

FREMONT ENVIRONMENTAL INC.

March 31, 2023

Mr. Daniel Peterson
Noble Energy Inc.
2115 117th Ave.
Greeley, CO 80634

Subject: **Groundwater Data Submittal**
 Lockman C #14-30
 API # 05-123-30892
 SESE Sec. 10, T4N, R64W
 Weld County, Colorado
 Fremont Project No. C022-023
 Facility #414921, Remediation #19296

Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Groundwater Data Submittal for the Lockman C #14-30 site in Weld County, Colorado. The enclosed data describes the groundwater quality at the site during the recent quarterly sampling and monitoring event.

The site's monitoring well has achieved Colorado Oil and Gas Conservation Commission compliant standards under static groundwater conditions for four consecutive quarters. Noble should request a no further action (NFA) determination for groundwater monitoring at the site.

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

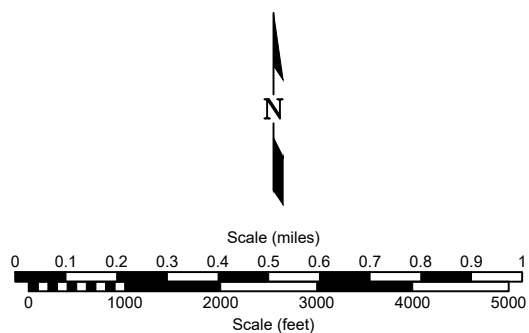
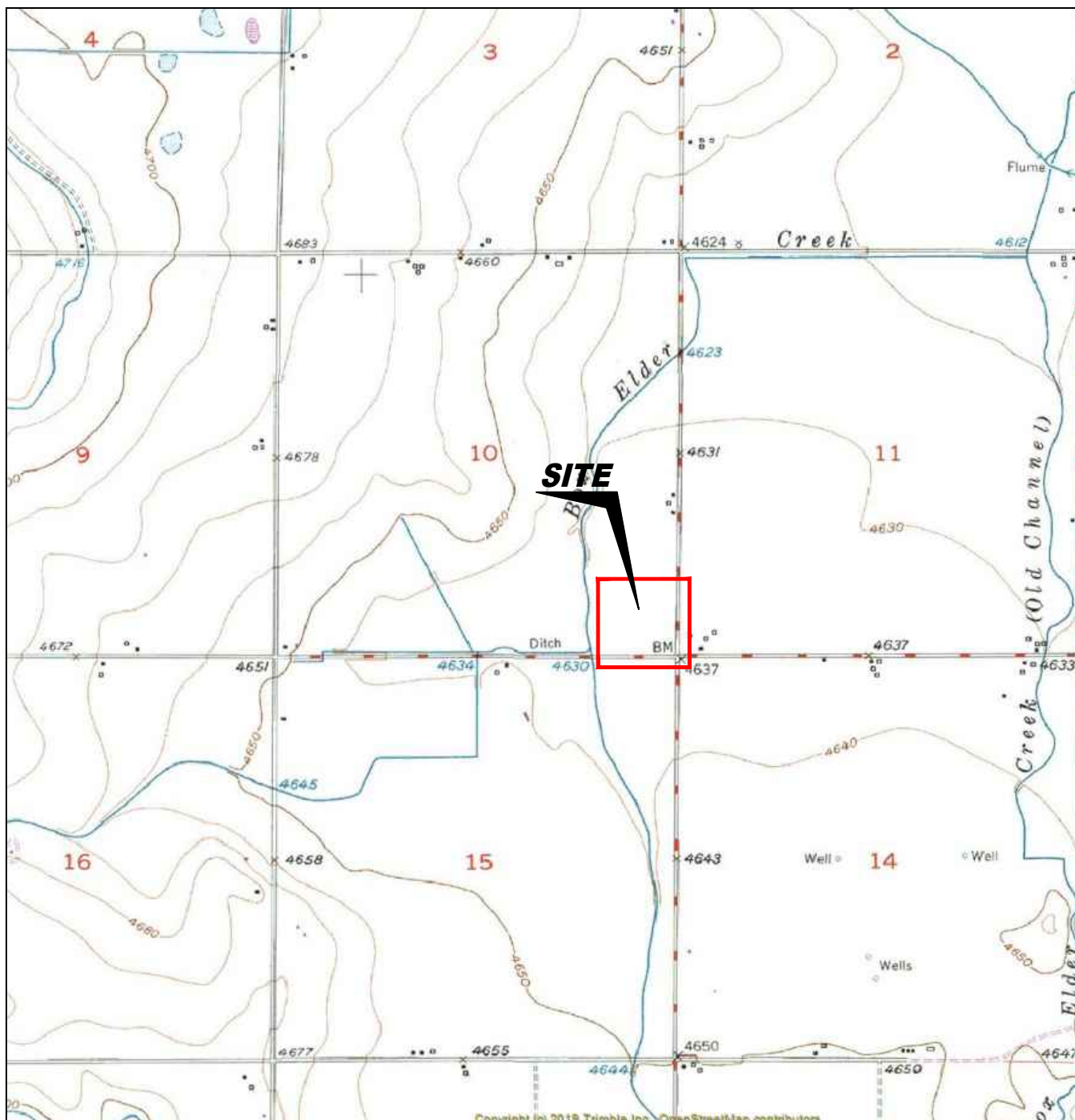
Enclosure

