

FREMONT ENVIRONMENTAL INC.

May 26, 2022

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

Subject: **Groundwater Data Submittal**
 Bliss 13-34
 API # 05-123-13561
 NWSW Sec 34, T6N, R65W
 Weld County, Colorado
 Fremont Project No. C019-083
 Facility #326725, Remediation #14426

Dear Mr. Peterson:

Enclosed please find a copy of the above referenced Groundwater Data Submittal for the Bliss 13-34 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. Henahan, P.E.
Senior Consultant

Enclosure

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA AND CHEMISTRY DATA
NOBLE ENERGY INC.
BLISS 13-34, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C019-083

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)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-2	12/31/19	33	<1.0	61	21	NA	NA	NA	98.39	33.83	64.56	NP
	01/15/20	NS	NS	NS	NS	NA	NA	NA		34.26	64.13	NP
	04/14/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		36.13	62.26	NP
	07/14/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		34.80	63.59	NP
	10/15/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		33.60	64.79	NP
	01/14/21	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		35.81	62.58	NP
	04/14/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		38.31	60.08	NP
	07/27/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		34.94	63.45	NP
	10/22/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		32.63	65.76	NP
	01/17/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		37.65	60.74	NP
	04/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		36.00	62.39	NP
MW-3	12/31/19	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	97.85	33.20	64.65	NP
	01/15/20	NS	NS	NS	NS	NA	NA	NA		33.64	64.21	NP
	04/14/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		35.57	62.28	NP
	07/14/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		34.17	63.68	NP
	07/14/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		32.87	64.98	NP
	01/14/21	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		35.17	62.68	NP
	04/14/21	IW	IW	IW	IW	IW	IW	IW		37.19	60.66	NP
	07/27/21	DES	DES	DES	DES	DES	DES	DES		DES	DES	DES
	10/22/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		31.84	66.01	NP
	01/17/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		34.02	63.83	NP
	04/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		35.39	62.46	NP
MW-4	12/31/19	<1.0	<1.0	7.7	<2.0	NA	NA	NA	97.87	33.45	64.42	NP
	01/15/20	NS	NS	NS	NS	NA	NA	NA		33.83	64.04	NP
	04/14/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		35.75	62.12	NP
	07/14/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		34.31	63.56	NP
	10/15/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		33.15	64.72	NP
	01/14/21	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		35.38	62.49	NP
	04/14/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		37.99	59.88	NP
	07/27/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		34.41	63.46	NP

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)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-4	10/22/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	97.87	32.14	65.73	NP
	01/17/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		34.23	63.64	NP
	04/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		35.59	62.28	NP
MW-5	01/08/20	130	59	150	61	NA	NA	NA	98.60	NM	NM	NP
	01/15/20	NS	NS	NS	NS	NA	NA	NA		34.62	63.98	NP
	04/14/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		36.50	62.10	NP
	07/14/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	98.60	35.45	63.15	NP
	10/15/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		34.05	64.55	NP
	01/14/21	NS	NS	NS	NS	NA	NA	NA		NS	NS	NS
	04/14/21	IW	IW	IW	IW	IW	IW	IW		IW	IW	IW
	07/27/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		35.71	62.89	NP
	10/22/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		33.13	65.47	NP
	01/17/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		35.05	63.55	NP
	04/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		36.34	62.26	NP
MW-6	01/08/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA	100.00	NM	NM	NP
	01/15/20	NS	NS	NS	NS	NA	NA	NA		35.93	64.07	NP
	04/14/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		37.80	62.20	NP
	07/14/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		36.93	63.07	NP
	10/15/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		35.48	64.52	NP
	01/14/21	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		37.51	62.49	NP
	04/14/21	IW	IW	IW	IW	IW	IW	IW		38.77	61.23	NP
	07/27/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		36.78	63.22	NP
	10/22/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		34.60	65.40	NP
	01/17/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		36.41	63.59	NP
	04/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		37.65	62.35	NP
MW-7	12/31/20	1.2	8.0	1.6	12	NA	NA	NA	98.35	NM	NM	NP
	01/15/20	NS	NS	NS	NS	NA	NA	NA		34.07	64.28	NP
	04/14/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		35.94	62.41	NP
	07/14/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		34.80	63.55	NP
	10/15/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		33.34	65.01	NP
	01/14/21	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		35.67	62.68	NP
	04/14/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		38.30	60.05	NP
	07/27/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		34.75	63.60	NP
	10/22/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		32.73	65.62	NP

