FREMONT ENVIRONMENTAL INC.

June 19, 2020

Mr. Jacob Evans
Noble Energy Inc.
2115 117th Ave,
Greeley, CO 80634

Subject: **Site Investigation Report**
McDermed 2-1
API # 05-123-12223
NWNE Sec 1, T4N, R64W
Weld County, Colorado
Fremont Project No. C020-022
Facility #322891, Remediation #15399

Dear Mr. Evans:

Enclosed please find a copy of the above referenced Site Investigation Report for the McDermed 2-1 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.

MCDERMED 2-1

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C020-022

FACILITY #322891, REMEDIATION #15399

Prepared by:

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

June 19, 2020

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NOBLE ENERGY INC.

MCDERMED 2-1

WELD COUNTY, COLORADO

FREMONT PROJECT NO. C020-022

FACILITY #322891, REMEDIATION #15399

1.0 INTRODUCTION

The purpose of this document is to present information collected during a site investigation at the McDermed 2-1 release location in Weld County, Colorado. Impacted soil and groundwater were identified at the water vault location during its abandonment. Eight monitoring wells were installed at this site on May 27, 2020 to delineate the magnitude and extent of subsurface impacts.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The McDermed site is located approximately four and a half miles southeast of Kersey, Colorado in Weld County as shown on Figure 1. The site is located in an agricultural area approximately 3.7 miles east of the intersection of County Road 50 and County Road 53. The location is further described as the NW ¼ of the NE ¼ of Section 1, Township 4N, Range 64W.

2.2 Site History

The site's excavation area consisted of the former McDermed 2-1 water vault. The McDermed 2-1 well was drilled in 1984 to a vertical depth of approximately 6,791 feet. Soil impacts were identified at the water vault location during its abandonment.

During the facility abandonment, a limited excavation to preliminarily delineate the source impacts was undertaken. One groundwater sample and 11 soil samples were

collected from the excavation sidewalls, floor and test pits and analyzed for petroleum constituents. Laboratory analyses of the soil and groundwater samples indicated that petroleum constituent concentrations of benzene, xylenes and total petroleum hydrocarbons (TPH) were greater than the Colorado Oil and Gas Conservation Commission's (COGCC's) Table 910-1 limits in both the soil and groundwater samples. As a result, a site investigation to determine the extent of subsurface impacts was conducted.

3.0 SITE INVESTIGATION ACTIVITIES

3.1 Soil Borings/Monitoring Wells

A site investigation was conducted at the facility on May 27, 2020. A total of eight soil borings were advanced utilizing a Geoprobe rig. In addition, one hand augered boring was advanced within the bermed area. The eight borings were completed as flush-mounted 1-inch diameter monitoring wells. These borings/monitoring wells were used to delineate the extent of soil and groundwater impacts at the site. The locations of the monitoring wells are illustrated on the attached figures.

Generally, the subsurface consists of sandy clay that extends to a depth of approximately four feet. The sandy clay is underlain by moist, sand, silty-sand and clay extending seven feet, transitioning to a coarse sand between 11 feet and 16 feet. The maximum depth of the borings was 16 feet. Groundwater is present across the site at a depth of approximately 7.5 feet. Geologic cross sections illustrating the soil lithology are presented on Figure 3.

The 1-inch diameter monitoring wells were constructed with 10 feet sections of well screen that were placed at a total depth of approximately 13 feet and completed at the

ground surface with flush-mounted vaults. Soil samples from each of the borings were evaluated in the field using a photoionization detector (PID). Logs of the 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 benzene, toluene, ethylbenzene and xylenes (BTEX), naphthalene, total petroleum hydrocarbons-gasoline range organics (TPH-GRO), and TPH-diesel range organics (TPH-DRO).

Soil impacts above the COGCC's Table 910-1 limits for BTEX, naphthalene, TPH-GRO and TPH-DRO were not observed in the two of the eight borings. The soil chemistry is presented on Figure 4 and summarized on Table 1. The laboratory's report is provided in Appendix C.

3.2 Groundwater Monitoring

Groundwater levels were measured in the eight monitoring wells on May 27, 2020 in accordance with the Sampling Plan included in Appendix B. The data are summarized in Table 2.

Water table contours inferred from the May 2020 data are illustrated on Figure 5. Based on these data, groundwater is inferred to flow to the north. The water table gradient was calculated at approximately 0.004 feet per foot (ft/ft) for the May 2020 data.

3.3 Groundwater Sampling and Analysis

Groundwater samples were collected from the eight monitoring wells on May 27, 2020. All groundwater samples were submitted to Summit Scientific, Inc. for analyses of BTEX by EPA Method 8260C.

The groundwater concentrations for seven of the eight monitoring wells were below their respective COGCC Table 910-1 values. Monitoring well MW-1 had a benzene concentration of 29 ug/L which exceed the COGCC Table 910-1 limit of 5 ug/L. The groundwater chemistry is shown on Figure 6 and is summarized in Table 2. A copy of the laboratory's report is presented in Appendix C.

4.0 DISCUSSION

A site investigation was conducted at the McDermed 2-1 location on May 27, 2020 as a result of an historical release from the former water vault. Eight soil boings were advanced and completed as monitoring wells onsite to delineate the magnitude and extent of soil and groundwater impacts.

Soil and groundwater impacts above the COGCC Table 910-1 limits were observed and have been delineated during the site investigation. No additional excavation has been conducted following the facility's abandonment.

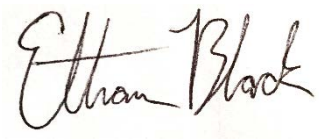
The data collected from the monitoring wells indicates that the groundwater flow direction is to the north. Further, the BTEX concentrations of seven of the eight monitoring wells were less than the COGCC Table 910-1 limits. Monitoring well MW-1 had a benzene concentration of 29 ug/L. The groundwater data are shown on Figure 6.

Noble will sample the groundwater at this site on a quarterly basis to evaluate the BTEX concentrations relative to COGCC's Table 910-1 requirements. After four consecutive quarters of COGCC-compliant BTEX concentrations, Noble will request closure of this site.

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.**



6/19/20

_____ Date_____

Ethan D. Black

Geologist

Reviewed by:

6/19/20

_____ Date_____

Paul V. Henehan, P.E.

Senior Consultant

TABLES

TABLE 1
SUMMARY OF SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
McDERMED 2-1, WELD COUNTY, COLORADO
FREMONT PROJECT C020-022

Sample	Depth (ft)	Date Sampled	Location	Benzene mg/kg	Toluene mg/kg	Ethyl-Benzene mg/kg	Xylenes mg/kg	Naphth-alene mg/kg	TPH GRO mg/kg	TPH DRO mg/kg
N Wall 4 Ft	4	4/7/2020	Wall	**0.21**	<0.005	0.57	13	2.0	**810**	**2200**
N Wall 2 Ft	2	4/7/2020	Wall	NA	NA	NA	NA	NA	NA	NA
S Wall 4 Ft	4	4/7/2020	Wall	<0.002	<0.005	<0.005	<0.01	<0.01	<50	160
E Wall 4 Ft	4	4/7/2020	Wall	0.028	<0.005	0.13	4.5	0.86	**1100**	**2000**
W Wall 4 Ft	4	4/7/2020	Wall	0.011	<0.005	0.031	0.46	0.25	89	360
Floor 5 Ft	5	4/7/2020	Floor	0.09	<0.005	0.22	0.59	0.3	220	240
Floor 7 Ft	7	4/7/2020	Floor	<0.002	<0.005	<0.005	<0.01	0.011	<50	310
Floor 10 Ft	10	4/7/2020	Floor	<0.002	<0.005	<0.005	<0.01	<0.01	<50	370
N Test Pit 6 Ft	6	4/7/2020	Floor	<0.002	<0.005	<0.005	<0.01	<0.01	<50	110
S Test Pit 6 Ft	6	4/7/2020	Floor	<0.002	<0.005	<0.005	<0.01	<0.01	<50	270
W Test Pit 7 Ft	7	4/7/2020	Floor	<0.002	<0.005	<0.005	<0.01	<0.01	<50	51
MW-1 2 Ft	2	5/27/2020	Floor	0.004	<0.005	<0.005	0.043	0.015	<50	**3100**
MW-1 6 Ft	6	5/27/2020	Floor	<0.002	<0.005	<0.005	<0.01	0.02	<50	<50
MW-2 6 Ft	6	5/27/2020	Floor	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50
MW-3 6 Ft	6	5/27/2020	Floor	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50
MW-4 4 Ft	4	5/27/2020	Floor	<0.002	<0.005	<0.005	<0.01	<0.01	<50	**830**
MW-4 6 Ft	4	5/27/2020	Floor	0.30	<0.005	0.28	2.0	0.33	200	**1700**
MW-5 6 Ft	6	5/27/2020	Floor	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50
MW-6 6 Ft	6	5/27/2020	Floor	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50
MW-7 6 Ft	6	5/27/2020	Floor	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50
MW-8 6 Ft	6	5/27/2020	Floor	<0.002	<0.005	<0.005	<0.01	<0.01	<50	<50
COGCC Table 910 Limits				0.17	85	100	175	23	500	500

