FREMONT ENVIRONMENTAL INC.

July 20, 2022

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

Subject: **Site Investigation Report**
Webster 15-28
API # 05-123-12690
SWSE Sec. 28, T6N, R64W
Weld County, Colorado
Fremont Project No. C022-026
Facility # 244895, Remediation # 20954

Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Site Investigation Report for the Webster 15-28 site in Weld County, Colorado. The enclosed report describes site investigation and sampling efforts to assess soil and groundwater quality 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.

Paul V. Henehan, P.E.
Senior Consultant

Enclosure

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

SITE INVESTIGATION REPORT

NOBLE ENERGY INC.

WEBSTER 15-28

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C022-026

FACILITY # 244895, REMEDIATION # 20954

Prepared by:

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

July 20, 2022

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SITE INVESTIGATION REPORT

NOBLE ENERGY INC.

WEBSTER 15-28

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C022-026

FACILITY # 244895, REMEDIATION # 20954

1.0 INTRODUCTION

The purpose of this document is to present information collected to delineate the extent of petroleum-impacted soil at the Webster 15-28 wellhead (Webster) location in Weld County, Colorado. Impacted soil and groundwater were identified at the Webster wellhead during abandonment activities. A single-day site investigation was completed on April 15, 2022. Six soil borings were advanced at the site to delineate the magnitude and extent of subsurface soil and groundwater impacts.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The Webster wellhead is located approximately 0.75 miles southwest of Gill, Colorado in Weld County as shown on Figure 1. The site is located in a rural and agricultural area approximately 0.43 miles northwest of the intersection of County Road 64 and County Road 51. The location is further described as the SW ¼ of the SE ¼ of Section 28, Township 6N, Range 64W.

2.2 Site History

The site consists of the wellhead for the Webster 15-28 natural gas well. The Webster 15-28 well was drilled in 1986 to a depth of approximately 6,980 feet.

A historical release was discovered in February 2022, by Eagle Environmental Consulting, Inc. during plugging and abandonment activities at the Webster wellhead. A site investigation to determine the extent of soil impacts was undertaken on April 15, 2022. Groundwater was encountered at that time.

3.0 SITE INVESTIGATION ACTIVITIES

3.1 Soil Borings/Monitoring Wells

A total of six soil borings were advanced utilizing a Geoprobe rig during the single-day site investigation conducted at the former Webster wellhead location on April 15, 2022. Five of the six soil borings were completed as a flush-mounted, 1-inch diameter, monitoring wells. The soil borings and monitoring wells were used to delineate the extent of soil and groundwater impacts at the site. The location of the soil borings and monitoring wells are illustrated on the attached figures.

Generally, the subsurface consists of poorly graded sand extending to a depth of approximately three feet. The sand is underlain by sandy silt, extending to a depth ranging between 10 and 15 feet. The sandy silt is underlain by a well graded sand which extends to a depth of at least 16 feet. The maximum depth of the borings was 16 feet. Groundwater is present the site at an average depth of approximately 4.9 feet. Geologic cross sections illustrating the soil lithology are presented on Figure 4.

The 1-inch diameter monitoring wells were constructed with 10-feet sections of well screen placed at a total depth of approximately 12 feet and completed at the ground surface with flush mounted, steel, well vaults. Soil samples from each of the borings were evaluated in the field using a photoionization detector (PID). Logs of the borings/monitoring wells are presented in Appendix A.

Soil samples were collected from each of the borings and sent to Summit Scientific, Inc. in Golden, Colorado for the analyses of 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, and arsenic by EPA method 6020B.

Soil impacts exceeding the COGCC Table 915-1 protection of groundwater soil screening levels (PGSSLs) for PAHs and arsenic were observed in two of the six borings. A background sample collected at a depth of one foot in native soil adjacent to the Webster wellhead also exceed the COGCC Table 915-1 PGSSLs for arsenic. Since elevated levels of arsenic were observed in both the soil boring and background samples these concentrations can be attributed to native soil conditions. The soil chemistry is presented on Figure 5 and summarized in Tables 1 through 3. The laboratory report and chain-of-custody documentation are included in Appendix C.

3.2 Groundwater Monitoring

Groundwater levels were measured in five monitoring wells on April 15, 2022 in accordance with the Sampling Plan included in Appendix B. The data are summarized in Tables 4 and 5.

Water table contours inferred from the April 15, 2022 data are illustrated on Figure 6. Based on these data, groundwater is inferred to flow southeast. The water table

gradient was calculated at approximately 0.046 feet per foot (ft/ft) for the April 2022 data.

3.3 Groundwater Sampling and Analysis

Groundwater samples were collected from five monitoring wells on April 15, 2022 and submitted to Summit Scientific, Inc. in Golden, Colorado 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, and inorganic petroleum constituents chloride and sulfate by EPA Method 300.0, and total dissolved solids (TDS) by Standard Method 2540C.

The groundwater concentrations in four of the five monitoring wells were below the respective COGCC Table 915-1 organic standards. However, MW-2 exceeded the COGCC Table 915-1 benzene standard of 5 µg/L with a concentration of 12 µg/L.

The groundwater chemistry is shown on Figure 7 and the analytical data are summarized in Tables 4 and 5. A copy of the laboratory's report is presented in Appendix C.

4.0 DISCUSSION

A single-day site investigation was conducted at the Webster location on April 15, 2022 resulting from a historical release discovered at the wellhead during plugging and abandonment activities. Six soil boings were advanced and five were completed as monitoring wells on site to delineate the magnitude and extent of soil and groundwater impacts.

Soil impacts above the COGCC Table 915-1 protection of groundwater soil screening levels were observed in one of the six soil borings/monitoring wells. Groundwater data

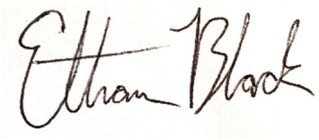
collected from the five monitoring wells indicate that the groundwater did not exceed the COGCC Table 915-1 organic constituent standards in four of the five wells. The soil and groundwater data are illustrated and summarized in the attached tables and figures.

The site's monitoring wells will be sampled quarterly in accordance with the groundwater sampling plan outlined in Appendix B. Additional monitoring wells may need to be installed to establish a western point of compliance at the site. After four consecutive quarters of clean groundwater Noble will request closure under the COGCC Table 915-1 residential soil screening levels.

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.**



7/20/22

_____ Date_____

Ethan D. Black, P.G.

Geologist

Reviewed by:

7/20/22

_____ Date_____

Paul V. Henehan, P.E.

Senior Consultant

TABLES

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
WEBSTER 15-28, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-026

Sample	Date Sampled	Depth (ft)	Location	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)	Naphth-alene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
MW-1 16ft	04/15/2022	16	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-1 2ft	04/15/2022	2	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	0.56	<50	<50
MW-2 2ft	04/15/2022	2	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	6.2	370	<50
MW-2 8ft	04/15/2022	8	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	8.5	<50	<50
MW-3 2ft	04/15/2022	2	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-3 8ft	04/15/2022	8	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-4 2ft	04/15/2022	2	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-4 8ft	04/15/2022	8	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-5 2ft	04/15/2022	2	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
MW-5 8ft	04/15/2022	8	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-6 2ft	04/15/2022	2	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SB-6 8ft	04/15/2022	8	Boring	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
COGCC Table 915-1 Limits (Residential SSL)				1.2	490	5.8	58	30	27	2	500	500	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	500	500

Bold faced values exceed the COGCC Table 915-1 concentrations

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.
WEBSTER 15-28, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-026

Sample	Date Sampled	Depth (ft)	Location	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)	Dibenz (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)
MW-1 16ft	4/15/2022	16	Boring	<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
MW-1 2ft	4/15/2022	2	Boring	<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
MW-2 2ft	4/15/2022	2	Boring	0.00888	0.0150	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00751
MW-2 8ft	4/15/2022	8	Boring	0.0146	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**0.0305**
MW-3 2ft	4/15/2022	2	Boring	<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
MW-3 8ft	4/15/2022	8	Boring	<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
MW-4 2ft	4/15/2022	2	Boring	<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
MW-4 8ft	4/15/2022	8	Boring	<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
MW-5 2ft	4/15/2022	2	Boring	<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
MW-5 8ft	4/15/2022	8	Boring	<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
SB-6 2ft	4/15/2022	2	Boring	<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
SB-6 8ft	4/15/2022	8	Boring	<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
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

Bold faced values exceed the COGCC Table 915-1 concentrations

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

TABLE 3
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
WEBSTER 15-28, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-026

Sample	Date Sampled	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)	Chromium (mg/kg)
BKG-1 1ft	4/15/2022	1	**3.69**	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-1 2ft	4/15/2022	2	**3.54**	NA	NA	NA	NA	NA	NA	NA	NA	NA
COGCC Table 915-1 Limits (Residential SSL)			0.68	15000	71	3100	400	1500	390	390	23000	0.3
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	46	14	26	0.26	0.8	370	0.00067

Bold faced values exceed the COGCC Table 915-1 concentrations

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

NA- Not analyzed

TABLE 4
SUMMARY OF ORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE ENERGY INC.
WEBSTER 15-28, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-026

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	NAPHTHALENE (µg/L)	1,2,4 TRIMETHYL-BENZENE (µg/L)	1,3,5 TRIMETHYL-BENZENE (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-1	4/15/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.00	4.35	95.65	NP
MW-2	4/15/2022	**12**	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	101.26	4.69	96.57	NP
MW-3	4/15/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.61	4.87	95.74	NP
MW-4	4/15/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.19	4.49	95.70	NP
MW-5	4/15/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.45	4.92	95.53	NP
Table 915-1 Limits		5	560	700	1,400	140	67	67				

Bold face values exceed the COGCC limits
NP - No Free Product
NA - Not Analyzed
NAP - Not Applicable

TABLE 5
SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE ENERGY INC.
WEBSTER 15-28, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-026

SAMPLE LOCATION	DATE	TOTAL DISSOLVED SOLIDS (mg/L)	CHLORIDE ION (mg/L)	SULFATE ION (mg/L)
MW-1	4/15/2022	1050	32.6	368
MW-2	4/15/2022	900	34.6	370
MW-3	4/15/2022	998	47.0	430
MW-4	4/15/2022	1020	38.2	436
MW-5	4/15/2022	**1130**	53.2	**493**
Table 915-1 Limits		<1.25 x local background	250 or <1.25 x local background	250 or <1.25 x local background