**1759 REDWING LANE, BROOMFIELD, CO 80020
(303) 956-8714 (DIRECT)**

TABLE 1
SUMMARY OF ORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE ENERGY INC.
LOCKMAN C14-30
FREMONT PROJECT NO. C022-023

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	NAPH- THALENE (µg/L)	1,2,4 TMB (µg/L)	1,3,5 TMB (µg/L)
MW-1	03/25/22	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0
	06/21/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	09/22/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	12/30/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
Table 915-1 Limits		5	560	700	1,400	140	67	67

Bold face values exceed the COGCC limits



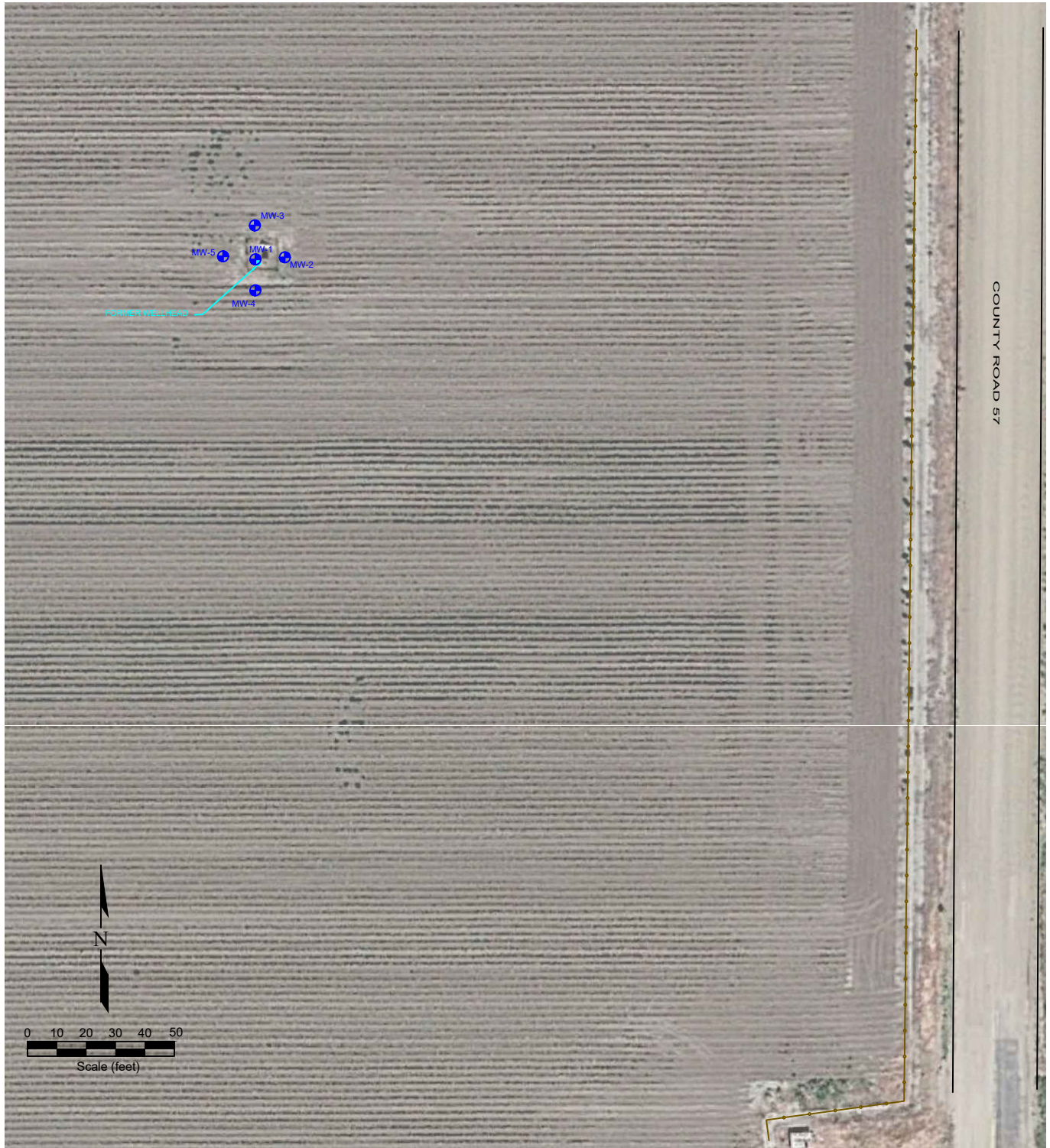
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy, Inc. ~ Lockman C #14-30
SESE Sec. 10, T4N, R64W, 6th PM
Weld County, Colorado
40.320651°, -104.528093°

