

December 19, 2023

## Noble Energy Inc. – UPRC #27-9F Tank Battery

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### Groundwater

NESE Sec 27, T4N, R66W

40.278319, -104.754134

Weld County, Colorado

Fremont Project No. C022-025

Location # 327969, Remediation # 18876

### Site Overview – Site History

The site consists of the former tank battery for the UPRC 27-9F natural gas well. The UPRC 27-9F well was drilled in 1992 to a depth of approximately 7,378 feet. Soil impacts were identified at the former tank battery location following the facility's abandonment.

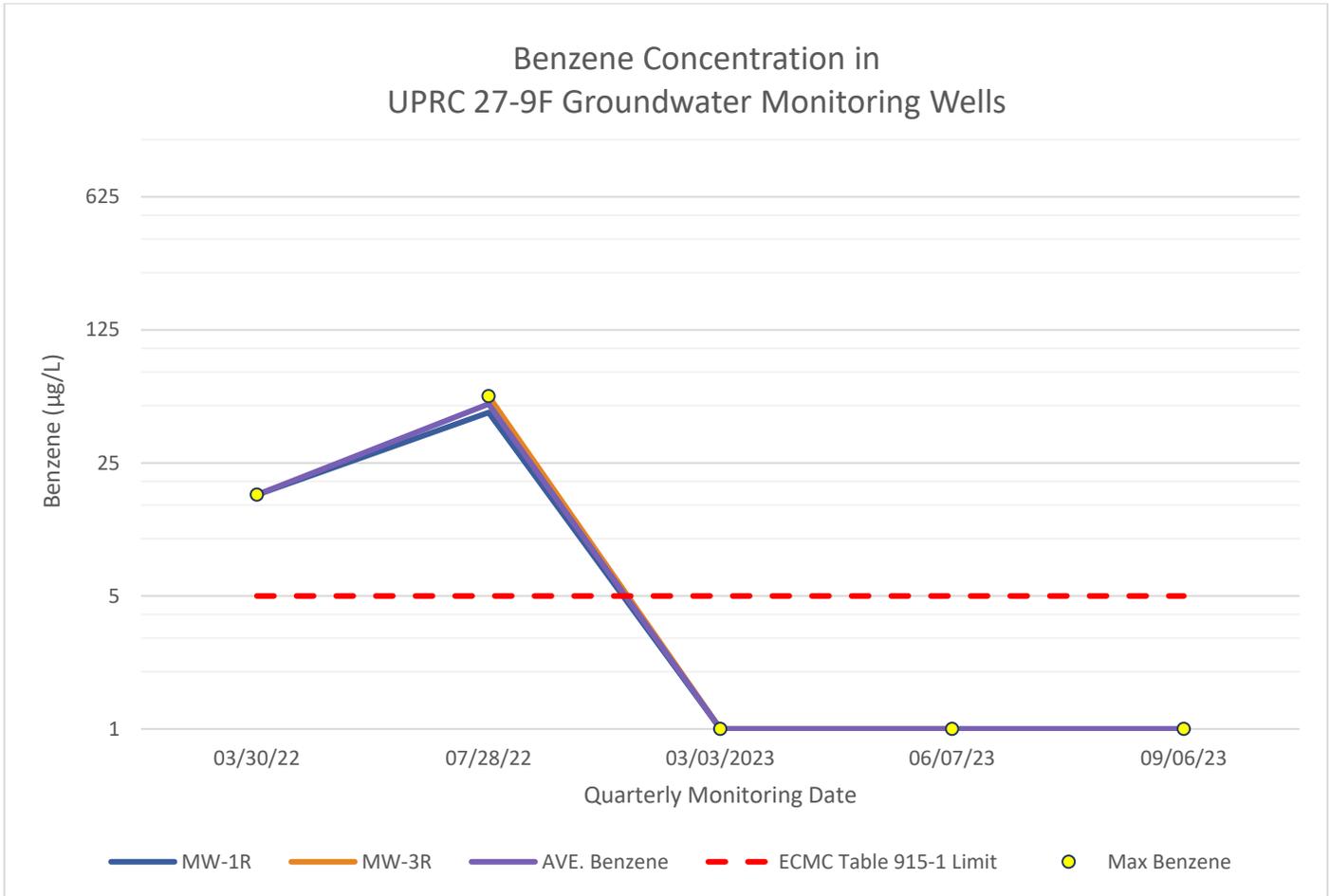
### Conceptual Site Model\*

\*Data presented represents the most recent sampling event

- **Land Use** – Agricultural crop land
- **Soil Type (USCS)** – SP
- **Potential Receptors within ¼ mile** – dwelling ~0.12 mi SE, pond ~0.16 mi SW
- **Inferred Groundwater Gradient (Ft/Ft) and Flow Direction** – 0.0013 (Ft/Ft) South
- **Average Depth to Groundwater** – 5.465 (ft)
- **Impacted Media and Extent** – Groundwater
- **LNAPL Present** – No
- **Points of Compliance** – Yes, compliant in all cardinal directions
- **Number of Consecutive ECMC Compliant Quarters** – Three
- **Remediation Type** – Excavation and MNA
- **Remediation System Activation Date** – N/A