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)	TOC ELEVATION (feet)	DEPTH TO GROUND WATER (ft)	GROUND WATER ELEVATION (ft)	FREE PRODUCT THICKNESS (ft)
MW-7	01/17/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	98.35	34.46	63.89	NP
	04/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		35.79	62.56	NP
MW-8	01/24/20	4.4	<1.0	33	<2.0	NA	NA	NA	98.99	35.31	63.68	NP
	04/14/20	1.1	<1.0	<1.0	<2.0	NA	NA	NA		38.99	60.00	NP
	07/14/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		36.02	62.97	NP
	10/15/20	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		34.68	64.31	NP
	01/14/21	<1.0	<1.0	<1.0	<2.0	NA	NA	NA		36.68	62.31	NP
	04/14/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		37.96	61.03	NP
	07/27/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		37.11	61.88	NP
	10/22/21	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		36.73	62.26	NP
	01/17/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		35.59	63.40	NP
	04/14/22	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0		36.84	62.15	NP
Table 915-1 Standards		5	560	700	1,400							

Bold face values exceed the COGCC limits

NS- No Sample

IW - Insufficient Water

NP - No Free Product

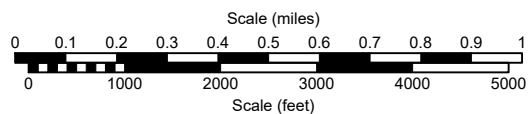
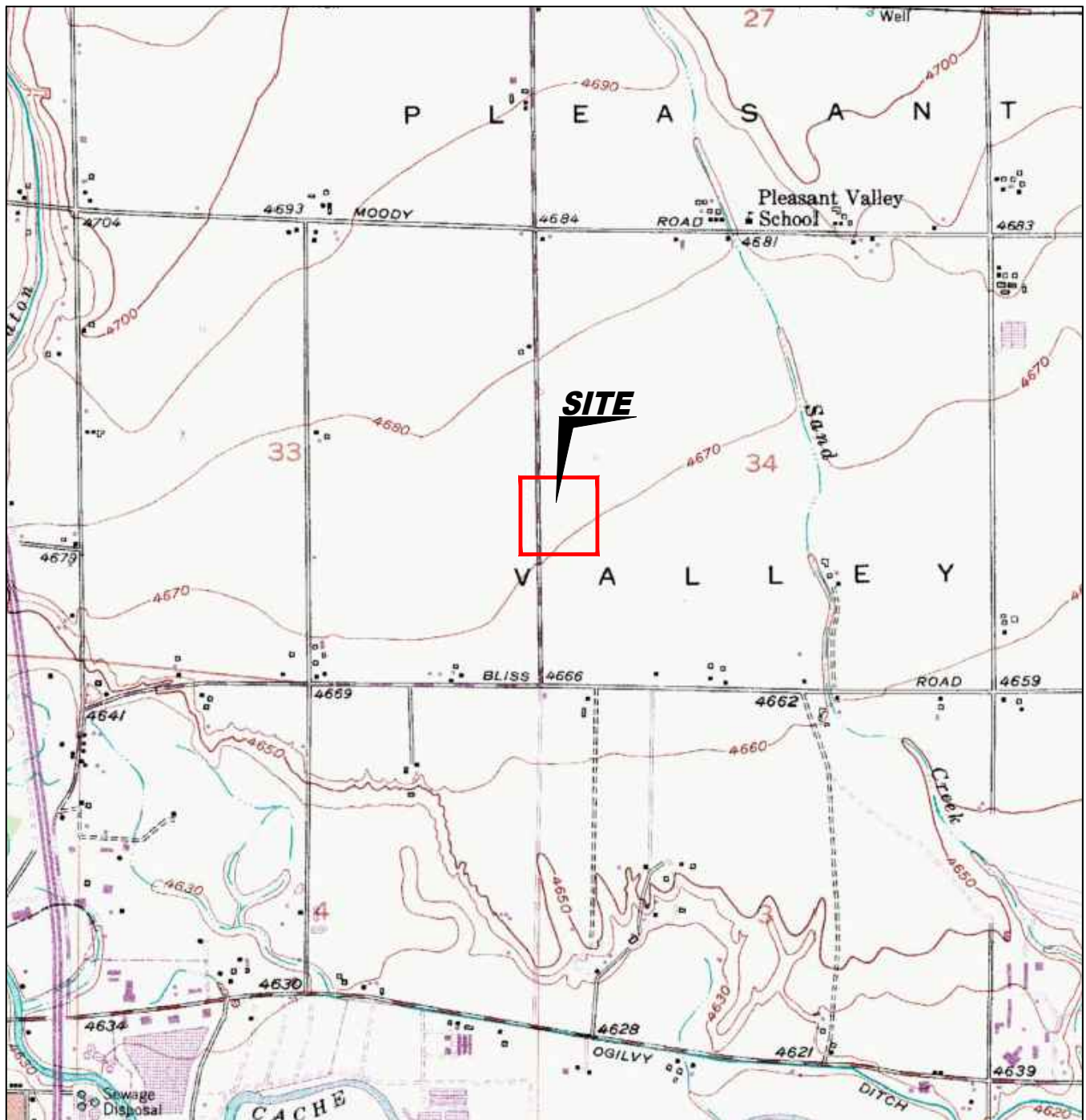
TABLE 2
SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE ENERGY INC.
BLISS 13-34, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C019-083

