7	0.565	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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

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 BGA0190 - General Preparation

Blank (BGA0190-BLK1)

Prepared & Analyzed: 01/10/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGA0190-BS1)

Prepared & Analyzed: 01/10/23

Specific Conductance (EC) 0.146 0.0100 mmhos/cm 0.150 97.7 95-105

Duplicate (BGA0190-DUP1)

Source: 2301095-01

Prepared & Analyzed: 01/10/23

Specific Conductance (EC) 0.164 0.0100 mmhos/cm 0.166 1.34 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

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

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

Batch BGA0189 - General Preparation

LCS (BGA0189-BS1)

Prepared & Analyzed: 01/10/23

pH	9.09	pH Units	9.18	99.0	95-105
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Duplicate (BGA0189-DUP1)

Source: 2301095-01

Prepared & Analyzed: 01/10/23

pH	8.11	pH Units	8.34	2.80	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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:09

Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 12, 2023

Paul Henehan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - UPRC 27-9F

Work Order #2301151

Enclosed are the results of analyses for samples received by Summit Scientific on 01/10/23 16:04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott Sheely".

Scott Sheely For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W04@5.0'	2301151-01	Soil	01/10/23 00:00	01/10/23 16:04
S03@5.0'	2301151-02	Soil	01/10/23 00:00	01/10/23 16:04
GW02	2301151-03	Water	01/10/23 00:00	01/10/23 16:04

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 230115/

S₂

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

Page 1 of 1

Client: Fremont Env

Project Manager: Paul Henahan

Address:

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

City/State/Zip:

Ethanb@fremontenv.com

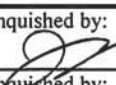
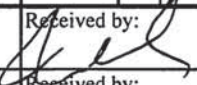
Phone:

Project Name: UPRC #27-9F

Sampler Name: JG

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested								Special Instructions
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX+N	TMBS (915)	GR0,PR0,OR0	PAHs (915)	ELSPH ₂ SAR Bren	Metals (915)		
1	W04@5.0'	01/10/23		1			X							X	X	X	X	X	X	
2	S03@5.0'			1			X							X	X	X	X	X	X	
3	GW02			1	X				X					X	X					
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: 	Date/Time: 01/10/23	Received by: 	Date/Time: 1-10-23	Turn Around Time (Check)	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input checked="" type="checkbox"/>	72 hours — Standard — Bill to Noble
				24 hours —	
				48 hours —	
Temperature Upon Receipt: 11.3	Corrected Temperature: _____	HNO ₃ lot # _____	Sample Integrity: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
IR gun correction: _____	IR gun #: _____		Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		

S₂

2301151

Sample Receipt Checklist

S2 Work Order# _____

Client: Franklin Expo Client Project ID: UPRC #27-9FShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: _____
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☒ Other ☐Temp (°C) 11.3Thermometer # ☐

	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"/>	<u>on ice</u>
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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>BTX</u>
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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>HCl</u>
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.
Logan S.
Custodian Printed Name

1-10-23
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

W04@5.0'
2301151-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BGA0202	01/10/23	01/10/23	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: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0527	132 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0370	92.5 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0418	104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BGA0204	01/10/23	01/10/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.7	85.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

W04@5.0'
2301151-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGA0213	01/11/23	01/12/23	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: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0279	83.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0220	66.0 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.697	0.0100	mg/L	1	BGA0205	01/10/23	01/11/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/10/23 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

W04@5.0'
2301151-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	2.08	0.238	mg/kg dry	1	BGA0232	01/11/23	01/11/23	EPA 6020B
Barium	125	0.477	"	"	"	"	"	"
Cadmium	0.416	0.238	"	"	"	"	"	"
Copper	6.20	0.477	"	"	"	"	"	"
Lead	9.35	0.238	"	"	"	"	"	"
Nickel	5.51	0.477	"	"	"	"	"	"
Selenium	ND	0.310	"	"	"	"	"	"
Silver	0.0305	0.0238	"	"	"	"	"	"
Zinc	22.9	0.477	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGA0244	01/11/23	01/11/23	EPA 7196A	