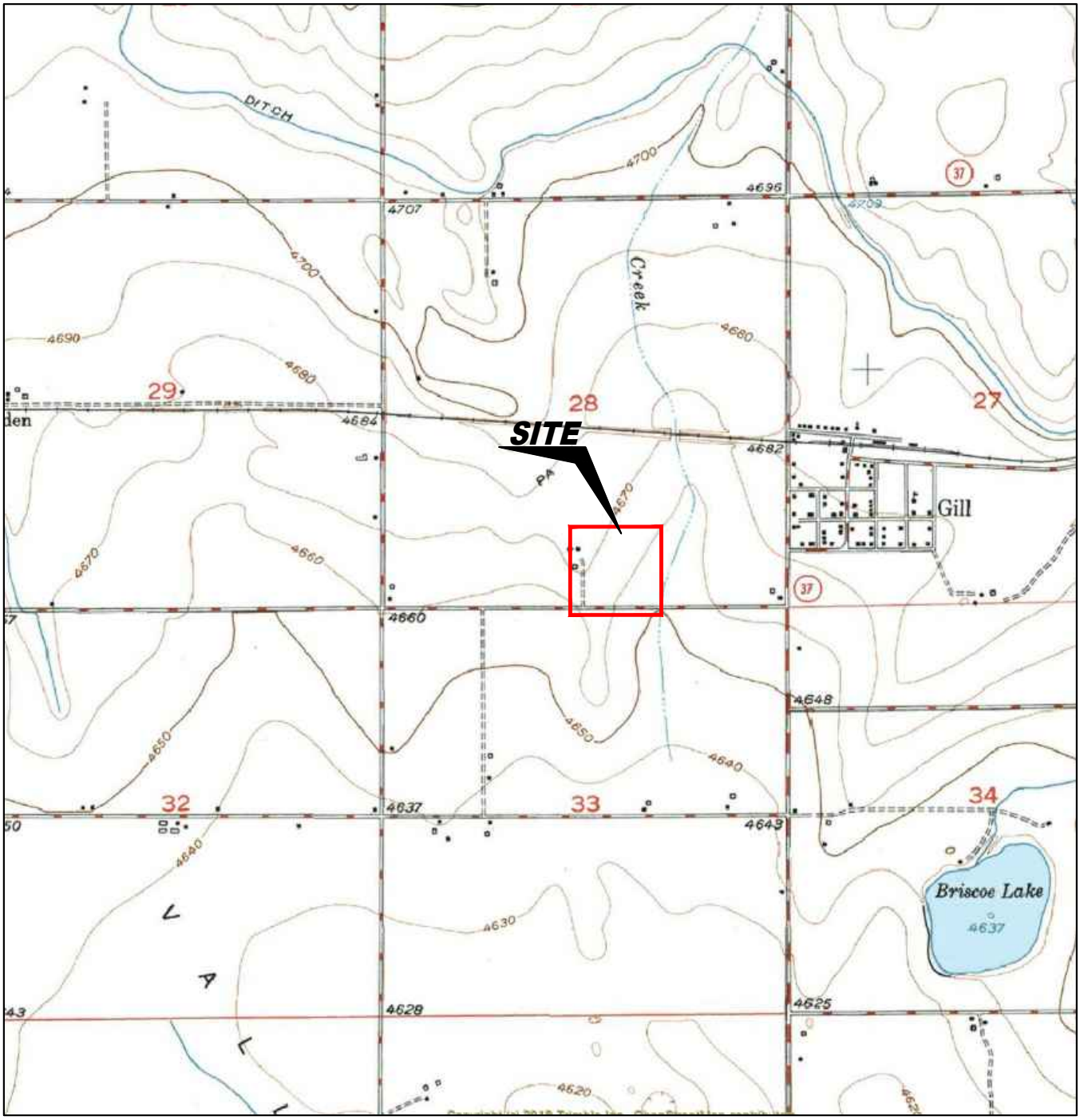
Bold face values exceed the COGCC limits

NP - No Free Product

NA - Not Analyzed

NAP - Not Applicable

FIGURES



N

Scale (miles)
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1
0 1000 2000 3000 4000 5000
Scale (feet)

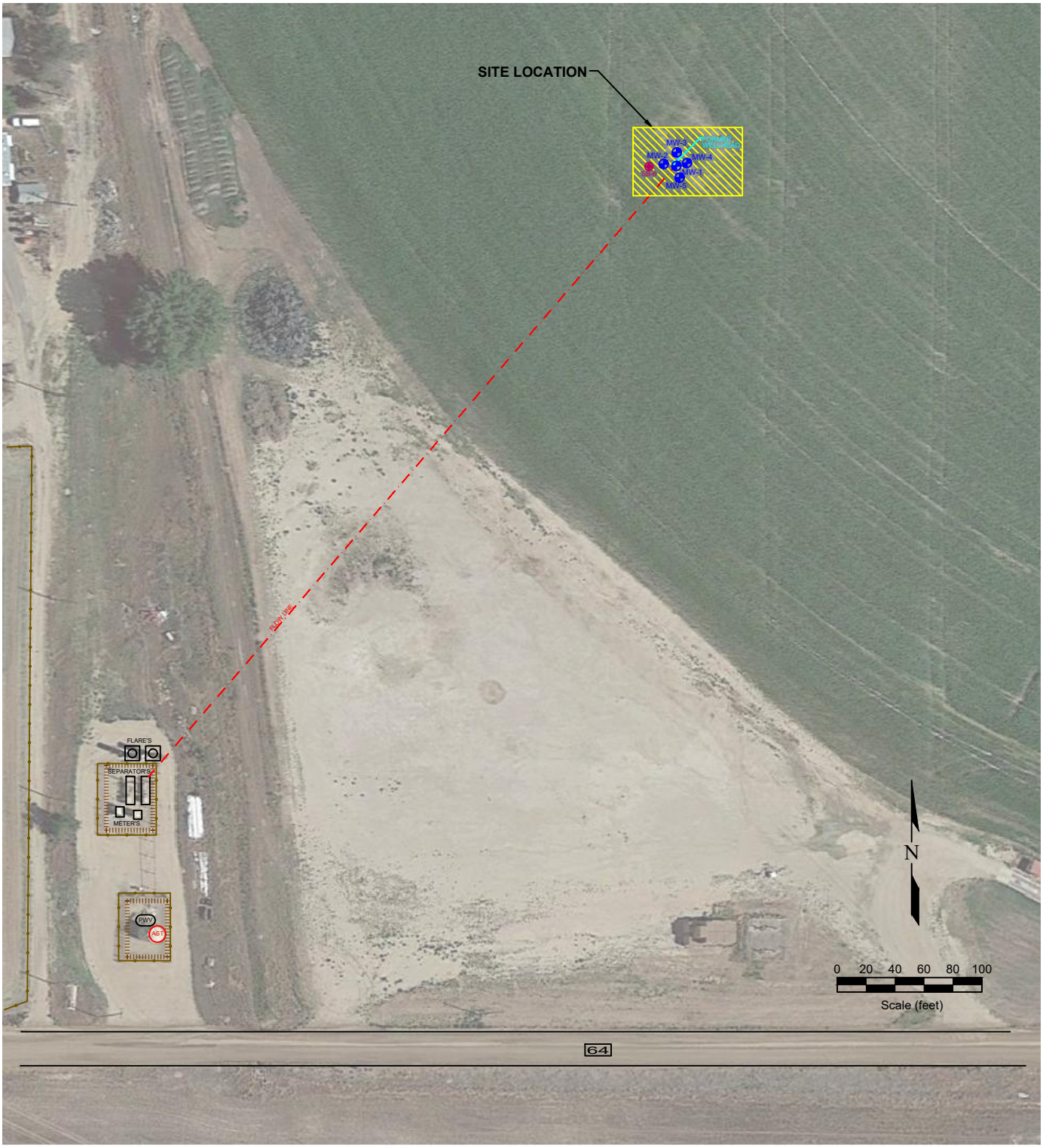
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy, Inc. ~ Webster 15-28
SWSE Sec. 28, T6N, R64W, 6th PM
Weld County, Colorado
40.451617°, -104.553572°

Project #	API #	Facility #
C022-026	**05-123-12690**	**481614**
Date	Remediation #	Filename
6/24/22	**20954**	**22026T**

FREMONT ENVIRONMENTAL



LEGEND

WELL HEAD LOCATION
SOIL BORING LOCATION
MONITORING WELL
ABOVE GROUND STORAGE TANK
FORMER
FORMER FACILITY
CONTAINMENT BERM
FLOW LINE
FENCE LINE

Figure 2
SITE MAP

Noble Energy, Inc. ~ Webster 15-28
SWSE Sec. 28, T6N, R64W, 6th PM
Weld County, Colorado
40.451617°, -104.553572°

Project No.	API #	Facility #
C022-026	**05-123-12690**	**481614**
Date	Remediation #	Filename
7/28/22	**20954**	**22026Q**

FREMONT ENVIRONMENTAL

LEGEND

WELL HEAD LOCATION
SOIL BORING LOCATION
MONITORING WELL
FORMER
FORMER FACILITY
FLOW LINE
A — A'
CROSS SECTION CUT LINE

Figure 3
CROSS SECTION MAP

Noble Energy, Inc. ~ Webster 15-28
SWSE Sec. 28, T6N, R64W, 6th PM
Weld County, Colorado
40.451617°, -104.553572°

Project No.	API #	Facility #
C022-026	**05-123-12690**	**481614**
Date	Remediation #	Filename
7/28/22	**20954**	**22026QQ**

