

FREMONT ENVIRONMENTAL INC.

March 3, 2024

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

Subject: **Flowline Closure Data Submittal**
Calvary USX EE29-03D
API # 05-123-33671
SWNW Sec. 29, T7N, R65W
Weld County, Colorado
Fremont Project No. C023-251
Remediation # 29728

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted flowline closure activities for the Noble Energy Inc. (Noble) Calvary USX EE29-03D. Impacted soil was not encountered during abandonment activities. Details of the Calvary USX EE29-03D closure activities are documented in the attached Closure Report. Groundwater was not encountered during flowline abandonment activities.

Please contact me at (303) 261-6246 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

FREMONT ENVIRONMENTAL INC.



Stanley Gilbert
Environmental Scientist

Attachments:

- Facility Closure Checklist
- Tables
- Figures
- Photos
- Laboratory Report

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

Flowline Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: CALVARY USX EE29-03D		Date: 09/14/2023		Remediation Project #: 29728				
Associated Wells: API:05-123-33671		Age of Site: 2011		Number of Photos Attached: 6				

Starting point: (GPS coordinates and descriptions)
40.549533, -104.695174

End point: (GPS coordinates and descriptions)
40.549407, -104.691872

USCS Soil Type: **SC** Estimated Depth to Groundwater: **>6'**

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
None observed

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
None observed

Flowlines

Flowline type	OIL/Water/Gas						
Depth	5'- 6'						
Age	2011						
Length	1004'						
Construction Material	Steel						
Were flowlines pulled?	Yes						
Visual Integrity of lines	Good						
Visual impacts if trenched	N/A						
PID Readings if trenched	N/A						
Sample taken? Location/Sample ID#	Yes, see attached	Yes, see attached					
Photo Number(s)	See attached	See attached					

Other observations regarding on location flowlines:

Summary

Was impacted soil identified?
 No Yes - less than 10 cubic yards Yes - more than 10 cubic yards

Total number of samples field screened: **5** Total number of samples collected: **6**

Highest PID Reading: **0.3ppm (FL06 5')** Total number of samples submitted to lab for analysis: **1**

If more than 10 cubic yards of impacted soil were observed:

Vertical extent: Estimated spill volume:

Lateral extent: Volume of soil removed:

Is additional investigation required?

Was groundwater encountered during the investigation?
 No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils

Measured depth to groundwater: Was remedial groundwater removal conducted? Yes No

Date Groundwater was encountered: Commencement date of removal:

Sheen on groundwater? Yes No Volume of groundwater removed prior to sampling:

Free product observed? Yes No Volume of groundwater removed post sampling:

Total number of samples collected: Total Volume of groundwater removed:

Total number of samples submitted to lab for analysis:

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
CALVARY USX EE29-03D, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-251

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500**		
FL01 5'	09/14/2023	5.0 FT	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50

Bold faced values exceed the COGCC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

* Indicates laboratory minimum detection limit in excess of SSL

** Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
CALVARY USX EE29-03D, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-251

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
FL01 5'	09/14/2023	5.0 FT	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

Bold faced values exceed the COGCC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
CALVARY USX EE29-03D, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-251

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
FL01 5'	09/14/2023	5.0 FT	8.09	0.534	0.565	0.154
BKG01 5'	09/14/2023	5.0 FT	8.06	0.833	1.00	0.172

Bold faced values exceed the COGCC Table 915-1 concentrations

Yellow highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

NA - Not analyzed

TABLE 4
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
CALVARY USX EE29-03D, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C023-251