SAMPLE LOCATION	DATE	TOTAL DISSOLVED SOLIDS (mg/L)	CHLORIDE ION (mg/L)	SULFATE ION (mg/L)
MW-2	07/27/21	2990	<31.2	2020
	10/22/21	2550	23.8	2290
	01/17/22	1070	<31.2	595
	04/14/22	751	16.6	326
MW-3	07/27/21	DES	DES	DES
	10/22/21	2380	27.8	2180
	01/17/22	1840	<31.2	904
	04/14/22	829	21.2	431
MW-4	07/27/21	1660	<31.2	901
	10/22/21	1201	30.8	1160
	01/17/22	2370	<31.2	1190
	04/14/22	1630	24.8	1180
MW-5	07/27/21	1920	<31.2	794
	10/22/21	1710	24.6	1640
	01/17/22	2210	<31.2	1220
	04/14/22	1600	15.6	1340
MW-6	07/27/21	970	<31.2	302
	10/22/21	1600	26.6	1510
	01/17/22	1110	<31.2	402
	04/14/22	846	19.0	472
MW-7	07/27/21	752	<31.2	279
	10/22/21	571	26.6	398

SAMPLE LOCATION	DATE	TOTAL DISSOLVED SOLIDS (mg/L)	CHLORIDE ION (mg/L)	SULFATE ION (mg/L)
MW-7	01/17/22	832	<31.2	286
	04/14/22	741	18.0	265
MW-8	07/27/21	1090	<31.2	567
	10/22/21	860	22.6	797
	01/17/22	1380	<31.2	652
	04/14/22	1230	20.4	820
Table 915-1 Standards		<1.25 x local background	250 or 1.25 x local background	250 or 1.25 x local background

Bold face values exceed the COGCC limits

Lowest TDS Value Used as Local Background



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY, INC. ~ BLISS 13-34
NWSW Sec 34, T6N, R65W, 6th PM
Weld County, Colorado

Project No.
C019-083

Prepared by

Drawn by
TA

Date
4/27/22

Reviewed by
JG

Filename
19083T





LEGEND

	SOIL BORING		FORMER FACILITY		CONTAINMENT BERM
	MONITORING WELL		BUILDING		EXTENT OF EXCAVATION
	ABOVE GROUND STORAGE TANK				DCP LINE

Figure 2
SITE MAP

NOBLE ENERGY, INC. ~ BLISS 13-34
NWSW Sec 34, T6N, R65W, 6th PM
Weld County, Colorado

Project No. C019-083	Prepared by TA	Drawn by TA	
Date 4/27/22	Reviewed by JG	Filename 19083Q	