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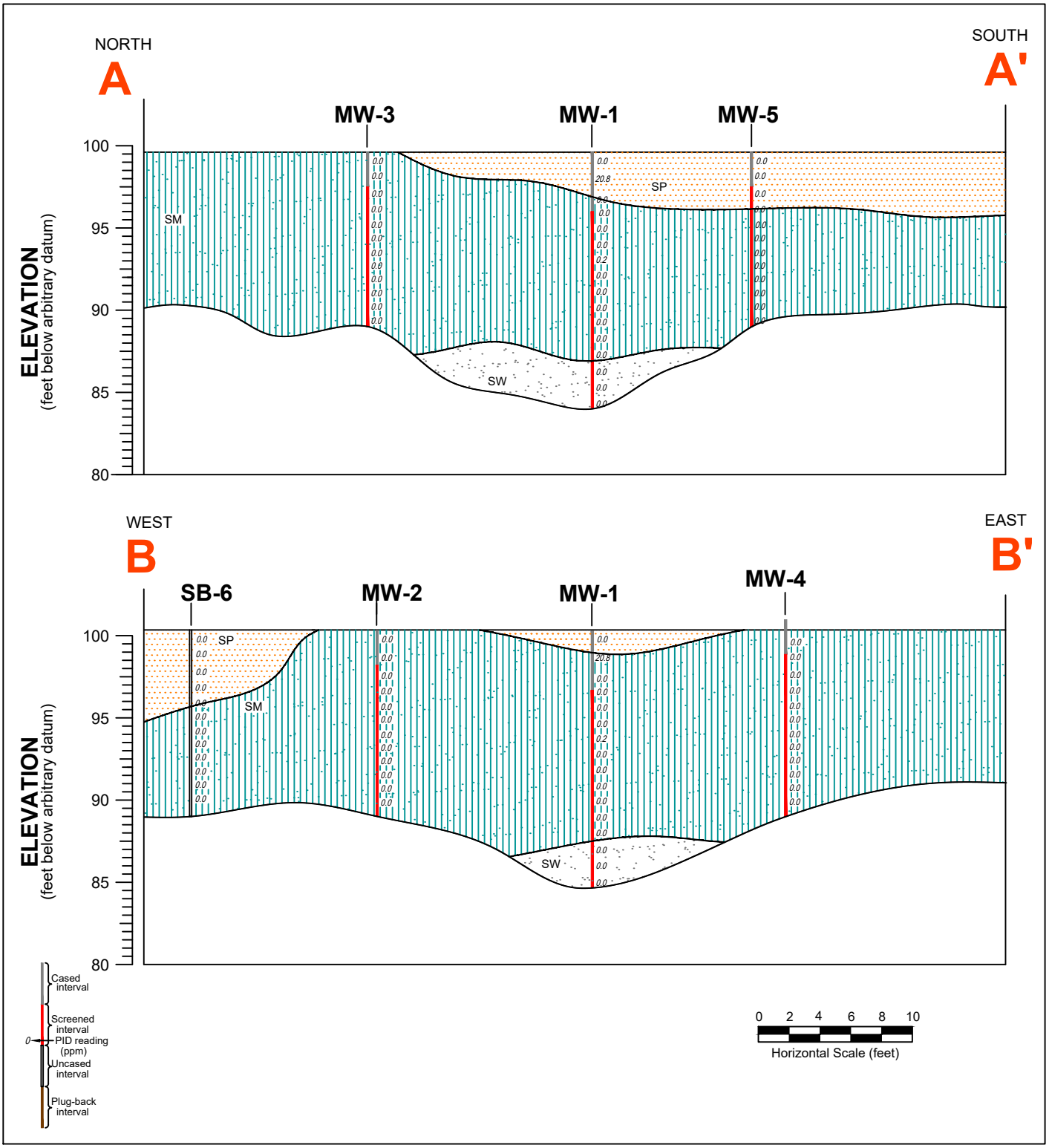

LEGEND

CH	Clay, high plasticity	SW	Sand, well-graded		Fill
CL	Clay low plasticity	SP	Sand, poorly-graded		Asphalt
MH	Silt, high plasticity	SC	Sand, clayey		Roadbase
ML	Silt, low plasticity	SM	Sand silty		Basin fill
CH-MH	Clay, silty high plasticity	GW	Gravel, well-graded		Claystone
CL-ML	Clay, silty, low plasticity	GP	Gravel, poorly-graded		Firm sandy clay
MH-CH	Silt, clayey high plasticity	GC	Gravel, clayey		Shale
ML-CL	Silt, clayey low plasticity	GM	Gravel, silty		Sandstone

Figure 4
CROSS SECTION A-A' and B-B'

Noble Energy, Inc. ~ Webster 15-28
SWSE Sec. 28, T6N, R64W, 6th PM
Weld County, Colorado
40.451617°, -104.553572°

Project No.	API #	Location #
C022-026	**05-123-12690**	**481614**
Date	Remediation #	Filename
7/28/22	**20954**	**22026X**

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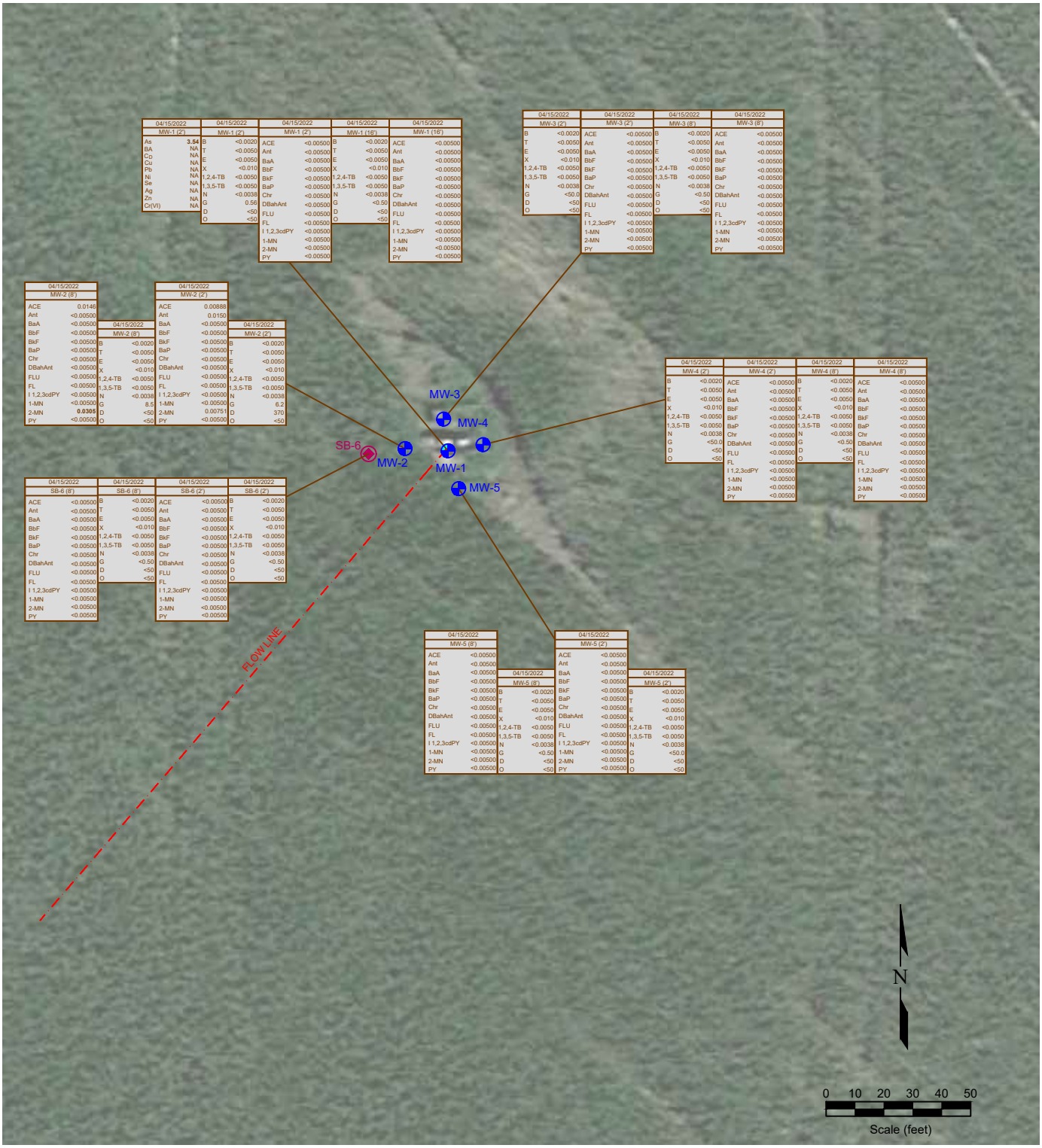


LEGEND

WELL HEAD LOCATION
SOIL BORING LOCATION
MONITORING WELL
FORMER FACILITY
FLOW LINE

DATE SAMPLED
SAMPLE ID and DEPTH (ft)
ACENAPHTHENE (mg/kg)
ANTHRACENE (mg/kg)
BENZO (A) ANTHRACENE (mg/kg)
BENZO (B) FLUORANTHENE (mg/kg)
BENZO (K) FLUORANTHENE(mg/kg)
BENZO (A) PYRENE (mg/kg)
CHRYSENE (mg/kg)
DIBENZ (A,H) ANTHRACENE (mg/kg)
FLUORANTHENE (mg/kg)
FLUORENE (mg/kg)
INDENO (1,2,3-CD) PYRENE(mg/kg)
1-METHYLNAPHTHALENE (mg/kg)
2-METHYLNAPHTHALENE (mg/kg)
PYRENE (mg/kg)

DATE SAMPLED
SAMPLE ID and DEPTH (ft)
BENZENE (mg/kg)
TOLUENE (mg/kg)
ETHYLBENZENE (mg/kg)
TOTAL XYLENES (mg/kg)
1,2,4-TRIMETHYLBENZENE (mg/kg)
1,3,5-TRIMETHYLBENZENE (mg/kg)
NAPHTHALENE (mg/kg)
TPH-GRO (mg/kg)
TPH-DRO (mg/kg)
TPH-ORO (mg/kg)

DATE SAMPLED
SAMPLE ID & DEPTH (ft)
ARSENIC (mg/kg)
BARIUM (mg/kg)
CADMIUM (mg/kg)
COPPER (mg/kg)
LEAD (mg/kg)
NICKEL (mg/kg)
SELENIUM (mg/kg)
SILVER (mg/kg)
ZINC (mg/kg)
HEXAVALENT CHROMIUM (mg/kg)

