

# **FREMONT ENVIRONMENTAL INC.**

September 28, 2020

Mr. Jacob Evans  
Noble Energy Inc.  
2115 117<sup>th</sup> Avenue  
Greeley, CO 80634

Subject:     **Groundwater Data Submittal**  
          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 Groundwater Data Submittal for the McDermed 2-1 site in Weld County, Colorado. The enclosed data describes the groundwater quality at the site during the recent quarterly sampling and monitoring event.

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.**



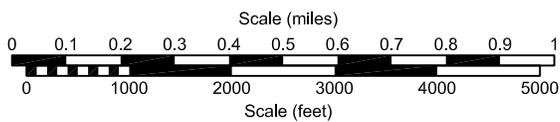
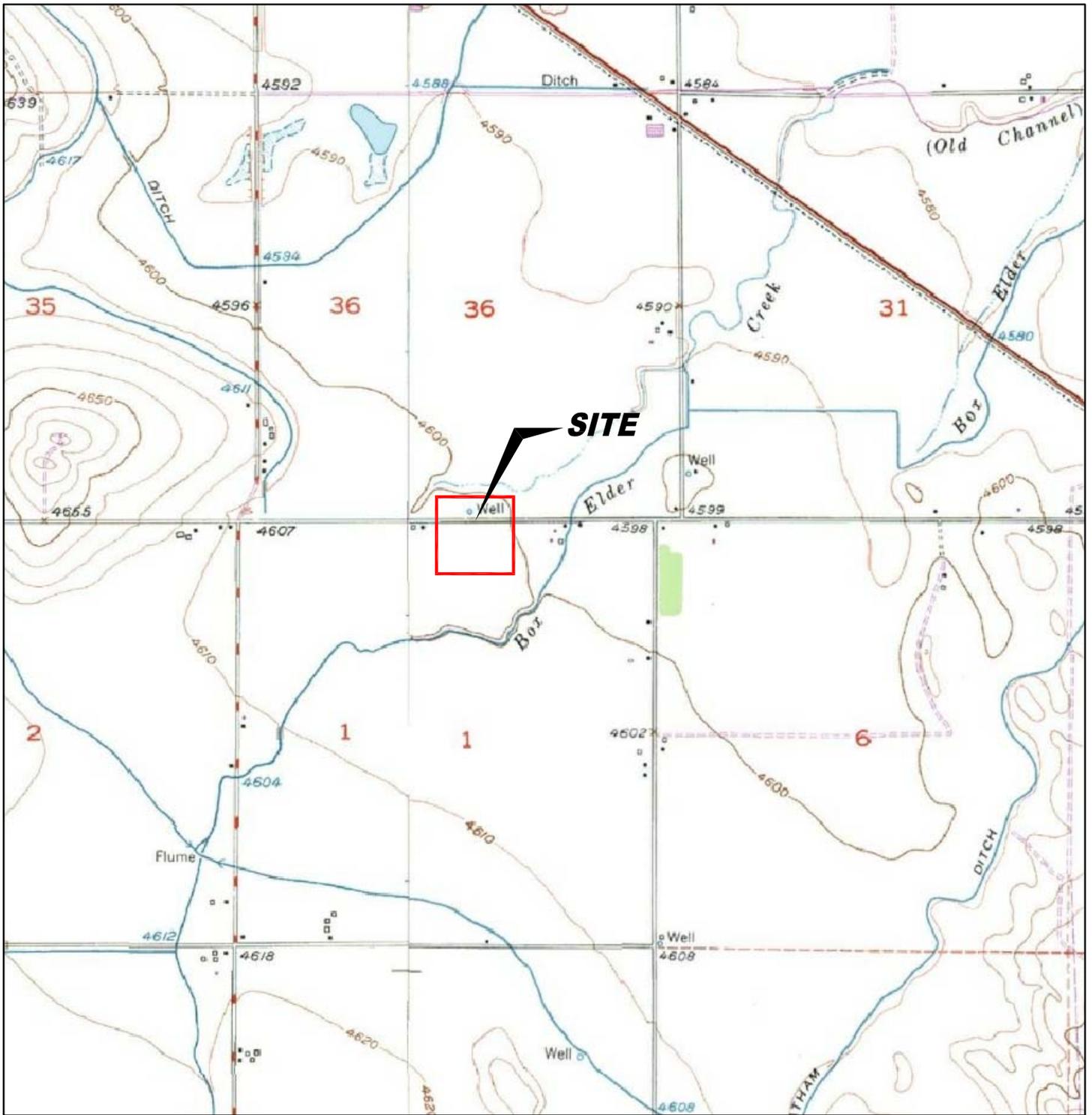
Paul V. Henehan, P.E.  
Senior Consultant

Enclosure

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

<b>SAMPLE LOCATION</b>	<b>DATE</b>	<b>BENZENE (µg/L)</b>	<b>TOLUENE (µg/L)</b>	<b>ETHYL BENZENE (µg/L)</b>	<b>TOTAL XYLENES (µg/L)</b>	<b>TOC ELEVATION (feet)</b>	<b>DEPTH TO GROUND WATER (ft)</b>	<b>GROUND WATER ELEVATION (ft)</b>	<b>FREE PRODUCT THICKNESS (ft)</b>
MW-1	05/27/20	<b>29</b>	<1.0	<1.0	<2.0	100.00	7.89	92.11	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0		5.80	94.20	NP
MW-2	05/27/20	<1.0	<1.0	<1.0	<2.0	100.51	8.43	92.08	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0		6.35	94.16	NP
MW-3	05/27/20	<1.0	<1.0	<1.0	<2.0	99.98	7.95	92.03	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0		5.88	94.10	NP
MW-4	05/27/20	2.4	<1.0	2.2	35	100.08	8.06	92.02	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0		5.97	94.11	NP
MW-5	05/27/20	<1.0	<1.0	<1.0	<2.0	99.58	7.65	91.93	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0		5.57	94.01	NP
MW-6	05/27/20	<1.0	<1.0	<1.0	<1.0	99.68	7.58	92.10	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0		5.59	94.09	NP
MW-7	05/27/20	<1.0	<1.0	<1.0	<2.0	99.40	7.17	92.23	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0		5.15	94.25	NP
MW-8	05/27/20	<1.0	<1.0	<1.0	<2.0	99.66	7.31	92.35	NP
	08/09/20	<1.0	<1.0	<1.0	<2.0		5.35	94.31	NP
COGCC Table 910 Limits			5	560	700	1400			

Bold faced values exceed the COGCC Table 910-1 concentrations



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

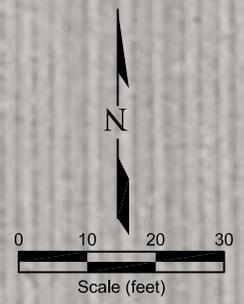
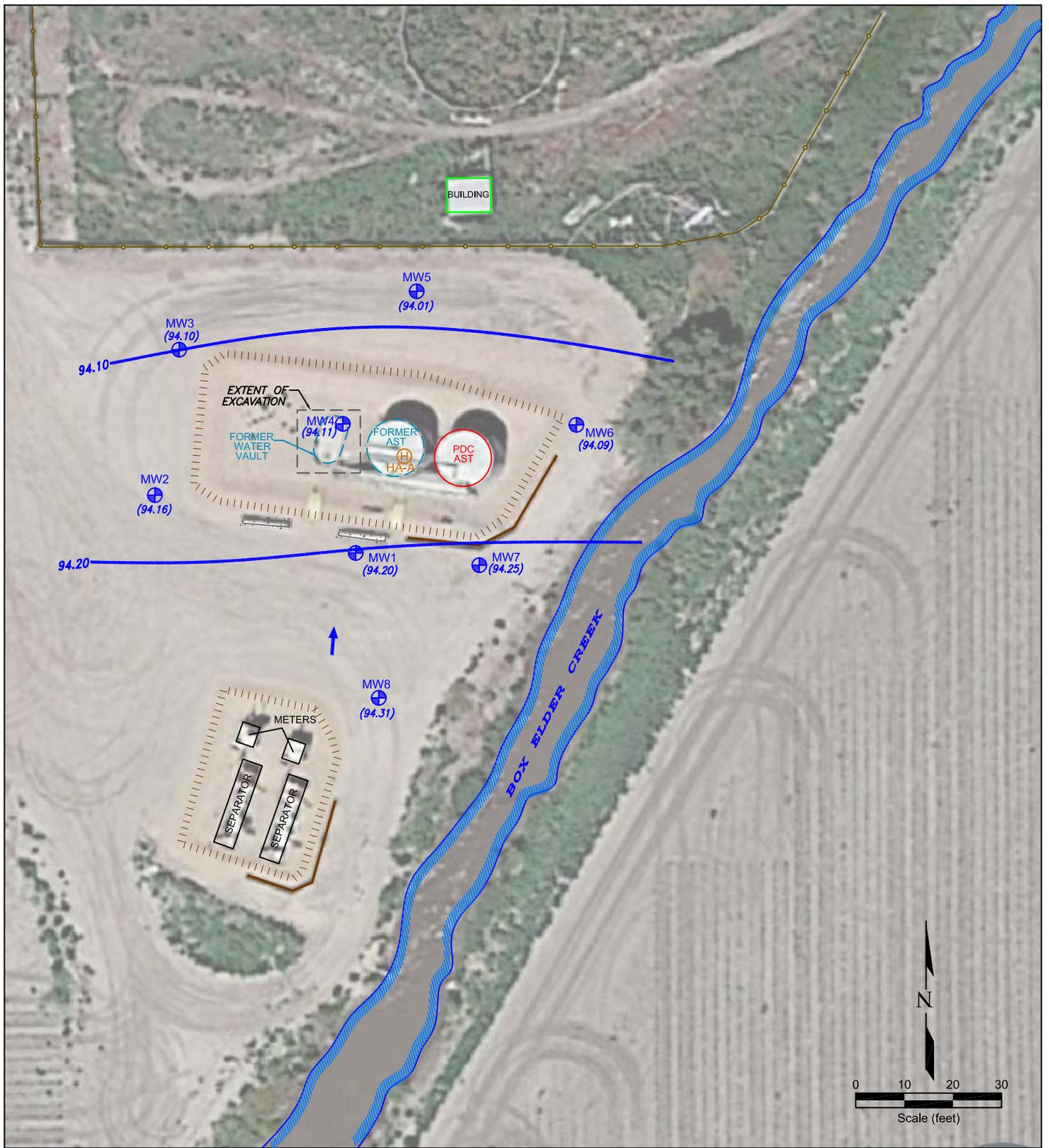
Figure 1  
**SITE LOCATION MAP**

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

Project No. <b>CO20-022</b>	Prepared by	Drawn by <b>TA</b>
Date <b>9/1/20</b>	Reviewed by <b>EB</b>	Filename <b>20022T</b>







**LEGEND**

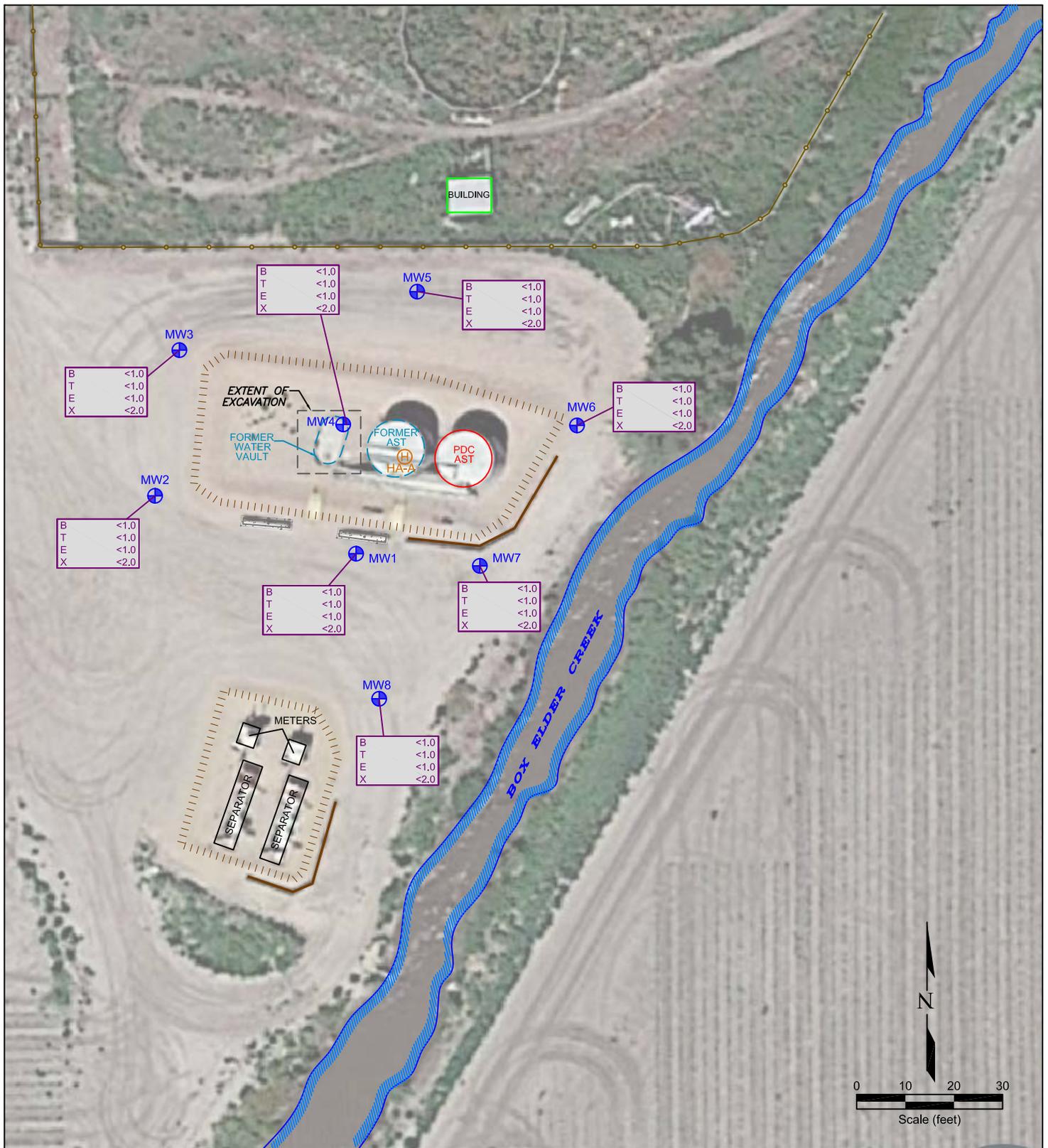
- MONITORING WELL
- HAND AUGURED WELL
- ABOVE GROUND STORAGE TANK
- CONCRETE BARRICADES
- FORMER FACILITY
- BUILDING
- CONTAINMENT BERM
- CONTAINMENT WALL
- FENCE LINE
- EXTENT OF EXCAVATION
- GROUND WATER ELEVATION (feet above mean sea level)
- WATER TABLE CONTOUR (feet above mean sea level)
- INFERRED GROUND WATER FLOW DIRECTION
- NOT MEASURED