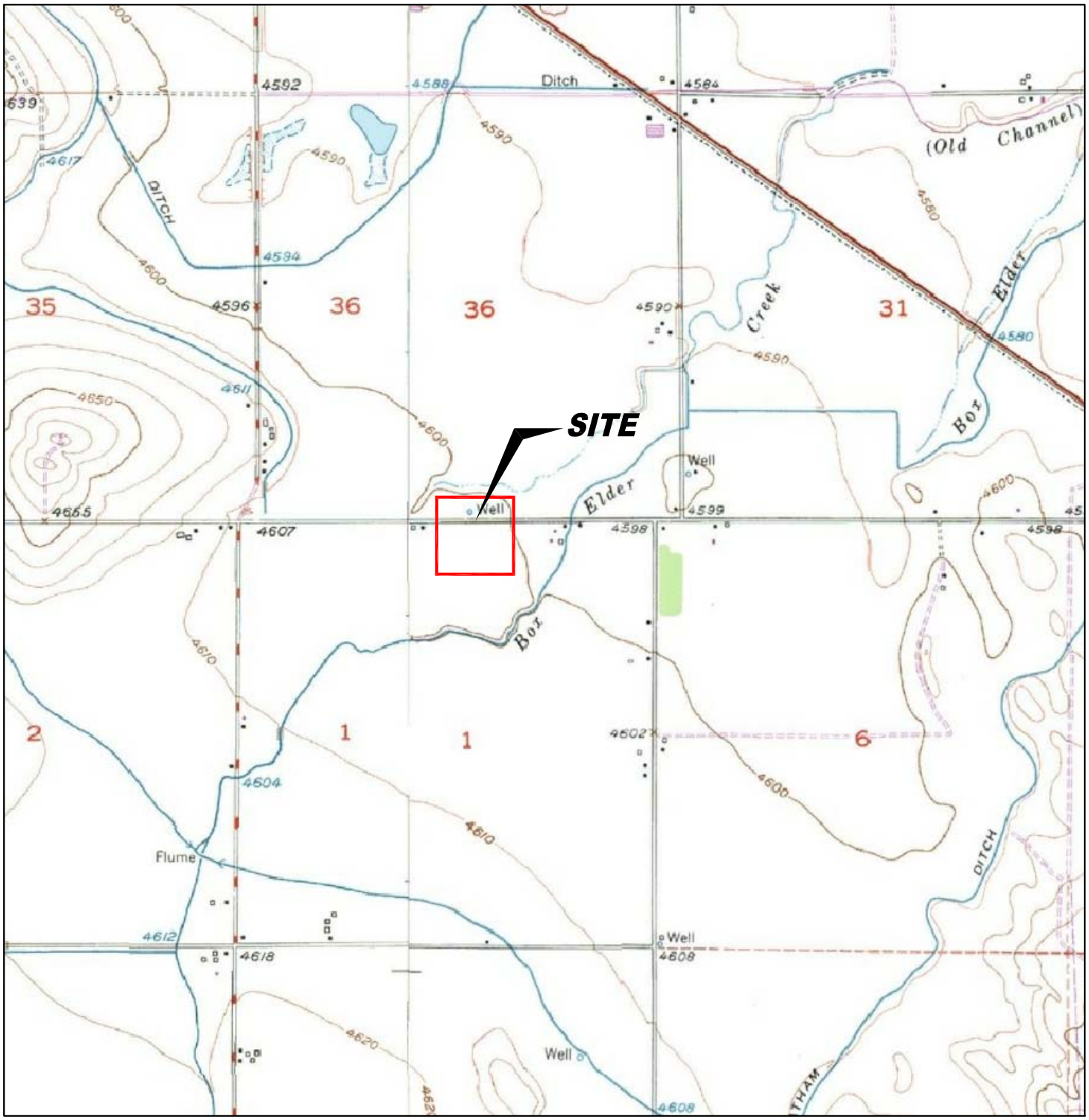
Bold faced values exceed the COGCC Table 910-1 concentrations

TABLE 2
SUMMARY OF GROUNDWATER CHEMISTRY DATA
NOBLE ENERGY INC.
McDERMED 2-1, WELD COUNTY, COLORADO
FREMONT PROJECT C020-022

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-1	05/27/20	**29**	<1.0	<1.0	<2.0	100.00	7.89	92.11	NP
MW-2	05/27/20	<1.0	<1.0	<1.0	<2.0	100.51	8.43	92.08	NP
MW-3	05/27/20	<1.0	<1.0	<1.0	<2.0	99.98	7.95	92.03	NP
MW-4	05/27/20	2.4	<1.0	2.2	35	100.08	8.06	92.02	NP
MW-5	05/27/20	<1.0	<1.0	<1.0	<2.0	99.58	7.65	91.93	NP
MW-6	05/27/20	<1.0	<1.0	<1.0	<1.0	99.68	7.58	92.10	NP
MW-7	05/27/20	<1.0	<1.0	<1.0	<2.0	99.40	7.17	92.23	NP
MW-8	05/27/20	<1.0	<1.0	<1.0	<2.0	99.66	7.31	92.35	NP
COGCC Table 910 Limits			5	560	700	1400			

Bold faced values exceed the COGCC Table 910-1 concentrations

FIGURES



N

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

USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY, INC. ~ McDERMED 2-1
NWNE Sec. 1, T4N, R64W ~ 40.34695°, -104.49421°
Weld County, Colorado

Project No.	Prepared by	Drawn by
CO20-022		**TA**
Date	Reviewed by	Filename
7/1/20	**PH**	**20022T**

FREMONT ENVIRONMENTAL

LEGEND

- MONITORING WELL
- HAND AUGURED WELL
- ABOVE GROUND STORAGE TANK
- CONCRETE BARRICADES
- FORMER — FORMER FACILITY
- BUILDING — BUILDING
- CONTAINMENT BERM
- CONTAINMENT WALL
- FENCE LINE
- EXTENT OF EXCAVATION

Figure 2

SITE MAP

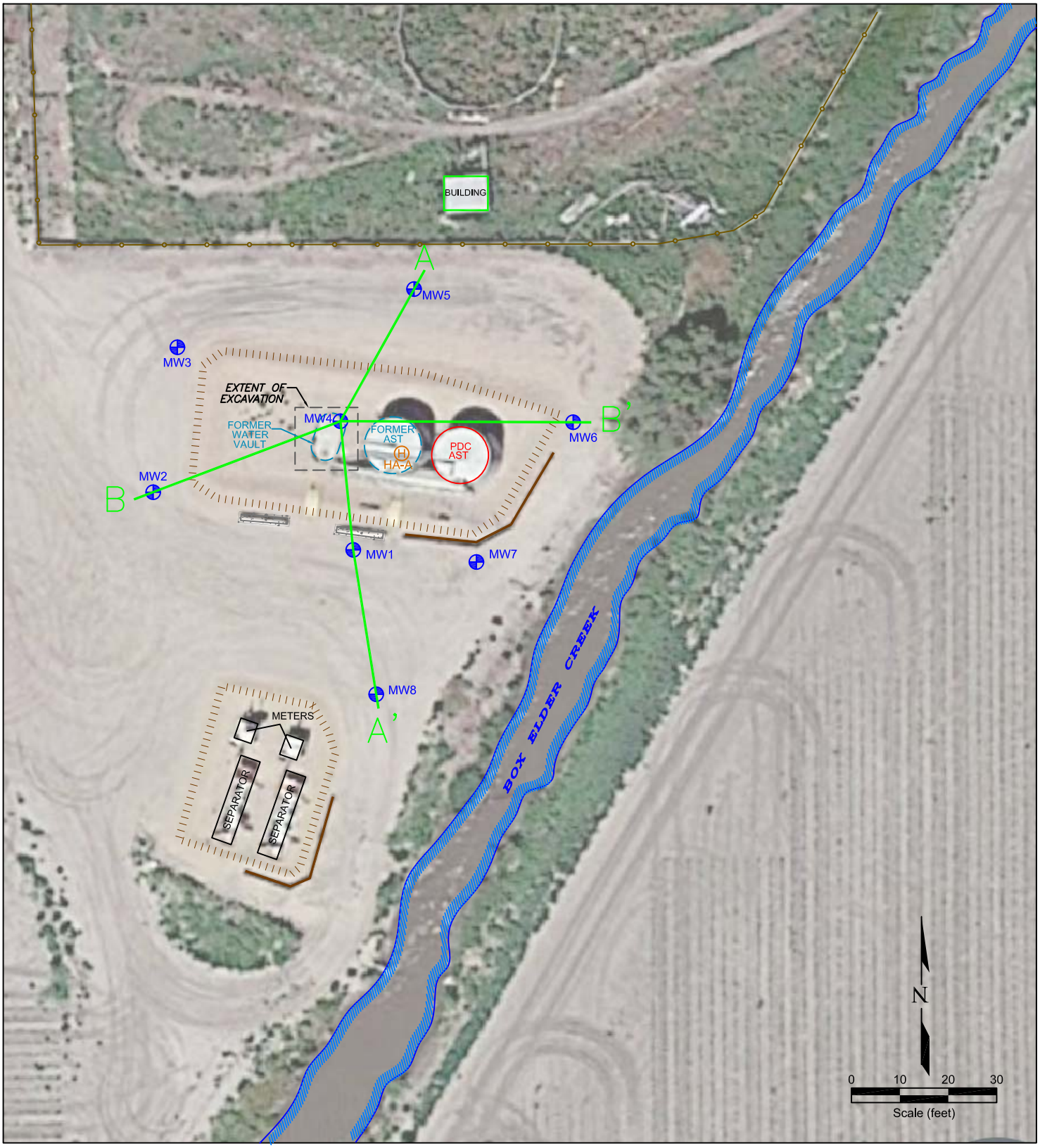
NOBLE ENERGY, INC. ~ McDERMED 2-1

NWNE Sec. 1, T4N, R64W ~ 40.34695°, -104.49421°

Weld County, Colorado

Project No.	Prepared by	Drawn by
CO20-022		**TA**
Date	Reviewed by	Filename
7/6/20	**PH**	**20022QQ**