### Contaminants of Concern (COC)

The laboratory data indicates that dissolved phase organic constituents were below their respective ECMC Table 915-1 standards in two of two wells sampled during the September 2023 quarterly monitoring event. No monitoring well exceeded the ECMC Table 915-1 standards of 5 ug/L for Benzene. The groundwater analytical data is summarized in Table 1 and illustrated in Figure 4. A copy of the laboratory's report, quality control data, and chain-of-custody documentation is attached.



## Remedial Actions

Monitored natural attenuation of ground water will continue quarterly until all monitoring wells achieve the ECMC Table 915-1 concentration standards for four consecutive quarters.

## 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.

Please contact me at (303) 261-6246 if you require any additional information.

Fremont appreciates the opportunity to provide this service.

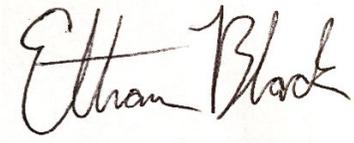
12/19/23

Date \_\_\_\_\_

Stanley Gilbert

Environmental Scientist

Reviewed by:

A handwritten signature in black ink that reads "Ethan Black". The signature is written in a cursive style with a large initial "E".

12/19/23

Date \_\_\_\_\_

\_\_\_\_\_  
Ethan D. Black, P.G.

Geologist

Attachments:

Tables

Figures

Laboratory Reports

**TABLE 1**  
**SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**UPRC 27-9F, WELD COUNTY, COLORADO**  
**FREMONT PROJECT NO. C022-025**