Figure 3  
**INFERRED GROUNDWATER CONTOUR MAP**  
 August 9, 2020

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

Project No. <b>CO20-022</b>	Prepared by	Drawn by <b>TA</b>
Date <b>9/1/20</b>	Reviewed by <b>EB</b>	Filename <b>20022QQ</b>





**LEGEND**

- MONITORING WELL
  - HAND AUGURED WELL
  - ABOVE GROUND STORAGE TANK
  - CONCRETE BARRICADES
  - FORMER FACILITY
  - 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 4**  
**GROUND WATER CHEMISTRY MAP**  
**August 9, 2020**

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

Project No. <b>CO20-022</b>	Prepared by	Drawn by <b>TA</b>	
Date <b>9/1/20</b>	Reviewed by <b>EB</b>	Filename <b>20022QQ</b>	

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 26, 2020

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - McDermed 2-1  
Work Order #2008175

Enclosed are the results of analyses for samples received by Summit Scientific on 08/19/20 16:40. 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 - McDermed 2-1

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
08/26/20 10:48

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	2008175-01	Water	08/19/20 00:00	08/19/20 16:40
MW-2	2008175-02	Water	08/19/20 00:00	08/19/20 16:40
MW-3	2008175-03	Water	08/19/20 00:00	08/19/20 16:40
MW-4	2008175-04	Water	08/19/20 00:00	08/19/20 16:40
MW-5	2008175-05	Water	08/19/20 00:00	08/19/20 16:40
MW-6	2008175-06	Water	08/19/20 00:00	08/19/20 16:40
MW-7	2008175-07	Water	08/19/20 00:00	08/19/20 16:40
MW-8	2008175-08	Water	08/19/20 00:00	08/19/20 16:40

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<sub>2</sub>

2008175

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

Page 1 of 1

Client: FREMONT ENVIRONMENTAL Project Manager: PAUL HENEHAN  
 Address: PO Box 1289 E-Mail: PAULH@FREMONTENV.COM & ETHANB@FREMONTENV.COM  
 City/State/Zip: Wellington CO 80549 Project Name: Noble - McDermid 2-1  
 Phone: 303-956-8714 Project Number:  
 Sampler Name: Black

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other				
1	MW-1	8/19/20		2			X		X				X	STEX		
2	MW-2															
3	MW-3															
4	MW-4															
5	MW-5															
6	MW-6															
7	MW-7															
8	MW-8															
9																
10																

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>16:40</u> <u>8/19/20</u>	Received by: <u>[Signature]</u>	Date/Time: <u>08-19-20 16:40</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: <u>3.4</u> Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes: <u>Bill To: Jacob</u>
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

### Sample Receipt Checklist

S2 Work Order 2008175

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

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

Matrix (check all that apply):  Air  Soil/Solid  Water  Other: \_\_\_\_\_  
(Describe)

Temp (°C)	3.4
-----------	-----

Thermometer ID: 61857155-K

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

Additional Comments (if any):

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

MP

8/19/20

\_\_\_\_\_  
Custodian Printed Name or Initials

\_\_\_\_\_  
Signature of Custodian

\_\_\_\_\_  
Date/Time



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/26/20 10:48

**MW-1**  
**2008175-01 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2008225	08/20/20	08/21/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		106 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		97.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.8 %		21-167		"	"	"	"	

Summit Scientific

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



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/26/20 10:48

**MW-2**  
**2008175-02 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2008225	08/20/20	08/21/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		100 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		96.4 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.1 %		21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/26/20 10:48

**MW-3**  
**2008175-03 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2008225	08/20/20	08/21/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		101 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.9 %		21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/26/20 10:48

**MW-4**  
**2008175-04 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2008225	08/20/20	08/21/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		103 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.9 %		21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/26/20 10:48

**MW-5**  
**2008175-05 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2008225	08/20/20	08/21/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		99.2 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.1 %		21-167		"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/26/20 10:48

**MW-6**  
**2008175-06 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2008225	08/20/20	08/21/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		99.1 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		96.5 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.0 %		21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/26/20 10:48

**MW-7**  
**2008175-07 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2008225	08/20/20	08/21/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		98.6 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.5 %		21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/26/20 10:48

**MW-8**  
**2008175-08 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **08/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	2008225	08/20/20	08/21/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **08/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		99.5 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		98.2 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.1 %		21-167		"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 08/26/20 10:48

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch 2008225 - EPA 5030 Water MS**

**Blank (2008225-BLK1)**

Prepared: 08/20/20 Analyzed: 08/21/20

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.3		101	23-173			
Surrogate: Toluene-d8	12.8		"	13.3		96.4	20-170			
Surrogate: 4-Bromofluorobenzene	12.0		"	13.3		90.0	21-167			

**LCS (2008225-BS1)**

Prepared: 08/20/20 Analyzed: 08/21/20

Benzene	33.3	1.0	ug/l	33.3		99.8	51-132			
Toluene	34.7	1.0	"	33.3		104	51-138			
Ethylbenzene	36.2	1.0	"	33.3		109	58-146			
m,p-Xylene	72.6	2.0	"	66.7		109	57-144			
o-Xylene	34.9	1.0	"	33.3		105	53-146			
Surrogate: 1,2-Dichloroethane-d4	14.1		"	13.3		106	23-173			
Surrogate: Toluene-d8	13.0		"	13.3		97.4	20-170			
Surrogate: 4-Bromofluorobenzene	11.9		"	13.3		89.3	21-167			

**Matrix Spike (2008225-MS1)**

Source: 2008175-02

Prepared: 08/20/20 Analyzed: 08/21/20

Benzene	34.0	1.0	ug/l	33.3	ND	102	34-141			
Toluene	35.4	1.0	"	33.3	ND	106	27-151			
Ethylbenzene	37.2	1.0	"	33.3	ND	112	29-160			
m,p-Xylene	74.4	2.0	"	66.7	ND	112	20-166			
o-Xylene	35.8	1.0	"	33.3	ND	107	33-159			
Surrogate: 1,2-Dichloroethane-d4	13.9		"	13.3		105	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.5	20-170			
Surrogate: 4-Bromofluorobenzene	11.7		"	13.3		87.8	21-167			

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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.



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 Wellington CO, 80549

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**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**Summit Scientific**

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

**Batch 2008225 - EPA 5030 Water MS**

**Matrix Spike Dup (2008225-MSD1)**

Source: 2008175-02

Prepared: 08/20/20 Analyzed: 08/21/20

Benzene	33.4	1.0	ug/l	33.3	ND	100	34-141	1.81	30	
Toluene	35.3	1.0	"	33.3	ND	106	27-151	0.198	30	
Ethylbenzene	37.2	1.0	"	33.3	ND	112	29-160	0.108	30	
m,p-Xylene	74.0	2.0	"	66.7	ND	111	20-166	0.445	30	
o-Xylene	35.2	1.0	"	33.3	ND	106	33-159	1.58	30	
Surrogate: 1,2-Dichloroethane-d4	14.7		"	13.3		110	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.5	20-170			
Surrogate: 4-Bromofluorobenzene	11.8		"	13.3		88.4	21-167			

Summit Scientific

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### Notes and Definitions

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