LEGEND

- SOIL BORING
 MONITORING WELL
 ABOVE GROUND STORAGE TANK
- FORMER FACILITY
 BUILDING
 BUILDING
- CONTAINMENT BERM
 EXTENT OF EXCAVATION
 DCP LINE
- GROUND WATER ELEVATION
 WATER TABLE CONTOUR
 INFERRED GROUND WATER FLOW DIRECTION

Figure 3
INFERRED GROUNDWATER CONTOUR MAP
 April 14, 2022

NOBLE ENERGY, INC. ~ BLISS 13-34
 NSW Sec 34, T6N, R65W, 6th PM
 Weld County, Colorado

Project No.
C019-083

Prepared by
TA

Drawn by
TA

Date
4/27/22

Reviewed by
JG

Filename
19083Q



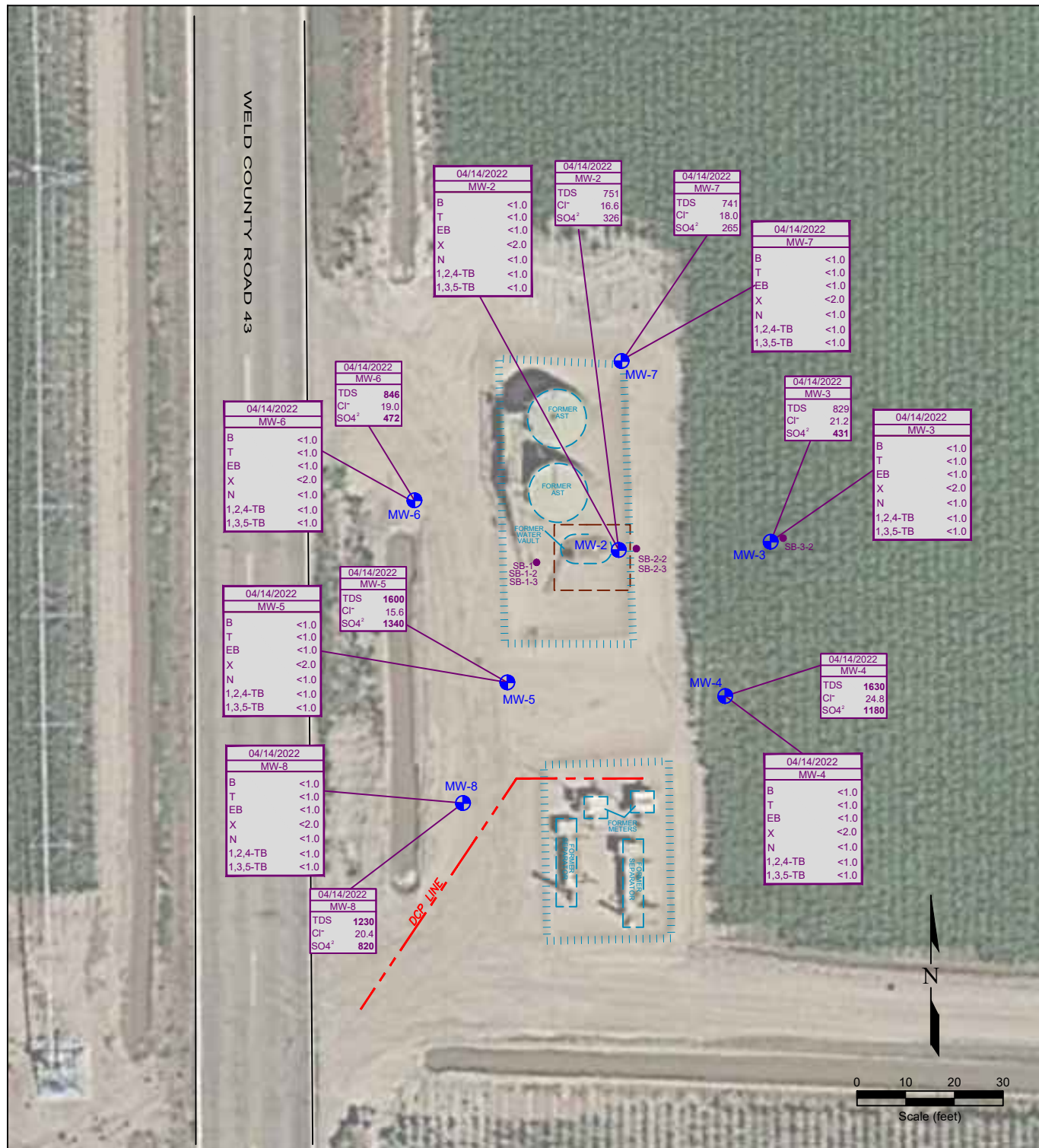


Figure 4
GROUNDWATER CHEMISTRY MAP
April 14, 2022

NOBLE ENERGY, INC. ~ BLISS 13-34
NWSW Sec 34, T6N, R65W, 6th PM
Weld County, Colorado