[NA] NOT ANALYZED

Figure 5

SOIL CHEMISTRY MAP

April 15, 2022

Noble Energy, Inc. ~ Webster 15-28

SWSE Sec. 28, T6N, R64W, 6th PM

Weld County, Colorado

40.451617°, -104.553572°

Project No.	API #	Facility #
C022-026	**05-123-12690**	**481614**
Date	Remediation #	Filename
7/28/22	**20954**	**22026QQ**

FREMONT ENVIRONMENTAL

LEGEND

WELL HEAD LOCATION
SOIL BORING LOCATION
MONITORING WELL
FORMER
FORMER FACILITY
FLOW LINE

(95.65) GROUND WATER ELEVATION (ft above arbitrary datum)

95.00 WATER TABLE CONTOUR

GROUND WATER FLOW DIRECTION

Figure 6

INFERRED GROUNDWATER CONTOURS MAP

April 15, 2022

Noble Energy, Inc. ~ Webster 15-28

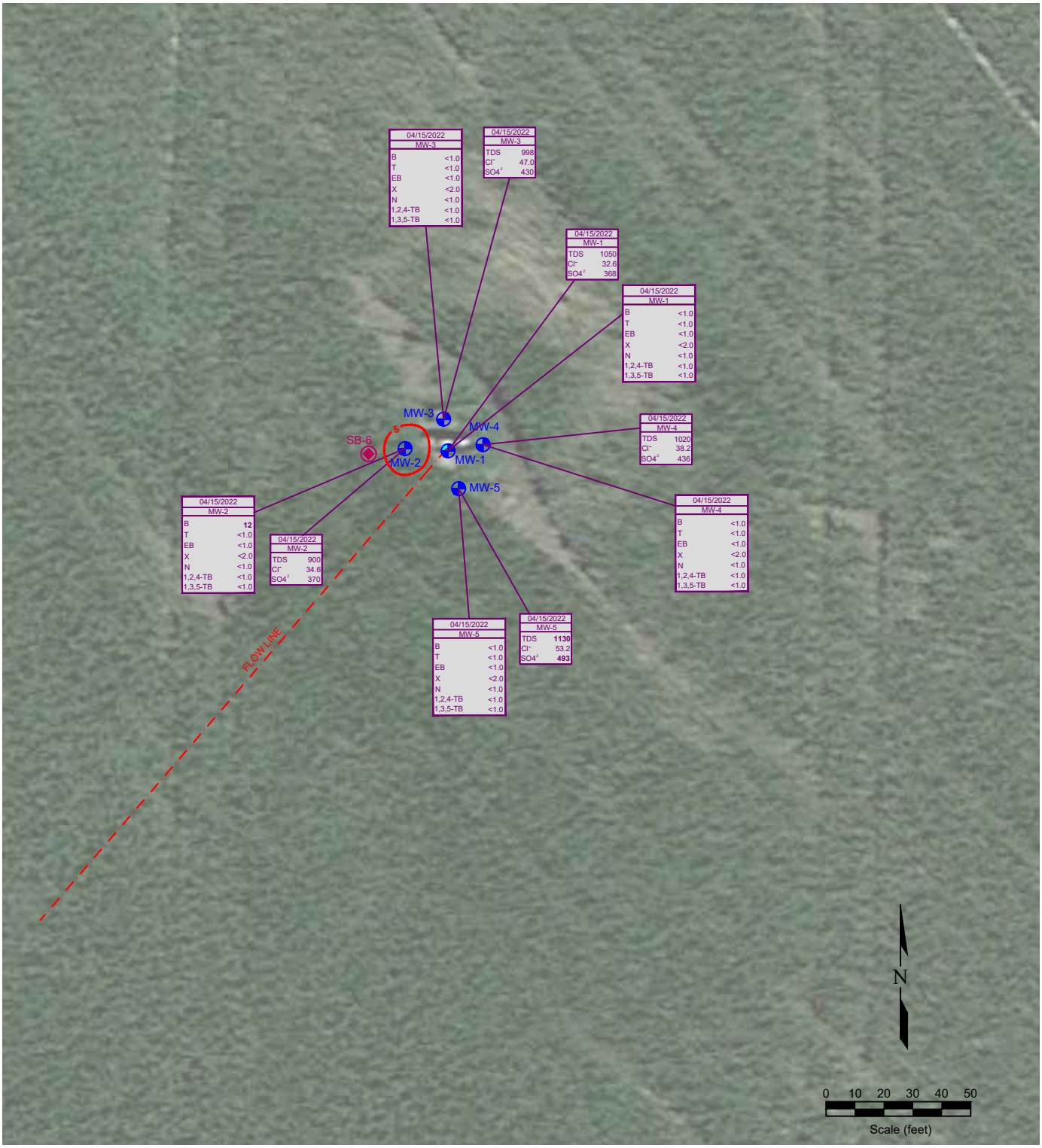
SWSE Sec. 28, T6N, R64W, 6th PM

Weld County, Colorado

40.451617°, -104.553572°

Project No.	API #	Facility #
C022-026	**05-123-12690**	**481614**
Date	Remediation #	Filename
7/28/22	**20954**	**22026QQ**

FREMONT ENVIRONMENTAL



LEGEND

WELL HEAD LOCATION
SOIL BORING LOCATION
MONITORING WELL
FORMER
FORMER FACILITY
FLOW LINE

04/15/2022
MW-1
B <1.0
T <1.0
EB <1.0
X <2.0
N <1.0
1,2,4-TB <1.0
1,3,5-TB <1.0

DATE SAMPLED
SAMPLE ID
BENZENE (ug/L)
TOLUENE (ug/L)
ETHYLBENZENE (ug/L)
TOTAL XYLENES (ug/L)
NAPHTHALENE (ug/L)
1,2,4-TRIMETHY-BENZENE (ug/L)
1,3,5-TRIMETHYL-BENZENE (ug/L)

04/15/2022
MW-1
TDS 1050
Cl⁻ 32.6
SO4² 368

DATE SAMPLED
SAMPLE ID
TOTAL DISSOLVED SOLIDS (mg/L)
CHLORIDE ION (mg/L)
SULFATE ION (mg/L)

5
BENZENE ISOCONCENTRATION (ug/L)
Dashed where inferred

Figure 7

GROUNDWATER CHEMISTRY MAP
April 15, 2022
Noble Energy, Inc. ~ Webster 15-28
SWSE Sec. 28, T6N, R64W, 6th PM
Weld County, Colorado
40.451617°, -104.553572°

Project No.	API #	Facility #
C022-026	**05-123-12690**	**481614**
Date	Remediation #	Filename
7/28/22	**20954**	**22026QQ**

FREMONT ENVIRONMENTAL

APPENDIX A

BORING LOGS

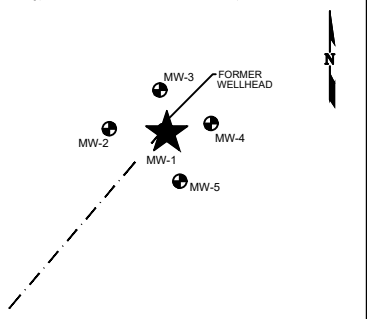
FREMONT ENVIRONMENTAL

BORING/WELL CONSTRUCTION LOG

Page 1 of 1

Boring/Well No.	Total Depth	Location
MW-1	16'	Noble Energy, Inc. Webster 15-28 SWSE Sec 28, T6N, R64W, 6th PM Weld County, Colorado
Project No./Name: C022-026 / Noble ~ Webster 15-28		
Drilling Contractor/Driller: Drill Pro / Joe, Glenn, Hayward		
Geologist/Office: Ethan Black / Fremont Environmental, Inc.		Approved By

Boring/Well Location Sketch Map



Drilling Equipment/Method	Size/Type of Bit	Sampling Method	Start/Finish Date
Geoprobe / Direct Push	2.5" direct push	direct push	4/15/2022

Well Installed?	Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Yes [X] No [ ]	1" PVC	.	.	.	1"	.

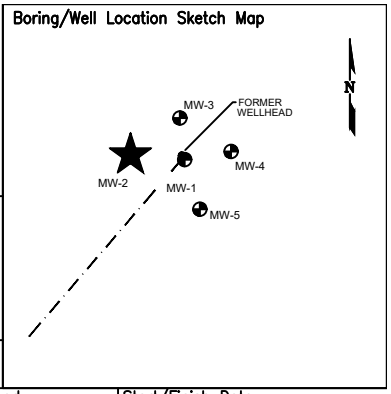
Elevation of:	Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured
(ft. above datum)	3.45	100.00	.	.	4.35 4/15/2022

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY: GRAPHIC LOG	LITHOLOGY: VISUAL DESCRIPTION	Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		SP	Sand: brown to gray at 2'				0.0
	Bentonite; 1" Blank						20.8
			Sandy silt: tan, very moist, plastic, sand				0.0
		SM					0.0
5							0.0
			- wet at 6'				0.0
	#10-20 Silica Sand; 1" Screen						0.2
							0.0
							0.0
10							0.0
			- 4" sand lens fine to coarse at 10'				0.0
							0.0
							0.0
							0.0
15		SW	Sand: tan, red, black, fine to coarse, wet				0.0
			TD 16'				0.0
20							

FREMONT ENVIRONMENTAL

BORING/WELL CONSTRUCTION LOG

Boring/Well Location Sketch Map



Boring/Well No.: MW-2	Total Depth: 12'	Location: Noble Energy, Inc. Webster 15-28 SWSE Sec 28, T6N, R64W, 6th PM Weld County, Colorado	
Project No./Name: C022-026 / Noble ~ Webster 15-28			
Drilling Contractor/Driller: Drill Pro / Joe, Glenn, Hayward			
Geologist/Office: Ethan Black / Fremont Environmental, Inc.		Approved By:	
Drilling Equipment/Method: Geoprobe / Direct Push		Size/Type of Bit: 2.5" direct push	Sampling Method: direct push
Start/Finish Date: 4/15/2022			