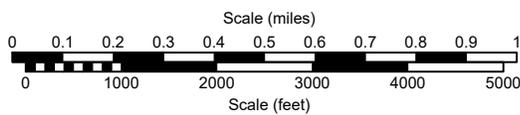
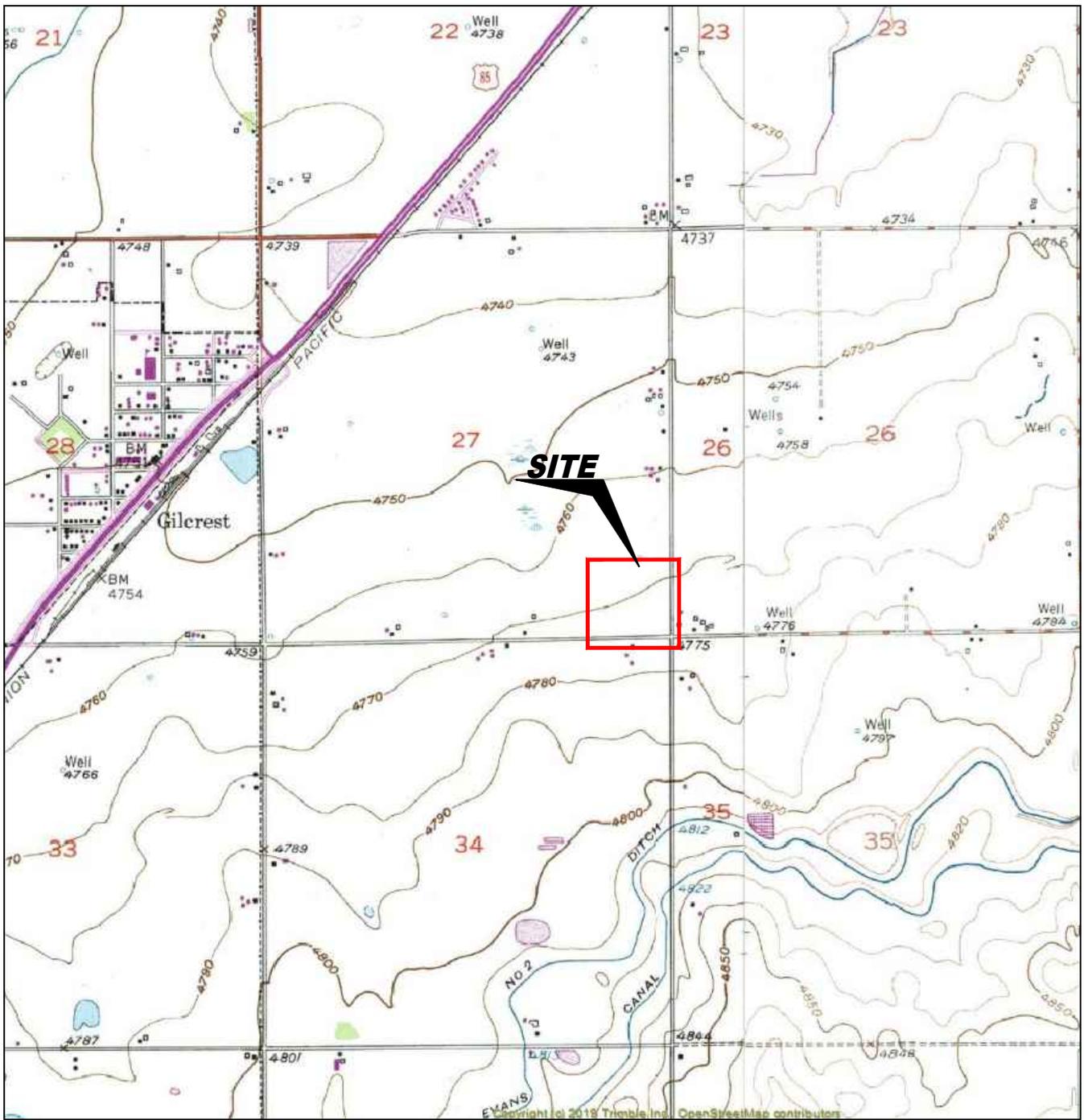
Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-Trimethyl-Benzene (µg/L)	1,3,5-Trimethyl-Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
ECMC Table 915-1 Limits		5.0	560	700	1400	140	67	67				
MW-1	03/30/22	17	<1.0	1.44	11	<2.0	<2.0	20.7	99.47	NA	NA	NA
	07/28/22	46	<1.0	34	38	11	28	12		6.91	92.56	NP
MW-1R	03/03/2023	<1.0	<1.0	17	59	5.9	19	13	100.01	6.54	93.47	NP
	06/07/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		3.38	96.63	NP
	09/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		4.20	95.81	NP
MW-2R	03/03/2023	1.8	<1.0	7.4	14	4.2	42	9.5	100	6.29	93.71	NP
	06/07/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		3.16	96.84	NP
	09/06/23	DES	DES	DES	DES	DES	DES	DES		DES	DES	DES
MW-3	07/28/22	56	<1.0	150	11000	27	990	700	99.81	7.2	92.61	NP
MW-3R	03/03/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.49	6.98	93.51	NP
	06/07/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		3.79	96.7	NP
	09/06/23	DES	DES	DES	DES	DES	DES	DES		DES	DES	DES

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-Trimethyl-Benzene (µg/L)	1,3,5-Trimethyl-Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
ECMC Table 915-1 Limits		5.0	560	700	1400	140	67	67				
MW-5	07/28/22	<1.0	<1.0	<1.0	20	<1.0	2	5.2	99.98	7.6	92.38	NP
MW-5R	03/03/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.28	5.56	94.72	NP
	06/07/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		5.24	95.04	NP
	09/06/23	DES	DES	DES	DES	DES	DES	DES		DES	DES	DES
MW-6	07/28/22	2.1	<1.0	<1.0	69	1.5	25	34	100	7.54	92.46	NP
MW-6R	03/03/2023	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	99.62	6.12	93.5	NP
	06/07/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		3.08	96.54	NP
	09/06/23	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		3.78	95.84	NP
MW-7	07/28/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	100.72	7.91	92.81	NP
	03/03/23	DES	DES	DES	DES	DES	DES	DES		DES	DES	DES
MW-301015	07/28/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	95.71	3.09	92.62	NP
	03/03/23	NS	NS	NS	NS	NS	NS	NS		NS	NS	NS

Bold face values exceed the ECMC concentration limits

Red highlighted 915-1 Limits indicate the referenced groundwater screening level

NP - No measurable LNAPL, NA - Not Analyzed, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed



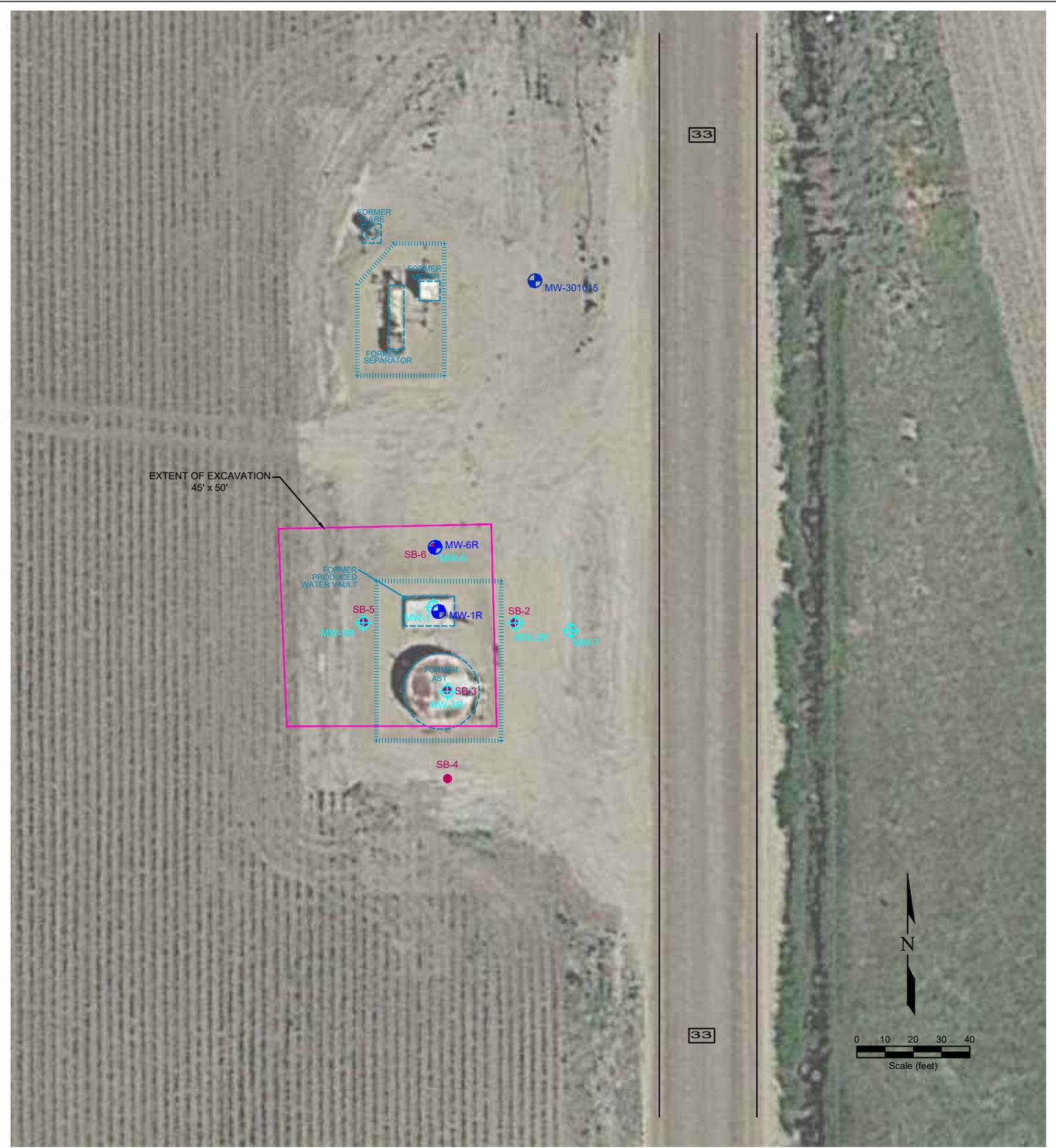
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
SITE LOCATION MAP

**Noble Energy, Inc. ~ UPRC #27 - 9F**  
 NESE Sec. 27, T4N, R66W, 6th PM  
 Weld County, Colorado  
 40.278319°, -104.754134°

Project # <b>C022-025</b>	API # <b>05-123-15377</b>	Facility # <b>481568</b>
Date <b>12/18/23</b>	Remediation # <b>18876</b>	Filename <b>22025T</b>





**LEGEND**

- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- ⊕ PRE-EXISTING WELLS
- ⊕ DESTROYED MONITORING WELL
- ⊕ MONITORING WELL
- FORMER FACILITY
- CONTAINMENT BERM
- EXTENT OF EXCAVATION

**Figure 2  
SITE MAP**

**Noble Energy, Inc. ~ UPRC #27 - 9F**  
 NESE Sec. 27, T4N, R66W, 6th PM  
 Weld County, Colorado  
 40.278319°, -104.754134°

Project No. <b>C022-025</b>	API # <b>05-123-15377</b>	Facility # <b>327969</b>
Date <b>12/18/23</b>	Remediation # <b>18876</b>	Filename <b>22025T</b>





**LEGEND**

- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- ⊕ PRE-EXISTING WELLS MONITORING WELL
- ⊕ DESTROYED MONITORING WELL
- ⊕ (NM) NOT MEASURED
- ⊕ (DES) DESTROYED MONITORING WELL
- 92.50 GROUND WATER ELEVATION (ft above arbitrary datum)
- GROUND WATER FLOW DIRECTION
- WATER TABLE CONTOUR
- FORMER FACILITY
- CONTAINMENT BERM
- EXTENT OF EXCAVATION

Figure 3

**INFERRED GROUNDWATER CONTOUR MAP**

**September 6, 2023**

**Noble Energy, Inc. ~ UPRC #27 - 9F**

NESE Sec. 27, T4N, R66W, 6th PM

Weld County, Colorado

40.278319°, -104.754134°

Project No. <b>C022-025</b>	API # <b>05-123-15377</b>	Facility # <b>327969</b>
Date <b>12/18/23</b>	Remediation # <b>18876</b>	Filename <b>22025T</b>





# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 19, 2023

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549  
RE: Noble - UPRC 27-9F  
Work Order #2309083

Enclosed are the results of analyses for samples received by Summit Scientific on 09/06/23 16:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/19/23 09:41

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1R	2309083-01	Water	09/06/23 15:15	09/06/23 16:35
MW-6R	2309083-02	Water	09/06/23 15:20	09/06/23 16:35

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.*



4653 Table Mountain Drive  
Golden, CO 80403  
303-277-9310

Lab ID	Page 1 of 1
2309083	

Client: Fremont Environmental		Project Manager: Paul Henahan		Company: Noble	
Address:		E-Mail: Fremont Distribution List		Project Name/Location: WPRC 27-9F	
City/State/Zip:				AFE#:	
Phone: 303-261-6246		Project Name: WPRC 27-9F		PO/Billing Codes:	
Sampler Name: Stanley Gilbert		Project Number:		Contact: Dan Peterson	

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, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate
1	MW-1R	9/6/23	15:15	4	3		1			X							X	X	
2	MW-6R	9/6/23	16:20	4	3		1			X							X	X	
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <i>[Signature]</i>	Date/Time: 9/6/23 16:35	Received by: Summit North	Date/Time: 9/6/23 16:35	TAT Business Days	Field DO	Notes:
Relinquished by: <i>[Signature]</i>	Date/Time: 9/6/23 16:35	Received by: <i>[Signature]</i>	Date/Time: 9/6/23 16:35	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 11.7	Corrected Temperature: <i>[Symbol]</i>	IR gun #: 1	HNO3 lot #:	Standard	X Field Turb.	

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 23091083

Client: Fremont

Client Project ID: UPRC 27-9F

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #: \_\_\_\_\_

<input type="checkbox"/>				
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Matrix (Check all that apply)

Air

Soil/Solid

Water

Other

Temp (°C)

Thermometer #

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? <sup>(1)</sup> NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ICE
If custody seals are present, are they intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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"/>	
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"/>	
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"/>	
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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	no time stamps
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
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.

AB

Custodian Printed Name

9/6/23

Date/Time

3000



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/19/23 09:41

**MW-1R**  
**2309083-01 (Water)**

**Summit Scientific**

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

Date Sampled: **09/06/23 15:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BGI0176	09/07/23	09/08/23	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **09/06/23 15:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	16.7	126 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	16.6	124 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.4	100 %		21-167		"	"	"	"	

**Dissolved Metals by EPA Method 200.8**

Date Sampled: **09/06/23 15:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Barium</b>	<b>55.9</b>	1.00		ug/l	1	BGI0196	09/08/23	09/08/23	EPA 200.8	

**Anions by EPA Method 300.0**

Date Sampled: **09/06/23 15:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Chloride</b>	<b>440</b>	12.0		mg/L	200	BGI0372	09/13/23	09/15/23	EPA 300.0	
<b>Sulfate</b>	<b>593</b>	60.0		"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

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 27-9F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 09/19/23 09:41

**MW-1R**  
**2309083-01 (Water)**

**Summit Scientific**

**Total Dissolved Solids by SM2540C**

Date Sampled: **09/06/23 15:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>2220</b>	10.0		mg/L	1	BGI0165	09/07/23	09/07/23	SM2540C	

Summit Scientific



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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/19/23 09:41

**MW-6R**  
**2309083-02 (Water)**

**Summit Scientific**

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

Date Sampled: **09/06/23 15:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BGI0176	09/07/23	09/08/23	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

Date Sampled: **09/06/23 15:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	15.6	117 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	16.6	125 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.4	101 %	21-167		"	"	"	"	

**Dissolved Metals by EPA Method 200.8**

Date Sampled: **09/06/23 15:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Barium</b>	<b>39.3</b>	1.00	ug/l	1	BGI0196	09/08/23	09/08/23	EPA 200.8	

