FREMONT ENVIRONMENTAL INC.

January 30, 2023

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

Subject: **Groundwater Monitoring Data Submittal**
Cox PM C8-6
API # 05-123-14174
SENW Sec. 8, T4N, R64W
Weld County, Colorado
Fremont Project No. C022-018
Facility # 327111, Remediation # 21024

Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Groundwater Monitoring Report for the Cox PM C 8-6 site in Weld County, Colorado. The enclosed report describes remedial actions and sampling efforts to assess groundwater quality 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.

Ethan Black for PVH

Paul V. Henehan, 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.
COX PM C 8-6, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-018

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	NAPHTHALENE (µg/L)	1,2,4 TRIMETHYL-BENZENE (µg/L)	1,3,5 TRIMETHYL-BENZENE (µg/L)
MW-1	5/4/2022	1.5	<1.0	<1.0	61	<1.0	1.4	14
	8/26/2022	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0
	11/16/2022	<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

TABLE 2
SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE ENERGY INC.
COX PM C 8-6, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-018

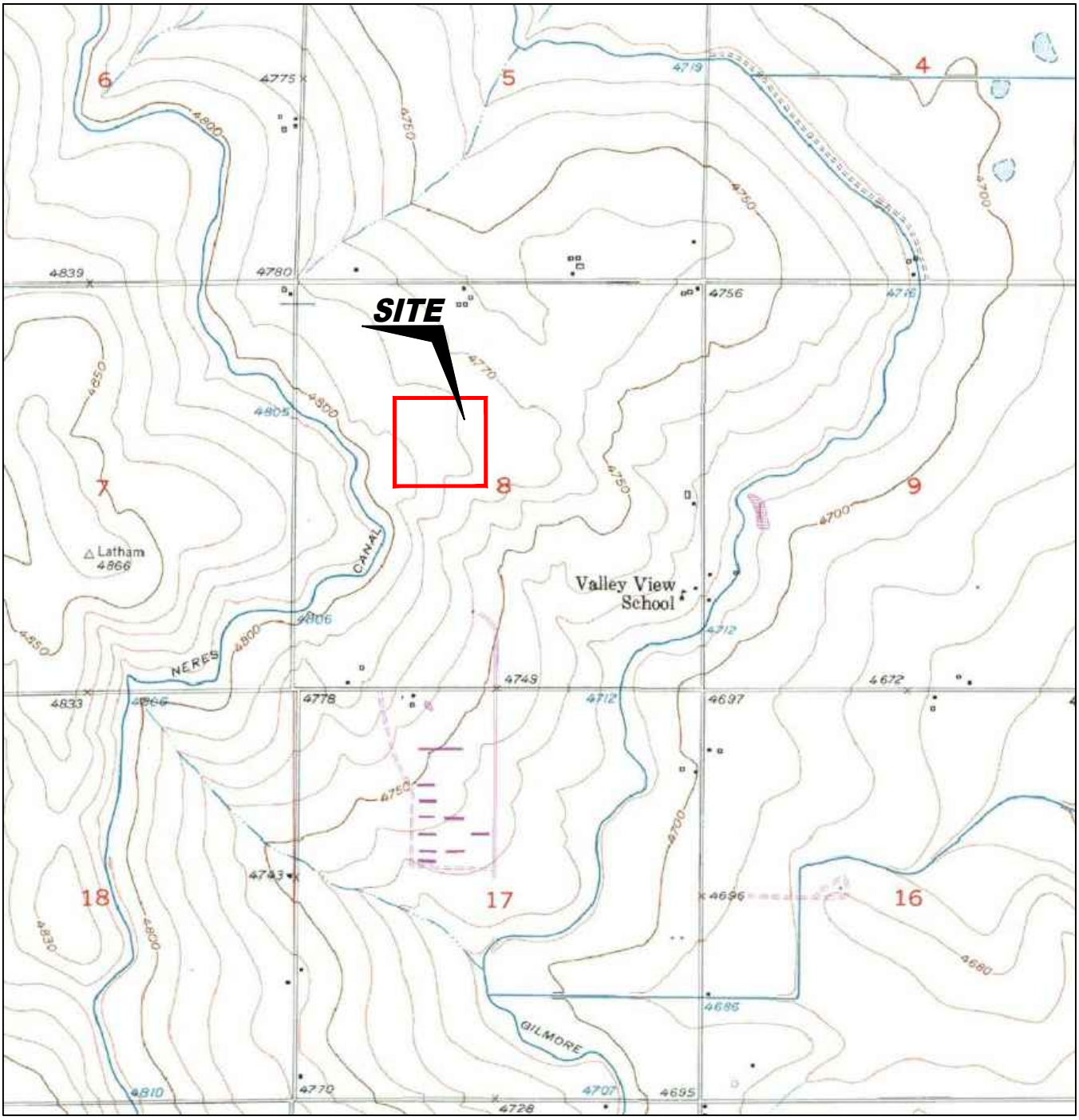
SAMPLE LOCATION	DATE	TOTAL DISSOLVED SOLIDS (mg/L)	CHLORIDE ION (mg/L)	SULFATE ION (mg/L)
MW-1	5/4/2022	2050	**367**	198
	8/26/2022	1280	205	283.0
	11/16/2022	526	251	98.4
Table 915-1 Limits		<1.25 x local background	250	250