Well Installed? Yes [X] No [ ]	Casing Mtrl./Dia.: 1" PVC	Screen: Type .	Mtrl. .	Length .	Dia. 1"	Slot Size .	
Elevation of: (ft. above datum)	Ground Surface: 2.19	Top of Well Casing: 101.26	Top of Screen: .	Bottom of Screen: .	Ground Water Surface/Date Measured: 4.69	4/15/2022	

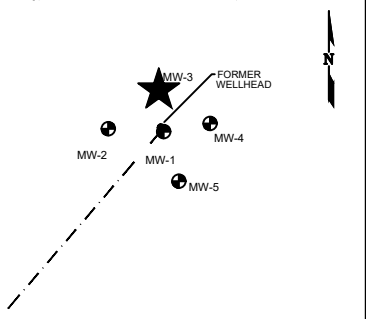
DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY: GRAPHIC LOG	LITHOLOGY: VISUAL DESCRIPTION	Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
	Bentonite; 1" Blank	SP	Sand: brown to gray				5.6
							105.2
							40.1
		SM	Sandy silt: gray and tan, silty plastic, wet				11.3
	#10-20 Silica Sand; 1" Screen						15.8
5							20.3
							50.2
							75.5
							3.5
10		SW	Sand: tan, red, black, fine to coarse				0.0
							0.0
			TD 12'				0.0
15							
20							

FREMONT ENVIRONMENTAL

BORING/WELL CONSTRUCTION LOG

Boring/Well No.: MW-3	Total Depth: 12'
Project No./Name: C022-026 / Noble ~ Webster 15-28	
Drilling Contractor/Driller: Drill Pro / Joe, Glenn, Hayward	
Geologist/Office: Ethan Black / Fremont Environmental, Inc.	
Location: Noble Energy, Inc. Webster 15-28 SWSE Sec 28, T6N, R64W, 6th PM Weld County, Colorado	
Approved By:	

Boring/Well Location Sketch Map



Drilling Equipment/Method	Size/Type of Bit	Sampling Method	Start/Finish Date
Geoprobe / Direct Push	2.5" direct push	direct push	4/15/2022

Well Installed?	Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Yes [X] No [ ]	1" PVC	.	.	.	1"	.

Elevation of: (ft. above datum)	Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured
	2.84	100.61	.	.	4.87 4/15/2022

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY: GRAPHIC LOG	LITHOLOGY: VISUAL DESCRIPTION	Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
	Bentonite; 1" Blank		Sandy Silt: brown, medium to fine sand, moist				0.0
							0.0
			- color change to beige				0.0
	#10-20 Silica Sand; 1" Screen	SM					0.0
5							0.0
			- wet				0.0
							0.0
							0.0
							0.0
10							0.0
			- 4" sand lens				0.0
		SM	Sandy Silt: beige, medium to coarse sand, wet, some white lamination				0.0
			TD 12'				
15							
20							

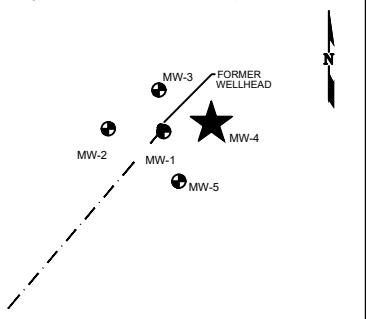
FREMONT ENVIRONMENTAL

BORING/WELL CONSTRUCTION LOG

Page 1 of 1

Boring/Well No.	Total Depth	Location
MW-4	12'	Noble Energy, Inc. Webster 15-28 SWSE Sec 28, T6N, R64W, 6th PM Weld County, Colorado
Project No./Name: C022-026 / Noble ~ Webster 15-28		
Drilling Contractor/Driller: Drill Pro / Joe, Glenn, Hayward		
Geologist/Office: Ethan Black / Fremont Environmental, Inc.		Approved By

Boring/Well Location Sketch Map



Drilling Equipment/Method	Size/Type of Bit	Sampling Method	Start/Finish Date
Geoprobe / Direct Push	2.5" direct push	direct push	4/15/2022

Well Installed?	Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Yes [X] No [ ]	1" PVC	.	.	.	1"	.

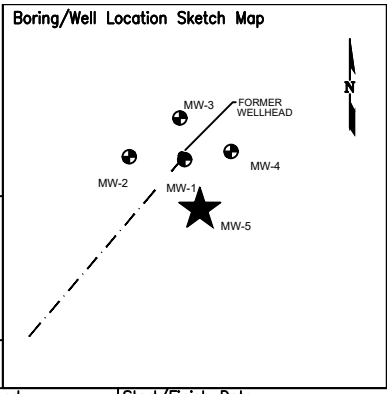
Elevation of:	Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured
(ft. above datum)	3.26	100.19	.	.	4.49 4/15/2022

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY: GRAPHIC LOG	LITHOLOGY: VISUAL DESCRIPTION	Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
	Bentonite; 1" Blank		Sandy Silt: brown, medium to fine sand, moist				0.0
							0.0
			- color change to beige				0.0
	#10-20 Silica Sand; 1" Screen	SM					0.0
5							0.0
			- wet				0.0
							0.0
							0.0
							0.0
10							0.0
			- 4" sand lens				
		SM	Sandy Silt: sw sand, wet				0.0
			TD 12'				0.0
15							
20							

FREMONT ENVIRONMENTAL

BORING/WELL CONSTRUCTION LOG

Boring/Well Location Sketch Map



Boring/Well No.: MW-5	Total Depth: 12'	Location: Noble Energy, Inc. Webster 15-28 SWSE Sec 28, T6N, R64W, 6th PM Weld County, Colorado	
Project No./Name: C022-026 / Noble ~ Webster 15-28			
Drilling Contractor/Driller: Drill Pro / Joe, Glenn, Hayward			
Geologist/Office: Ethan Black / Fremont Environmental, Inc.		Approved By:	
Drilling Equipment/Method: Geoprobe / Direct Push		Size/Type of Bit: 2.5" direct push	Sampling Method: direct push
Start/Finish Date: 4/15/2022			

Well Installed? Yes [X] No [ ]	Casing Mtrl./Dia.: 1" PVC	Screen: Type .	Mtrl. .	Length .	Dia. 1"	Slot Size .
Elevation of: (ft. above datum)	Ground Surface: 3.00	Top of Well Casing: 100.45	Top of Screen: .	Bottom of Screen: .	Ground Water Surface/Date Measured: 4.92	4/15/2022

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY: GRAPHIC LOG	LITHOLOGY: VISUAL DESCRIPTION	Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
	Bentonite; 1" Blank	SP	Sand: brown, fine, moist				0.0
							0.0
			- color change to beige				0.0
	#10-20 Silica Sand; 1" Screen						0.0
5							0.0
			- wet				0.0
		SM	Sandy Silt: beige, fine to medium sand, wet				0.0
							0.0
							0.0
10							0.0
			- increasing coarse sand				0.0
			TD 12'				0.0
15							
20							

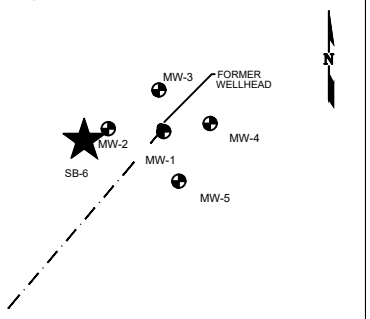
FREMONT ENVIRONMENTAL

BORING/WELL CONSTRUCTION LOG

Page 1 of 1

Boring/Well No.	Total Depth	Location
SB-6	12'	Noble Energy, Inc. Webster 15-28 SWSE Sec 28, T6N, R64W, 6th PM Weld County, Colorado
Project No./Name: C022-026 / Noble ~ Webster 15-28		
Drilling Contractor/Driller: Drill Pro / Joe, Glenn, Hayward		
Geologist/Office: Ethan Black / Fremont Environmental, Inc.		Approved By:

Boring/Well Location Sketch Map



Drilling Equipment/Method	Size/Type of Bit	Sampling Method	Start/Finish Date
Geoprobe / Direct Push	2.5" direct push	direct push	4/15/2022

Well Installed?	Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Yes ☐ No ☒	.	.	.	.	.	.

Elevation of:	Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured
(ft. above datum)	.	.	.	.	.

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY: GRAPHIC LOG	LITHOLOGY: VISUAL DESCRIPTION	Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		SP	Sand: brown, fine, moist				0.0
							0.0
			- color change to beige				0.0
							0.0
5							0.0
			- wet				0.0
		SM	Sandy Silt:				0.0
							0.0
							0.0
10							0.0
							0.0
			TD 12'				0.0
15							
20							

APPENDIX B

SAMPLING PLAN

SAMPLING METHODS AND PROCEDURES

Water Level Measurements

All groundwater level measurements will be obtained using an electric measuring device, which indicates when a probe is in contact with groundwater. Measurements will be obtained by lowering the device into the well until the water surface had been encountered, and by measuring the distance from the top of the inside riser pipe to the probe. All the measurements will be recorded to the nearest 0.01 ft. To minimize cross-contamination, the water level indicator will be decontaminated with isopropyl alcohol and distilled water between each well.

Monitoring Well Sampling

All monitoring wells were sampled from the "cleanest" to the "most contaminated" according to the protocols listed below.

Field Protocol

Step 1 Measure water level in each well.

Step 2 Purge each monitoring well by evacuating a minimum of three well bore volumes using a disposable polyethylene bailer.

Step 3 Collect water samples using a disposable polyethylene bailer.

Step 4 Cool samples to approximately 4°C for transportation.

Step 5 Store water samples and transport to a specific laboratory, following all documentation and chain-of-custody procedures.

Upon completion of groundwater sampling, a chain-of-custody log will be completed. Chain-of-custody records include the following information: project, project number, shipped by, shipped to, suspected hazard, sampling point, location, field identification number, date collected, sample type, number of containers, analysis required, and sampler's signature.

The chain-of-custody records will be shipped with the samples to the laboratory. Upon arrival at the laboratory the samples will be checked in and signed by the appropriate laboratory personnel. Laboratory identification numbers will be noted on the chain-of-custody record. Upon completion of the laboratory analysis, the completed chain-of-custody record will be returned to the project manager.

