

December 19, 2023

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

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*

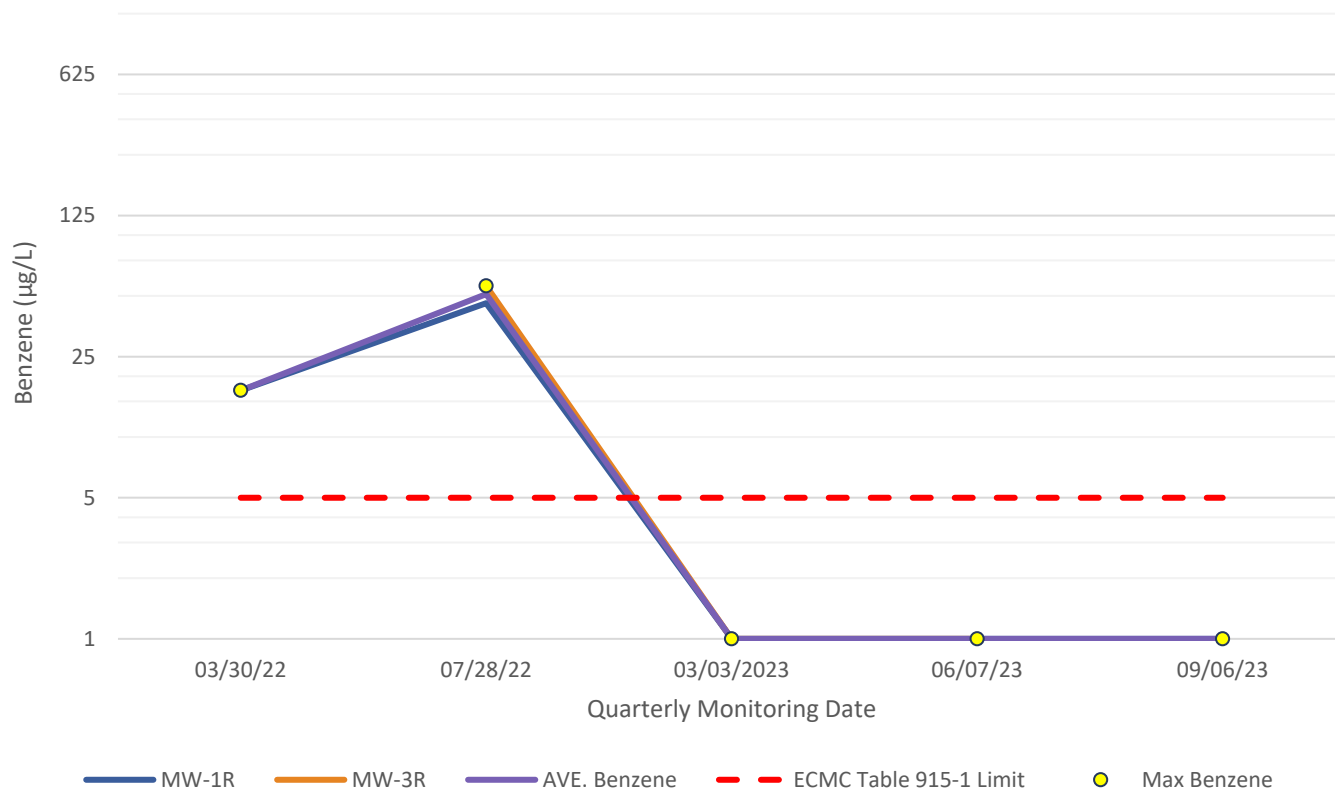
*Data presented represents the most recent sampling event

- **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.

Benzene Concentration in UPRC 27-9F Groundwater Monitoring Wells



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.

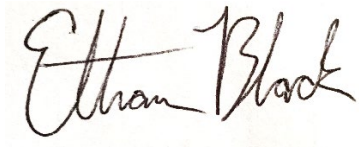
12/19/23

Date _____

Stanley Gilbert

Environmental Scientist

Reviewed by:

A handwritten signature in black ink that reads "Ethan Black". The signature is written in a cursive, flowing style.