Project # C022-023	API # 05-123-30892	Location ID
Date 3/29/23	Remediation # 19296	Filename 22023T





LEGEND

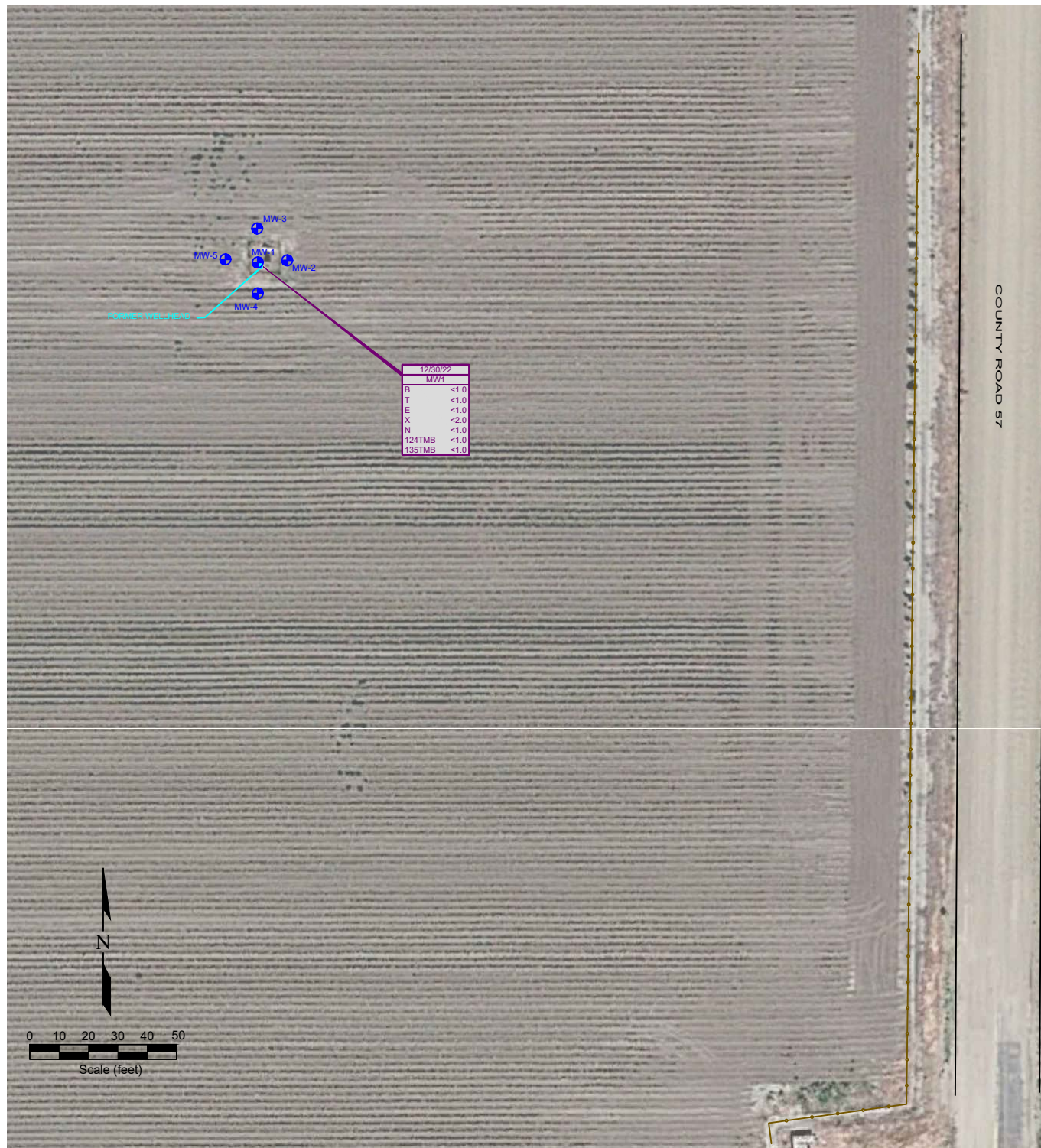
- RISER LOCATION
- ⊕ MONITORING WELL LOCATION
- FORMER FACILITY
- CONTAINMENT BERM FENCE LINE