FREMONT ENVIRONMENTAL



LEGEND

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- HAND AUGURED WELL
- ABOVE GROUND STORAGE TANK
- CONCRETE BARRICADES
- FORMER — FORMER FACILITY
- BUILDING — BUILDING
- CONTAINMENT BERM
- CONTAINMENT WALL
- FENCE LINE
- EXTENT OF EXCAVATION
- A — A' CUT LINE FOR CROSS SECTION

Figure 3

CROSS SECTIONS

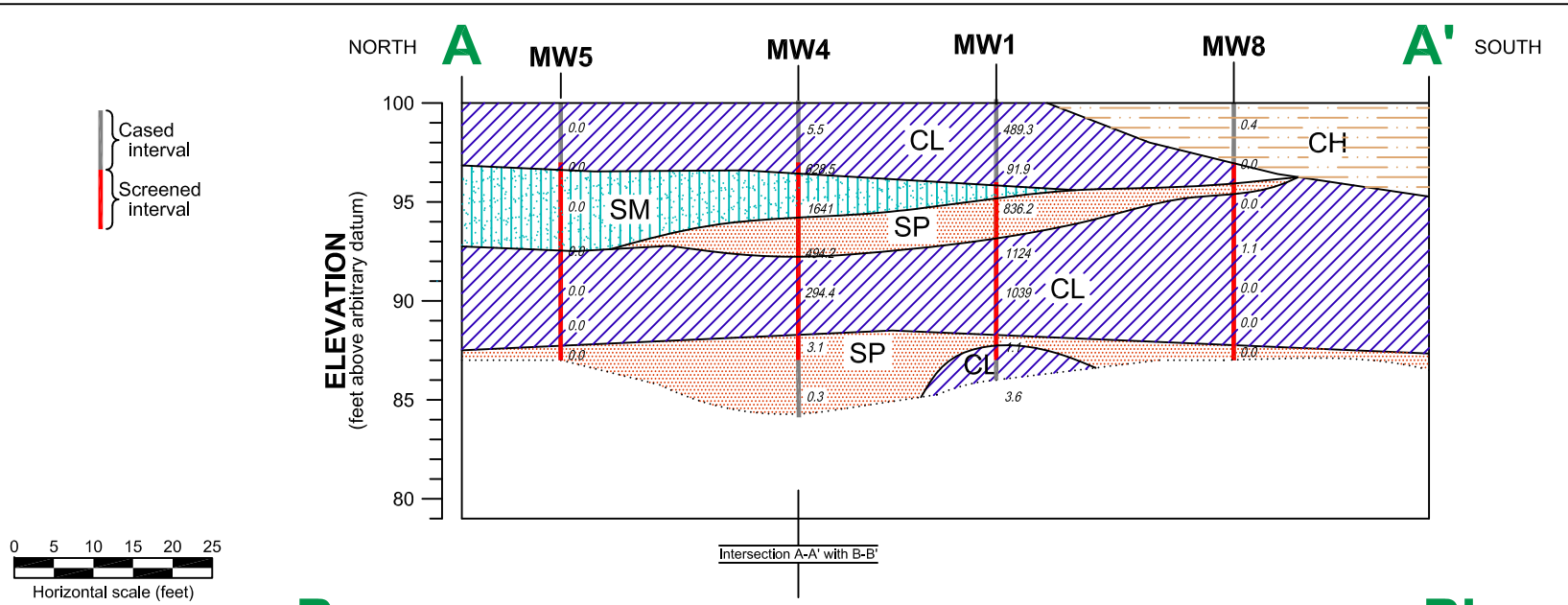
NOBLE ENERGY, INC. ~ McDERMED 2-1

NWNE Sec. 1, T4N, R64W ~ 40.34695°, -104.49421°

Weld County, Colorado

Project No.	Prepared by	Drawn by
CO20-022		**TA**
Date	Reviewed by	Filename
7/6/20	**PH**	**20022QQ**

FREMONT ENVIRONMENTAL



LEGEND

CL	Clay, low plasticity	SW	Sand, well-graded	S&G	Sand and Gravel
CL-ML	Clay, silty, low plasticity	CH	Sand, clayey	SP	Sand, poorly graded
ML	Silt, low plasticity	SM	Sand, silty		

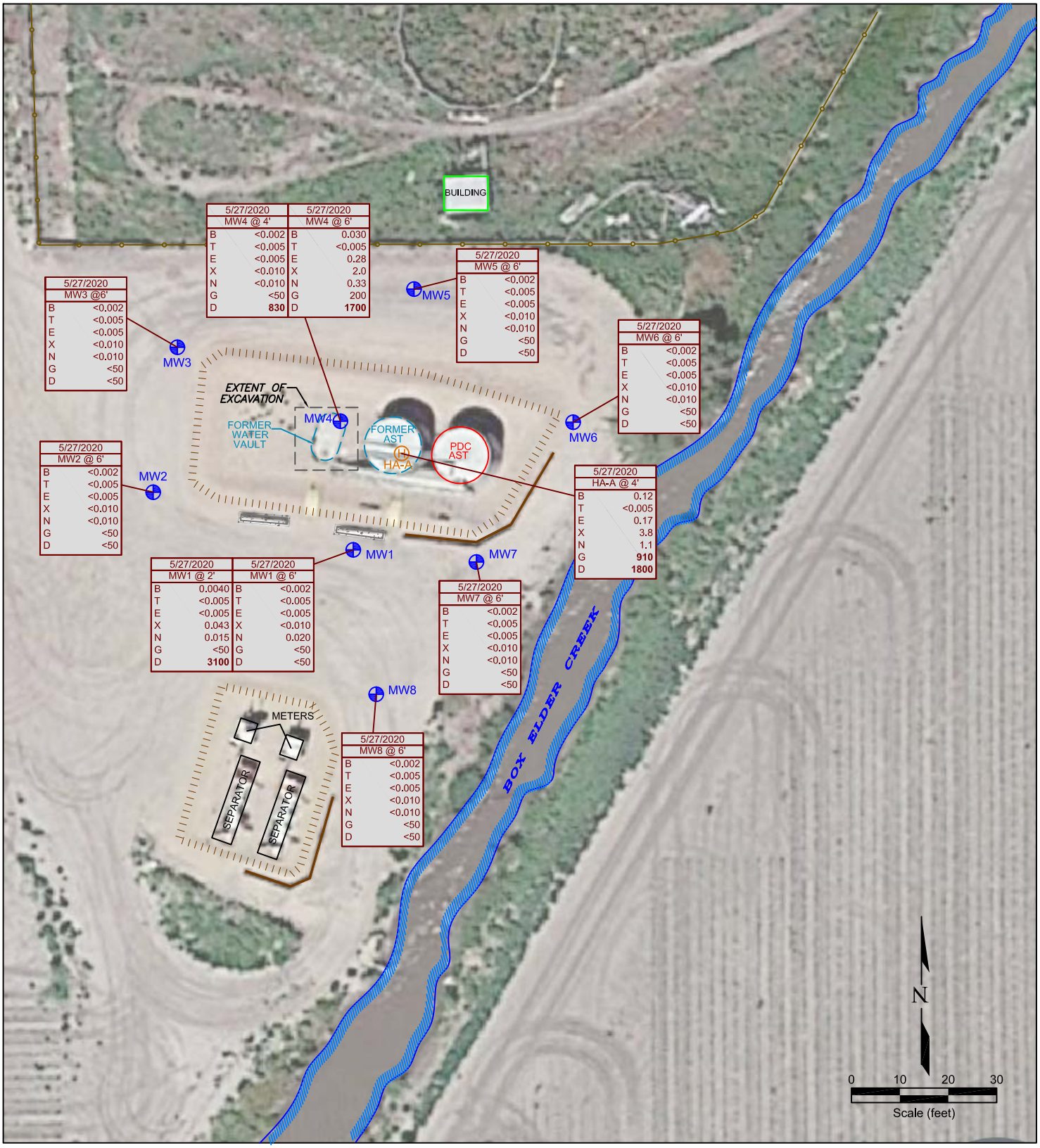
Figure 4

CROSS-SECTIONS A-A' & B-B'

NOBLE ENERGY, INC. ~ McDERMED 2-1
NWNE Sec. 1, T4N, R64W ~ 40.34695°, -104.49421°
Weld County, Colorado

Project No.	Prepared by	Drawn by
CO20-022		**TA**
Date	**Reviewed by**	**Filename**
7/1/20	**PH**	**20022X**

FREMONT ENVIRONMENTAL



LEGEND

- MONITORING WELL
- HAND AUGURED WELL
- ABOVE GROUND STORAGE TANK
- CONCRETE BARRICADES
- FORMER — FORMER FACILITY
- BUILDING — BUILDING
- CONTAINMENT BERM
- CONTAINMENT WALL
- FENCE LINE
- EXTENT OF EXCAVATION

5/27/2020 HA-A @ 4'	
B	0.12
T	<0.005
E	0.17
X	3.8
N	1.1
G	910
D	1800

DATE SAMPLED
SAMPLE ID & DEPTH
BENZENE (mg/kg)
TOLUENE (mg/kg)
ETHYLBENZENE (mg/kg)
TOTAL XYLENES (mg/kg)
NAPHTHALENE (mg/kg)
TPH-GRO (mg/kg)
TPH-DRO (mg/kg)

