

FREMONT ENVIRONMENTAL INC.

December 18, 2020

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

Subject: **Groundwater Data Submittal**
 McDermid 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 McDermid 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. Henahan, P.E.
Senior Consultant

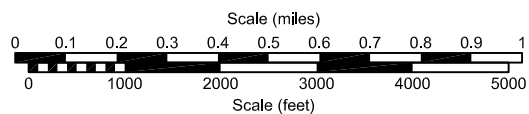
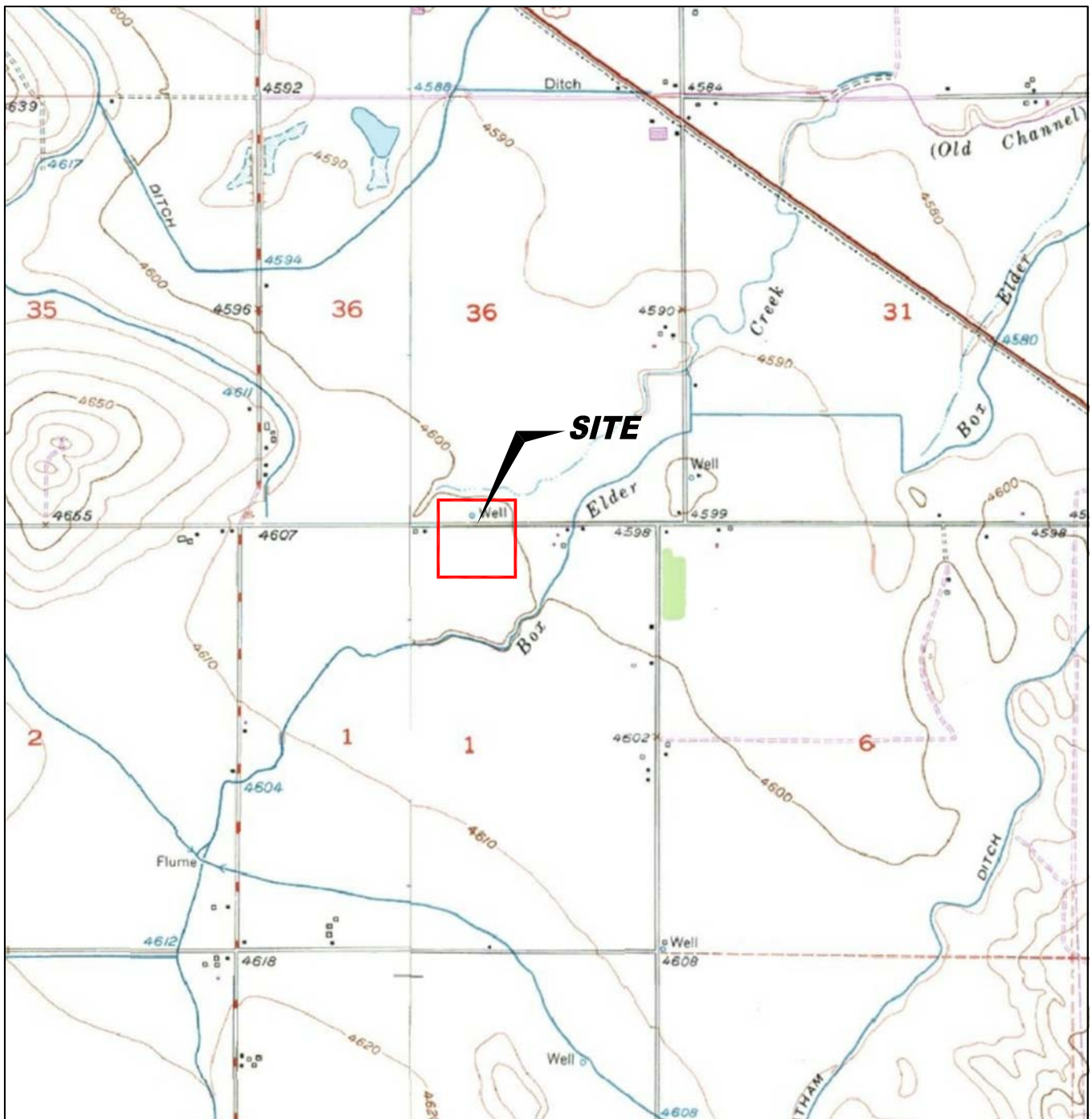
Enclosure