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

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	63.3	0.0596	mg/L dry	1	BGA0193	01/10/23	01/12/23	EPA 6020B	
Magnesium	15.4	0.0596	"	"	"	"	"	"	
Sodium	145	0.0596	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.24	0.00100	units	1	BGA0282	01/12/23	01/12/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/10/23 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

W04@5.0'
2301151-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	83.9	%	1	BGA0238	01/11/23	01/12/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.18	0.0100	mmhos/cm	1	BGA0233	01/11/23	01/11/23	EPA 120.1	

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

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.53		pH Units	1	BGA0234	01/11/23	01/11/23	EPA 9045D	

Summit Scientific

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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

S03@5.0'
2301151-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BGA0202	01/10/23	01/10/23	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: **01/10/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0548	137 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0374	93.4 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0419	105 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BGA0204	01/10/23	01/10/23	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	9.26	74.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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PO Box 1289
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Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

S03@5.0'
2301151-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGA0213	01/11/23	01/12/23	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: **01/10/23 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	0.0142	42.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.254	0.0100	mg/L	1	BGA0205	01/10/23	01/11/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/10/23 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

S03@5.0'
2301151-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	3.22	0.233	mg/kg dry	1	BGA0232	01/11/23	01/11/23	EPA 6020B
Barium	54.5	0.466	"	"	"	"	"	"
Cadmium	0.212	0.233	"	"	"	"	"	"
Copper	6.16	0.466	"	"	"	"	"	"
Lead	9.64	0.233	"	"	"	"	"	"
Nickel	6.57	0.466	"	"	"	"	"	"
Selenium	ND	0.303	"	"	"	"	"	"
Silver	0.0308	0.0233	"	"	"	"	"	"
Zinc	20.0	0.466	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGA0244	01/11/23	01/11/23	EPA 7196A	

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

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	32.9	0.0582	mg/L dry	1	BGA0193	01/10/23	01/12/23	EPA 6020B	
Magnesium	8.71	0.0582	"	"	"	"	"	"	
Sodium	31.1	0.0582	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.25	0.00100	units	1	BGA0282	01/12/23	01/12/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

S03@5.0'
2301151-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.8	%	1	BGA0238	01/11/23	01/12/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.385	0.0100	mmhos/cm	1	BGA0233	01/11/23	01/11/23	EPA 120.1	

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

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.88		pH Units	1	BGA0234	01/11/23	01/11/23	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

GW02
2301151-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BGA0203	01/10/23	01/10/23	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	5.7	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	7.2	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	6.6	1.0	"	"	"	"	"	"	

Date Sampled: **01/10/23 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	14.0	105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.0	97.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.2	99.2 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

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 BGA0202 - EPA 5030 Soil MS

Blank (BGA0202-BLK1)

Prepared: 01/10/23 Analyzed: 01/11/23

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	0.0558		"	0.0400		140	50-150			
Surrogate: Toluene-d8	0.0377		"	0.0400		94.4	50-150			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	50-150			

LCS (BGA0202-BS1)

Prepared: 01/10/23 Analyzed: 01/11/23

Benzene	0.0962	0.0020	mg/kg	0.125		77.0	70-130			
Toluene	0.114	0.0050	"	0.125		91.4	70-130			
Ethylbenzene	0.139	0.0050	"	0.125		111	70-130			
m,p-Xylene	0.266	0.010	"	0.250		106	70-130			
o-Xylene	0.129	0.0050	"	0.125		103	70-130			
1,2,4-Trimethylbenzene	0.156	0.0050	"	0.125		124	70-130			
1,3,5-Trimethylbenzene	0.150	0.0050	"	0.125		120	70-130			
Naphthalene	0.139	0.0038	"	0.125		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0562		"	0.0400		141	50-150			
Surrogate: Toluene-d8	0.0381		"	0.0400		95.2	50-150			
Surrogate: 4-Bromofluorobenzene	0.0386		"	0.0400		96.5	50-150			