Bold face values exceed the COGCC limits

NP - No Free Product

NA - Not Analyzed

NAP - Not Applicable



N

Scale (miles)

0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1

0 1000 2000 3000 4000 5000

Scale (feet)

USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1

SITE LOCATION MAP

NOBLE ENERGY INC. ~ COX PMC 8-6

SENW Sec. 8, T4N, R64W, 6th PM

Weld County, Colorado

40.333729°, -104.577017°

Project #	Prepared By	Drawn By
C022-018		**TA**
Date	Reviewed by	Filename
12/5/22	**EB**	**22018T**

FREMONT ENVIRONMENTAL

LEGEND

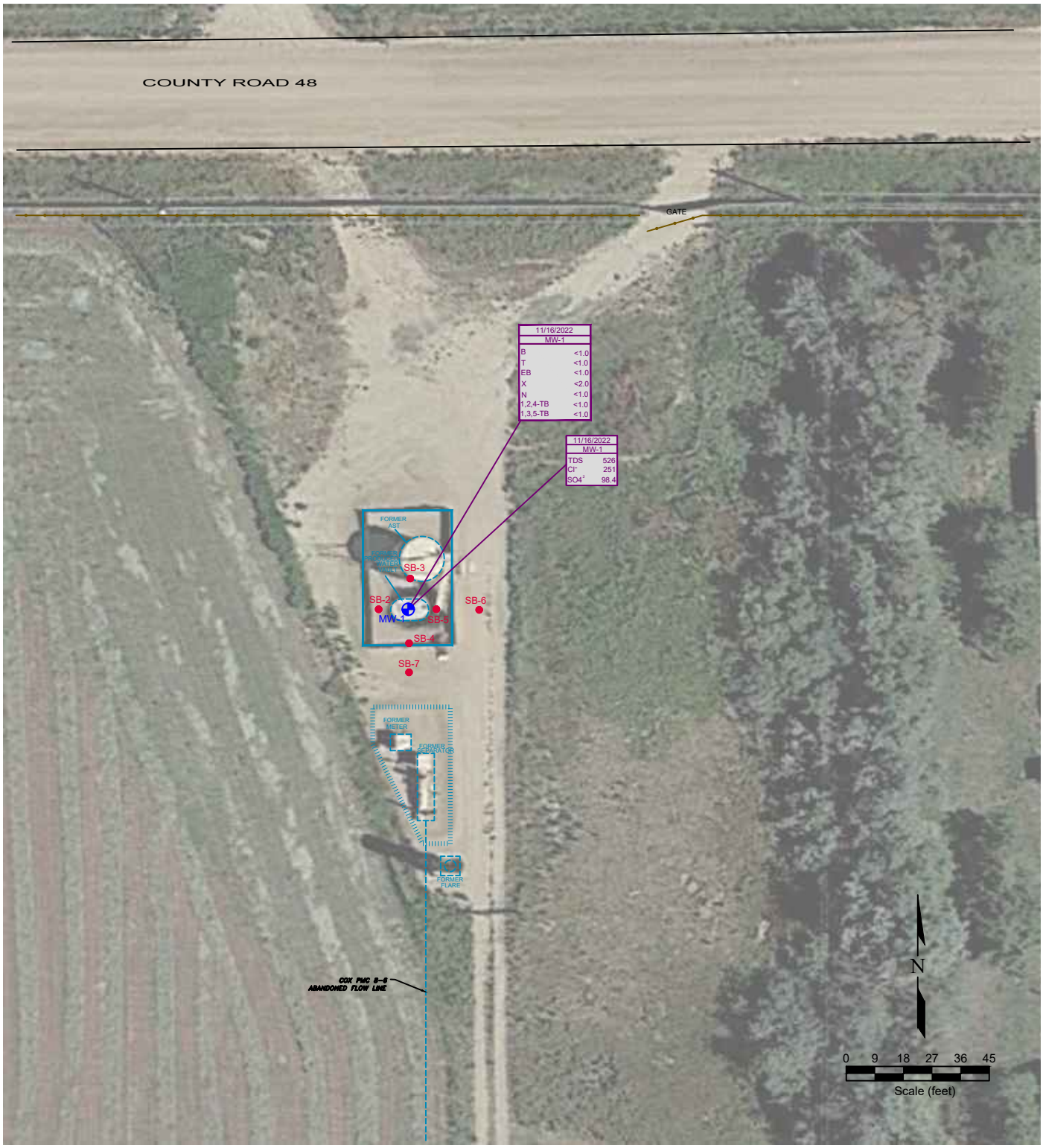
SOIL BORING
MONITORING WELL
ABOVE GROUND STORAGE TANK
FORMER
FORMER FACILITY
CONTAINMENT WALL
CONTAINMENT BERM
FLOW LINE
FENCE LINE