**Anions by EPA Method 300.0**

Date Sampled: **09/06/23 15:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Chloride</b>	<b>273</b>	12.0	mg/L	200	BGI0372	09/13/23	09/15/23	EPA 300.0	
<b>Sulfate</b>	<b>198</b>	60.0	"	"	"	"	"	"	

**Total Dissolved Solids by SM2540C**

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 09/19/23 09:41

**MW-6R**  
**2309083-02 (Water)**

**Summit Scientific**

**Total Dissolved Solids by SM2540C**

Date Sampled: **09/06/23 15:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<b>Total Dissolved Solids</b>	<b>1180</b>	10.0		mg/L	1	BGI0165	09/07/23	09/07/23	SM2540C	

Summit Scientific



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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/19/23 09:41

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

#### Summit Scientific

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

#### Batch BGI0176 - EPA 5030 Water MS

##### Blank (BGI0176-BLK1)

Prepared & Analyzed: 09/07/23

Benzene	ND	1.0	ug/l								
Toluene	ND	1.0	"								
Ethylbenzene	ND	1.0	"								
Xylenes (total)	ND	2.0	"								
Naphthalene	ND	1.0	"								
Surrogate: 1,2-Dichloroethane-d4	15.9		"	13.3		119		23-173			
Surrogate: Toluene-d8	16.2		"	13.3		121		20-170			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102		21-167			

##### LCS (BGI0176-BS1)

Prepared & Analyzed: 09/07/23

Benzene	42.7	1.0	ug/l	33.3		128		51-132			
Toluene	44.5	1.0	"	33.3		133		51-138			
Ethylbenzene	42.5	1.0	"	33.3		128		58-146			
m,p-Xylene	83.5	2.0	"	66.7		125		57-144			
o-Xylene	42.4	1.0	"	33.3		127		53-146			
Naphthalene	34.5	1.0	"	33.3		103		70-130			
Surrogate: 1,2-Dichloroethane-d4	18.7		"	13.3		140		23-173			
Surrogate: Toluene-d8	15.3		"	13.3		115		20-170			
Surrogate: 4-Bromofluorobenzene	15.6		"	13.3		117		21-167			

##### Matrix Spike (BGI0176-MS1)

Source: 2309075-01

Prepared & Analyzed: 09/07/23

Benzene	45.0	1.0	ug/l	33.3	ND	135		34-141			
Toluene	49.4	1.0	"	33.3	ND	148		27-151			
Ethylbenzene	42.8	1.0	"	33.3	ND	128		29-160			
m,p-Xylene	85.1	2.0	"	66.7	ND	128		20-166			
o-Xylene	43.1	1.0	"	33.3	ND	129		33-159			
Naphthalene	39.5	1.0	"	33.3	ND	118		70-130			
Surrogate: 1,2-Dichloroethane-d4	19.3		"	13.3		145		23-173			
Surrogate: Toluene-d8	15.5		"	13.3		116		20-170			
Surrogate: 4-Bromofluorobenzene	15.5		"	13.3		116		21-167			

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 09/19/23 09:41

**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 BGI0176 - EPA 5030 Water MS**

Matrix Spike Dup (BGI0176-MSD1)	Source: 2309075-01			Prepared & Analyzed: 09/07/23						
Benzene	36.0	1.0	ug/l	33.3	ND	108	34-141	22.4	30	
Toluene	40.2	1.0	"	33.3	ND	121	27-151	20.6	30	
Ethylbenzene	34.0	1.0	"	33.3	ND	102	29-160	22.8	30	
m,p-Xylene	69.1	2.0	"	66.7	ND	104	20-166	20.8	30	
o-Xylene	33.6	1.0	"	33.3	ND	101	33-159	24.8	30	
Naphthalene	37.8	1.0	"	33.3	ND	114	70-130	4.19	30	
Surrogate: 1,2-Dichloroethane-d4	21.0		"	13.3		157	23-173			
Surrogate: Toluene-d8	16.1		"	13.3		120	20-170			
Surrogate: 4-Bromofluorobenzene	14.9		"	13.3		112	21-167			