Figure 5
SOIL CHEMISTRY MAP
May 27, 2020

NOBLE ENERGY, INC. ~ McDERMED 2-1
NWNE Sec. 1, T4N, R64W ~ 40.34695°, -104.49421°
Weld County, Colorado

Project No.	Prepared by	Drawn by
CO20-022		**TA**
Date	Reviewed by	Filename
7/6/20	**PH**	**20022QQ**

FREMONT ENVIRONMENTAL

LEGEND

- MONITORING WELL
- HAND AUGURED WELL
- ABOVE GROUND STORAGE TANK
- CONCRETE BARRICADES
- FORMER FACILITY
- BUILDING
- (93.54) GROUND WATER ELEVATION (feet above mean sea level)
- 93.30 WATER TABLE CONTOUR (feet above mean sea level)
- INFERRED GROUND WATER FLOW DIRECTION
- CONTAINMENT BERM
- CONTAINMENT WALL
- FENCE LINE
- EXTENT OF EXCAVATION

Figure 6

INFERRED GROUNDWATER CONTOUR MAP

May 27, 2020

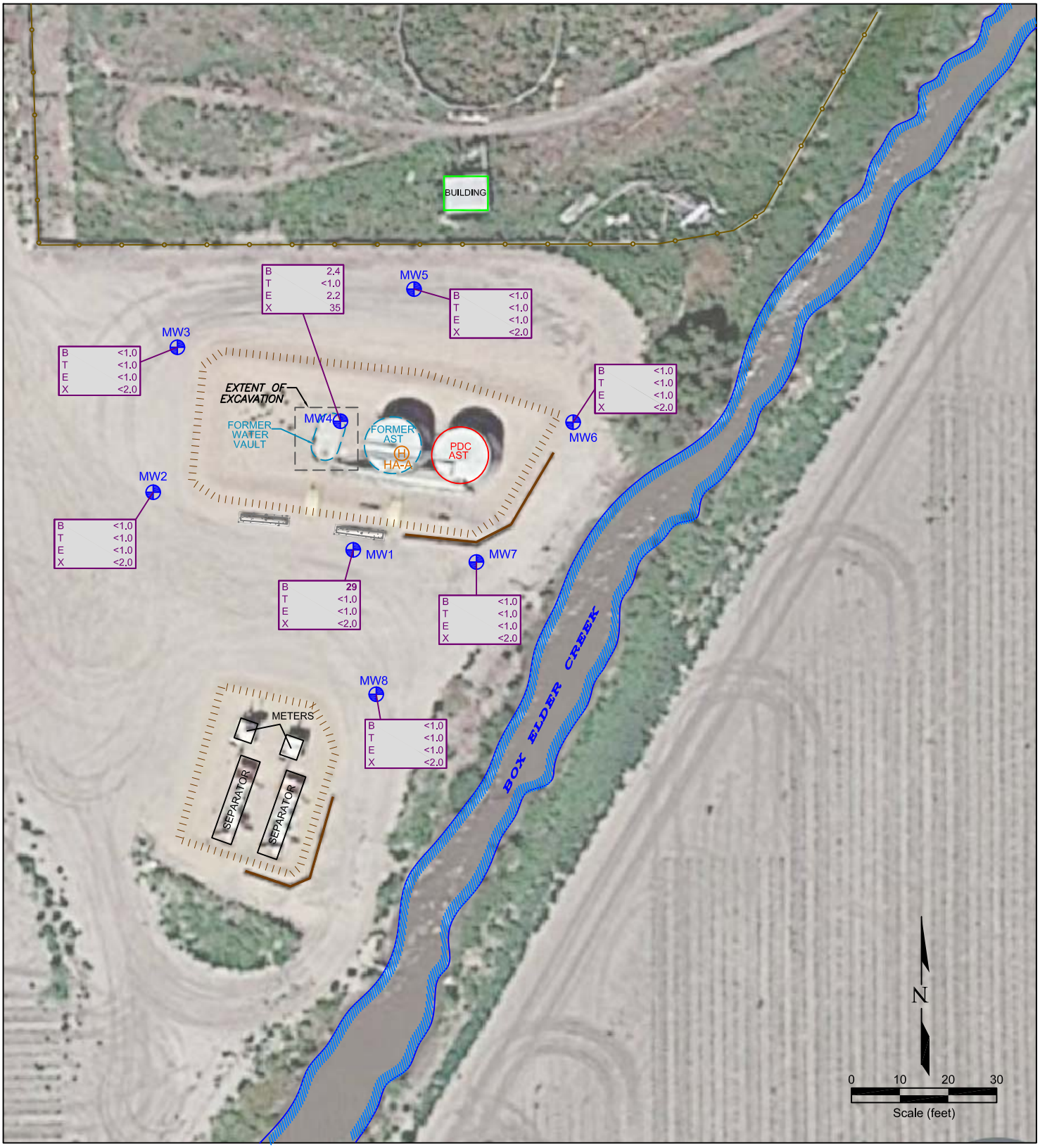
NOBLE ENERGY, INC. ~ McDERMED 2-1

NWNE Sec. 1, T4N, R64W ~ 40.34695°, -104.49421°

Weld County, Colorado

Project No.	Prepared by	Drawn by
CO20-022		**TA**
Date	**Reviewed by**	**Filename**
7/6/20	**PH**	**20022QQ**

FREMONT ENVIRONMENTAL



LEGEND

- MONITORING WELL
- HAND AUGURED WELL
- ABOVE GROUND STORAGE TANK
- CONCRETE BARRICADES
- FORMER — FORMER FACILITY
- BUILDING — BUILDING
- CONTAINMENT BERM
- CONTAINMENT WALL
- FENCE LINE
- EXTENT OF EXCAVATION

B <1.0	BENZENE (ug/L)
T <1.0	TOLUENE (ug/L)
E <1.0	ETHYLBENZENE (ug/L)
X <2.0	TOTAL XYLENES (ug/L)

Figure 7

GROUNDWATER CHEMISTRY MAP

May 27, 2020

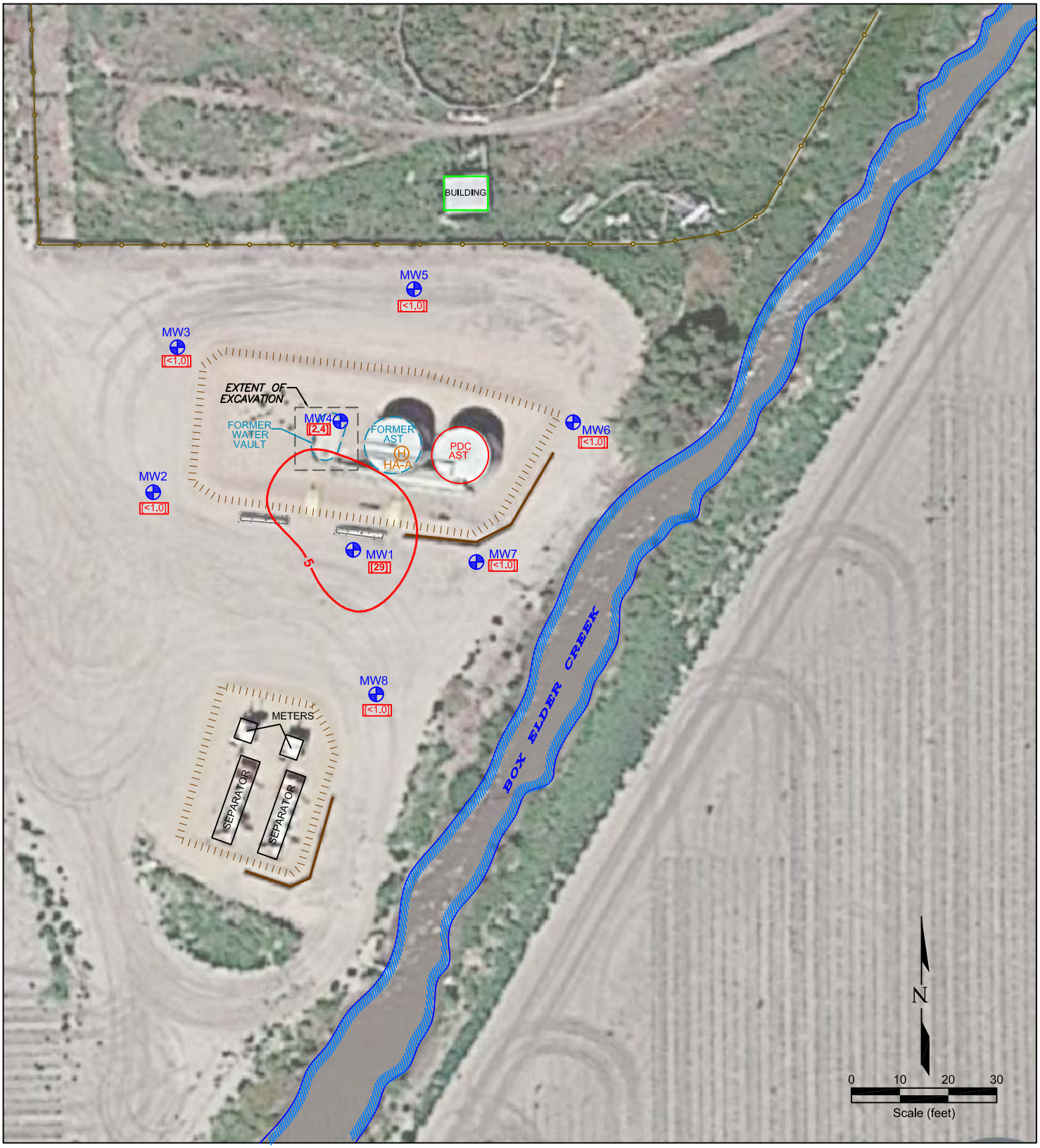
NOBLE ENERGY, INC. ~ McDERMED 2-1

NWNE Sec. 1, T4N, R64W ~ 40.34695°, -104.49421°

Weld County, Colorado

Project No.	Prepared by	Drawn by
CO20-022		**TA**
Date	Reviewed by	Filename
7/6/20	**PH**	**20022QQ**