Figure 2
SITE MAP

NOBLE ENERGY INC. ~ COX PMC 8-6
SENW Sec. 8, T4N, R64W, 6th PM
Weld County, Colorado
40.333729°, -104.577017°

Project No.	API #	Facility #
C022-018		**TA**
Date	Reviewed By	Filename
12/5/22	**EB**	**22018QQ**

FREMONT ENVIRONMENTAL



LEGEND

- SOIL BORING
- MONITORING WELL
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- CONTAINMENT WALL
- CONTAINMENT BERM
- FLOW LINE
- FENCE LINE

11/16/2022	DATE SAMPLED
MW-1	SAMPLE ID
B <1.0	BENZENE (ug/L)
T <1.0	TOLUENE (ug/L)
EB <1.0	ETHYLBENZENE (ug/L)
X <2.0	TOTAL XYLENES (ug/L)
N <1.0	NAPHTHALENE (ug/L)
1,2,4-TB <1.0	1,2,4-TRIMETHYLBENZENE (ug/L)
1,3,5-TB <1.0	1,3,5-TRIMETHYLBENZENE (ug/L)

11/16/2022	DATE SAMPLED
MW-1	SAMPLE ID
TDS 526	TOTAL DISSOLVED SOLIDS (mg/L)
Cl- 251	CHLORIDE ION (mg/L)
SO4 2- 98.4	SULFATE ION (mg/L)

Figure 3

GROUNDWATER CHEMISTRY MAP

November 16, 2022

NOBLE ENERGY INC. ~ COX PMC 8-6

SENW Sec. 8, T4N, R64W, 6th PM

Weld County, Colorado

40.333729°, -104.577017°

Project No.	API #	Facility #
C022-018		**TA**
Date	Reviewed By	Filename
12/5/22	**EB**	**22018QQ**

FREMONT ENVIRONMENTAL

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

November 28, 2022

Paul Henehan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Cox PMC 8-6
Work Order #2211301

Enclosed are the results of analyses for samples received by Summit Scientific on 11/16/22 16:00. 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 - Cox PMC 8-6 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 11/28/22 15:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	2211301-01	Water	11/16/22 00:00	11/16/22 16:00

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

2211301

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

Page 1 of 1

client: Fremont
Address:
City/State/Zip:
Phone:
Sampler Name: EB

Project Manager: Henehan
E-Mail: Fremont Dist List and Noble Dist List
Bill To: Noble
Project Name: Noble - COX PMC 8-6
Project Number:

					Preservative				Matrix				Analysis Requested								Special Instructions
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other ___	Water	Soil	Air-Canister #	Other ___	Full 915 org. + inorg.								
1	MW-1	11/16/22		4			X		X				X								
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by: [signature] Date/Time: 1500 11/16/22	Received by: S2	Date/Time: 111622 1500	Turn Around Time (Check): Same Day ___ 24 hours ___ 48 hours ___ 72 hours ___ Standard X
Relinquished by: S2 Date/Time: 111622 1600	Received by:	Date/Time: 111622 1600	Sample Integrity: Samples Intact: Yes No
Temperature Upon Receipt: 8.1 IR gun correction: 0	Corrected Temperature 0 IR gun #: 1	HNO3 lot #	Notes:

S2

Sample Receipt Checklist S2 Work Order# 2211301

Client: Fremont Client Project ID: Noble - Cox Pmc 8-16

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

Matrix (Check all that apply) Air [ ] Soil/Solid [ ] Water [ ] Other [ ]

Temp (°C) 8.1 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.	–			on ice
If custody seals are present, are they intact? (1)	–			
Are samples due within 48 hours present?		–		
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			–	
Is a chain-of-custody (COC) form present and filled out Completely? (1)	–			
Is the COC properly relinquished by the client w/ date and time recorded? (1)	–			
Were all samples received intact? (1)	–			
Was adequate sample volume provided? (1)	–			
Does the COC agree with the number and type of sample bottles received? (1)	–			
Do the sample IDs on the bottle labels match the COC? (1)	–			
For volatiles in water – is there headspace present? **If yes, contact client and note in narrative.**		–		
Are samples preserved that require preservation **(excluding cooling)?** (1) Note the type of preservative in the comments column – HCl, H_2SO_4, NaOH, HNO_3, etc.			–	
If samples are acid preserved for metals, is the pH ≤ 2? (1) Record the pH in Comments.			–	
If dissolved metals are requested, were samples field filtered?			–	
Additional Comments (if any):				
(1) **If NO, then contact the client before proceeding with analysis and note in case narrative.**				

[ ]
Custodian Printed Name

11-16-22 1600
Date/Time

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Cox PMC 8-6 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 11/28/22 15:04

MW-1

2211301-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BFK0509	11/21/22	11/23/22	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: **11/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*95.6 %*	*23-173*		"	"	"	"	
Surrogate: Toluene-d8		*99.3 %*	*20-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*21-167*		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **11/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**251**	12.0	mg/L	200	BFK0529	11/19/22	11/19/22	EPA 300.0	
Sulfate	**98.4**	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **11/16/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	**526**	10.0	mg/L	1	BFK0489	11/18/22	11/18/22	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 - Cox PMC 8-6 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 11/28/22 15:04

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFK0509 - EPA 5030 Water MS										
Blank (BFK0509-BLK1)				Prepared: 11/21/22 Analyzed: 11/22/22						
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	"							
Surrogate: 1,2-Dichloroethane-d4	*13.5*		"	*13.3*		*101*	*23-173*			
Surrogate: Toluene-d8	*15.6*		"	*13.3*		*117*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*18.8*		"	*13.3*		*141*	*21-167*			
LCS (BFK0509-BS1)				Prepared: 11/21/22 Analyzed: 11/22/22						
Benzene	22.8	1.0	ug/l	33.3		68.4	51-132			
Toluene	25.2	1.0	"	33.3		75.6	51-138			
Ethylbenzene	31.7	1.0	"	33.3		95.1	58-146			
m,p-Xylene	63.2	2.0	"	66.7		94.8	57-144			
o-Xylene	32.2	1.0	"	33.3		96.5	53-146			
Naphthalene	41.0	1.0	"	33.3		123	70-130			
1,2,4-Trimethylbenzene	32.2	1.0	"	33.3		96.7	70-130			
1,3,5-Trimethylbenzene	34.0	1.0	"	33.3		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	*11.0*		"	*13.3*		*82.4*	*23-173*			
Surrogate: Toluene-d8	*12.9*		"	*13.3*		*97.0*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*14.9*		"	*13.3*		*112*	*21-167*			
Matrix Spike (BFK0509-MS1)	**Source: 2211299-01**			Prepared: 11/21/22 Analyzed: 11/22/22						
Benzene	27.3	1.0	ug/l	33.3	ND	81.9	34-141			
Toluene	31.0	1.0	"	33.3	ND	93.0	27-151			
Ethylbenzene	45.2	1.0	"	33.3	ND	136	29-160			
m,p-Xylene	92.7	2.0	"	66.7	ND	139	20-166			
o-Xylene	45.4	1.0	"	33.3	ND	136	33-159			
Naphthalene	39.5	1.0	"	33.3	ND	119	70-130			
1,2,4-Trimethylbenzene	36.7	1.0	"	33.3	ND	110	70-130			
1,3,5-Trimethylbenzene	37.0	1.0	"	33.3	ND	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	*11.5*		"	*13.3*		*86.1*	*23-173*			
Surrogate: Toluene-d8	*16.7*		"	*13.3*		*125*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*21.4*		"	*13.3*		*160*	*21-167*			

Summit Scientific

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Cox PMC 8-6 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 11/28/22 15:04

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFK0509 - EPA 5030 Water MS										
Matrix Spike Dup (BFK0509-MSD1)	**Source: 2211299-01**			Prepared: 11/21/22 Analyzed: 11/22/22						
Benzene	23.8	1.0	ug/l	33.3	ND	71.3	34-141	13.8	30	
Toluene	26.2	1.0	"	33.3	ND	78.5	27-151	16.9	30	
Ethylbenzene	34.4	1.0	"	33.3	ND	103	29-160	27.0	30	
m,p-Xylene	70.2	2.0	"	66.7	ND	105	20-166	27.7	30	
o-Xylene	35.8	1.0	"	33.3	ND	107	33-159	23.7	30	
Naphthalene	38.5	1.0	"	33.3	ND	115	70-130	2.77	30	
1,2,4-Trimethylbenzene	36.5	1.0	"	33.3	ND	110	70-130	0.546	30	
1,3,5-Trimethylbenzene	36.2	1.0	"	33.3	ND	108	70-130	2.40	30	
Surrogate: 1,2-Dichloroethane-d4	*10.5*		*"*	*13.3*		*78.7*	*23-173*			
Surrogate: Toluene-d8	*13.9*		*"*	*13.3*		*104*	*20-170*			
Surrogate: 4-Bromofluorobenzene	*17.7*		*"*	*13.3*		*133*	*21-167*			

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Cox PMC 8-6 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 11/28/22 15:04

Anions by EPA Method 300.0 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFK0529 - General Preparation										
Blank (BFK0529-BLK1)				Prepared & Analyzed: 11/19/22						
Chloride	ND	0.0600	mg/L							
Sulfate	ND	0.300	"							
LCS (BFK0529-BS1)				Prepared & Analyzed: 11/19/22						
Chloride	3.24	0.0600	mg/L	3.00		108	90-110			
Sulfate	15.6	0.300	"	15.0		104	90-110			
Duplicate (BFK0529-DUP1)	**Source: 2211272-01**			Prepared & Analyzed: 11/19/22						
Chloride	489	12.0	mg/L		503			2.86	20	
Sulfate	1130	60.0	"		993			13.3	20	
Matrix Spike (BFK0529-MS1)	**Source: 2211272-01**			Prepared & Analyzed: 11/19/22						
Chloride	1090	12.0	mg/L	600	503	98.1	80-120			
Sulfate	4300	60.0	"	3000	993	110	80-120			

Summit Scientific

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Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Cox PMC 8-6 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 11/28/22 15:04

Total Dissolved Solids by SM2540C - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch BFK0489 - General Preparation										
Blank (BFK0489-BLK1)				Prepared & Analyzed: 11/18/22						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (BFK0489-DUP1)		**Source: 2211299-01**		Prepared & Analyzed: 11/18/22						
Total Dissolved Solids	1280	10.0	mg/L		1250			2.69	20	

Fremont Environmental PO Box 1289 Wellington CO, 80549	Project: Noble - Cox PMC 8-6 Project Number: [none] Project Manager: Paul Henehan	**Reported:** 11/28/22 15:04

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