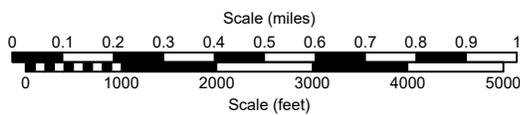
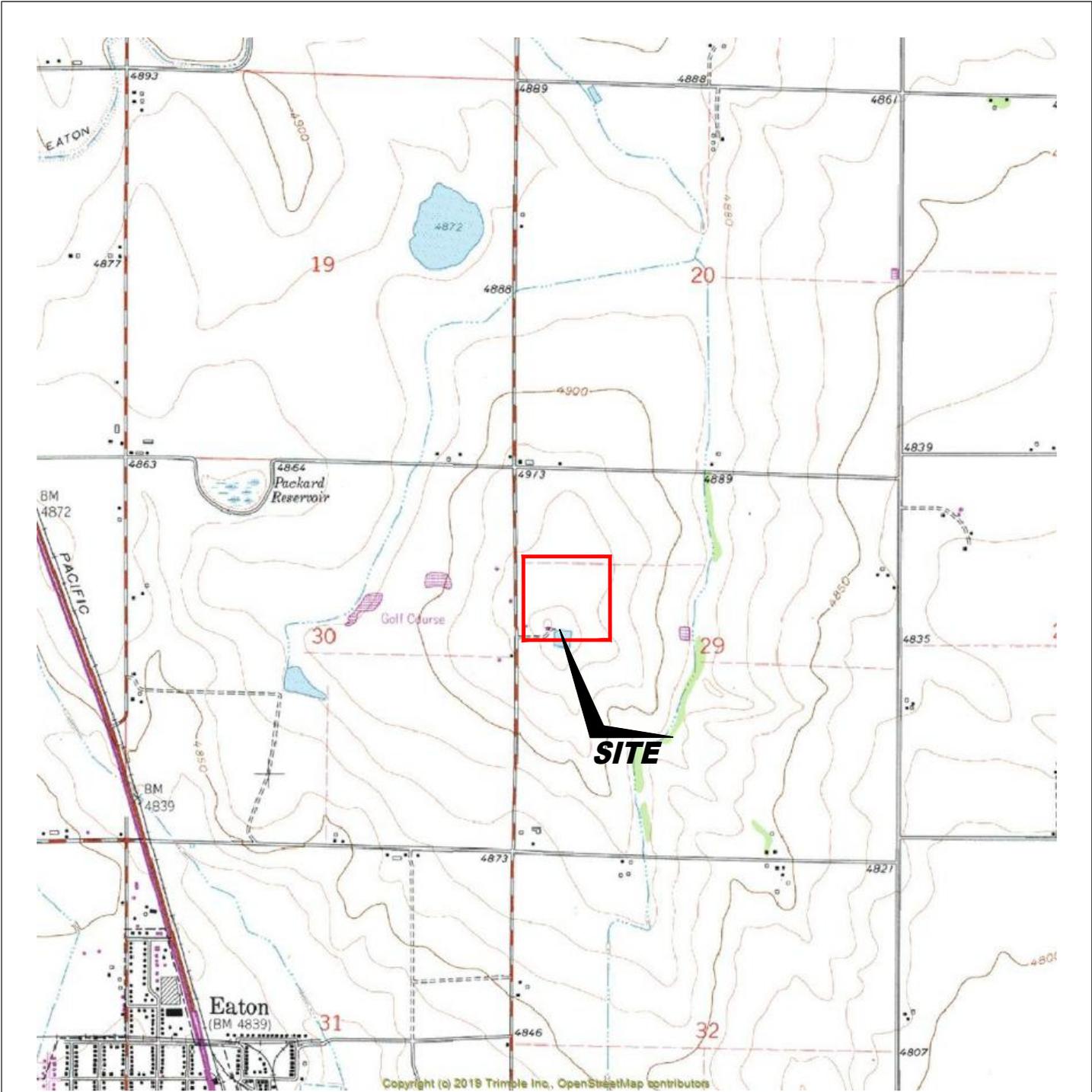
Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
FL01 5'	09/14/2023	5.0 FT	0.998	188	0.360	<0.30	3.34	10.9	2.68	<0.260	0.0376	10.6
BKG01 5'	09/14/2023	5.0 FT	1.02	184	0.348	<0.30	3.08	11.3	2.57	<0.260	0.0393	10.1