Project No.
C019-083

Date
4/27/22

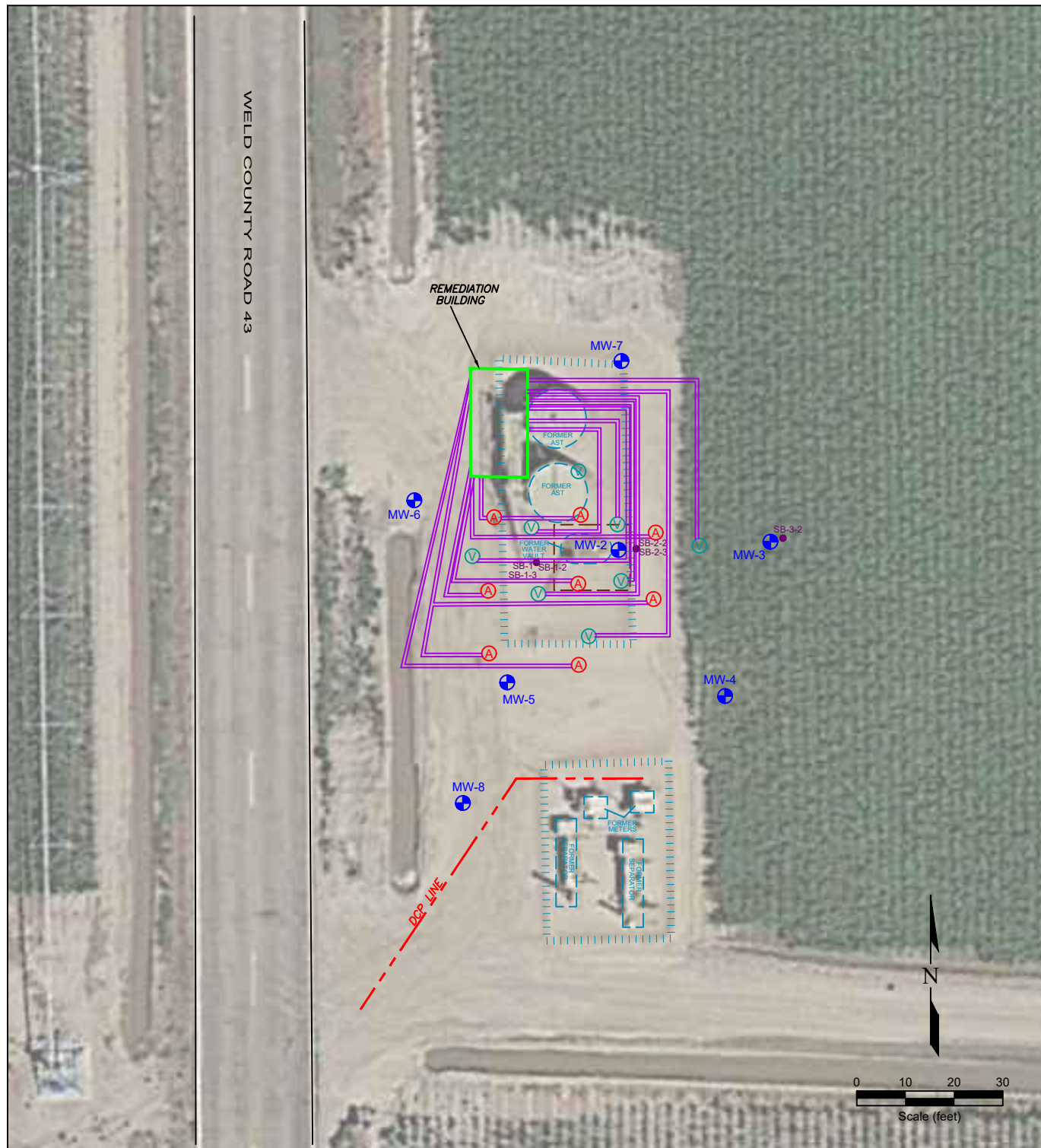
Prepared by
JG

Reviewed by
JG

Drawn by
TA

Filename
19083Q





LEGEND

● SOIL BORING	FORMER FACILITY	CONTAINMENT BERM
⊕ MONITORING WELL	FORMER BUILDING	EXTENT OF EXCAVATION
⊙ AIR SPARGE WELL	BUILDING	DCP LINE
⊖ SOIL VAPOR EXTRACTION WELL		SYSTEM TRENCH
○ ABOVE GROUND STORAGE TANK		

Figure 5
AS-BUILT REMEDIATION SYSTEM LAYOUT

NOBLE ENERGY, INC. ~ BLISS 13-34
NWSW Sec 34, T6N, R65W, 6th PM
Weld County, Colorado

Project No.
C019-083

Prepared by

Drawn by
TA

Date
4/27/22

Reviewed by
JG

Filename
19083Q



Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

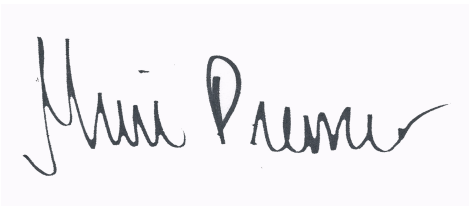
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April 19, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549
RE: Noble - Bliss 13-34
Work Order #2204162

Enclosed are the results of analyses for samples received by Summit Scientific on 04/12/22 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Muri Premier", is displayed on a light purple rectangular background.

Muri Premier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bliss 13-34

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/19/22 14:20

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW2	2204162-01	Water	04/12/22 00:00	04/12/22 16:00
MW3	2204162-02	Water	04/12/22 00:00	04/12/22 16:00
MW4	2204162-03	Water	04/12/22 00:00	04/12/22 16:00
MW5	2204162-04	Water	04/12/22 00:00	04/12/22 16:00
MW6	2204162-05	Water	04/12/22 00:00	04/12/22 16:00
MW7	2204162-06	Water	04/12/22 00:00	04/12/22 16:00
MW8	2204162-07	Water	04/12/22 00:00	04/12/22 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

2204162

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

Page 1 of 1

Client: Fremont Env

Project Manager: Paul ~~Henenhan~~ Henenhan

Address:

E-Mail: Paulh@Fremontenv.com

City/State/Zip:

ethenb@fremontenv.com jeffg@fremontenv.com

Phone:

Project Name: Bliss 13-34

Sampler Name: J6

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+N	TMDS (915)	Sulfate	TDS, Cl, SO ₄					
1	MW2	04/12/22		1	X				X					X	X	X					
2	MW3																				
3	MW4																				
4	MW5																				
5	MW6																				
6	MW7																				
7	MW8																				
8																					
9																					
10																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>04/12/22/</u>	Received by: <u>[Signature]</u>	Date/Time: <u>4/22/22</u> <u>10:00</u>	Turn Around Time (Check)	Notes:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day <input type="checkbox"/>	72 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/>	Bill to Jacob
Temperature Upon Receipt: <u>24</u>	Corrected Temperature <u>24</u>	HNO ₃ lot #	Sample Integrity:	Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No		
IR gun correction: <u>0</u>	IR gun #: <u>1</u>					

S₂

2204162

Sample Receipt Checklist

S2 Work Order#

Client: Fremont Client Project ID: BLISS 13-34

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

	-			
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Matrix (Check all that apply) ☐ Air ☐ Soil/Solid ☐ Water ☐ Other ☐Temp (°C) 24 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
Were all samples received intact ⁽¹⁾ ?	-			
Was adequate sample volume provided ⁽¹⁾ ?	-			
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⁾ ?	-			
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⁾ ?	-			
Is the COC properly relinquished by the client w/ date and time recorded ⁽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 ₂ SO ₄ , NaOH, HNO ₃ , etc.	-			HCl
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