FREMONT ENVIRONMENTAL



LEGEND

- MONITORING WELL
- HAND AUGURED WELL
- ABOVE GROUND STORAGE TANK
- CONCRETE BARRICADES
- FORMER — FORMER FACILITY
- BUILDING — BUILDING
- CONTAINMENT BERM
- CONTAINMENT WALL
- FENCE LINE
- EXTENT OF EXCAVATION
- 5 — BENZENE ISOCONCENTRATION (ug/L) Inferred in part from historical data
- [<1.0] — BENZENE CONCENTRATION (ug/L)

Figure 8

BENZENE ISO-CONCENTRATION MAP

May 27, 2020

NOBLE ENERGY, INC. ~ McDERMED 2-1

NWNE Sec. 1, T4N, R64W ~ 40.34695°, -104.49421°

Weld County, Colorado

Project No.	Prepared by	Drawn by
CO20-022		**TA**
Date	**Reviewed by**	**Filename**
7/6/20	**PH**	**20022QQ**

FREMONT ENVIRONMENTAL

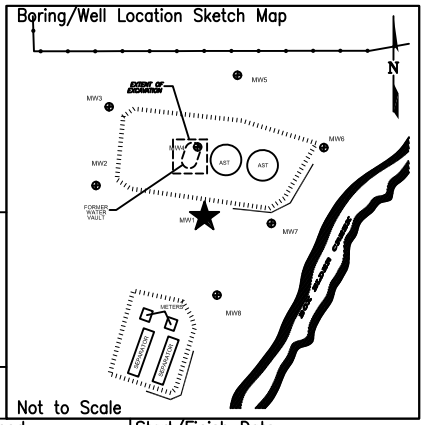
APPENDIX A

BORING LOGS

FREMONT ENVIRONMENTAL

BORING/WELL CONSTRUCTION LOG

Boring/Well Location Sketch Map



Boring/Well No.	Total Depth	Location
MW-1	14'	Noble Energy, Inc. McDermed 2-1 NWNE Sec. 1, T4N, R64W Weld County, Colorado
Project No./Name		
C020-022/Noble McDermed 2-1		
Drilling Contractor/Driller		
DrillPro/Terrence Apodaca		
Geologist/Office		**Approved By**
Ethan Black/Fremont Environmental, Inc.		

Drilling Equipment/Method	Size/Type of Bit	Sampling Method	Start/Finish Date
Geoprobe/Direct Push	2" Tube	Continuous	5/27/20

Well Installed?	Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Yes [X] No [ ]	Sch. 40 PVC/1"	Slotted	PVC	10'	1"	0.01 slot

Elevation of: (ft. above datum)	Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured
	.	100.00	.	.	7.89 5/27/20

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY: GRAPHIC LOG	LITHOLOGY: VISUAL DESCRIPTION	Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			Road base 6"				
	Bentonite; 1" Blank	CL	Clay: black, slightly plastic, slightly moist				489.3
							91.9
5		SP	Sand: gray, fine, moist				
	#10-20 Silica Sand; 1" Screen	CL	Clay: gray and black, slightly plastic, slightly moist				836.2
							1124
10		SP	Sand: gray, fine, moist transitioning to brown plus tan, fine, wet - 6" clay lens				1039 1.1
		CL	TD 14'				3.6
15							
20							

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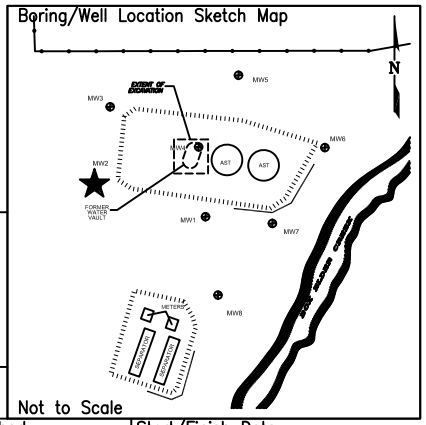
BORING/WELL CONSTRUCTION LOG

Boring/Well Location Sketch Map



Not to Scale

Boring/Well No.	Total Depth	Location
MW-2	13'	Noble Energy, Inc. McDermed 2-1 NWNE Sec. 1, T4N, R64W Weld County, Colorado
Project No./Name		
C020-022/Noble McDermed 2-1		
Drilling Contractor/Driller		
DrillPro/Terrence Apodaca		
Geologist/Office		**Approved By**
Ethan Black/Fremont Environmental, Inc.		

Drilling Equipment/Method	Size/Type of Bit	Sampling Method	Start/Finish Date
Geoprobe/Direct Push	2" Tube	Continuous	5/27/20

Well Installed?	Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Yes [X] No [ ]	Sch. 40 PVC/1"	Slotted	PVC	10'	1"	0.01 slot

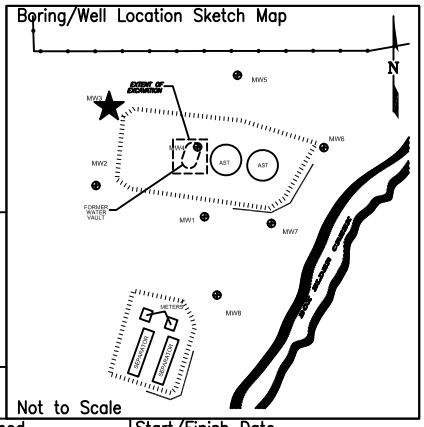
Elevation of: (ft. above datum)	Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured
	.	100.51	.	.	8.43 5/27/20

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY: GRAPHIC LOG	LITHOLOGY: VISUAL DESCRIPTION	Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			Road base 6"				
	Bentonite; 1" Blank	CL	Clay: brown, lightly plastic, slightly moist				0.0
							0.0
5		SM	Silty Sand: brown plus tan, highly plastic, moist, laminted				0.0
	#10-20 Silica Sand; 1" Screen						0.0
		CH	Clay: dark brown, plastic, slightly moist, calcareous				0.0
10		SP	Sand: tan, fine, moist, saturated				0.1
		CL	Clay: tan, non-plastic, saturated				
		SP	Sand: brown, fine, wet				0.1
			TD 13'				
15							
20							

FREMONT ENVIRONMENTAL

BORING/WELL CONSTRUCTION LOG

Page 1 of 1



Boring/Well No.	Total Depth	Location
MW-3	13'	Noble Energy, Inc. McDermed 2-1 NWNE Sec. 1, T4N, R64W Weld County, Colorado
Project No./Name		
C020-022/Noble McDermed 2-1		
Drilling Contractor/Driller		
DrillPro/Terrence Apodaca		
Geologist/Office		**Approved By**
Ethan Black/Fremont Environmental, Inc.		

Drilling Equipment/Method	Size/Type of Bit	Sampling Method	Start/Finish Date
Geoprobe/Direct Push	2" Tube	Continuous	5/27/20

Well Installed?	Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Yes [X] No [ ]	Sch. 40 PVC/1"	Slotted	PVC	10'	1"	0.01 slot

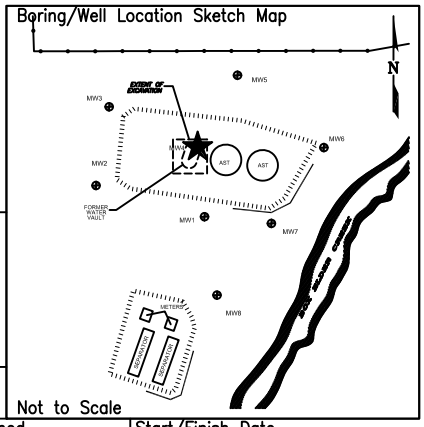
Elevation of: (ft. above datum)	Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured
	.	99.98	.	.	7.95 5/27/20

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY: GRAPHIC LOG	LITHOLOGY: VISUAL DESCRIPTION	Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			Road base 6"				
	Bentonite; 1" Blank	CL	Clay: dark brown, slightly plastic, moist				0.0
							0.0
5		SM	Silty Sand: brown and tan, highly plastic, moist,				0.1
	#10-20 Silica Sand; 1" Screen						
		CH	Clay: dark brown, plastic, slightly moist, calcareous				0.3
			- color change to gray, oxidized				0.3
10		SP	Sand: brown, fine, saturated				0.3
			TD 13'				0.1
15							
20							

FREMONT ENVIRONMENTAL

BORING/WELL CONSTRUCTION LOG

Page 1 of 1



Boring/Well No.	Total Depth	Location
MW-4	16'	Noble Energy, Inc. McDermed 2-1 NWNE Sec. 1, T4N, R64W Weld County, Colorado

Project No./Name	Approved By
C020-022/Noble McDermed 2-1	

Drilling Contractor/Driller	Geologist/Office
DrillPro/Terrence Apodaca	Ethan Black/Fremont Environmental, Inc.

