

FREMONT ENVIRONMENTAL INC.

December 14, 2022

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

Subject: **Groundwater Data Submittal**
 Fuego C1-19
 API # 05-123-23166
 NWNW Sec. 1, T4N, R64W
 Weld County, Colorado
 Fremont Project No. C022-022
 Facility #279239, Remediation #20100

Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Groundwater Data Submittal for the Fuego C1-19 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.



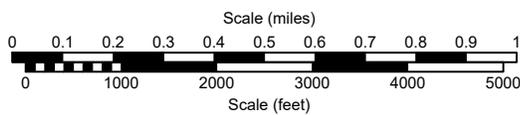
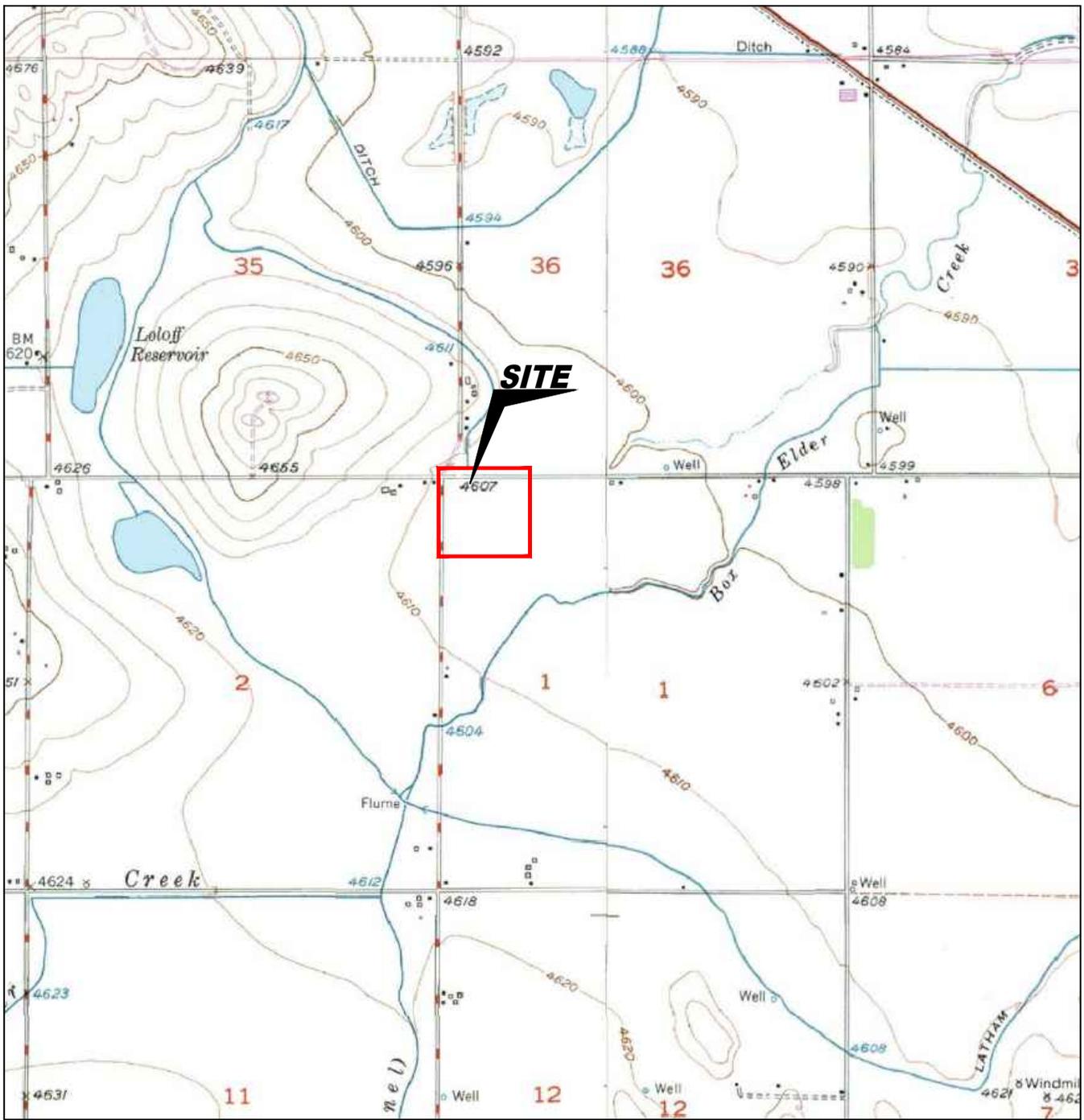
Paul V. Henehan, P.E.
Senior Consultant