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

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
	08/09/20	<1.0	<1.0	<1.0	<2.0		5.80	94.20	NP
	11/19/20	<1.0	<1.0	<1.0	<2.0		6.82	93.18	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
	11/19/20	<1.0	<1.0	<1.0	<2.0		7.32	93.19	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
	11/19/20	<1.0	<1.0	<1.0	<2.0		6.85	93.13	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
	11/19/20	<1.0	<1.0	<1.0	<2.0		6.95	93.13	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
	11/19/20	<1.0	<1.0	<1.0	<2.0		6.65	92.93	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
	11/19/20	<1.0	<1.0	<1.0	<2.0		6.13	93.55	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
	11/19/20	<1.0	<1.0	<1.0	<2.0		6.21	93.19	NP

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-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
	11/19/20	<1.0	<1.0	<1.0	<2.0		6.53	93.13	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.
CO20-022

Prepared by

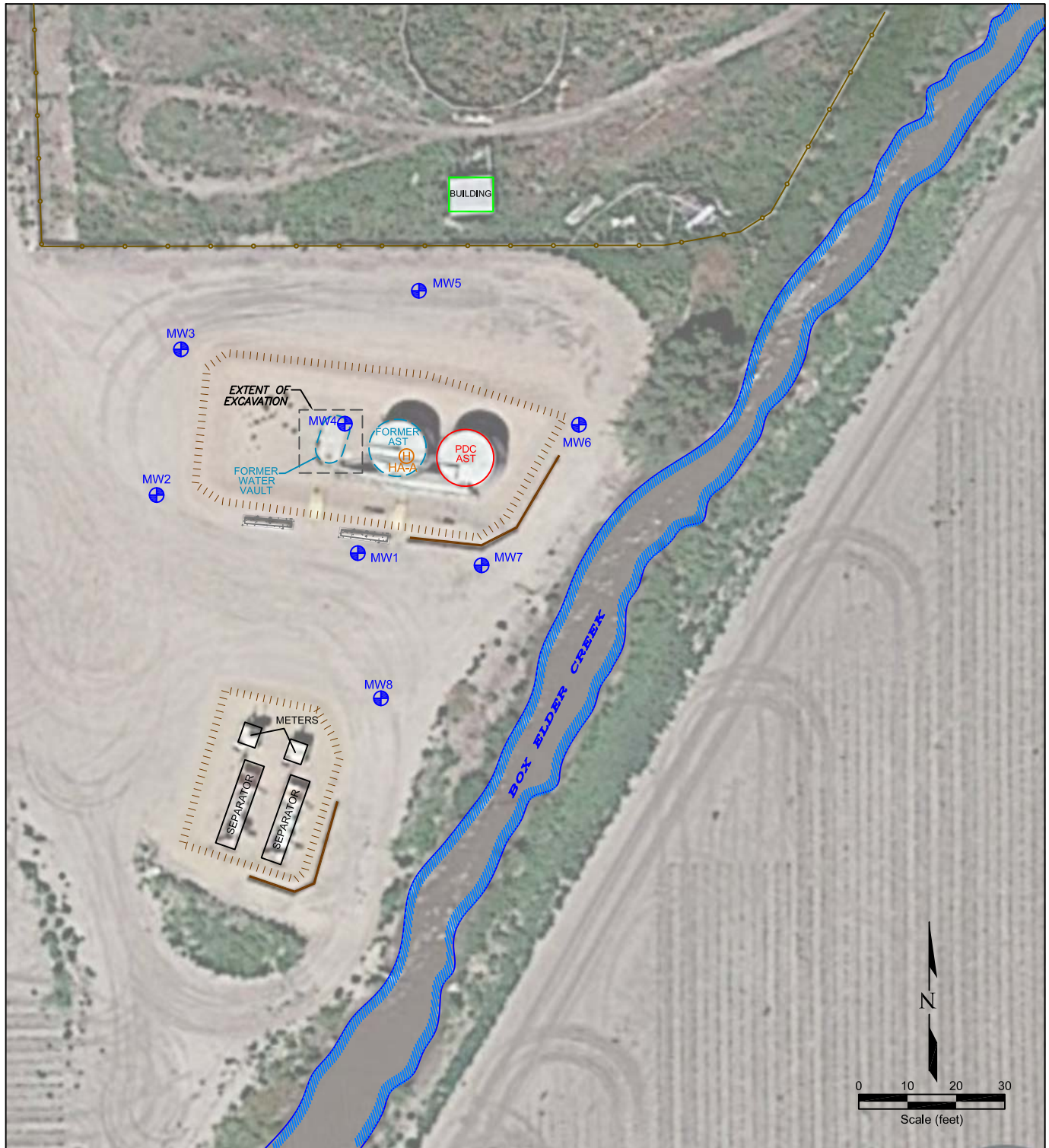
Drawn by
TA

Date
12/15/20

Reviewed by
EB

Filename
20022T





LEGEND

	MONITORING WELL		FORMER FACILITY
	HAND AUGURED WELL		BUILDING
	ABOVE GROUND STORAGE TANK		CONTAINMENT BERM
	CONCRETE BARRICADES		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.
CO20-022

Prepared by

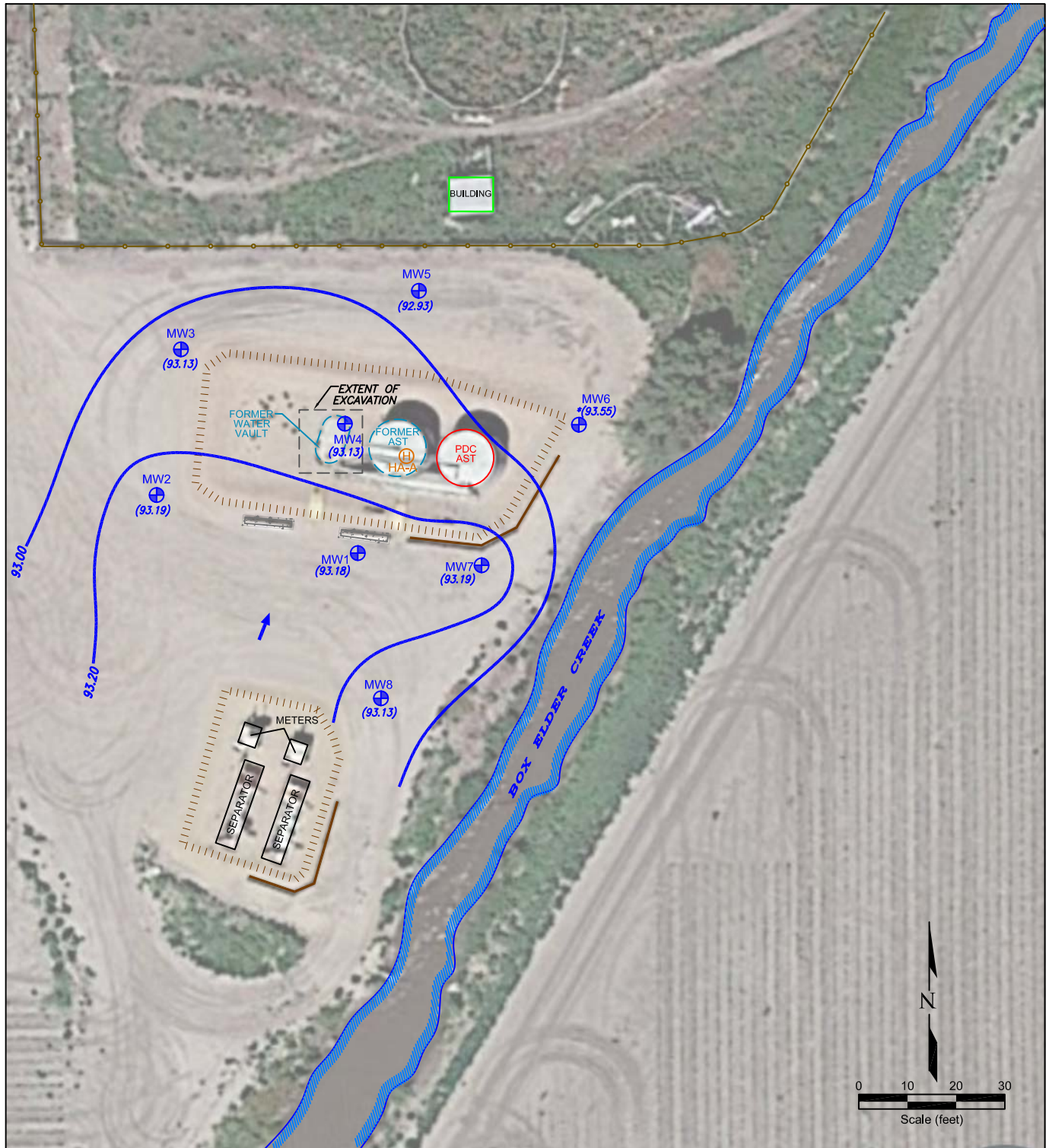
Drawn by
TA

Date
12/15/20

Reviewed by
EB

Filename
20022QQ





LEGEND

	MONITORING WELL		FORMER FACILITY
	HAND AUGURED WELL		BUILDING
	ABOVE GROUND STORAGE TANK		CONTAINMENT BERM
	CONCRETE BARRICADES		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 USED IN COTOURING		

Figure 3
INFERRED GROUNDWATER CONTOUR MAP
 November 19, 2020

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

Project No.
CO20-022

Prepared by

Drawn by
TA

Date
12/18/20

Reviewed by
EB

Filename
20022QQ



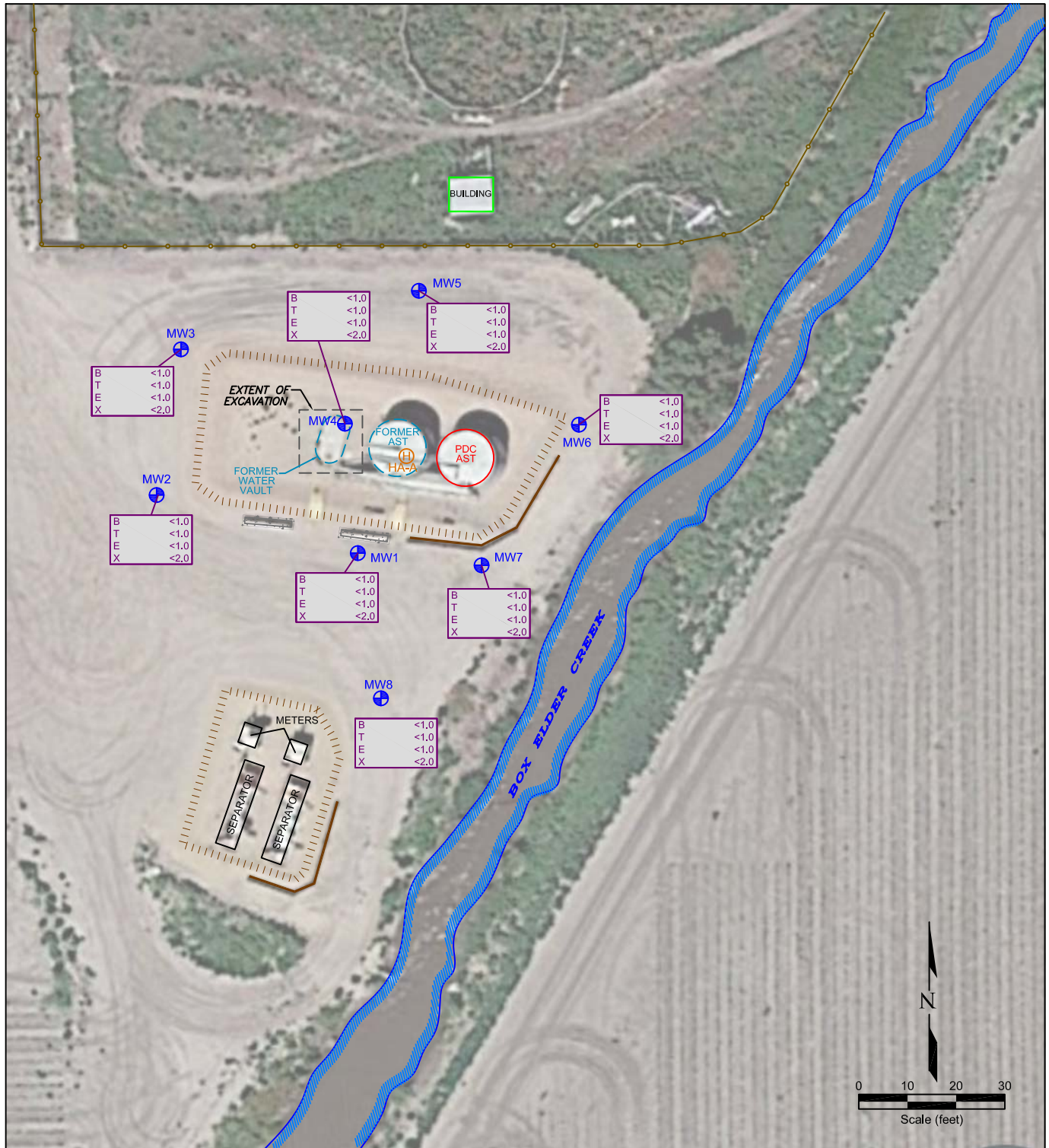


Figure 4
GROUND WATER CHEMISTRY MAP
 November 19, 2020
NOBLE ENERGY, INC. ~ McDERMED 2-1
 NWNE Sec. 1, T4N, R64W ~ 40.34695°, -104.49421°
 Weld County, Colorado

Project No. CO20-022	Prepared by TA	Drawn by TA	REMONTE ENVIRONMENTAL
Date 12/15/20	Reviewed by EB	Filename 20022QQ	

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403


303.277.9310

November 30, 2020

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - McDermed 2-1
Work Order #2011255

Enclosed are the results of analyses for samples received by Summit Scientific on 11/19/20 16:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Muri Premer", is shown on a light purple rectangular background.

Muri Premer For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/30/20 16:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	2011255-01	Water	11/19/20 00:00	11/19/20 16:30
MW-2	2011255-02	Water	11/19/20 00:00	11/19/20 16:30
MW-3	2011255-03	Water	11/19/20 00:00	11/19/20 16:30
MW-4	2011255-04	Water	11/19/20 00:00	11/19/20 16:30
MW-5	2011255-05	Water	11/19/20 00:00	11/19/20 16:30
MW-6	2011255-06	Water	11/19/20 00:00	11/19/20 16:30
MW-7	2011255-07	Water	11/19/20 00:00	11/19/20 16:30
MW-8	2011255-08	Water	11/19/20 00:00	11/19/20 16:30

Summit Scientific

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Summit Scientific

S₂

2011255

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

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com

City/State/Zip: Wellington, CO 80549

Bill to: Jacob

Phone: 303-956-8714

Project Name: Noble-McDermid 2-1

Sampler Name: EB

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	GRO	DRO	SAR	EC	pH		
1	MW-1	11/19/20		2			X		X					X							
2	MW-2	I		I			I		I					I							
3	MW-3																				
4	MW-4																				
5	MW-5																				
6	MW-6																				
7	MW-7																				
8	MW-8	I		I			I		I					I							
9																					
10																					

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>11/19/20 1630</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11/19/2020 1630</u>	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: <u>3.9</u> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]
Project Manager: Paul Henehan

Reported:
11/30/20 16:24

MW-1
2011255-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BDK0278	11/23/20	11/25/20	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		113 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %		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 - McDermid 2-1

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/30/20 16:24

MW-2
2011255-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BDK0278	11/23/20	11/25/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		117 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		119 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.7 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/30/20 16:24

MW-3
2011255-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BDK0278	11/23/20	11/25/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		96.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		115 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.9 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/30/20 16:24

MW-4
2011255-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BDK0278	11/23/20	11/25/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		97.2 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		116 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.0 %	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:
11/30/20 16:24

MW-5
2011255-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BDK0278	11/23/20	11/25/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		117 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	21-167		"	"	"	"	

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PO Box 1289
Wellington CO, 80549

Project: Noble - McDermed 2-1

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/30/20 16:24

MW-6
2011255-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BDK0278	11/23/20	11/25/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		118 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		113 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	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:
11/30/20 16:24

MW-7
2011255-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BDK0278	11/23/20	11/25/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		114 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		106 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.1 %	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:
11/30/20 16:24

MW-8
2011255-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BDK0278	11/23/20	11/25/20	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **11/19/20 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		119 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		112 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - McDermid 2-1

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/30/20 16:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BDK0278 - EPA 5030 Water MS

Blank (BDK0278-BLK1)

Prepared: 11/23/20 Analyzed: 11/24/20

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	15.2		"	13.3		114	23-173			
Surrogate: Toluene-d8	13.5		"	13.3		101	20-170			
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		98.8	21-167			

LCS (BDK0278-BS1)

Prepared: 11/23/20 Analyzed: 11/24/20

Benzene	47.5	1.0	ug/l	50.0		95.0	51-132			
Toluene	49.3	1.0	"	50.0		98.6	51-138			
Ethylbenzene	49.9	1.0	"	50.0		99.9	58-146			
m,p-Xylene	89.4	2.0	"	100		89.4	57-144			
o-Xylene	50.4	1.0	"	50.0		101	53-146			
Surrogate: 1,2-Dichloroethane-d4	14.9		"	13.3		112	23-173			
Surrogate: Toluene-d8	13.3		"	13.3		99.5	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.5	21-167			

Matrix Spike (BDK0278-MS1)

Source: 2011285-02

Prepared: 11/23/20 Analyzed: 11/24/20

Benzene	60.0	1.0	ug/l	50.0	ND	120	34-141			
Toluene	67.2	1.0	"	50.0	1.71	131	27-151			
Ethylbenzene	52.7	1.0	"	50.0	ND	105	29-160			
m,p-Xylene	52.5	2.0	"	100	1.18	51.3	20-166			
o-Xylene	53.5	1.0	"	50.0	ND	107	33-159			
Surrogate: 1,2-Dichloroethane-d4	12.2		"	13.3		91.1	23-173			
Surrogate: Toluene-d8	16.5		"	13.3		124	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		99.8	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 - McDermid 2-1

Project Number: [none]
Project Manager: Paul Henchan

Reported:
11/30/20 16:24

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BDK0278 - EPA 5030 Water MS

Matrix Spike Dup (BDK0278-MSD1)	Source: 2011285-02			Prepared: 11/23/20 Analyzed: 11/24/20						
Benzene	68.7	1.0	ug/l	50.0	ND	137	34-141	13.6	30	
Toluene	53.3	1.0	"	50.0	1.71	103	27-151	23.2	30	
Ethylbenzene	50.5	1.0	"	50.0	ND	101	29-160	4.22	30	
m,p-Xylene	50.7	2.0	"	100	1.18	49.5	20-166	3.45	30	
o-Xylene	51.4	1.0	"	50.0	ND	103	33-159	4.14	30	
Surrogate: 1,2-Dichloroethane-d4	15.7		"	13.3		118	23-173			
Surrogate: Toluene-d8	13.6		"	13.3		102	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	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