Drilling Equipment/Method	Size/Type of Bit	Sampling Method	Start/Finish Date
Geoprobe/Direct Push	2" Tube	Continuous	5/27/20

Well Installed?	Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Yes [X] No [ ]	Sch. 40 PVC/1"	Slotted	PVC	10'	1"	0.01 slot

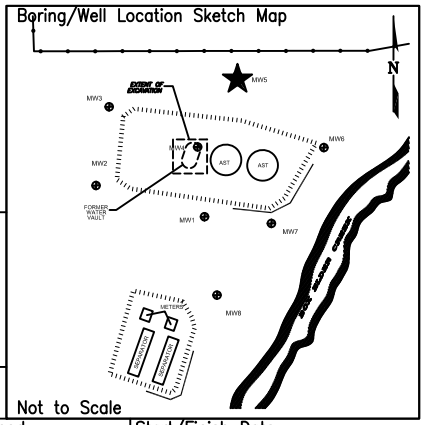
Elevation of: (ft. above datum)	Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured
		100.08	.	.	8.06 5/27/20

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY: GRAPHIC LOG	LITHOLOGY: VISUAL DESCRIPTION	Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			Road base 6"				
	Bentonite; 1" Blank	CL	Clay: brown, slightly plastic, slightly moist				5.5
							628.5
5		SM	Silty Sand: gray and brown, plastic, moist				1641
	#10-20 Silica Sand; 1" Screen	SP	Sand: gray and black, fine, moist				494.2
		CL	Clay: gray and black, non-plastic, moist				294.4
10							
			Silty sand 6" lens, gray, moist @ 10.5' satuared				25.0
		SP	Sand: brown to tan, fine to medium, wet, oxidized at 12.5'				3.1
15							0.3
			TD 16'				
20							

FREMONT ENVIRONMENTAL

BORING/WELL CONSTRUCTION LOG

Boring/Well Location Sketch Map



Not to Scale

Boring/Well No.	Total Depth	Location
MW-5	13'	Noble Energy, Inc. McDermed 2-1 NWNE Sec. 1, T4N, R64W Weld County, Colorado
Project No./Name		
C020-022/Noble McDermed 2-1		
Drilling Contractor/Driller		
DrillPro/Terrence Apodaca		
Geologist/Office		**Approved By**
Ethan Black/Fremont Environmental, Inc.		

Drilling Equipment/Method	Size/Type of Bit	Sampling Method	Start/Finish Date
Geoprobe/Direct Push	2" Tube	Continuous	5/27/20

Well Installed?	Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Yes [X] No [ ]	Sch. 40 PVC/1"	Slotted	PVC	10'	1"	0.01 slot

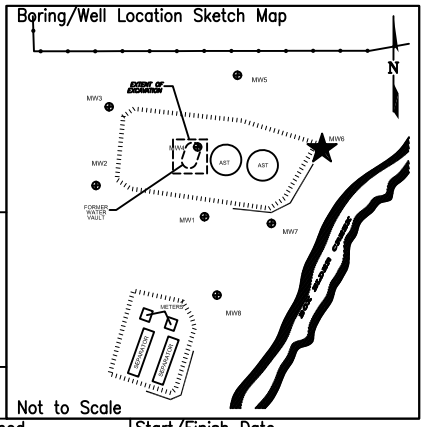
Elevation of: (ft. above datum)	Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured
	.	99.58	.	.	7.65 5/27/20

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY: GRAPHIC LOG	LITHOLOGY: VISUAL DESCRIPTION	Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			Road base 6"				
	Bentonite; 1" Blank	CL	Clay: brown, slightly plastic, slightly moist				0.0
							0.0
5		SM	Silty Sand: brown, plastic, slightly moist				0.0
	#10-20 Silica Sand; 1" Screen						0.0
							0.0
10		CL	Clay: tan, slightly plastic, slightly moist, oxidized				0.0
		SP	Sand: tan and brown, fine to medium, wet				0.0
			TD 13'				
15							
20							

FREMONT ENVIRONMENTAL

BORING/WELL CONSTRUCTION LOG

Boring/Well Location Sketch Map



Boring/Well No.	Total Depth	Location
MW-6	13'	Noble Energy, Inc. McDermed 2-1 NWNE Sec. 1, T4N, R64W Weld County, Colorado

Project No./Name	Approved By
C020-022/Noble McDermed 2-1	

Drilling Contractor/Driller	Geologist/Office
DrillPro/Terrence Apodaca	Ethan Black/Fremont Environmental, Inc.

Drilling Equipment/Method	Size/Type of Bit	Sampling Method	Start/Finish Date
Geoprobe/Direct Push	2" Tube	Continuous	5/27/20

Well Installed?	Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Yes [X] No [ ]	Sch. 40 PVC/1"	Slotted	PVC	10'	1"	0.01 slot

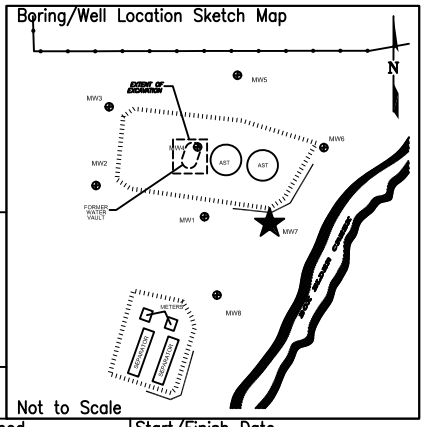
Elevation of: (ft. above datum)	Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured
	.	99.68	.	.	7.58 5/27/20

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY: GRAPHIC LOG	LITHOLOGY: VISUAL DESCRIPTION	Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			Road base 6"				
	Bentonite; 1" Blank	CL	Clay: brown, slightly plastic, slightly moist				0.0
							0.0
5		SM	Silty Sand: brown, high plasticity, moist, beige and tan, laminations				0.0
	#10-20 Silica Sand; 1" Screen						0.0
							0.1
10		CL	Clay: dark brown, low plasticity, moist				0.0
		SP	Sand: tan, fine to medium, wet				0.0
			TD 13'				
15							
20							

FREMONT ENVIRONMENTAL

BORING/WELL CONSTRUCTION LOG

Boring/Well Location Sketch Map



Not to Scale

Boring/Well No.: MW-7	Total Depth: 13'	Location: Noble Energy, Inc. McDermed 2-1 NWNE Sec. 1, T4N, R64W Weld County, Colorado	
Project No./Name: C020-022/Noble McDermed 2-1			
Drilling Contractor/Driller: DrillPro/Terrence Apodaca			
Geologist/Office: Ethan Black/Fremont Environmental, Inc.		Approved By:	
Drilling Equipment/Method: Geoprobe/Direct Push	Size/Type of Bit: 2" Tube	Sampling Method: Continuous	Start/Finish Date: 5/27/20

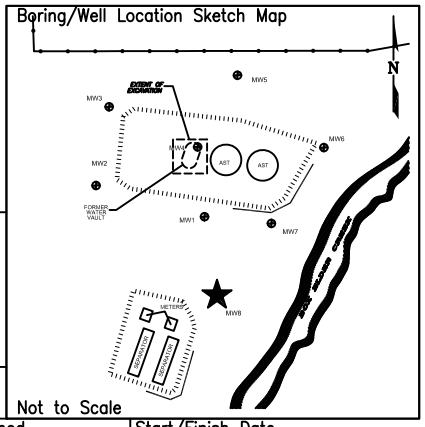
Well Installed?	Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Yes [X] No [ ]	Sch. 40 PVC/1"	Slotted	PVC	10'	1"	0.01 slot

Elevation of: (ft. above datum)	Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured
	.	99.40	.	.	7.17 5/27/20

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY: GRAPHIC LOG	LITHOLOGY: VISUAL DESCRIPTION	Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
	Bentonite; 1" Blank	CL	Road base 6" Clay: brown, slightly plastic, slightly moist				0.0 0.0
5	#10-20 Silica Sand; 1" Screen	SM	Silty Sand: brown, high plastic, moist, beige plus tan, laminations				0.0 0.3
		CL	Clay: dark brown, low plasticity, moist				0.5
10		SC	Sandy clay: tan plus brown, low plasticity, very moist				0.0
		SP	Sand: tan, fine to medium, wet -transitioning to clay at 13' TD 13'				0.0
15							
20							

FREMONT ENVIRONMENTAL

BORING/WELL CONSTRUCTION LOG



Boring/Well No.	Total Depth	Location
MW-8	13'	Noble Energy, Inc. McDermed 2-1 NWNE Sec. 1, T4N, R64W Weld County, Colorado

Project No./Name	Approved By
C020-022/Noble McDermed 2-1	

Drilling Contractor/Driller	Geologist/Office
DrillPro/Terrence Apodaca	Ethan Black/Fremont Environmental, Inc.