Enclosure

TABLE 1
SUMMARY OF ORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE ENERGY INC.
FUEGO C1-19
FREMONT PROJECT NO. C022-022

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	<1.0	<2.0	<2.0	<2.0
	06/16/23	<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
Table 915-1 Limits		5	560	700	1,400	140	67	67

Bold face values exceed the COGCC limits



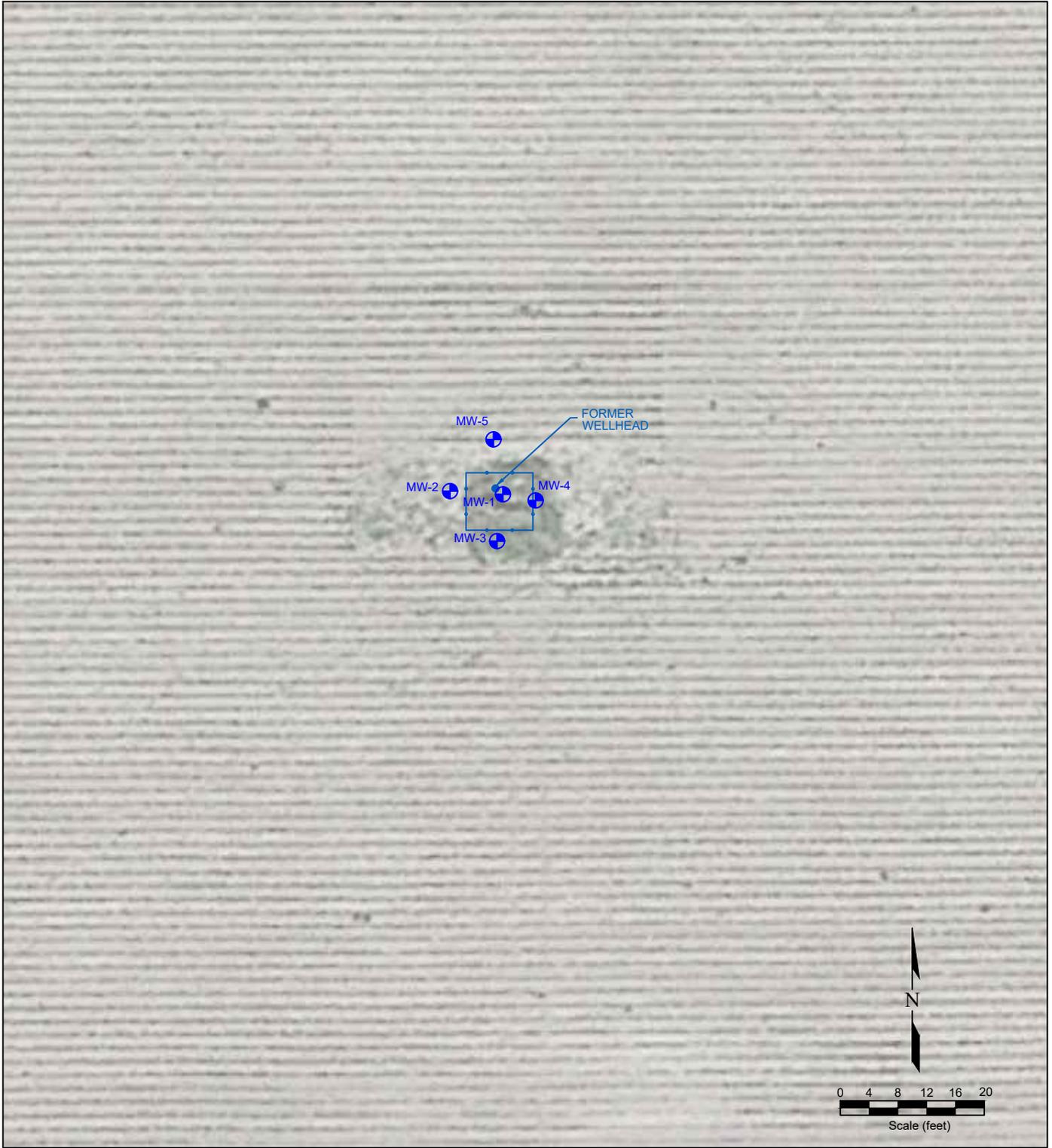
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy, Inc.
Fuego C1-19
NWNW Sec. 1, T4N, R64W, 6th PM
Weld County, Colorado