Analytical Methods

The following list identifies the various chemical constituents and analytical methods which will be used for their quantification.

Chemical Parameter	Method
Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX)	EPA Method – 8260B
1,2,4- and 1,3,5-Trimethylbenzene and Naphthalene	EPA Method – 8260B
Chloride and Sulfate Anions	EPA Method – 300.0
Total Dissolved Solids (TDS)	Standard Method 2540C

APPENDIX C

LABORATORY DOCUMENTATION

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

May 02, 2022

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Webster 15-28
Work Order #2204305

Enclosed are the results of analyses for samples received by Summit Scientific on 04/20/22 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Paul Shrewsbury
President

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1 2ft	2204305-01	Soil	04/15/22 00:00	04/20/22 15:00
MW-1 16ft	2204305-02	Soil	04/15/22 00:00	04/20/22 15:00
MW-2 2ft	2204305-03	Soil	04/15/22 00:00	04/20/22 15:00
MW-2 8ft	2204305-04	Soil	04/15/22 00:00	04/20/22 15:00
MW-3 2ft	2204305-05	Soil	04/15/22 00:00	04/20/22 15:00
MW-3 8ft	2204305-06	Soil	04/15/22 00:00	04/20/22 15:00
MW-4 2ft	2204305-07	Soil	04/15/22 00:00	04/20/22 15:00
MW-4 8ft	2204305-08	Soil	04/15/22 00:00	04/20/22 15:00
MW-5 2ft	2204305-09	Soil	04/15/22 00:00	04/20/22 15:00
MW-5 8ft	2204305-10	Soil	04/15/22 00:00	04/20/22 15:00
BKG-1 1ft	2204305-11	Soil	04/15/22 00:00	04/20/22 15:00
MW-1	2204305-12	Water	04/15/22 00:00	04/20/22 15:00
MW-2	2204305-13	Water	04/15/22 00:00	04/20/22 15:00
MW-3	2204305-14	Water	04/15/22 00:00	04/20/22 15:00
MW-4	2204305-15	Water	04/15/22 00:00	04/20/22 15:00
MW-5	2204305-16	Water	04/15/22 00:00	04/20/22 15:00
SB-6 2ft	2204305-17	Soil	04/15/22 00:00	04/20/22 15:00
SB-6 8ft	2204305-18	Soil	04/15/22 00:00	04/20/22 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.

Summit Scientific

S_2

2204305.1

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

Client: Fremont Env.
Address:
City/State/Zip:
Phone:
Sampler Name: EB

Project Manager: Henehan
E-Mail: ethanb + paulh (On file), Jacob Evans
Bill To: Jacob
Project Name: Noble - Webster 15-28
Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other ___	Water	Soil	Air-Canister #	Other ___	BTEX, TPH	TMBs, Naphthalene	1,2 methylnaphthalene	As, Se					
1	MW-1 2FT	4/15/22		3			X			X			X	X	X	X					
2	MW-1 16FT	↓		↓			↓			↓			↓	↓	↓						
3	MW-2 2FT																				
4	MW-2 8FT																				
5	MW-3 2FT																				
6	MW-3 8FT																				
7	MW-4 2FT																				
8	MW-4 8FT																				
9	MW-5 2FT																				
10	MW-5 4FT	↓		↓			↓			↓			↓	↓	↓						

Relinquished by: Ethan Blad Date/Time: 4/20/22
Received by: Date/Time: 4/20/22 1500

Relinquished by: Date/Time:
Received by: Date/Time:

Temperature Upon Receipt: 3.0
IR gun correction: 0
Corrected Temperature 3.0
IR gun #: 1
HNO3 lot #

Turn Around Time (Check)
Same Day ___ 72 hours ___
24 hours ___ Standard X
48 hours ___

Sample Integrity:
Samples Intact: (Yes) No

Notes:

Summit Scientific

S_2

2204305.2

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

Client: Fremont Env.
Address:
City/State/Zip:
Phone:
Sampler Name: EB

Project Manager: See p. 1
E-Mail: See p. 1
Bill To: Jacob
Project Name: Noble - Webster 15-28
Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other ___	Water	Soil	Air-Canister #	Other ___	As, Se	NBTEX, TMBs	TDS, Cl^-, SO_4^{2-}						
1	BKG-1 IFT	4/15/22		1						X			X								
2	MW-1	"		4			X		X					X	X						Only As, Se
3	MW-2	"		"			"		"					"	"						
4	MW-3	"		"			"		"					"	"						
5	MW-4	"		"			"		"					"	"						
6	MW-5	"		"			"		"					"	"						
7																					
8																					
9																					
10																					

Relinquished by: Ethan Shock	Date/Time: 4/20/22	Received by:	Date/Time: 42022 1500	**Turn Around Time**	(Check)
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day ___	72 hours ___
				24 hours ___	Standard X
				48 hours ___	
Temperature Upon Receipt: 3.0		Corrected Temperature 3.0	HNO3 lot #	**Sample Integrity:**	
IR gun correction: 0		IR gun #: 1		Samples Intact: (Yes) No	

Notes:

S2

2/2

Sample Receipt Checklist

S2 Work Order# 2204305

Client: Fremont **Client Project ID:** Noble-Webster 15-28

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

	–			

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

Temp (°C) 3.0 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.	–			on ice
Were all samples received intact [1]?	–			
Was adequate sample volume provided [1]?	–			
If custody seals are present, are they intact [1]?	–			
Are samples due within 48 hours present?		–		
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			–	
Is a chain-of-custody (COC) form present and filled out completely [1]?	–			
Does the COC agree with the number and type of sample bottles received [1]?	–			
Do the sample IDs on the bottle labels match the COC [1]?	–			
Is the COC properly relinquished by the client w/ date and time recorded [1]?	–			
For volatiles in water – is there headspace present? **If yes, contact client and note in narrative.**		–		
Are samples preserved that require preservation **(excluding cooling)** [1]? Note the type of preservative in the comments column – HCl, H_2SO_4, NaOH, HNO_3, etc.			–	
If samples are acid preserved for metals, is the pH ≤ 2[1]? Record the pH in Comments.			–	
If dissolved metals are requested, were samples field filtered?			–	
Additional Comments (if any):				

[1] **If NO, then contact the client before proceeding with analysis and note in case narrative.**

Custodian Printed Name

4/20/22

Date/Time

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-1 2ft

2204305-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0484	04/22/22	04/24/22	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	**0.56**	0.50	"	"	"	"	"	"	

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*83.8 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8		*99.2 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0485	04/22/22	04/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*113 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-1 2ft

2204305-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0519	04/25/22	04/26/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		*60.1 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10		*59.6 %*	*40-150*		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**3.54**	0.200	mg/kg dry	1	BFD0565	04/26/22	05/01/22	EPA 6020B	
Selenium	**0.617**	0.260	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-1 2ft

2204305-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**83.6**		%	1	BFD0590	04/27/22	04/27/22	Calculation	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-1 16ft

2204305-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0484	04/22/22	04/23/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8		*88.4 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.2 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0485	04/22/22	04/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*116 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-1 16ft

2204305-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0519	04/25/22	04/26/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		*70.0 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10		*64.9 %*	*40-150*		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**85.5**		%	1	BFD0590	04/27/22	04/27/22	Calculation	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-2 2ft

2204305-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0484	04/22/22	04/23/22	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	**6.2**	0.50	"	"	"	"	"	"	

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*83.0 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8		*94.9 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**370**	50	mg/kg	1	BFD0485	04/22/22	04/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*113 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-2 2ft

2204305-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	**0.00888**	0.00500	mg/kg	1	BFD0519	04/25/22	04/26/22	EPA 8270D SIM	
Anthracene	**0.0150**	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	**0.00751**	0.00500	"	"	"	"	"	"	

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		*40.9 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10		*48.5 %*	*40-150*		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**88.9**		%	1	BFD0590	04/27/22	04/27/22	Calculation	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-2 8ft

2204305-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0484	04/22/22	04/23/22	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	**8.5**	0.50	"	"	"	"	"	"	

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*99.9 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8		*64.3 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0485	04/22/22	04/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*112 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-2 8ft

2204305-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	**0.0146**	0.00500	mg/kg	1	BFD0519	04/25/22	04/26/22	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	**0.0305**	0.00500	"	"	"	"	"	"	

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		*51.7 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10		*42.5 %*	*40-150*		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**80.4**		%	1	BFD0590	04/27/22	04/27/22	Calculation	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-3 2ft

2204305-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0484	04/22/22	04/23/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*87.2 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8		*99.3 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.6 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0485	04/22/22	04/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*112 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-3 2ft

2204305-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0519	04/25/22	04/26/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		*55.4 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10		*50.7 %*	*40-150*		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**87.5**		%	1	BFD0590	04/27/22	04/27/22	Calculation	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-3 8ft

2204305-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0484	04/22/22	04/24/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*84.0 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8		*98.1 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0485	04/22/22	04/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*113 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-3 8ft

2204305-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0519	04/25/22	04/26/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		*60.3 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10		*62.0 %*	*40-150*		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**85.8**		%	1	BFD0590	04/27/22	04/27/22	Calculation	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-4 2ft

2204305-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0484	04/22/22	04/24/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*59.9 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8		*83.9 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.6 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0485	04/22/22	04/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*111 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-4 2ft

2204305-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0519	04/25/22	04/26/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		*52.6 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10		*52.9 %*	*40-150*		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**88.2**		%	1	BFD0590	04/27/22	04/27/22	Calculation	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-4 8ft

2204305-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0484	04/22/22	04/24/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*83.9 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8		*99.4 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.7 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0485	04/22/22	04/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*111 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-4 8ft

2204305-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0519	04/25/22	04/26/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		*57.2 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10		*58.2 %*	*40-150*		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**83.1**		%	1	BFD0590	04/27/22	04/27/22	Calculation	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-5 2ft

2204305-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0484	04/22/22	04/24/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*85.6 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8		*98.4 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*140 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0485	04/22/22	04/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*109 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-5 2ft

2204305-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0519	04/25/22	04/26/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		*59.1 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10		*55.6 %*	*40-150*		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**89.8**		%	1	BFD0590	04/27/22	04/27/22	Calculation	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-5 8ft