Summit Scientific

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Project: Noble - UPRC 27-9F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/19/23 09:41

**Dissolved Metals by EPA Method 200.8 - Quality Control**  
**Summit Scientific**

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

**Batch BGI0196 - EPA 200.8**

**Blank (BGI0196-BLK1)**

Prepared & Analyzed: 09/08/23

Barium ND 1.00 ug/l

**LCS (BGI0196-BS1)**

Prepared & Analyzed: 09/08/23

Barium 482 1.00 ug/l 500 96.5 85-115

**LCS (BGI0196-BS2)**

Prepared & Analyzed: 09/08/23

Barium 488 1.00 ug/l 500 97.5 85-115

**LCS (BGI0196-BS3)**

Prepared & Analyzed: 09/08/23

Barium 488 1.00 ug/l 500 97.6 85-115

**LCS (BGI0196-BS4)**

Prepared & Analyzed: 09/08/23

Barium 538 1.00 ug/l 500 108 85-115

**Duplicate (BGI0196-DUP1)**

Source: 2309063-02

Prepared & Analyzed: 09/08/23

Barium 69.5 1.00 ug/l 70.5 1.39 20

**Matrix Spike (BGI0196-MS1)**

Source: 2309063-02

Prepared & Analyzed: 09/08/23

Barium 563 1.00 ug/l 500 70.5 98.5 70-130

**Matrix Spike Dup (BGI0196-MSD1)**

Source: 2309063-02

Prepared & Analyzed: 09/08/23

Barium 597 1.00 ug/l 500 70.5 105 70-130 5.77 25

Summit Scientific

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Project: Noble - UPRC 27-9F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 09/19/23 09:41

**Anions by EPA Method 300.0 - Quality Control**  
**Summit Scientific**

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

**Batch BGI0372 - General Preparation**

**Blank (BGI0372-BLK1)**

Prepared: 09/13/23 Analyzed: 09/14/23

Chloride	ND	0.0600	mg/L						
Sulfate	ND	0.300	"						

**LCS (BGI0372-BS1)**

Prepared: 09/13/23 Analyzed: 09/14/23

Chloride	3.28	0.0600	mg/L	3.00	109	90-110		
Sulfate	14.7	0.300	"	15.0	98.2	90-110		

**Duplicate (BGI0372-DUP1)**

Source: 2309052-01

Prepared: 09/13/23 Analyzed: 09/14/23

Chloride	652	12.0	mg/L		681		4.44	20
Sulfate	1390	60.0	"		1440		3.73	20

**Matrix Spike (BGI0372-MS1)**

Source: 2309052-01

Prepared: 09/13/23 Analyzed: 09/14/23

Chloride	1280	12.0	mg/L	600	681	101	80-120	
Sulfate	4540	60.0	"	3000	1440	103	80-120	

Summit Scientific

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Project: Noble - UPRC 27-9F

Project Number: [none]  
 Project Manager: Paul Henchan

**Reported:**  
 09/19/23 09:41

**Total Dissolved Solids by SM2540C - Quality Control**

**Summit Scientific**

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

**Batch BGI0165 - General Preparation**

**Blank (BGI0165-BLK1)**

Prepared & Analyzed: 09/07/23

Total Dissolved Solids      ND      10.0      mg/L

**Duplicate (BGI0165-DUP1)**

Source: 2309078-25

Prepared & Analyzed: 09/07/23

Total Dissolved Solids      1900      10.0      mg/L      1860      2.13      20

Summit Scientific



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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - UPRC 27-9F

Project Number: [none]  
Project Manager: Paul Henchan

**Reported:**  
09/19/23 09:41

### 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