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

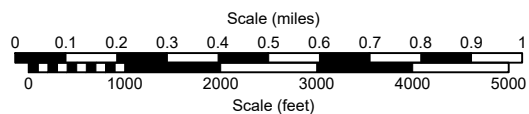
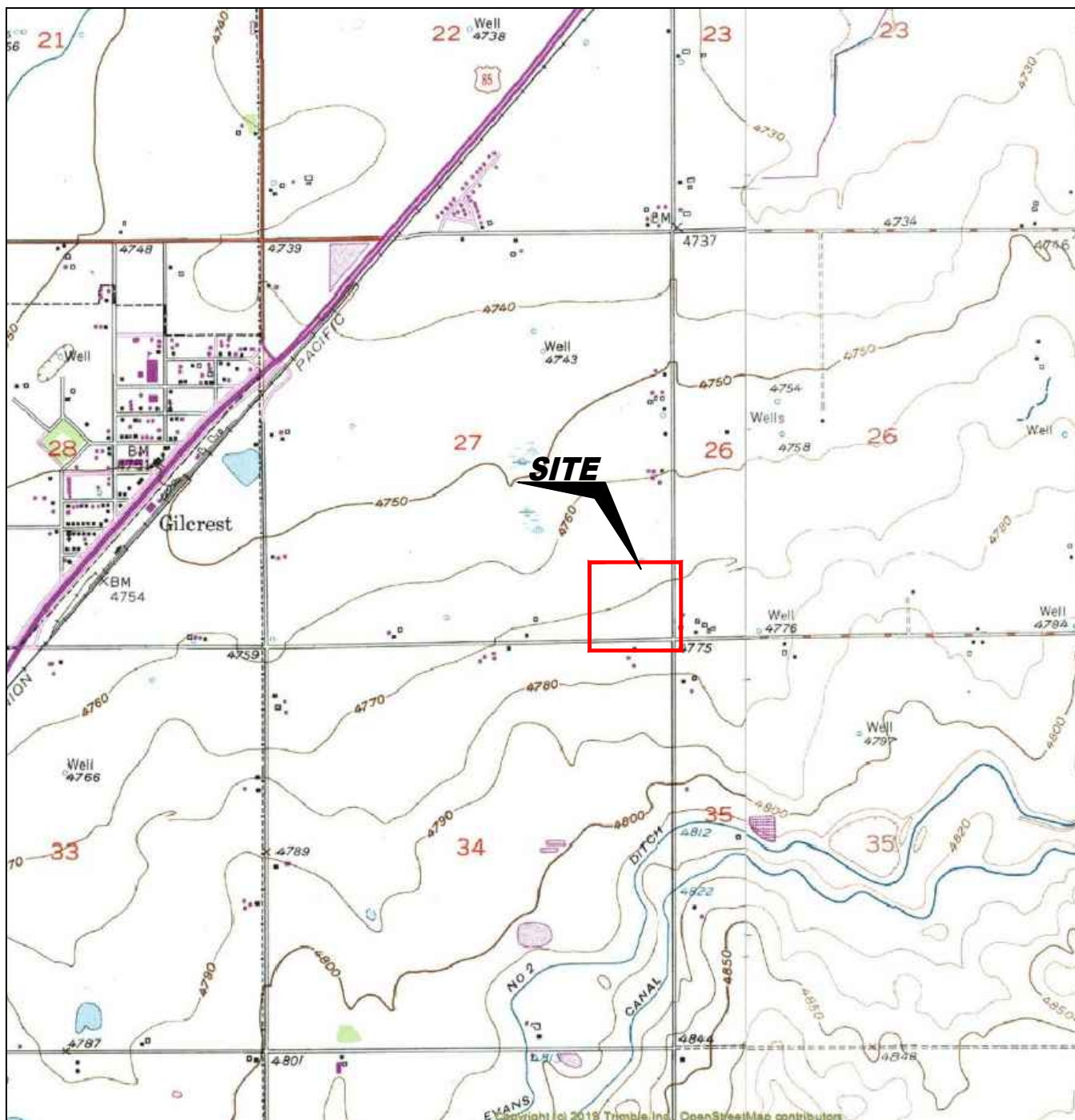
Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- Trimethyl- Benzene (µg/L)	1,3,5- Trimethyl- Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
ECMC Table 915-1 Limits		5.0	560	700	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 # C022-025	API # 05-123-15377	Facility # 481568
Date 12/18/23	Remediation # 18876	Filename 22025T





LEGEND

- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- ⊕ PRE-EXISTING MONITORING WELL
- ⊕ DESTROYED 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. C022-025	API # 05-123-15377	Facility # 327969
Date 12/18/23	Remediation # 18876	Filename 22025T



Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 19, 2023

Paul Henchan

Fremont Environmental

PO Box 1289

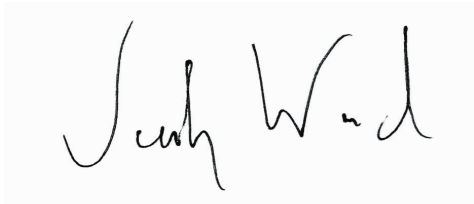
Wellington, CO 80549

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 black ink, appearing to read "Jacob Wood". The signature is written in a cursive, flowing style.

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		Send Data To: Project Manager: Paul Henehan	Send Invoice To: 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

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

Relinquished by:	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:	Date/Time: 9/6/23 16:35	Received by:	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:	IR gun #: 1	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2309083Client: FremontClient Project ID: UPRC 27-9FShipped Via: H.D./P.U./FedEx/UPS/USPS/Other

Airbill #:

--	--	--	--	--

Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☒

Other

☐

Temp (°C)

11.7

Thermometer #

1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ 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? ⁽¹⁾	<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 ²⁺), Hexavalent Chromium (Cr ⁶⁺ , 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? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<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)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HCl
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ 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):				

⁽¹⁾ 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		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 15:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Barium	55.9	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		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chloride	440	12.0	mg/L	200	BGI0372	09/13/23	09/15/23	EPA 300.0	
Sulfate	593	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

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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

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								
Total Dissolved Solids	2220	10.0		mg/L	1	BGI0165	09/07/23	09/07/23	SM2540C	

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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	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 15:20**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Barium	39.3	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	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	273	12.0	mg/L	200	BGI0372	09/13/23	09/15/23	EPA 300.0	
Sulfate	198	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

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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								
Total Dissolved Solids	1180	10.0		mg/L	1	BGI0165	09/07/23	09/07/23	SM2540C	

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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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

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	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

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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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

Dissolved Metals by EPA Method 200.8 - Quality Control
Summit Scientific

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

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

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	
		Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

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