Drilling Equipment/Method	Size/Type of Bit	Sampling Method	Start/Finish Date
Geoprobe/Direct Push	2" Tube	Continuous	5/27/20

Well Installed?	Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Yes [X] No [ ]	PVC/1"	Slotted	PVC	10'	1"	20 slot

Elevation of: (ft. above datum)	Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured
	.	99.66	.	.	7.31 5/27/20

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY: GRAPHIC LOG	LITHOLOGY: VISUAL DESCRIPTION	Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
	Bentonite; 1" Blank	SC	Sandy clay: dark brown, plastic, moist, calcareous				0.4
							0.0
5		SP	Sand: brown, fine moist				0.0
	#10-20 Silica Sand; 1" Screen	CL	Clay: dark brown, non-plastic, slightly moist				1.1
			-transitioning to beige, increased moisture				0.0
10			-6" fine sand lens				
			-6" fine sand lens				0.0
		SP	Sand: tan, fine, saturated to wet, oxidized at 12' -transitioning to clay at 13' TD 13'				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 of 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 – 8260C

APPENDIX C

LABORATORY DOCUMENTATION

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

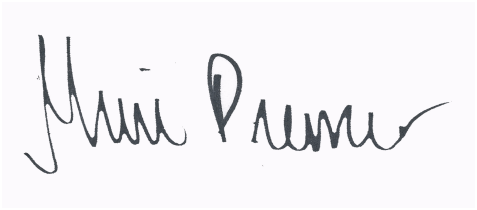
June 02, 2020

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - McDermed 2-1
Work Order #2005267

Enclosed are the results of analyses for samples received by Summit Scientific on 05/27/20 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Muri Premer For Paul Shrewsbury
President

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1 2FT	2005267-01	Soil	05/27/20 00:00	05/27/20 16:00
MW-1 6FT	2005267-02	Soil	05/27/20 00:00	05/27/20 16:00
MW-2 6FT	2005267-03	Soil	05/27/20 00:00	05/27/20 16:00
MW-3 6FT	2005267-04	Soil	05/27/20 00:00	05/27/20 16:00
MW-4 4FT	2005267-05	Soil	05/27/20 00:00	05/27/20 16:00
MW-4 6FT	2005267-06	Soil	05/27/20 00:00	05/27/20 16:00
MW-5 6FT	2005267-07	Soil	05/27/20 00:00	05/27/20 16:00
MW-6 6FT	2005267-08	Soil	05/27/20 00:00	05/27/20 16:00
MW-7 6FT	2005267-09	Soil	05/27/20 00:00	05/27/20 16:00
MW-8 6FT	2005267-10	Soil	05/27/20 00:00	05/27/20 16:00
HA-A 4FT	2005267-11	Soil	05/27/20 00:00	05/27/20 16:00
MW-1	2005267-12	Water	05/27/20 00:00	05/27/20 16:00
MW-2	2005267-13	Water	05/27/20 00:00	05/27/20 16:00
MW-3	2005267-14	Water	05/27/20 00:00	05/27/20 16:00
MW-4	2005267-15	Water	05/27/20 00:00	05/27/20 16:00
MW-5	2005267-16	Water	05/27/20 00:00	05/27/20 16:00
MW-6	2005267-17	Water	05/27/20 00:00	05/27/20 16:00
MW-7	2005267-18	Water	05/27/20 00:00	05/27/20 16:00
MW-8	2005267-19	Water	05/27/20 00:00	05/27/20 16:00

Summit Scientific

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

Summit Scientific

S2

2005267.1

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Client: Fremont Environmental
Address: P.O Box 1289
City/State/Zip: Wellington, CO 80549
Phone: 303-956-8714
Sampler Name: Black

Project Manager: Paul Henehan
E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com
Bill to: Jacob
Project Name: Noble - McDermed 2-1
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	Naphthalene	GRO	DRO	SAR	EC	pH		
1	MW-1 2FT	5/27/20		1			X			X			X	X	X	X					
2	MW-1 6FT																				
3	MW-2 6FT																				
4	MW-3 6FT																				
5	MW-4 4FT																				
6	MW-4 6FT																				
7	MW-5 6FT																				
8	MW-6 6FT																				
9	MW-7 6FT																				
10	MW-8 6FT																				

Relinquished by:	Date/Time:	Received by:	Date/Time:
Ethan Black	5/27/20 1600		05/27/2020 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

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

Sample Integrity:
Temperature Upon Receipt: 4.5°
Samples Intact: (Yes) No

Notes:

Summit Scientific

S2

2005267.2

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Client: Fremont Environmental
Address: P.O Box 1289
City/State/Zip: Wellington, CO 80549
Phone: 303-956-8714
Sampler Name: Black

Project Manager: Paul Henehan
E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com
Bill to: Jacob
Project Name: Noble - McDermed 2-1
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	Naphthalene	GRO	DRO	SAR	EC	pH		
1	HA-A 4FT	5/27/20		1			X			X			X	X	X	X					
2	MW-1			2					X												
3	MW-2																				
4	MW-3																				
5	MW-4																				
6	MW-5																				
7	MW-6																				
8	MW-7																				
9	MW-8																				
10																					

Relinquished by:	Date/Time:	Received by:	Date/Time:
Ethan Black	5/27/20 1600		05/27/2020 1600
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

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

Sample Integrity:
Temperature Upon Receipt: 4.5
Samples Intact: (Yes) No

Notes:

Sample Receipt Checklist

S2 Work Order 2005267

Client: Fremont Environmental Client Project ID: Noble - McDermed 2-1

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

[X] [ ] [ ] [ ] [ ]

Matrix (check all that apply): [ ] Air [X] Soil/Solid [X] Water [ ] Other:_____ (Describe)

Temp (°C)	4.5

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C (1)? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	X			
Were all samples received intact (1)?	X			
Was adequate sample volume provided (1)?	X			
If custody seals are present, are they intact (1)?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?		X		
Is a chain-of-custody (COC) form present and filled out completely (1)?	X			
Does the COC agree with the number and type of sample bottles received (1)?	X			
Do the sample IDs on the bottle labels match the COC (1)?	X			
Is the COC properly relinquished by the client w/ date and time recorded (1)?	X			
For volatiles in water – is there headspace present? **If yes, contact client and note in narrative.**		X		
Are samples preserved that require preservation **(excluding cooling)** (1)? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			✓	
If samples are acid preserved for metals, is the pH ≤ 2(1)? Record the pH in Comments.			X	
If dissolved metals are requested, were samples field filtered?			X	
Additional Comments (if any):				

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

RB — **Custodian Printed Name or Initials**

Signature of Custodian

05/27/2020 — **Date/Time**

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

MW-1 2FT

2005267-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.0040**	0.0020	mg/kg	1	2005362	05/29/20	05/30/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	**0.043**	0.010	"	"	"	"	"	"	
Naphthalene	**0.015**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*57.7 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*113 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*145 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**3100**	50	mg/kg	1	2005361	"	05/29/20	EPA 8015M	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*141 %*	*30-150*		"	"	"	"	

Summit Scientific

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

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

MW-1 6FT

2005267-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005362	05/29/20	05/30/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	**0.020**	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*67.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*121 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*119 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005361	"	05/29/20	EPA 8015M	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*120 %*	*30-150*		"	"	"	"	

Summit Scientific

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

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

MW-2 6FT

2005267-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005362	05/29/20	05/30/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*60.4 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*115 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005361	"	05/29/20	EPA 8015M	

Date Sampled: **05/27/20 00:00**

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

Summit Scientific

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

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

MW-3 6FT

2005267-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005362	05/29/20	05/30/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*61.0 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*116 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.2 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005361	"	05/29/20	EPA 8015M	

Date Sampled: **05/27/20 00:00**

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

Summit Scientific

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

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

MW-4 4FT

2005267-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005362	05/29/20	05/30/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*66.2 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*119 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*179 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**830**	50	mg/kg	1	2005361	"	05/29/20	EPA 8015M	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*117 %*	*30-150*		"	"	"	"	

Summit Scientific

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

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

MW-4 6FT

2005267-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.030**	0.0020	mg/kg	1	2005362	05/29/20	05/30/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.28**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**2.0**	0.10	"	10	"	"	"	"	
Naphthalene	**0.33**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**200**	50	"	"	"	"	"	"	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*98.8 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*112 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*570 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**1700**	50	mg/kg	1	2005361	"	05/29/20	EPA 8015M	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*120 %*	*30-150*		"	"	"	"	

Summit Scientific

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

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

MW-5 6FT

2005267-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005362	05/29/20	05/30/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*66.4 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*117 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005361	"	05/29/20	EPA 8015M	

Date Sampled: **05/27/20 00:00**

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

Summit Scientific

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S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

MW-6 6FT

2005267-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005362	05/29/20	05/30/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*58.0 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*126 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.6 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005361	"	05/29/20	EPA 8015M	

Date Sampled: **05/27/20 00:00**

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

Summit Scientific

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S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

MW-7 6FT

2005267-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005362	05/29/20	05/30/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*67.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*130 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.9 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005361	"	05/29/20	EPA 8015M	

Date Sampled: **05/27/20 00:00**

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

Summit Scientific

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S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

MW-8 6FT

2005267-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	2005362	05/29/20	05/30/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*55.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*123 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.6 %*	*21-167*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	2005361	"	05/29/20	EPA 8015M	

Date Sampled: **05/27/20 00:00**

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

Summit Scientific

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

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

HA-A 4FT

2005267-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.12**	0.0020	mg/kg	1	2005362	05/29/20	05/30/20	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	**0.17**	0.0050	"	"	"	"	"	"	
Xylenes (total)	**3.8**	0.10	"	10	"	"	"	"	
Naphthalene	**1.1**	0.010	"	1	"	"	"	"	
Gasoline Range Hydrocarbons	**910**	50	"	"	"	"	"	"	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*445 %*	*23-173*		"	"	"	"	*S-02*
Surrogate: Toluene-d8		*83.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*1090 %*	*21-167*		"	"	"	"	*S-02*

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**1800**	50	mg/kg	1	2005361	"	05/29/20	EPA 8015M	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*122 %*	*30-150*		"	"	"	"	

Summit Scientific

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

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

MW-1

2005267-12 (Water)

Summit Scientific

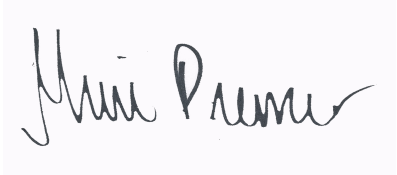
Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**29**	1.0	ug/l	1	2005344	05/28/20	05/29/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*126 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*92.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*21-167*		"	"	"	"	