Matrix Spike (BGA0202-MS1)

Source: 2301151-01

Prepared: 01/10/23 Analyzed: 01/11/23

Benzene	0.0950	0.0020	mg/kg	0.125	ND	76.0	70-130			
Toluene	0.113	0.0050	"	0.125	ND	90.5	70-130			
Ethylbenzene	0.135	0.0050	"	0.125	ND	108	70-130			
m,p-Xylene	0.260	0.010	"	0.250	ND	104	70-130			
o-Xylene	0.128	0.0050	"	0.125	ND	102	70-130			
1,2,4-Trimethylbenzene	0.151	0.0050	"	0.125	ND	121	70-130			
1,3,5-Trimethylbenzene	0.146	0.0050	"	0.125	ND	117	70-130			
Naphthalene	0.141	0.0038	"	0.125	ND	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0579		"	0.0400		145	50-150			
Surrogate: Toluene-d8	0.0375		"	0.0400		93.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0384		"	0.0400		95.9	50-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BGA0202 - EPA 5030 Soil MS

Matrix Spike Dup (BGA0202-MSD1)	Source: 2301151-01			Prepared: 01/10/23 Analyzed: 01/11/23							
Benzene	0.0946	0.0020	mg/kg	0.125	ND	75.7	70-130	0.380	30		
Toluene	0.114	0.0050	"	0.125	ND	91.1	70-130	0.608	30		
Ethylbenzene	0.139	0.0050	"	0.125	ND	112	70-130	3.52	30		
m,p-Xylene	0.268	0.010	"	0.250	ND	107	70-130	3.11	30		
o-Xylene	0.132	0.0050	"	0.125	ND	105	70-130	2.77	30		
1,2,4-Trimethylbenzene	0.154	0.0050	"	0.125	ND	123	70-130	1.63	30		
1,3,5-Trimethylbenzene	0.152	0.0050	"	0.125	ND	121	70-130	4.03	30		
Naphthalene	0.157	0.0038	"	0.125	ND	126	70-130	10.7	30		
Surrogate: 1,2-Dichloroethane-d4	0.0564		"	0.0400		141	50-150				
Surrogate: Toluene-d8	0.0376		"	0.0400		93.9	50-150				
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		95.7	50-150				

Batch BGA0203 - EPA 5030 Water MS

Blank (BGA0203-BLK1)	Prepared & Analyzed: 01/10/23										
Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
1,2,4-Trimethylbenzene	ND	1.0	"								
1,3,5-Trimethylbenzene	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	13.0		"	13.3		97.7	23-173				
Surrogate: Toluene-d8	12.7		"	13.3		95.0	20-170				
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.4	21-167				

LCS (BGA0203-BS1)	Prepared & Analyzed: 01/10/23										
Benzene	39.2	1.0	ug/l	33.3		118	51-132				
Toluene	39.6	1.0	"	33.3		119	51-138				
Ethylbenzene	42.6	1.0	"	33.3		128	58-146				
m,p-Xylene	86.7	2.0	"	66.7		130	57-144				
o-Xylene	41.5	1.0	"	33.3		124	53-146				
Naphthalene	34.4	1.0	"	33.3		103	70-130				
1,2,4-Trimethylbenzene	35.0	1.0	"	33.3		105	70-130				
1,3,5-Trimethylbenzene	36.7	1.0	"	33.3		110	70-130				
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.3		96.2	23-173				
Surrogate: Toluene-d8	12.9		"	13.3		96.7	20-170				
Surrogate: 4-Bromofluorobenzene	13.0		"	13.3		97.4	21-167				

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

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 BGA0203 - EPA 5030 Water MS

Matrix Spike (BGA0203-MS1)	Source: 2301151-03			Prepared & Analyzed: 01/10/23						
Benzene	39.6	1.0	ug/l	33.3	ND	119	34-141			
Toluene	39.2	1.0	"	33.3	ND	118	27-151			
Ethylbenzene	43.6	1.0	"	33.3	ND	131	29-160			
m,p-Xylene	94.5	2.0	"	66.7	5.70	133	20-166			
o-Xylene	40.7	1.0	"	33.3	ND	122	33-159			
Naphthalene	37.0	1.0	"	33.3	ND	111	70-130			
1,2,4-Trimethylbenzene	35.4	1.0	"	33.3	7.25	84.5	70-130			
1,3,5-Trimethylbenzene	34.9	1.0	"	33.3	6.55	85.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	13.1		"	13.3		98.3	23-173			
Surrogate: Toluene-d8	12.8		"	13.3		95.9	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.2	21-167			

Matrix Spike Dup (BGA0203-MSD1)	Source: 2301151-03			Prepared & Analyzed: 01/10/23						
Benzene	39.7	1.0	ug/l	33.3	ND	119	34-141	0.404	30	
Toluene	38.8	1.0	"	33.3	ND	116	27-151	1.00	30	
Ethylbenzene	43.3	1.0	"	33.3	ND	130	29-160	0.645	30	
m,p-Xylene	92.2	2.0	"	66.7	5.70	130	20-166	2.45	30	
o-Xylene	40.8	1.0	"	33.3	ND	122	33-159	0.196	30	
Naphthalene	38.3	1.0	"	33.3	ND	115	70-130	3.56	30	
1,2,4-Trimethylbenzene	32.2	1.0	"	33.3	7.25	74.8	70-130	9.56	30	
1,3,5-Trimethylbenzene	33.3	1.0	"	33.3	6.55	80.2	70-130	4.66	30	
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3		104	23-173			
Surrogate: Toluene-d8	12.9		"	13.3		96.7	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGA0204 - EPA 3550A

Blank (BGA0204-BLK1)

Prepared: 01/10/23 Analyzed: 01/11/23

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	12.9		"	12.5		103	30-150			

LCS (BGA0204-BS1)

Prepared: 01/10/23 Analyzed: 01/11/23

C10-C28 (DRO)	474	50	mg/kg	500		94.9	70-130			
Surrogate: o-Terphenyl	13.2		"	12.5		106	30-150			

Matrix Spike (BGA0204-MS1)

Source: 2301151-01

Prepared: 01/10/23 Analyzed: 01/11/23

C10-C28 (DRO)	434	50	mg/kg	500	14.7	83.9	70-130			
Surrogate: o-Terphenyl	12.0		"	12.5		96.2	30-150			

Matrix Spike Dup (BGA0204-MSD1)

Source: 2301151-01

Prepared: 01/10/23 Analyzed: 01/11/23

C10-C28 (DRO)	465	50	mg/kg	500	14.7	90.0	70-130	6.82	20	
Surrogate: o-Terphenyl	13.3		"	12.5		106	30-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGA0213 - EPA 5030 Soil MS

Blank (BGA0213-BLK1)

Prepared & Analyzed: 01/11/23

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	0.0361		"	0.0333		108		40-150			
Surrogate: Fluoranthene-d10	0.0252		"	0.0333		75.7		40-150			

LCS (BGA0213-BS1)

Prepared & Analyzed: 01/11/23

Acenaphthene	0.0353	0.00500	mg/kg	0.0333		106		31-137			
Anthracene	0.0317	0.00500	"	0.0333		95.0		30-120			
Benzo (a) anthracene	0.0241	0.00500	"	0.0333		72.2		30-120			
Benzo (a) pyrene	0.0355	0.00500	"	0.0333		106		30-120			
Benzo (b) fluoranthene	0.0253	0.00500	"	0.0333		76.0		30-120			
Benzo (k) fluoranthene	0.0351	0.00500	"	0.0333		105		30-120			
Chrysene	0.0306	0.00500	"	0.0333		91.8		30-120			
Dibenz (a,h) anthracene	0.0223	0.00500	"	0.0333		66.8		30-120			
Fluoranthene	0.0340	0.00500	"	0.0333		102		30-120			
Fluorene	0.0331	0.00500	"	0.0333		99.4		30-120			
Indeno (1,2,3-cd) pyrene	0.0238	0.00500	"	0.0333		71.4		30-120			
Pyrene	0.0302	0.00500	"	0.0333		90.6		35-142			
1-Methylnaphthalene	0.0290	0.00500	"	0.0333		87.0		35-142			
2-Methylnaphthalene	0.0313	0.00500	"	0.0333		93.9		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0294		"	0.0333		88.1		40-150			
Surrogate: Fluoranthene-d10	0.0337		"	0.0333		101		40-150			

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGA0213 - EPA 5030 Soil MS

Matrix Spike (BGA0213-MS1)

Source: 2301142-01

Prepared & Analyzed: 01/11/23

Acenaphthene	0.0188	0.00500	mg/kg	0.0333	ND	56.4	31-137		
Anthracene	0.0183	0.00500	"	0.0333	ND	54.8	30-120		
Benzo (a) anthracene	0.0169	0.00500	"	0.0333	ND	50.7	30-120		
Benzo (a) pyrene	0.0216	0.00500	"	0.0333	ND	64.7	30-120		
Benzo (b) fluoranthene	0.0163	0.00500	"	0.0333	ND	48.8	30-120		
Benzo (k) fluoranthene	0.0193	0.00500	"	0.0333	ND	58.0	30-120		
Chrysene	0.0176	0.00500	"	0.0333	ND	52.9	30-120		
Dibenz (a,h) anthracene	0.0174	0.00500	"	0.0333	ND	52.2	30-120		
Fluoranthene	0.0200	0.00500	"	0.0333	ND	59.9	30-120		
Fluorene	0.0194	0.00500	"	0.0333	ND	58.3	30-120		
Indeno (1,2,3-cd) pyrene	0.0168	0.00500	"	0.0333	ND	50.5	30-120		
Pyrene	0.0195	0.00500	"	0.0333	ND	58.5	35-142		
1-Methylnaphthalene	0.0186	0.00500	"	0.0333	ND	55.9	15-130		
2-Methylnaphthalene	0.0215	0.00500	"	0.0333	ND	64.5	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0188		"	0.0333		56.3	40-150		
Surrogate: Fluoranthene-d10	0.0197		"	0.0333		59.1	40-150		

Matrix Spike Dup (BGA0213-MSD1)

Source: 2301142-01

Prepared & Analyzed: 01/11/23

Acenaphthene	0.0229	0.00500	mg/kg	0.0333	ND	68.7	31-137	19.6	30
Anthracene	0.0211	0.00500	"	0.0333	ND	63.3	30-120	14.3	30
Benzo (a) anthracene	0.0195	0.00500	"	0.0333	ND	58.4	30-120	14.0	30
Benzo (a) pyrene	0.0245	0.00500	"	0.0333	ND	73.4	30-120	12.7	30
Benzo (b) fluoranthene	0.0191	0.00500	"	0.0333	ND	57.2	30-120	15.7	30
Benzo (k) fluoranthene	0.0212	0.00500	"	0.0333	ND	63.7	30-120	9.34	30
Chrysene	0.0206	0.00500	"	0.0333	ND	61.9	30-120	15.7	30
Dibenz (a,h) anthracene	0.0203	0.00500	"	0.0333	ND	60.9	30-120	15.4	30
Fluoranthene	0.0224	0.00500	"	0.0333	ND	67.3	30-120	11.5	30
Fluorene	0.0238	0.00500	"	0.0333	ND	71.5	30-120	20.3	30
Indeno (1,2,3-cd) pyrene	0.0198	0.00500	"	0.0333	ND	59.3	30-120	16.1	30
Pyrene	0.0216	0.00500	"	0.0333	ND	64.9	35-142	10.4	30
1-Methylnaphthalene	0.0210	0.00500	"	0.0333	ND	62.9	15-130	11.7	50
2-Methylnaphthalene	0.0248	0.00500	"	0.0333	ND	74.3	15-130	14.1	50
Surrogate: 2-Methylnaphthalene-d10	0.0213		"	0.0333		63.9	40-150		
Surrogate: Fluoranthene-d10	0.0214		"	0.0333		64.1	40-150		

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

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 BGA0205 - EPA 3050B

Blank (BGA0205-BLK1)

Prepared: 01/10/23 Analyzed: 01/11/23

Boron ND 0.0100 mg/L

LCS (BGA0205-BS1)

Prepared: 01/10/23 Analyzed: 01/11/23

Boron 5.85 0.0100 mg/L 5.00 117 80-120

Duplicate (BGA0205-DUP1)

Source: 2301127-01

Prepared: 01/10/23 Analyzed: 01/11/23

Boron 0.211 0.0100 mg/L 0.212 0.236 20

Matrix Spike (BGA0205-MS1)

Source: 2301127-01

Prepared: 01/10/23 Analyzed: 01/11/23

Boron 5.90 0.0100 mg/L 5.00 0.212 114 75-125

Matrix Spike Dup (BGA0205-MSD1)

Source: 2301127-01

Prepared: 01/10/23 Analyzed: 01/11/23

Boron 6.17 0.0100 mg/L 5.00 0.212 119 75-125 4.36 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F
Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BGA0232 - EPA 3050B

Blank (BGA0232-BLK1)

Prepared & Analyzed: 01/11/23

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	0.156	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Selenium	ND	0.260	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"

LCS (BGA0232-BS1)

Prepared & Analyzed: 01/11/23

Arsenic	43.1	0.200	mg/kg wet	40.0	108	80-120
Barium	41.7	0.400	"	40.0	104	80-120
Cadmium	1.99	0.200	"	2.00	99.6	80-120
Copper	45.1	0.400	"	40.0	113	80-120
Lead	22.6	0.200	"	20.0	113	80-120
Nickel	42.3	0.400	"	40.0	106	80-120
Selenium	4.25	0.260	"	4.00	106	80-120
Silver	2.01	0.0200	"	2.00	100	80-120
Zinc	43.4	0.400	"	40.0	108	80-120

Duplicate (BGA0232-DUP1)

Source: 2301151-01

Prepared & Analyzed: 01/11/23

Arsenic	1.99	0.238	mg/kg dry	2.08	4.39	20
Barium	112	0.477	"	125	10.9	20
Cadmium	0.382	0.238	"	0.416	8.36	20
Copper	6.04	0.477	"	6.20	2.56	20
Lead	8.52	0.238	"	9.35	9.21	20
Nickel	5.38	0.477	"	5.51	2.49	20
Selenium	ND	0.310	"	ND		20
Silver	0.0319	0.0238	"	0.0305	4.58	20
Zinc	22.2	0.477	"	22.9	3.19	20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

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 BGA0232 - EPA 3050B

Matrix Spike (BGA0232-MS1)			Source: 2301151-01		Prepared & Analyzed: 01/11/23					
Arsenic	50.0	0.238	mg/kg dry	47.7	2.08	100	75-125			
Barium	168	0.477	"	47.7	125	91.7	75-125			
Cadmium	2.73	0.238	"	2.38	0.416	97.2	75-125			
Copper	46.4	0.477	"	47.7	6.20	84.4	75-125			
Lead	32.8	0.238	"	23.8	9.35	98.6	75-125			
Nickel	44.5	0.477	"	47.7	5.51	81.8	75-125			
Selenium	4.05	0.310	"	4.77	ND	85.0	75-125			
Silver	2.36	0.0238	"	2.38	0.0305	97.6	75-125			
Zinc	54.0	0.477	"	47.7	22.9	65.4	75-125			QM-05

Matrix Spike Dup (BGA0232-MSD1)			Source: 2301151-01		Prepared & Analyzed: 01/11/23					
Arsenic	47.5	0.238	mg/kg dry	47.7	2.08	95.3	75-125	5.03	25	
Barium	153	0.477	"	47.7	125	60.6	75-125	9.22	25	QM-05
Cadmium	2.59	0.238	"	2.38	0.416	91.2	75-125	5.34	25	
Copper	45.5	0.477	"	47.7	6.20	82.4	75-125	2.08	25	
Lead	31.0	0.238	"	23.8	9.35	90.7	75-125	5.92	25	
Nickel	34.0	0.477	"	47.7	5.51	59.7	75-125	26.9	25	QM-05
Selenium	4.09	0.310	"	4.77	ND	85.9	75-125	0.995	25	
Silver	2.25	0.0238	"	2.38	0.0305	93.3	75-125	4.53	25	
Zinc	53.0	0.477	"	47.7	22.9	63.1	75-125	2.02	25	QM-05

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henehan

Reported:
01/12/23 14:52

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 BGA0244 - 3060A Mod

Blank (BGA0244-BLK1)

Prepared & Analyzed: 01/11/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGA0244-BS1)

Prepared & Analyzed: 01/11/23

Chromium, Hexavalent 21.4 0.30 mg/kg wet 25.0 85.8 80-120

Duplicate (BGA0244-DUP1)

Source: 2301151-01

Prepared & Analyzed: 01/11/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGA0244-MS1)

Source: 2301151-01

Prepared & Analyzed: 01/11/23

Chromium, Hexavalent 28.7 0.30 mg/kg dry 29.8 ND 96.4 75-125

Matrix Spike Dup (BGA0244-MSD1)

Source: 2301151-01

Prepared & Analyzed: 01/11/23

Chromium, Hexavalent 29.4 0.30 mg/kg dry 29.8 ND 98.6 75-125 2.26 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 - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

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

Summit Scientific

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

Batch BGA0193 - General Preparation

Blank (BGA0193-BLK1)

Prepared: 01/10/23 Analyzed: 01/11/23

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

LCS (BGA0193-BS1)

Prepared: 01/10/23 Analyzed: 01/11/23

Calcium	4.72	0.0500	mg/L wet	5.00	94.5	70-130
Magnesium	4.73	0.0500	"	5.00	94.5	70-130
Sodium	4.71	0.0500	"	5.00	94.1	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

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

Summit Scientific

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

Batch BGA0238 - General Preparation

Duplicate (BGA0238-DUP1)		Source: 2301094-01		Prepared: 01/11/23 Analyzed: 01/12/23	
% Solids	86.9		%	87.7	1.02 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

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 BGA0233 - General Preparation

Blank (BGA0233-BLK1)

Prepared & Analyzed: 01/11/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGA0233-BS1)

Prepared & Analyzed: 01/11/23

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

Duplicate (BGA0233-DUP1)

Source: 2301134-01

Prepared & Analyzed: 01/11/23

Specific Conductance (EC) 0.677 0.0100 mmhos/cm 0.668 1.32 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

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

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

Batch BGA0234 - General Preparation

LCS (BGA0234-BS1)

Prepared & Analyzed: 01/11/23

pH	9.06	pH Units	9.18	98.7	95-105
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Duplicate (BGA0234-DUP1)

Source: 2301134-01

Prepared & Analyzed: 01/11/23

pH	7.64	pH Units	7.72	1.04	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/12/23 14:52

Notes and Definitions

QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The associated LCS and/or LCSD were within acceptance limits, therefore the data are considered valid.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

February 02, 2023

Paul Henehan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - UPRC #27-9F

Work Order # 2301511

Enclosed are the results of analyses for samples received by Summit Scientific on 01/27/23 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 "Scott Sheely".

Scott Sheely For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - UPRC #27-9F

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/02/23 13:45

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01@5.0'	2301511-01	Soil	01/27/23 00:00	01/27/23 16:30

Summit Scientific

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