2204305-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0484	04/22/22	04/24/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*80.9 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8		*99.7 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.9 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0485	04/22/22	04/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*112 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-5 8ft

2204305-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0519	04/25/22	04/26/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		*70.6 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10		*62.2 %*	*40-150*		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**82.4**		%	1	BFD0590	04/27/22	04/27/22	Calculation	

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

BKG-1 1ft

2204305-11 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	**3.69**	0.200	mg/kg dry	1	BFD0565	04/26/22	05/01/22	EPA 6020B	
Selenium	**0.803**	0.260	"	"	"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**89.3**		%	1	BFD0590	04/27/22	04/27/22	Calculation	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-1

2204305-12 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BFD0506	04/22/22	04/23/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*21-167*		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**32.6**	12.0	mg/L	200	BFD0529	04/25/22	04/27/22	EPA 300.0	
Sulfate	**368**	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**1050**	10.0	mg/L	1	BFD0469	04/21/22	04/21/22	SM2540C	

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-2

2204305-13 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**12**	1.0	ug/l	1	BFD0506	04/22/22	04/23/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*21-167*		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**34.6**	12.0	mg/L	200	BFD0529	04/25/22	04/27/22	EPA 300.0	
Sulfate	**370**	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**900**	10.0	mg/L	1	BFD0469	04/21/22	04/21/22	SM2540C	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-3

2204305-14 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BFD0506	04/22/22	04/23/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*21-167*		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**47.0**	12.0	mg/L	200	BFD0529	04/25/22	04/27/22	EPA 300.0	
Sulfate	**430**	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**998**	10.0	mg/L	1	BFD0469	04/21/22	04/21/22	SM2540C	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-4

2204305-15 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BFD0506	04/22/22	04/23/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*110 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*98.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*21-167*		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**38.2**	12.0	mg/L	200	BFD0529	04/25/22	04/27/22	EPA 300.0	
Sulfate	**436**	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**1020**	10.0	mg/L	1	BFD0469	04/21/22	04/21/22	SM2540C	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

MW-5

2204305-16 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BFD0506	04/22/22	04/23/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*21-167*		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**53.2**	12.0	mg/L	200	BFD0529	04/25/22	04/27/22	EPA 300.0	
Sulfate	**493**	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**1130**	10.0	mg/L	1	BFD0469	04/21/22	04/21/22	SM2540C	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

SB-6 2ft

2204305-17 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0484	04/22/22	04/24/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*85.6 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8		*99.8 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.3 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0485	04/22/22	04/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*104 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

SB-6 2ft

2204305-17 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0519	04/25/22	04/26/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		*65.3 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10		*57.6 %*	*40-150*		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**89.3**		%	1	BFD0590	04/27/22	04/27/22	Calculation	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

SB-6 8ft

2204305-18 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFD0484	04/22/22	04/24/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*84.8 %*	*50-150*		"	"	"	"	
Surrogate: Toluene-d8		*99.4 %*	*50-150*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.3 %*	*50-150*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFD0485	04/22/22	04/23/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*114 %*	*30-150*		"	"	"	"	

PAH by EPA Method 8270D SIM

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

SB-6 8ft

2204305-18 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFD0519	04/25/22	04/26/22	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: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		*63.0 %*	*40-150*		"	"	"	"	
Surrogate: Fluoranthene-d10		*57.8 %*	*40-150*		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/15/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	**83.3**		%	1	BFD0590	04/27/22	04/27/22	Calculation	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFD0484 - EPA 5030 Soil MS										
Blank (BFD0484-BLK1)				Prepared: 04/22/22 Analyzed: 04/23/22						
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	*0.0357*		*"*	*0.0400*		*89.3*	*50-150*			
Surrogate: Toluene-d8	*0.0432*		*"*	*0.0400*		*108*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0443*		*"*	*0.0400*		*111*	*50-150*			
LCS (BFD0484-BS1)				Prepared: 04/22/22 Analyzed: 04/23/22						
Benzene	0.0909	0.0020	mg/kg	0.0750		121	70-130			
Toluene	0.0905	0.0050	"	0.0750		121	70-130			
Ethylbenzene	0.0885	0.0050	"	0.0750		118	70-130			
m,p-Xylene	0.176	0.010	"	0.150		117	70-130			
o-Xylene	0.0867	0.0050	"	0.0750		116	70-130			
1,2,4-Trimethylbenzene	0.0902	0.0050	"	0.0750		120	70-130			
1,3,5-Trimethylbenzene	0.0869	0.0050	"	0.0750		116	70-130			
Naphthalene	0.0760	0.0038	"	0.0750		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0320*		*"*	*0.0400*		*79.9*	*50-150*			
Surrogate: Toluene-d8	*0.0389*		*"*	*0.0400*		*97.4*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0371*		*"*	*0.0400*		*92.8*	*50-150*			
Matrix Spike (BFD0484-MS1)	**Source: 2204305-01**			Prepared: 04/22/22 Analyzed: 04/24/22						
Benzene	0.0716	0.0020	mg/kg	0.0750	ND	95.5	70-130			
Toluene	0.0682	0.0050	"	0.0750	ND	91.0	70-130			
Ethylbenzene	0.0544	0.0050	"	0.0750	ND	72.5	70-130			
m,p-Xylene	0.124	0.010	"	0.150	ND	82.7	70-130			
o-Xylene	0.0642	0.0050	"	0.0750	ND	85.6	70-130			
1,2,4-Trimethylbenzene	0.0787	0.0050	"	0.0750	ND	105	70-130			
1,3,5-Trimethylbenzene	0.0856	0.0050	"	0.0750	ND	114	70-130			
Naphthalene	0.0718	0.0038	"	0.0750	ND	95.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0315*		*"*	*0.0400*		*78.8*	*50-150*			
Surrogate: Toluene-d8	*0.0403*		*"*	*0.0400*		*101*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0391*		*"*	*0.0400*		*97.7*	*50-150*			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFD0484 - EPA 5030 Soil MS										
Matrix Spike Dup (BFD0484-MSD1)	**Source: 2204305-01**			Prepared: 04/22/22 Analyzed: 04/24/22						
Benzene	0.0608	0.0020	mg/kg	0.0750	ND	81.0	70-130	16.5	30	
Toluene	0.0602	0.0050	"	0.0750	ND	80.2	70-130	12.6	30	
Ethylbenzene	0.0652	0.0050	"	0.0750	ND	86.9	70-130	18.1	30	
m,p-Xylene	0.133	0.010	"	0.150	ND	88.5	70-130	6.78	30	
o-Xylene	0.0596	0.0050	"	0.0750	ND	79.4	70-130	7.46	30	
1,2,4-Trimethylbenzene	0.0628	0.0050	"	0.0750	ND	83.8	70-130	22.5	30	
1,3,5-Trimethylbenzene	0.0812	0.0050	"	0.0750	ND	108	70-130	5.25	30	
Naphthalene	0.0871	0.0038	"	0.0750	ND	116	70-130	19.3	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0328*		*"*	*0.0400*		*82.0*	*50-150*			
Surrogate: Toluene-d8	*0.0402*		*"*	*0.0400*		*101*	*50-150*			
Surrogate: 4-Bromofluorobenzene	*0.0412*		*"*	*0.0400*		*103*	*50-150*			
Batch BFD0506 - EPA 5030 Water MS										
Blank (BFD0506-BLK1)				Prepared: 04/22/22 Analyzed: 04/23/22						
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	*13.4*		*"*	*13.3*		*100*	*23-173*			
Surrogate: Toluene-d8	*13.5*		*"*	*13.3*		*101*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.9*		*"*	*13.3*		*105*	*21-167*			
LCS (BFD0506-BS1)				Prepared: 04/22/22 Analyzed: 04/23/22						
Benzene	33.5	1.0	ug/l	33.3		101	51-132			
Toluene	31.2	1.0	"	33.3		93.5	51-138			
Ethylbenzene	35.3	1.0	"	33.3		106	58-146			
m,p-Xylene	68.0	2.0	"	66.7		102	57-144			
o-Xylene	32.5	1.0	"	33.3		97.6	53-146			
Naphthalene	37.5	1.0	"	33.3		112	70-130			
1,2,4-Trimethylbenzene	33.0	1.0	"	33.3		99.1	70-130			
1,3,5-Trimethylbenzene	31.7	1.0	"	33.3		95.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	*13.2*		*"*	*13.3*		*99.3*	*23-173*			
Surrogate: Toluene-d8	*13.6*		*"*	*13.3*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.6*		*"*	*13.3*		*102*	*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.

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFD0506 - EPA 5030 Water MS										
Matrix Spike (BFD0506-MS1)	**Source: 2204305-15**			Prepared: 04/22/22 Analyzed: 04/23/22						
Benzene	36.9	1.0	ug/l	33.3	ND	111	34-141			
Toluene	34.6	1.0	"	33.3	ND	104	27-151			
Ethylbenzene	39.7	1.0	"	33.3	ND	119	29-160			
m,p-Xylene	75.5	2.0	"	66.7	ND	113	20-166			
o-Xylene	36.3	1.0	"	33.3	ND	109	33-159			
Naphthalene	34.7	1.0	"	33.3	ND	104	70-130			
1,2,4-Trimethylbenzene	36.5	1.0	"	33.3	ND	110	70-130			
1,3,5-Trimethylbenzene	35.4	1.0	"	33.3	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	*12.3*		*"*	*13.3*		*92.2*	*23-173*			
Surrogate: Toluene-d8	*13.5*		*"*	*13.3*		*101*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.3*		*"*	*13.3*		*99.8*	*21-167*			
Matrix Spike Dup (BFD0506-MSD1)	**Source: 2204305-15**			Prepared: 04/22/22 Analyzed: 04/23/22						
Benzene	37.2	1.0	ug/l	33.3	ND	112	34-141	0.864	30	
Toluene	35.1	1.0	"	33.3	ND	105	27-151	1.41	30	
Ethylbenzene	40.3	1.0	"	33.3	ND	121	29-160	1.45	30	
m,p-Xylene	78.0	2.0	"	66.7	ND	117	20-166	3.17	30	
o-Xylene	37.0	1.0	"	33.3	ND	111	33-159	2.13	30	
Naphthalene	35.6	1.0	"	33.3	ND	107	70-130	2.59	30	
1,2,4-Trimethylbenzene	37.8	1.0	"	33.3	ND	113	70-130	3.45	30	
1,3,5-Trimethylbenzene	36.7	1.0	"	33.3	ND	110	70-130	3.49	30	
Surrogate: 1,2-Dichloroethane-d4	*11.8*		*"*	*13.3*		*88.4*	*23-173*			
Surrogate: Toluene-d8	*13.5*		*"*	*13.3*		*101*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.2*		*"*	*13.3*		*98.6*	*21-167*			

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFD0485 - EPA 3550A										
Blank (BFD0485-BLK1)				Prepared: 04/22/22 Analyzed: 04/23/22						
C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
LCS (BFD0485-BS1)				Prepared: 04/22/22 Analyzed: 04/23/22						
C10-C28 (DRO)	412	50	mg/kg	500		82.3	70-130			
Matrix Spike (BFD0485-MS1)	**Source: 2204305-01**			Prepared: 04/22/22 Analyzed: 04/23/22						
C10-C28 (DRO)	454	50	mg/kg	500	24.8	85.9	70-130			
Matrix Spike Dup (BFD0485-MSD1)	**Source: 2204305-01**			Prepared: 04/22/22 Analyzed: 04/23/22						
C10-C28 (DRO)	434	50	mg/kg	500	24.8	81.9	70-130	4.52	20	

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFD0519 - EPA 5030 Soil MS										
Blank (BFD0519-BLK1)				Prepared: 04/25/22 Analyzed: 04/26/22						
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	*0.0279*		*"*	*0.0333*		*83.6*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0263*		*"*	*0.0333*		*78.9*	*40-150*			
LCS (BFD0519-BS1)				Prepared: 04/25/22 Analyzed: 04/26/22						
Acenaphthene	0.0317	0.00500	mg/kg	0.0333		95.1	31-137			
Anthracene	0.0300	0.00500	"	0.0333		89.9	30-120			
Benzo (a) anthracene	0.0310	0.00500	"	0.0333		93.0	30-120			
Benzo (a) pyrene	0.0325	0.00500	"	0.0333		97.5	30-120			
Benzo (b) fluoranthene	0.0320	0.00500	"	0.0333		96.1	30-120			
Benzo (k) fluoranthene	0.0339	0.00500	"	0.0333		102	30-120			
Chrysene	0.0320	0.00500	"	0.0333		95.9	30-120			
Dibenz (a,h) anthracene	0.0317	0.00500	"	0.0333		95.0	30-120			
Fluoranthene	0.0310	0.00500	"	0.0333		93.1	30-120			
Fluorene	0.0316	0.00500	"	0.0333		94.8	30-120			
Indeno (1,2,3-cd) pyrene	0.0221	0.00500	"	0.0333		66.4	30-120			
Pyrene	0.0321	0.00500	"	0.0333		96.3	35-142			
1-Methylnaphthalene	0.0350	0.00500	"	0.0333		105	35-142			
2-Methylnaphthalene	0.0316	0.00500	"	0.0333		94.9	35-142			
Surrogate: 2-Methylnaphthalene-d10	*0.0320*		*"*	*0.0333*		*96.0*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0322*		*"*	*0.0333*		*96.7*	*40-150*			

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFD0519 - EPA 5030 Soil MS										
Matrix Spike (BFD0519-MS1)	**Source: 2204305-01**			Prepared: 04/25/22 Analyzed: 04/27/22						
Acenaphthene	0.0167	0.00500	mg/kg	0.0333	ND	50.1	31-137			
Anthracene	0.0251	0.00500	"	0.0333	ND	75.3	30-120			
Benzo (a) anthracene	0.0205	0.00500	"	0.0333	ND	61.6	30-120			
Benzo (a) pyrene	0.0216	0.00500	"	0.0333	ND	64.8	30-120			
Benzo (b) fluoranthene	0.0250	0.00500	"	0.0333	ND	75.1	30-120			
Benzo (k) fluoranthene	0.0260	0.00500	"	0.0333	ND	77.9	30-120			
Chrysene	0.0258	0.00500	"	0.0333	ND	77.4	30-120			
Dibenz (a,h) anthracene	0.0217	0.00500	"	0.0333	ND	65.0	30-120			
Fluoranthene	0.0264	0.00500	"	0.0333	ND	79.1	30-120			
Fluorene	0.0186	0.00500	"	0.0333	ND	55.7	30-120			
Indeno (1,2,3-cd) pyrene	0.0168	0.00500	"	0.0333	ND	50.3	30-120			
Pyrene	0.0332	0.00500	"	0.0333	ND	99.6	35-142			
1-Methylnaphthalene	0.0259	0.00500	"	0.0333	ND	77.6	15-130			
2-Methylnaphthalene	0.0217	0.00500	"	0.0333	ND	65.1	15-130			
Surrogate: 2-Methylnaphthalene-d10	*0.0172*		*"*	*0.0333*		*51.5*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0200*		*"*	*0.0333*		*59.9*	*40-150*			
Matrix Spike Dup (BFD0519-MSD1)	**Source: 2204305-01**			Prepared: 04/25/22 Analyzed: 04/27/22						
Acenaphthene	0.0153	0.00500	mg/kg	0.0333	ND	45.9	31-137	8.73	30	
Anthracene	0.0245	0.00500	"	0.0333	ND	73.4	30-120	2.66	30	
Benzo (a) anthracene	0.0208	0.00500	"	0.0333	ND	62.4	30-120	1.44	30	
Benzo (a) pyrene	0.0202	0.00500	"	0.0333	ND	60.5	30-120	6.90	30	
Benzo (b) fluoranthene	0.0237	0.00500	"	0.0333	ND	71.1	30-120	5.40	30	
Benzo (k) fluoranthene	0.0257	0.00500	"	0.0333	ND	77.0	30-120	1.22	30	
Chrysene	0.0271	0.00500	"	0.0333	ND	81.2	30-120	4.81	30	
Dibenz (a,h) anthracene	0.0182	0.00500	"	0.0333	ND	54.6	30-120	17.4	30	
Fluoranthene	0.0302	0.00500	"	0.0333	ND	90.5	30-120	13.4	30	
Fluorene	0.0190	0.00500	"	0.0333	ND	57.1	30-120	2.46	30	
Indeno (1,2,3-cd) pyrene	0.0183	0.00500	"	0.0333	ND	54.8	30-120	8.59	30	
Pyrene	0.0329	0.00500	"	0.0333	ND	98.8	35-142	0.775	30	
1-Methylnaphthalene	0.0288	0.00500	"	0.0333	ND	86.4	15-130	10.7	50	
2-Methylnaphthalene	0.0206	0.00500	"	0.0333	ND	61.9	15-130	5.07	50	
Surrogate: 2-Methylnaphthalene-d10	*0.0185*		*"*	*0.0333*		*55.4*	*40-150*			
Surrogate: Fluoranthene-d10	*0.0204*		*"*	*0.0333*		*61.1*	*40-150*			

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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 - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

Total Metals by EPA 6020B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFD0565 - EPA 3050B										
Blank (BFD0565-BLK1)				Prepared: 04/26/22 Analyzed: 05/01/22						
Arsenic	ND	0.200	mg/kg wet							
Selenium	ND	0.260	"							
LCS (BFD0565-BS1)				Prepared: 04/26/22 Analyzed: 05/01/22						
Arsenic	33.2	0.200	mg/kg wet				80-120			
Selenium	3.19	0.260	"				80-120			
Duplicate (BFD0565-DUP1)	**Source: 2204305-01**			Prepared: 04/26/22 Analyzed: 05/01/22						
Arsenic	3.26	0.200	mg/kg dry		3.54			8.21	20	
Selenium	0.439	0.260	"		0.617			33.7	20	QR-01
Matrix Spike (BFD0565-MS1)	**Source: 2204305-01**			Prepared: 04/26/22 Analyzed: 05/01/22						
Arsenic	41.4	0.200	mg/kg dry		3.54		75-125			
Selenium	3.50	0.260	"		0.617		75-125			
Matrix Spike Dup (BFD0565-MSD1)	**Source: 2204305-01**			Prepared: 04/26/22 Analyzed: 05/01/22						
Arsenic	43.3	0.200	mg/kg dry		3.54		75-125	4.58	25	
Selenium	3.59	0.260	"		0.617		75-125	2.44	25	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

Anions by EPA Method 300.0 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFD0529 - General Preparation										
Blank (BFD0529-BLK1)				Prepared: 04/25/22 Analyzed: 04/27/22						
Chloride	ND	0.0600	mg/L							
Sulfate	ND	0.300	"							
LCS (BFD0529-BS1)				Prepared: 04/25/22 Analyzed: 04/27/22						
Chloride	3.16	0.0600	mg/L	3.00		105	90-110			
Sulfate	15.6	0.300	"	15.0		104	90-110			
Duplicate (BFD0529-DUP1)	**Source: 2204295-34**			Prepared: 04/25/22 Analyzed: 04/27/22						
Chloride	318	12.0	mg/L		322			1.44	20	
Sulfate	2800	60.0	"		2890			3.10	20	
Matrix Spike (BFD0529-MS1)	**Source: 2204295-34**			Prepared: 04/25/22 Analyzed: 04/27/22						
Chloride	966	12.0	mg/L	600	322	107	80-120			
Sulfate	5870	60.0	"	3000	2890	99.3	80-120			

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFD0590 - General Preparation										
Duplicate (BFD0590-DUP1)		**Source: 2204305-01**		Prepared & Analyzed: 04/27/22						
% Solids	83.9		%		83.6			0.337	20	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

Total Dissolved Solids by SM2540C - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFD0469 - General Preparation										
Blank (BFD0469-BLK1)				Prepared & Analyzed: 04/21/22						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (BFD0469-DUP1)		**Source: 2204280-01**		Prepared & Analyzed: 04/21/22						
Total Dissolved Solids	1480	10.0	mg/L		1530			3.59	20	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Webster 15-28 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 05/02/22 13:03

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