**Figure 2
SITE MAP**

Noble Energy, Inc. ~ Lockman C #14-30
 SESE Sec. 10, T4N, R64W, 6th PM
 Weld County, Colorado
 40.320651°, -104.528093°

Project No. C022-023	API # 05-123-30892	Facility #
Date 3/29/23	Remediation # 19296	Filename 22023Q1





LEGEND

- RISER LOCATION
- ⊕ MONITORING WELL LOCATION
- FORMER FACILITY
- CONTAINMENT BERM
- FENCE LINE

09/22/2022	
MW1	
B	<1.0
T	<1.0
E	<1.0
X	<2.0
N	<1.0
124TMB	<1.0
135TMB	<1.0

DATE SAMPLED
BENZENE (ug/L)
TOLUENE (ug/L)
ETHYL-BENZENE (ug/L)
TOTAL XYLENES (ug/L)
NAPHTHALENE (ug/L)
1,2,4-TRIMETHYLBENZENE (ug/L)
1,3,5-TRIMETHYLBENZENE (ug/L)

Figure 3
GROUNDWATER CHEMISTRY MAP
December 30, 2022
Noble Energy, Inc. ~ Lockman C #14-30
 SESE Sec. 10, T4N, R64W, 6th PM
 Weld County, Colorado
 40.320651°, -104.528093°

Project No.
C022-023

API #
05-123-30892

Facility #

Date
3/29/23

Remediation #
19296

Filename
22023Q1



Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

January 11, 2023

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Lockman
Work Order #2301111

Enclosed are the results of analyses for samples received by Summit Scientific on 01/06/23 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 "Scott Sheely". The signature is fluid and cursive, with the first name "Scott" and last name "Sheely" clearly distinguishable.

Scott Sheely For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lockman

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/11/23 14:31

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	2301111-01	Water	12/30/22 00:00	01/06/23 16:30

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

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

2301111

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address:

E-Mail: Fremont Distribution List: PaulH, EthanB, JeffG and ChristL. @fremontenv.com

City/State/Zip:

Bill to : Dan P

Phone:

Project Name: Noble- Lockman

Sampler Name: EB

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Analysis Requested						Special Instructions		
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, pH, Boron		Metals (915)	TDS, Chloride, Sulfate
1	MW-1	12/30/22		2			X		X				X						
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: <i>Ethan Black</i>	Date/Time: 1/6/23 1605	Received by: <i>S2</i>	Date/Time: 1/6/23 1605	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ Sample Integrity: Temperature Upon Receipt: 7.1 Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes:
Relinquished by: <i>S2</i>	Date/Time: 1/6/23 1630	Received by: <i>S2</i>	Date/Time: 1/6/23 1630		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

S₂

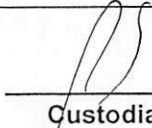
Sample Receipt Checklist

S2 Work Order# 2301111Client: Fremont Client Project ID: LockmanShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐

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

Matrix (Check all that apply) Air ☐ Soil/Solid ☐ Water ☒ Other ☐Temp (°C) 7.1 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"/>	avg 7.0°C
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 type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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 checked="" type="checkbox"/>	
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.

 Custodian Printed Name

1-6-23 1630
 Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Lockman

Project Number: [none]
Project Manager: Paul Henehan

Reported:
01/11/23 14:31

MW-1
2301111-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **12/30/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0	ug/l	1	BGA0153	01/09/23	01/10/23	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: **12/30/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.2	98.6 %	23-173	"	"	"	"	"	"	
Surrogate: Toluene-d8	12.8	96.1 %	20-170	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.2	99.4 %	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 - Lockman

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/11/23 14:31

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 BGA0153 - EPA 5030 Water MS

Blank (BGA0153-BLK1)

Prepared & Analyzed: 01/09/23

Benzene	ND	1.0	ug/l							
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	"							
Surrogate: 1,2-Dichloroethane-d4	12.6		"	13.3		94.8	23-173			
Surrogate: Toluene-d8	12.8		"	13.3		95.6	20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.9	21-167			

LCS (BGA0153-BS1)

Prepared & Analyzed: 01/09/23

Benzene	37.9	1.0	ug/l	41.7		90.9	51-132			
Toluene	37.4	1.0	"	41.7		89.6	51-138			
Ethylbenzene	41.2	1.0	"	41.7		98.9	58-146			
m,p-Xylene	82.5	2.0	"	83.3		99.0	57-144			
o-Xylene	39.4	1.0	"	41.7		94.6	53-146			
Naphthalene	31.4	1.0	"	41.7		75.3	70-130			
1,2,4-Trimethylbenzene	42.5	1.0	"	41.7		102	70-130			
1,3,5-Trimethylbenzene	44.3	1.0	"	41.7		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.9		"	13.3		96.5	23-173			
Surrogate: Toluene-d8	12.7		"	13.3		95.6	20-170			
Surrogate: 4-Bromofluorobenzene	12.8		"	13.3		96.1	21-167			

Matrix Spike (BGA0153-MS1)

Source: 2301103-01

Prepared & Analyzed: 01/09/23

Benzene	37.9	1.0	ug/l	41.7	ND	91.0	34-141			
Toluene	38.1	1.0	"	41.7	ND	91.5	27-151			
Ethylbenzene	40.7	1.0	"	41.7	ND	97.6	29-160			
m,p-Xylene	82.1	2.0	"	83.3	ND	98.5	20-166			
o-Xylene	39.3	1.0	"	41.7	ND	94.4	33-159			
Naphthalene	35.2	1.0	"	41.7	ND	84.6	70-130			
1,2,4-Trimethylbenzene	42.1	1.0	"	41.7	ND	101	70-130			
1,3,5-Trimethylbenzene	44.0	1.0	"	41.7	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.9		"	13.3		96.7	23-173			
Surrogate: Toluene-d8	13.0		"	13.3		97.5	20-170			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.3	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 - Lockman

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/11/23 14:31

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 BGA0153 - EPA 5030 Water MS

Matrix Spike Dup (BGA0153-MSD1)	Source: 2301103-01			Prepared & Analyzed: 01/09/23						
Benzene	38.3	1.0	ug/l	41.7	ND	91.8	34-141	0.893	30	
Toluene	37.9	1.0	"	41.7	ND	90.9	27-151	0.605	30	
Ethylbenzene	40.4	1.0	"	41.7	ND	96.9	29-160	0.765	30	
m,p-Xylene	81.6	2.0	"	83.3	ND	98.0	20-166	0.537	30	
o-Xylene	39.0	1.0	"	41.7	ND	93.5	33-159	0.971	30	
Naphthalene	37.5	1.0	"	41.7	ND	89.9	70-130	6.14	30	
1,2,4-Trimethylbenzene	41.9	1.0	"	41.7	ND	100	70-130	0.477	30	
1,3,5-Trimethylbenzene	43.2	1.0	"	41.7	ND	104	70-130	1.81	30	
Surrogate: 1,2-Dichloroethane-d4	13.6		"	13.3		102	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.0	20-170			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.4	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 - Lockman

Project Number: [none]
Project Manager: Paul Henchan

Reported:
01/11/23 14:31

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