S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

MW-2

2005267-13 (Water)

Summit Scientific

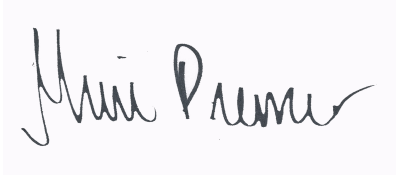
Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2005344	05/28/20	05/29/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*133 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*90.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*21-167*		"	"	"	"	



S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

MW-3

2005267-14 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2005344	05/28/20	05/29/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*134 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*91.7 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*21-167*		"	"	"	"	

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

MW-4

2005267-15 (Water)

Summit Scientific

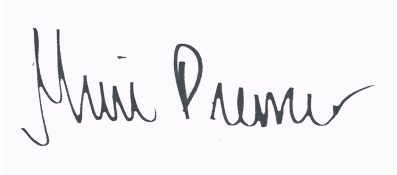
Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**2.4**	1.0	ug/l	1	2005344	05/28/20	05/29/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	**2.2**	1.0	"	"	"	"	"	"	
Xylenes (total)	**35**	2.0	"	"	"	"	"	"	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*131 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*86.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*21-167*		"	"	"	"	



S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

MW-5

2005267-16 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2005344	05/28/20	05/29/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*133 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*90.8 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*21-167*		"	"	"	"	

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

MW-6

2005267-17 (Water)

Summit Scientific

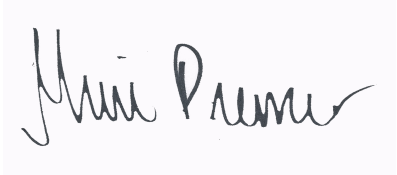
Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2005344	05/28/20	05/29/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*136 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*91.1 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*21-167*		"	"	"	"	



S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

MW-7

2005267-18 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2005344	05/28/20	05/29/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*134 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*91.5 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*21-167*		"	"	"	"	

S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

MW-8

2005267-19 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	2005344	05/28/20	05/29/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **05/27/20 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*132 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*91.4 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*21-167*		"	"	"	"	

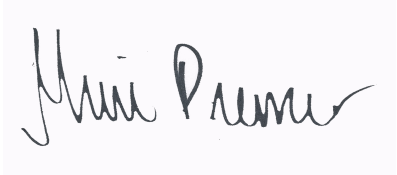
S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

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 2005344 - EPA 5030 Water MS										
Blank (2005344-BLK1)				Prepared & Analyzed: 05/28/20						
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	*14.5*		*"*	*13.3*		*109*	*23-173*			
Surrogate: Toluene-d8	*12.3*		*"*	*13.3*		*92.0*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*14.4*		*"*	*13.3*		*108*	*21-167*			
LCS (2005344-BS1)				Prepared & Analyzed: 05/28/20						
Benzene	46.2	1.0	ug/l	41.7		111	51-132			
Toluene	41.9	1.0	"	41.7		101	51-138			
Ethylbenzene	47.6	1.0	"	41.7		114	58-146			
m,p-Xylene	83.4	2.0	"	83.3		100	57-144			
o-Xylene	42.4	1.0	"	41.7		102	53-146			
Surrogate: 1,2-Dichloroethane-d4	*14.2*		*"*	*13.3*		*107*	*23-173*			
Surrogate: Toluene-d8	*12.9*		*"*	*13.3*		*96.8*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.4*		*"*	*13.3*		*100*	*21-167*			
Matrix Spike (2005344-MS1)		**Source: 2005278-01**		Prepared & Analyzed: 05/28/20						
Benzene	47.4	1.0	ug/l	41.7	ND	114	34-141			
Toluene	43.9	1.0	"	41.7	ND	105	27-151			
Ethylbenzene	50.9	1.0	"	41.7	ND	122	29-160			
m,p-Xylene	89.8	2.0	"	83.3	ND	108	20-166			
o-Xylene	46.0	1.0	"	41.7	ND	110	33-159			
Surrogate: 1,2-Dichloroethane-d4	*14.6*		*"*	*13.3*		*110*	*23-173*			
Surrogate: Toluene-d8	*12.3*		*"*	*13.3*		*92.6*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.7*		*"*	*13.3*		*103*	*21-167*			



S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

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 2005344 - EPA 5030 Water MS										
Matrix Spike Dup (2005344-MSD1)	**Source: 2005278-01**			Prepared & Analyzed: 05/28/20						
Benzene	48.3	1.0	ug/l	41.7	ND	116	34-141	2.01	30	
Toluene	44.8	1.0	"	41.7	ND	108	27-151	2.07	30	
Ethylbenzene	46.0	1.0	"	41.7	ND	110	29-160	10.1	30	
m,p-Xylene	79.9	2.0	"	83.3	ND	95.9	20-166	11.6	30	
o-Xylene	41.4	1.0	"	41.7	ND	99.4	33-159	10.4	30	
Surrogate: 1,2-Dichloroethane-d4	*16.0*		"	*13.3*		*120*	*23-173*			
Surrogate: Toluene-d8	*13.6*		"	*13.3*		*102*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*13.5*		"	*13.3*		*101*	*21-167*			
Batch 2005362 - EPA 5030 Soil MS										
Blank (2005362-BLK1)				Prepared: 05/29/20 Analyzed: 05/30/20						
Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	*0.0235*		"	*0.0400*		*58.7*	*23-173*			
Surrogate: Toluene-d8	*0.0487*		"	*0.0400*		*122*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0353*		"	*0.0400*		*88.3*	*21-167*			
LCS (2005362-BS1)				Prepared: 05/29/20 Analyzed: 05/30/20						
Benzene	0.0892	0.0020	mg/kg	0.100		89.2	70-130			
Toluene	0.0979	0.0050	"	0.100		97.9	70-130			
Ethylbenzene	0.0904	0.0050	"	0.100		90.4	70-130			
m,p-Xylene	0.166	0.010	"	0.200		82.8	70-130			
o-Xylene	0.0816	0.0050	"	0.100		81.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0222*		"	*0.0400*		*55.4*	*23-173*			
Surrogate: Toluene-d8	*0.0464*		"	*0.0400*		*116*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0399*		"	*0.0400*		*99.7*	*21-167*			

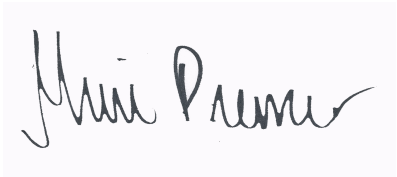
S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

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 2005362 - EPA 5030 Soil MS										
Matrix Spike (2005362-MS1)	**Source: 2005263-01**			Prepared: 05/29/20 Analyzed: 05/30/20						
Benzene	0.0732	0.0020	mg/kg	0.100	ND	73.2	70-130			
Toluene	0.0831	0.0050	"	0.100	ND	83.1	70-130			
Ethylbenzene	0.226	0.0050	"	0.100	0.147	79.3	70-130			
m,p-Xylene	1.13	0.010	"	0.200	1.01	57.6	70-130			QM-07
o-Xylene	0.0929	0.0050	"	0.100	ND	92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0286*		"	*0.0400*		*71.6*	*23-173*			
Surrogate: Toluene-d8	*0.0401*		"	*0.0400*		*100*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0568*		"	*0.0400*		*142*	*21-167*			
Matrix Spike Dup (2005362-MSD1)	**Source: 2005263-01**			Prepared: 05/29/20 Analyzed: 05/30/20						
Benzene	0.0737	0.0020	mg/kg	0.100	ND	73.7	70-130	0.654	30	
Toluene	0.0826	0.0050	"	0.100	ND	82.6	70-130	0.580	30	
Ethylbenzene	0.250	0.0050	"	0.100	0.147	103	70-130	10.1	30	
m,p-Xylene	1.26	0.010	"	0.200	1.01	122	70-130	10.9	30	
o-Xylene	0.0958	0.0050	"	0.100	ND	95.8	70-130	3.12	30	
Surrogate: 1,2-Dichloroethane-d4	*0.0311*		"	*0.0400*		*77.7*	*23-173*			
Surrogate: Toluene-d8	*0.0391*		"	*0.0400*		*97.6*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*0.0563*		"	*0.0400*		*141*	*21-167*			



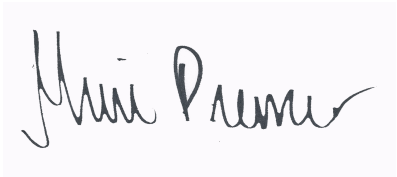
S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

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 2005361 - EPA 3550A										
Blank (2005361-BLK1)				Prepared & Analyzed: 05/29/20						
C10-C28 (DRO)	ND	50	mg/kg							
LCS (2005361-BS1)				Prepared & Analyzed: 05/29/20						
C10-C28 (DRO)	572	50	mg/kg	500		114	70-130			
Matrix Spike (2005361-MS1)	**Source: 2005267-01**			Prepared & Analyzed: 05/29/20						
C10-C28 (DRO)	3420	50	mg/kg	500	3050	73.8	70-130			
Matrix Spike Dup (2005361-MSD1)	**Source: 2005267-01**			Prepared & Analyzed: 05/29/20						
C10-C28 (DRO)	2470	50	mg/kg	500	3050	NR	70-130	32.3	20	QM-07



S2

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - McDermed 2-1 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 06/02/20 11:19

Notes and Definitions

S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference