

# **FREMONT ENVIRONMENTAL INC.**

December 2, 2019

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

Subject:       **Ground Water Data Submittal**  
UPRC Federal 27-3F, 6F  
API # 05-123-15369  
SENW Sec 27, T4N, R66W  
Weld County, Colorado  
Fremont Project No. C018-169  
Location # 327961, Remediation # 12102

Dear Mr. Evans:

Enclosed please find a copy of the above referenced Ground Water Data Submittal for the UPRC Federal 27-3F, 6F site in Weld County, Colorado. The enclosed data describes the ground water 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

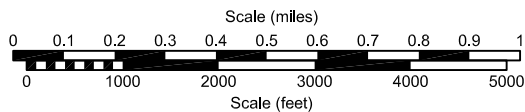
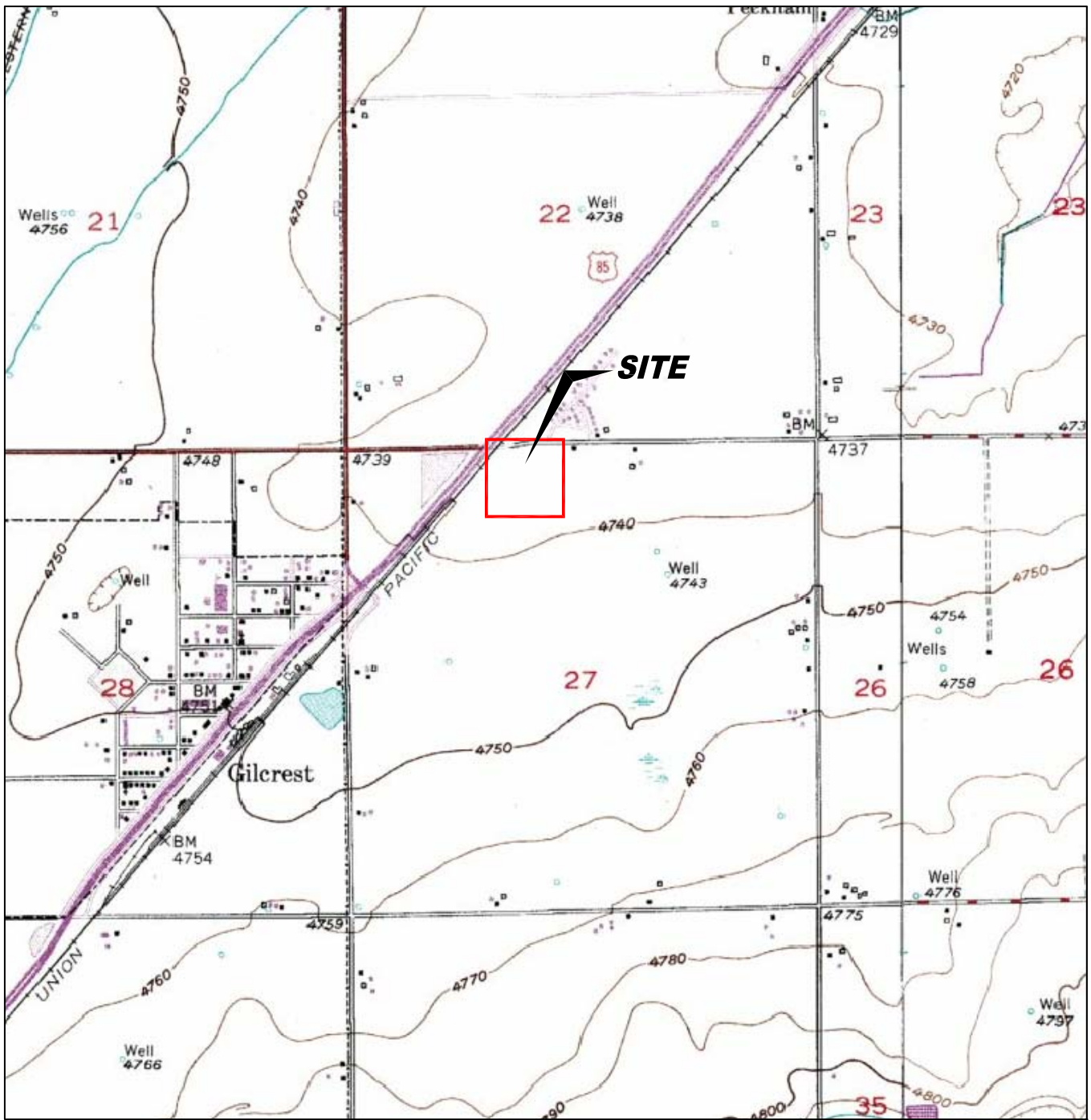
Enclosure

**TABLE 1**  
**SUMMARY OF GROUND WATER ELEVATION DATA AND CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**UPRC FEDERAL 27-3F, 6F, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C018-169**

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	11/21/18	<1.0	<1.0	<1.0	<1.0	99.68	8.00	91.68	NP
	02/28/19	<1.0	<1.0	<1.0	<2.0		9.64	90.04	NP
	05/15/19	<1.0	<1.0	<1.0	<2.0	99.47	10.73	88.74	NP
	08/12/19	<1.0	<1.0	<1.0	<2.0		8.25	91.22	NP
	11/05/19	<1.0	<1.0	<1.0	<2.0		7.83	91.64	NP
MW-2	11/21/18	<1.0	<1.0	<1.0	<1.0	100.00	8.24	91.76	NP
	02/28/19	<1.0	<1.0	<1.0	<2.0		9.84	90.16	NP
	05/15/19	<1.0	<1.0	<1.0	<2.0	99.80	10.93	88.87	NP
	08/12/19	<1.0	<1.0	<1.0	<2.0		8.53	91.27	NP
	11/05/19	<1.0	<1.0	<1.0	<2.0		8.08	91.72	NP
MW-3	11/21/18	<b>210</b>	<b>1100</b>	100	<b>1500</b>	99.77	8.10	91.67	NP
	02/28/19	<b>460</b>	290	100	<b>2600</b>		10.21	89.56	NP
	05/15/19	<b>360</b>	300	92	<b>1900</b>	100.00	11.30	88.70	NP
	08/12/19	<b>340</b>	41	63	820		10.97	89.03	NP
	11/05/19	<b>430</b>	79	120	<b>1500</b>		8.40	91.60	NP
MW-4	11/21/18	<1.0	<1.0	<1.0	<1.0	99.68	8.03	91.65	NP
	02/28/19	<1.0	<1.0	<1.0	<2.0		9.63	90.05	NP
	05/15/19	<1.0	<1.0	<1.0	<2.0	99.50	10.72	88.78	NP
	08/12/19	<1.0	<1.0	<1.0	<2.0		8.24	91.26	NP
	11/05/19	<1.0	<1.0	<1.0	<2.0		7.85	91.65	NP
MW-5	11/21/18	<1.0	<1.0	<1.0	<1.0	99.75	8.18	91.57	NP
	02/28/19	<1.0	<1.0	<1.0	3.0		9.82	89.93	NP
	05/15/19	<1.0	<1.0	<1.0	<2.0	99.54	10.91	88.63	NP
	08/12/19	<1.0	<1.0	<1.0	<2.0		8.37	91.17	NP
	11/05/19	<1.0	<1.0	<1.0	<2.0		7.99	91.55	NP
Table 910-1 Limits		5	560	700	1,400				

Bold face values exceed the COGCC limits

NP - No Free Product



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
SITE LOCATION MAP









**NOBLE UPRC FEDERAL 27-3F, 6F**  
NENW Section 27, T4N R66W  
Weld County, Colorado

Project No. <b>CO18-169</b>	Prepared by	Drawn by <b>TDA</b>
Date <b>11/15/19</b>	Reviewed by <b>EB</b>	Filename <b>18169T</b>





**LEGEND**

-  MONITORING WELL
-  CONTAINMENT WALL
-  LIMITS OF EXCAVATION
-  CONTAINMENT BERM
-  FENCE LINE
-  DCP PIPELINE
-  ABOVE GROUND STORAGE TANK
-  FORMER FACILITY

**Figure 2  
SITE MAP**

**NOBLE UPRC FEDERAL 27-3F, 6F**  
NENW Section 27, T4N R66W  
Weld County, Colorado

Project No. <b>CO18-169</b>	Prepared by	Drawn by <b>TDA</b>
Date <b>11/15/19</b>	Reviewed by <b>EB</b>	Filename <b>18169Q</b>





**LEGEND**












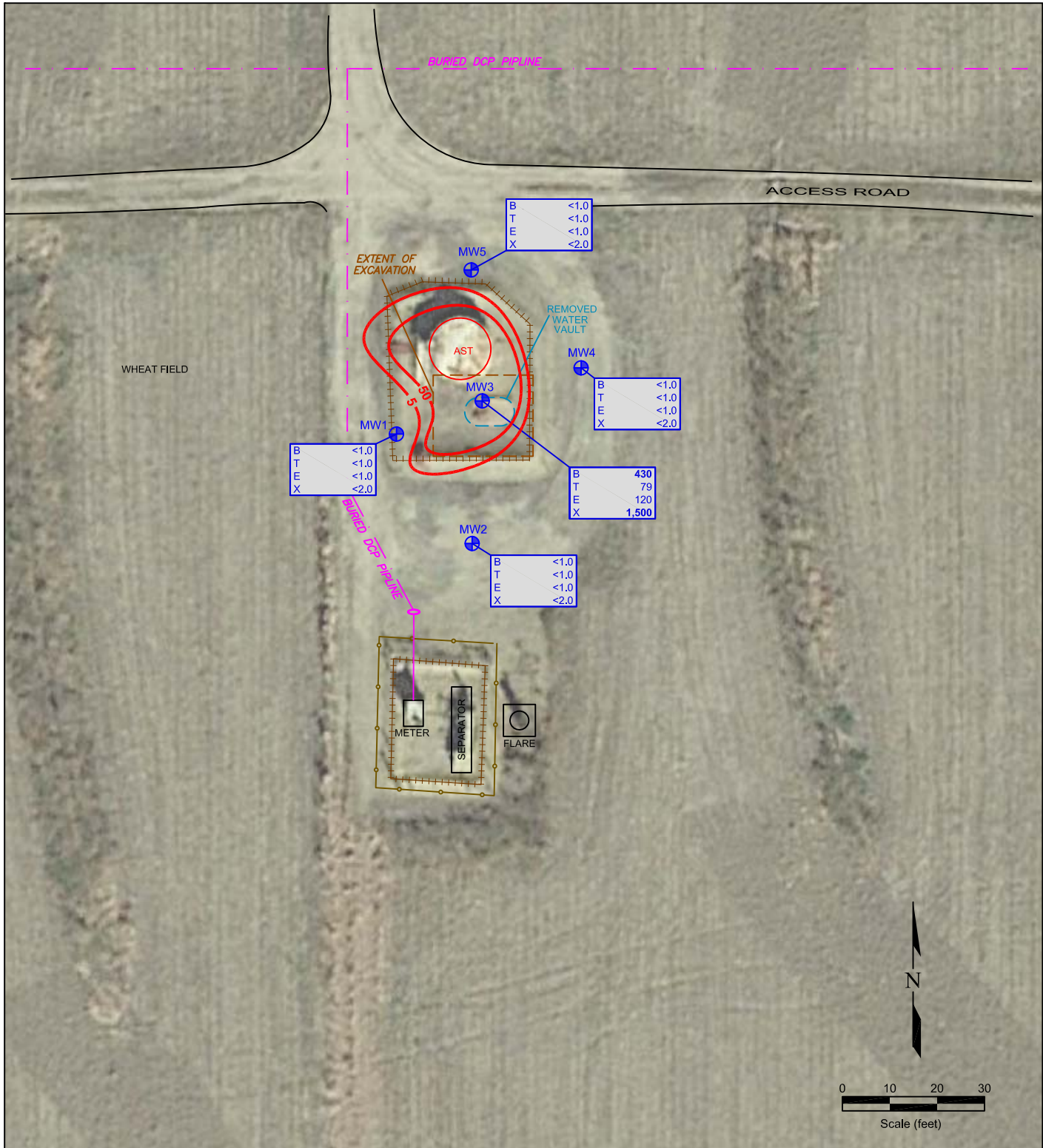
-  MONITORING WELL
-  CONTAINMENT WALL
-  LIMITS OF EXCAVATION
-  CONTAINMENT BERM
-  FENCE LINE
-  DCP PIPELINE
-  ABOVE GROUND STORAGE TANK
-  FORMER FACILITY
-  GROUND WATER ELEVATION (feet above mean sea level)
-  WATER TABLE CONTOUR (feet above mean sea level)
-  INFERRED GROUND WATER FLOW DIRECTION

Figure 3  
**INFERRED GROUNDWATER CONTOUR MAP**  
 November 5, 2019

**NOBLE UPRC FEDERAL 27-3F, 6F**  
 NENW Section 27, T4N R66W  
 Weld County, Colorado

Project No. <b>CO18-169</b>	Prepared by	Drawn by <b>TDA</b>
Date <b>11/15/19</b>	Reviewed by <b>EB</b>	Filename <b>18169Q</b>





**LEGEND**

- MONITORING WELL
- CONTAINMENT WALL
- LIMITS OF EXCAVATION
- CONTAINMENT BERM
- FENCE LINE
- DCP PIPELINE
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY

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)

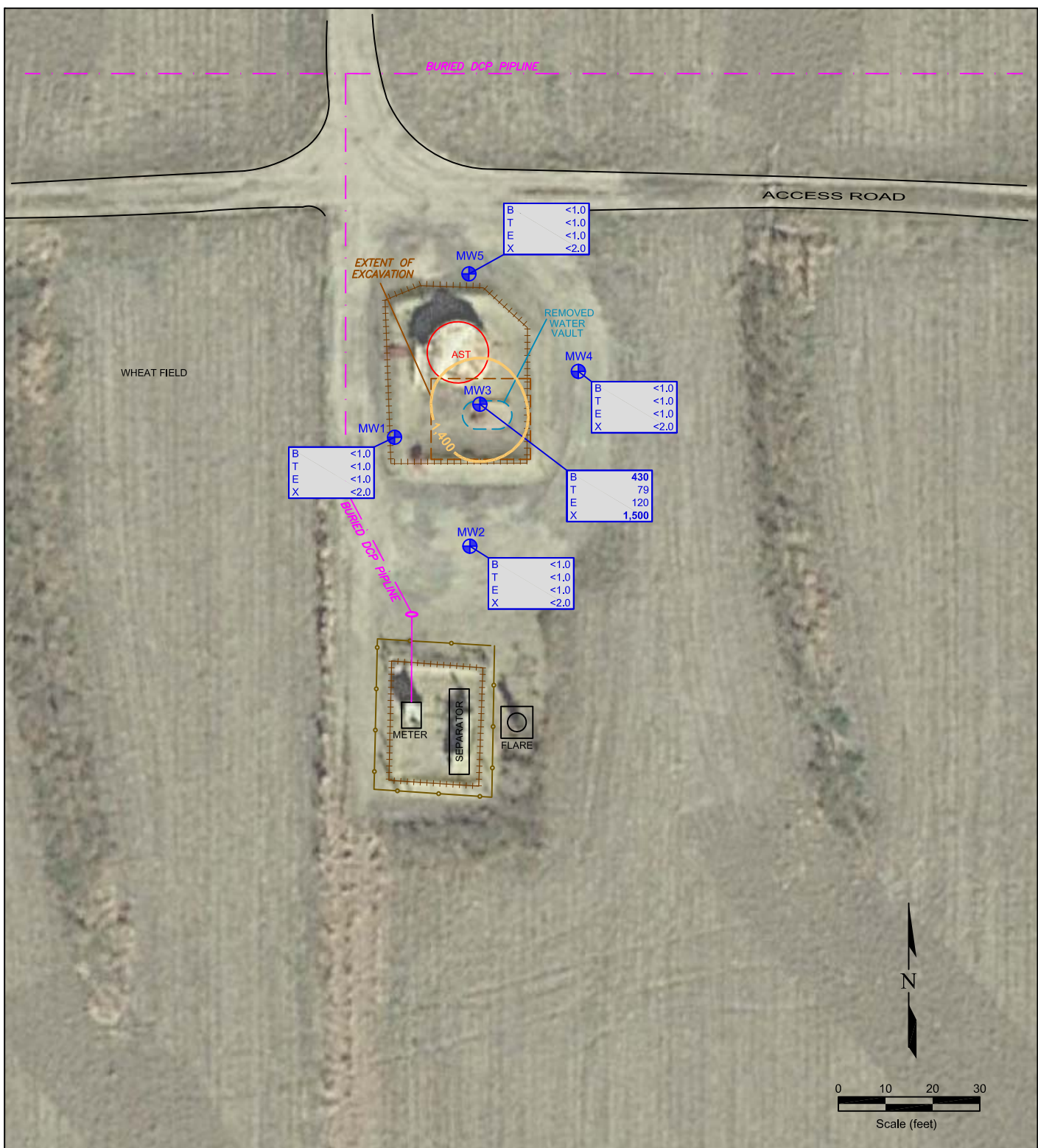


BENZENE ISOCONCENTRATION (ug/L)  
Inferred in part from historical data

Figure 4  
**GROUND WATER CHEMISTRY WITH  
 BENZENE ISO-CONCENTRATION MAP**  
 November 5, 2019  
**NOBLE UPRC FEDERAL 27-3F, 6F**  
 NENW Section 27, T4N R66W  
 Weld County, Colorado

Project No. <b>CO18-169</b>	Prepared by	Drawn by <b>TDA</b>
Date <b>11/15/19</b>	Reviewed by <b>EB</b>	Filename <b>18169Q</b>





**LEGEND**

- ⊕ MONITORING WELL
- CONTAINMENT WALL
- LIMITS OF EXCAVATION
- CONTAINMENT BERM
- FENCE LINE
- DCP PIPELINE
- FORMER FACILITY
- ABOVE GROUND STORAGE TANK

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)

( 1,400 ) XYLENES ISOCOCONCENTRATION (ug/L)  
(dashed where inferred)

**Figure 5**  
**GROUND WATER CHEMISTRY WITH**  
**XYLENES CONCENTRATION MAP**  
**November 5, 2019**  
**NOBLE UPRC FEDERAL 27-3F, 6F**  
 NENW Section 27, T4N R66W  
 Weld County, Colorado

Project No. <b>CO18-169</b>	Prepared by	Drawn by <b>TDA</b>
Date <b>11/15/19</b>	Reviewed by <b>EB</b>	Filename <b>18169Q</b>



# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 13, 2019

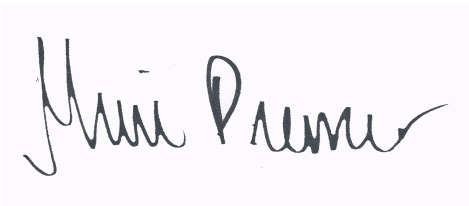
Paul Henehan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Noble - UPRC Federal 27-3F

Work Order # 1911073

Enclosed are the results of analyses for samples received by Summit Scientific on 11/06/19 17:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Muri Premer". The signature is written in a cursive style with a large initial "M" and a long, sweeping underline.

Muri Premer For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC Federal 27-3F

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
11/13/19 16:31

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	1911073-01	Water	11/05/19 00:00	11/06/19 17:10
MW-2	1911073-02	Water	11/05/19 00:00	11/06/19 17:10
MW-3	1911073-03	Water	11/05/19 00:00	11/06/19 17:10
MW-4	1911073-04	Water	11/05/19 00:00	11/06/19 17:10
MW-5	1911073-05	Water	11/05/19 00:00	11/06/19 17:10

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>

1911073

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 - UPRC Federal 27-3F

Sampler Name: Black

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	11/5/19		2			X		X					X							
2	MW-2																				
3	MW-3																				
4	MW-4																				
5	MW-5																				
6																					
7																					
8																					
9																					
10																					

Relinquished by: Ethan Black	Date/Time: 11/5/19 1710	Received by: [Signature]	Date/Time: 11/6/19 1710	<b>Turn Around Time (Check)</b> Same Day _____ 72 hours _____ 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ <b>Sample Integrity:</b> Temperature Upon Receipt: 2.4 Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

**Sample Receipt Checklist**

1911073

S2 Work Order \_\_\_\_\_

Client: FREMONT ENVIRONMENTAL Client Project ID: Node - UPRC FEDERAL 27-3F

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

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

Temp (°C)	2.4
-----------	-----

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.	✓			
Were all samples received intact <sup>(1)</sup> ?	✓			
Was adequate sample volume provided <sup>(1)</sup> ?	✓			
If custody seals are present, are they intact <sup>(1)</sup> ?			✓	
Are samples with holding times due within 48 hours sample due within 48 hours present?		✓		
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	✓			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	✓			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	✓			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	✓			
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>		✓		
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ? 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 <sup>(1)</sup> ? Record the pH in Comments.			✓	
If dissolved metals are requested, were samples field filtered?			✓	

Additional Comments (if any):

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

RE  
Custodian Printed Name or Initials

[Signature]  
Signature of Custodian

11/06/19 1715  
Date/Time



Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - UPRC Federal 27-3F

Project Number: [none]  
 Project Manager: Paul Henehan

**Reported:**  
 11/13/19 16:31

**MW-1**  
**1911073-01 (Water)**

**Summit Scientific**

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

Date Sampled: **11/05/19 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	1911086	11/07/19	11/10/19	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **11/05/19 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		87.6 %		23-173	"	"	"	"	
Surrogate: Toluene-d8		78.4 %		20-170	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.1 %		21-167	"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - UPRC Federal 27-3F

Project Number: [none]  
 Project Manager: Paul Henehan

**Reported:**  
 11/13/19 16:31

**MW-2**  
**1911073-02 (Water)**

**Summit Scientific**

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

Date Sampled: **11/05/19 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1911086	11/07/19	11/10/19	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>12</b>	2.0		"	"	"	"	"	"	

Date Sampled: **11/05/19 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		117 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		80.4 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.7 %		21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - UPRC Federal 27-3F

Project Number: [none]  
 Project Manager: Paul Henehan

**Reported:**  
 11/13/19 16:31

**MW-3**  
**1911073-03 (Water)**

**Summit Scientific**

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

Date Sampled: **11/05/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>430</b>	100	ug/l	100	1911086	11/07/19	11/10/19	EPA 8260B	
<b>Toluene</b>	<b>79</b>	1.0	"	1	"	"	"	"	
<b>Ethylbenzene</b>	<b>120</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>1500</b>	200	"	100	"	"	"	"	

Date Sampled: **11/05/19 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		77.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.2 %	21-167		"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - UPRC Federal 27-3F

Project Number: [none]  
 Project Manager: Paul Henehan

**Reported:**  
 11/13/19 16:31

**MW-4**  
**1911073-04 (Water)**

**Summit Scientific**

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

Date Sampled: **11/05/19 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1911086	11/07/19	11/10/19	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **11/05/19 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		112 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		81.3 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		21-167		"	"	"	"	

Summit Scientific

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 PO Box 1289  
 Wellington CO, 80549

Project: Noble - UPRC Federal 27-3F

Project Number: [none]  
 Project Manager: Paul Henehan

**Reported:**  
 11/13/19 16:31

**MW-5**  
**1911073-05 (Water)**

**Summit Scientific**

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

Date Sampled: **11/05/19 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	1911086	11/07/19	11/10/19	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	

Date Sampled: **11/05/19 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		121 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		81.0 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %		21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC Federal 27-3F

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
11/13/19 16:31

### 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 1911086 - EPA 5030 Water MS

##### Blank (1911086-BLK1)

Prepared: 11/07/19 Analyzed: 11/09/19

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.9		"	13.3		112	23-173			
Surrogate: Toluene-d8	6.73		"	13.3		50.5	20-170			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.3	21-167			

##### LCS (1911086-BS1)

Prepared: 11/07/19 Analyzed: 11/09/19

Benzene	41.3	1.0	ug/l	33.3		124	51-132			
Toluene	29.6	1.0	"	33.3		88.7	51-138			
Ethylbenzene	35.6	1.0	"	33.3		107	58-146			
m,p-Xylene	70.3	2.0	"	66.7		105	57-144			
o-Xylene	34.6	1.0	"	33.3		104	53-146			
Surrogate: 1,2-Dichloroethane-d4	21.9		"	13.3		165	23-173			
Surrogate: Toluene-d8	10.6		"	13.3		79.4	20-170			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.1	21-167			

##### Matrix Spike (1911086-MS1)

Source: 1911066-01

Prepared: 11/07/19 Analyzed: 11/09/19

Benzene	36.9	1.0	ug/l	33.3	ND	111	34-141			
Toluene	29.3	1.0	"	33.3	ND	88.0	27-151			
Ethylbenzene	35.9	1.0	"	33.3	ND	108	29-160			
m,p-Xylene	69.9	2.0	"	66.7	ND	105	20-166			
o-Xylene	34.4	1.0	"	33.3	ND	103	33-159			
Surrogate: 1,2-Dichloroethane-d4	15.0		"	13.3		112	23-173			
Surrogate: Toluene-d8	10.7		"	13.3		80.2	20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.8	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 - UPRC Federal 27-3F

Project Number: [none]  
 Project Manager: Paul Henehan

**Reported:**  
 11/13/19 16:31

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

**Summit Scientific**

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

**Batch 1911086 - EPA 5030 Water MS**

**Matrix Spike Dup (1911086-MSD1)**

Source: 1911066-01

Prepared: 11/07/19 Analyzed: 11/09/19

Benzene	33.8	1.0	ug/l	33.3	ND	101	34-141	8.91	30	
Toluene	29.2	1.0	"	33.3	ND	87.7	27-151	0.342	30	
Ethylbenzene	35.6	1.0	"	33.3	ND	107	29-160	0.951	30	
m,p-Xylene	70.3	2.0	"	66.7	ND	105	20-166	0.585	30	
o-Xylene	35.0	1.0	"	33.3	ND	105	33-159	1.96	30	
Surrogate: 1,2-Dichloroethane-d4	23.1		"	13.3		173	23-173			
Surrogate: Toluene-d8	10.6		"	13.3		79.9	20-170			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		95.9	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