4/2/22

Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bliss 13-34

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/19/22 14:20

MW2
2204162-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFD0244	04/12/22	04/13/22	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: **04/12/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		100 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		89.2 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	16.6	12.0		mg/L	200	BFD0287	04/14/22	04/14/22	EPA 300.0	
Sulfate	326	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	751	10.0		mg/L	1	BFD0264	04/13/22	04/14/22	SM2540C	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bliss 13-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/19/22 14:20

MW3
2204162-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFD0244	04/12/22	04/13/22	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: **04/12/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		106 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		92.3 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.5 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	21.2	12.0		mg/L	200	BFD0287	04/14/22	04/14/22	EPA 300.0	
Sulfate	431	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	829	10.0		mg/L	1	BFD0264	04/13/22	04/14/22	SM2540C	

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Project: Noble - Bliss 13-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/19/22 14:20

MW4
2204162-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFD0244	04/12/22	04/13/22	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: **04/12/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		95.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	24.8	12.0	mg/L	200	BFD0287	04/14/22	04/14/22	EPA 300.0	
Sulfate	1180	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1630	10.0	mg/L	1	BFD0264	04/13/22	04/14/22	SM2540C	

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Project: Noble - Bliss 13-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/19/22 14:20

MW5
2204162-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFD0244	04/12/22	04/13/22	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: **04/12/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	15.6	12.0	mg/L	200	BFD0287	04/14/22	04/14/22	EPA 300.0	
Sulfate	1340	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	1600	10.0	mg/L	1	BFD0264	04/13/22	04/14/22	SM2540C	

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Project: Noble - Bliss 13-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/19/22 14:20

MW6
2204162-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	BFD0244	04/12/22	04/13/22	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: **04/12/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		93.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Chloride	19.0	12.0	mg/L	200	BFD0287	04/14/22	04/14/22	EPA 300.0	
Sulfate	472	60.0	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Total Dissolved Solids	846	10.0	mg/L	1	BFD0264	04/13/22	04/14/22	SM2540C	

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Project: Noble - Bliss 13-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/19/22 14:20

MW7
2204162-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFD0244	04/12/22	04/13/22	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: **04/12/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		110 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		91.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	18.0	12.0		mg/L	200	BFD0287	04/14/22	04/14/22	EPA 300.0	
Sulfate	265	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	741	10.0		mg/L	1	BFD0264	04/13/22	04/14/22	SM2540C	

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PO Box 1289
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Project: Noble - Bliss 13-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/19/22 14:20

MW8
2204162-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BFD0244	04/12/22	04/13/22	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: **04/12/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		108 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		90.3 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	20.4	12.0		mg/L	200	BFD0287	04/14/22	04/14/22	EPA 300.0	
Sulfate	820	60.0		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/12/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1230	10.0		mg/L	1	BFD0264	04/13/22	04/14/22	SM2540C	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bliss 13-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/19/22 14:20

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 BFD0244 - EPA 5030 Water MS

Blank (BFD0244-BLK1)

Prepared & Analyzed: 04/12/22

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	14.8		"	13.3		111	23-173			
Surrogate: Toluene-d8	12.3		"	13.3		92.0	20-170			
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		100	21-167			

LCS (BFD0244-BS1)

Prepared & Analyzed: 04/12/22

Benzene	34.4	1.0	ug/l	41.7		82.6	51-132			
Toluene	39.5	1.0	"	41.7		94.7	51-138			
Ethylbenzene	41.2	1.0	"	41.7		98.9	58-146			
m,p-Xylene	85.6	2.0	"	83.3		103	57-144			
o-Xylene	41.6	1.0	"	41.7		99.9	53-146			
Naphthalene	35.3	1.0	"	41.7		84.8	70-130			
1,2,4-Trimethylbenzene	49.7	1.0	"	41.7		119	70-130			
1,3,5-Trimethylbenzene	47.8	1.0	"	41.7		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	15.3		"	13.3		115	23-173			
Surrogate: Toluene-d8	12.7		"	13.3		95.6	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

Matrix Spike (BFD0244-MS1)

Source: 2204131-01

Prepared & Analyzed: 04/12/22

Benzene	35.2	1.0	ug/l	41.7	1.28	81.5	34-141			
Toluene	42.0	1.0	"	41.7	ND	101	27-151			
Ethylbenzene	43.5	1.0	"	41.7	ND	104	29-160			
m,p-Xylene	104	2.0	"	83.3	2.30	123	20-166			
o-Xylene	47.3	1.0	"	41.7	ND	113	33-159			
Naphthalene	40.8	1.0	"	41.7	3.26	90.0	70-130			
1,2,4-Trimethylbenzene	41.6	1.0	"	41.7	ND	99.8	70-130			
1,3,5-Trimethylbenzene	44.8	1.0	"	41.7	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.6		"	13.3		109	23-173			
Surrogate: Toluene-d8	12.7		"	13.3		95.1	20-170			
Surrogate: 4-Bromofluorobenzene	13.7		"	13.3		103	21-167			

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PO Box 1289
Wellington CO, 80549

Project: Noble - Bliss 13-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/19/22 14:20

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 BFD0244 - EPA 5030 Water MS

Matrix Spike Dup (BFD0244-MSD1)		Source: 2204131-01			Prepared & Analyzed: 04/12/22					
Benzene	35.6	1.0	ug/l	41.7	1.28	82.5	34-141	1.13	30	
Toluene	42.4	1.0	"	41.7	ND	102	27-151	0.947	30	
Ethylbenzene	42.8	1.0	"	41.7	ND	103	29-160	1.65	30	
m,p-Xylene	93.7	2.0	"	83.3	2.30	110	20-166	10.8	30	
o-Xylene	44.2	1.0	"	41.7	ND	106	33-159	6.78	30	
Naphthalene	48.3	1.0	"	41.7	3.26	108	70-130	17.0	30	
1,2,4-Trimethylbenzene	44.9	1.0	"	41.7	ND	108	70-130	7.74	30	
1,3,5-Trimethylbenzene	51.5	1.0	"	41.7	ND	124	70-130	14.0	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	15.2		"	13.3		114	23-173			
Surrogate: Toluene-d8	12.8		"	13.3		96.2	20-170			
Surrogate: 4-Bromofluorobenzene	13.9		"	13.3		104	21-167			

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PO Box 1289
Wellington CO, 80549

Project: Noble - Bliss 13-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/19/22 14:20

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 BFD0287 - General Preparation

Blank (BFD0287-BLK1)

Prepared & Analyzed: 04/14/22

Chloride	ND	0.0600	mg/L
Sulfate	ND	0.300	"

LCS (BFD0287-BS1)

Prepared & Analyzed: 04/14/22

Chloride	3.15	0.0600	mg/L	3.00	105	90-110
Sulfate	15.2	0.300	"	15.0	101	90-110

Duplicate (BFD0287-DUP1)

Source: 2204213-01

Prepared & Analyzed: 04/14/22

Chloride	175	12.0	mg/L	175	0.00	20
Sulfate	275	60.0	"	279	1.16	20

Matrix Spike (BFD0287-MS1)

Source: 2204213-01

Prepared & Analyzed: 04/14/22

Chloride	ND	0.0600	mg/L	3.00	175	NR	80-120	QM-02
Sulfate	ND	0.300	"	15.0	279	NR	80-120	QM-02

Summit Scientific

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Project: Noble - Bliss 13-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/19/22 14:20

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 BFD0264 - General Preparation

Blank (BFD0264-BLK1)

Prepared: 04/13/22 Analyzed: 04/14/22

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BFD0264-DUP1)

Source: 2204162-01

Prepared: 04/13/22 Analyzed: 04/14/22

Total Dissolved Solids 758 10.0 mg/L 751 0.901 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Bliss 13-34

Project Number: [none]
Project Manager: Paul Henchan

Reported:
04/19/22 14:20

Notes and Definitions

QM-02	The RPD and/or percent recovery for this QC sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
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