Project # C022-022	API # 05-123-23166	Facility ID 279239
Date 12/14/22	Remediation # 20100	Filename 22022T





LEGEND

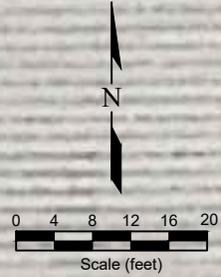
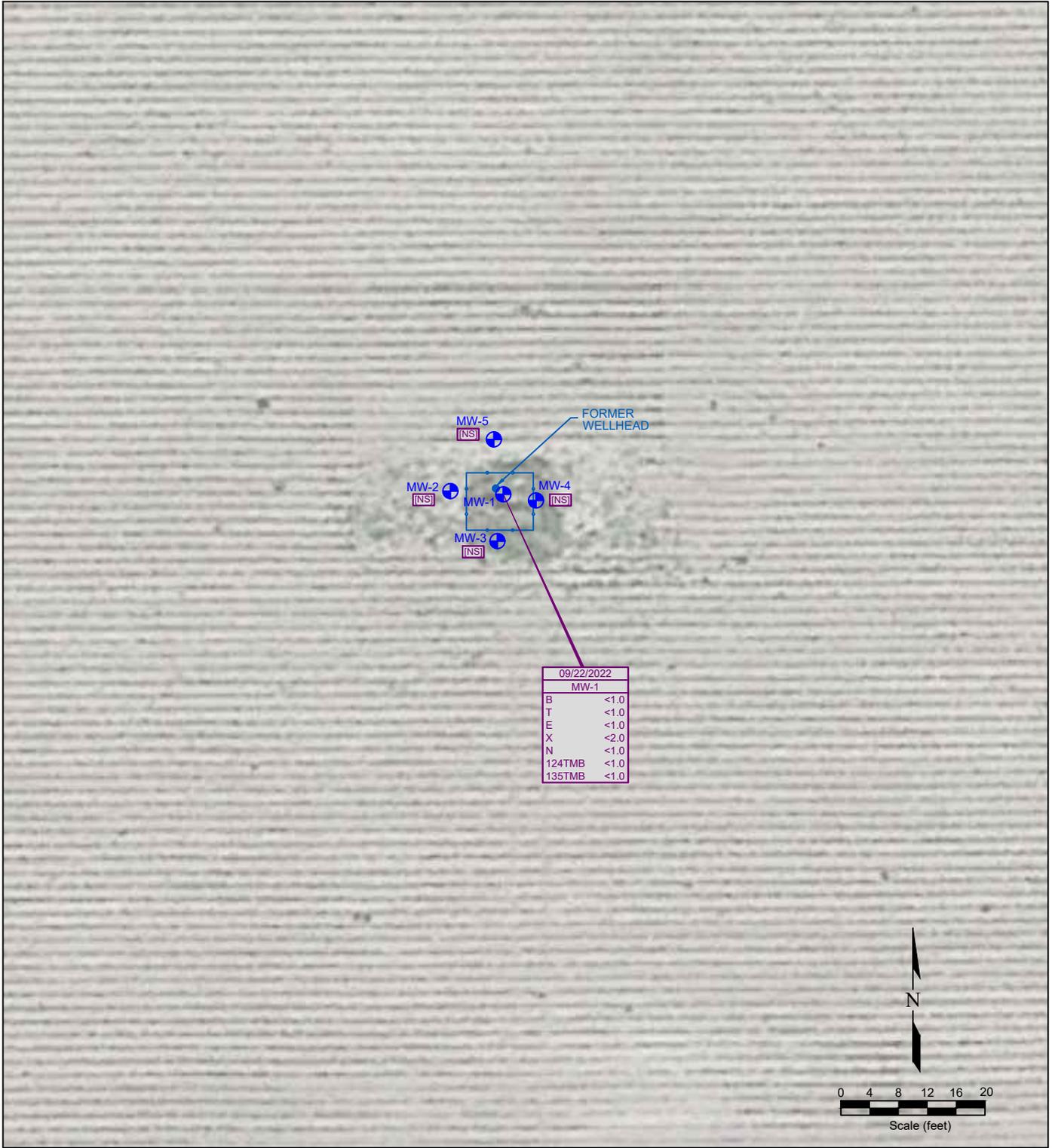
- WELLHEAD LOCATION ● MONITORING WELL LOCATION
- FORMER FORMER FACILITY — FENCE LINE

**Figure 2
SITE MAP**

Noble Energy, Inc.
Fuego c1-19
 NWNW Sec. 1, T4N, R64W, 6th PM
 Weld County, Colorado

Project No. C022-022	API # 05-123-23166	Facility # 279239
Date 1/6/23	Remediation # 20100	Filename 22022QQ





LEGEND

- WELLHEAD LOCATION ● MONITORING WELL LOCATION FORMER FORMER FACILITY ——— FENCE LINE

09/22/2022	
MW-1	
B	<1.0
T	<1.0
E	<1.0
X	<2.0
N	<1.0
124TMB	<1.0
135TMB	<1.0

Figure 3
GROUNDWATER CHEMISTRY MAP
September 22, 2022
Noble Energy, Inc.
Fuego c1-19
 NWNW Sec. 1, T4N, R64W, 6th PM
 Weld County, Colorado

Project No. C022-022	API # 05-123-23166	Facility # 279239
Date 1/6/23	Remediation # 20100	Filename 22022QQ



Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 28, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Fuego C1-19 (Fuego)
Work Order #2209458

Enclosed are the results of analyses for samples received by Summit Scientific on 09/22/22 16:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Fuego C1-19 (Fuego)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/28/22 14:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW1	2209458-01	Water	09/22/22 00:00	09/22/22 16:50

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

2209458

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310

Page 1 of 1

Client: Fremont Env

Project Manager: Paul Henehan

Address:

E-Mail: Paulh@fremontenv.com Ethanb@fremontenv.com

City/State/Zip:

jeffg@fremontenv.com

Phone:

Project Name: Fuego C 1-19 (Fuego)

Sampler Name: JG

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+N	TMBs(95)	TD, CI, S, HFk									
1	MW 1	09/22/22		4	X				X					X	X	X								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								

Relinquished by: <u>[Signature]</u>	Date/Time: <u>09/22/22 1650</u>	Received by: <u>[Signature]</u>	Date/Time: <u>9.22.22 1650</u>	Turn Around Time (Check)	Notes:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	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"/>		
Temperature Upon Receipt: <u>14.6</u>	Corrected Temperature <u> </u>	HNO3 lot # <u> </u>		Sample Integrity:	Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	
IR gun correction: <u> </u>	IR gun #: <u>2</u>					

S₂

2209458

Sample Receipt Checklist

S2 Work Order#

Client: Fremont Client Project ID: Fuego (1-19 (Fuego))

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

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? ⁽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"/>	
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 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.

WJ

Custodian Printed Name

9-22-22

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Fuego C1-19 (Fuego)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/28/22 14:48

MW1
2209458-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BF10676	09/26/22	09/27/22	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: **09/22/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		89.9 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		107 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.7 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	172	12.0		mg/L	200	BF10674	09/26/22	09/26/22	EPA 300.0	
Sulfate	865	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **09/22/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1740	10.0		mg/L	1	BF10681	09/26/22	09/27/22	SM2540C	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Fuego C1-19 (Fuego)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/28/22 14:48

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 BFI0676 - EPA 5030 Water MS

Blank (BFI0676-BLK1)

Prepared: 09/26/22 Analyzed: 09/27/22

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	14.0		"	13.3		105		23-173			
<i>Surrogate: Toluene-d8</i>	13.0		"	13.3		97.8		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.4		"	13.3		100		21-167			

LCS (BFI0676-BS1)

Prepared: 09/26/22 Analyzed: 09/27/22

Benzene	51.5	1.0	ug/l	50.0		103		51-132			
Toluene	50.9	1.0	"	50.0		102		51-138			
Ethylbenzene	54.2	1.0	"	50.0		108		58-146			
m,p-Xylene	111	2.0	"	100		111		57-144			
o-Xylene	52.4	1.0	"	50.0		105		53-146			
Naphthalene	57.1	1.0	"	50.0		114		70-130			
1,2,4-Trimethylbenzene	56.9	1.0	"	50.0		114		70-130			
1,3,5-Trimethylbenzene	56.6	1.0	"	50.0		113		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.7		"	13.3		102		23-173			
<i>Surrogate: Toluene-d8</i>	13.2		"	13.3		98.6		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.8		"	13.3		95.8		21-167			

Matrix Spike (BFI0676-MS1)

Source: 2209428-01

Prepared: 09/26/22 Analyzed: 09/27/22

Benzene	56.3	1.0	ug/l	50.0	ND	113		34-141			
Toluene	56.9	1.0	"	50.0	ND	114		27-151			
Ethylbenzene	62.7	1.0	"	50.0	ND	125		29-160			
m,p-Xylene	126	2.0	"	100	ND	126		20-166			
o-Xylene	58.7	1.0	"	50.0	ND	117		33-159			
Naphthalene	62.5	1.0	"	50.0	ND	125		70-130			
1,2,4-Trimethylbenzene	64.2	1.0	"	50.0	ND	128		70-130			
1,3,5-Trimethylbenzene	64.5	1.0	"	50.0	ND	129		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	12.6		"	13.3		94.7		23-173			
<i>Surrogate: Toluene-d8</i>	13.2		"	13.3		98.8		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.7		"	13.3		95.6		21-167			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Fuego C1-19 (Fuego)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/28/22 14:48

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 BFI0676 - EPA 5030 Water MS

Matrix Spike Dup (BFI0676-MSD1)

Source: 2209428-01

Prepared: 09/26/22 Analyzed: 09/27/22

Benzene	54.1	1.0	ug/l	50.0	ND	108	34-141	3.95	30	
Toluene	54.8	1.0	"	50.0	ND	110	27-151	3.76	30	
Ethylbenzene	59.8	1.0	"	50.0	ND	120	29-160	4.72	30	
m,p-Xylene	121	2.0	"	100	ND	121	20-166	4.26	30	
o-Xylene	57.1	1.0	"	50.0	ND	114	33-159	2.73	30	
Naphthalene	61.0	1.0	"	50.0	ND	122	70-130	2.45	30	
1,2,4-Trimethylbenzene	63.8	1.0	"	50.0	ND	128	70-130	0.656	30	
1,3,5-Trimethylbenzene	63.9	1.0	"	50.0	ND	128	70-130	0.919	30	
Surrogate: 1,2-Dichloroethane-d4	12.3		"	13.3		92.5	23-173			
Surrogate: Toluene-d8	13.3		"	13.3		99.6	20-170			
Surrogate: 4-Bromofluorobenzene	12.7		"	13.3		95.5	21-167			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Fuego C1-19 (Fuego)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/28/22 14:48

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch BFI0674 - General Preparation

Blank (BFI0674-BLK1)

Prepared & Analyzed: 09/26/22

Chloride	ND	0.0600	mg/L						
Sulfate	ND	0.300	"						

LCS (BFI0674-BS1)

Prepared & Analyzed: 09/26/22

Chloride	3.10	0.0600	mg/L	3.00	103	90-110		
Sulfate	16.0	0.300	"	15.0	107	90-110		

Duplicate (BFI0674-DUP1)

Source: 2209441-01

Prepared & Analyzed: 09/26/22

Chloride	257	12.0	mg/L		249		3.16	20
Sulfate	121	60.0	"		122		0.988	20

Matrix Spike (BFI0674-MS1)

Source: 2209441-01

Prepared & Analyzed: 09/26/22

Chloride	841	12.0	mg/L	600	249	98.6	80-120	
Sulfate	3250	60.0	"	3000	122	104	80-120	

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Fuego C1-19 (Fuego)

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 09/28/22 14:48

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 BFI0681 - General Preparation

Blank (BFI0681-BLK1)

Prepared: 09/26/22 Analyzed: 09/27/22

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BFI0681-DUP1)

Source: 2209441-01

Prepared: 09/26/22 Analyzed: 09/27/22

Total Dissolved Solids 1430 10.0 mg/L 1400 2.05 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Fuego C1-19 (Fuego)

Project Number: [none]
Project Manager: Paul Henchan

Reported:
09/28/22 14:48

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