Bold faced values exceed the COGCC Table 915-1 concentrations

Red & blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

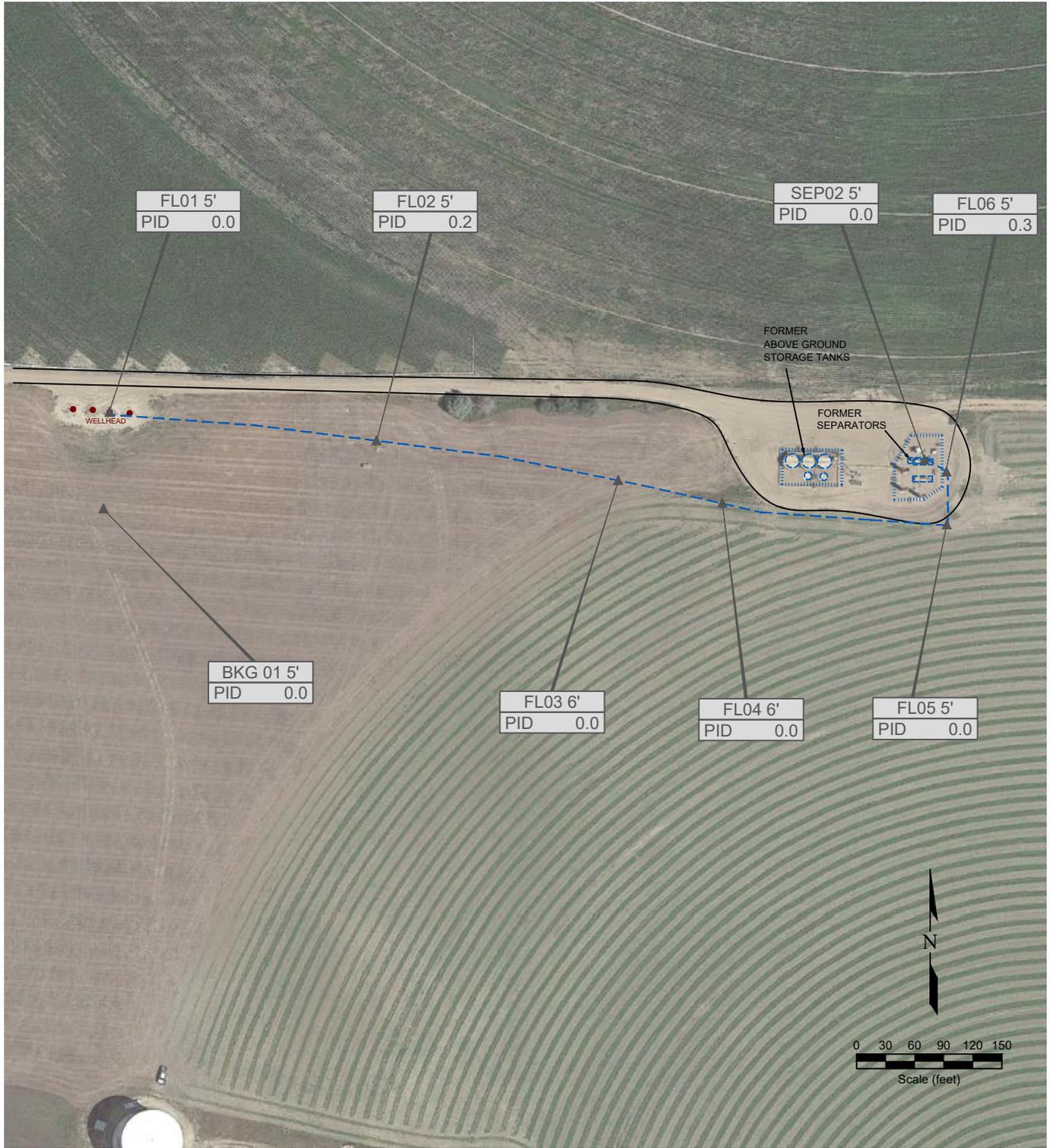


USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP
CALVARY USX EE29-03D ~ NOBLE ENERGY INC

SWNW Sec. 29, T7N, R65W, 6th PM
 Weld County, Colorado
 40.549550°, -104.695170°

Project # C023-251	API # 05-123-33671	Facility #	
Date 4/19/24	Remediation # 29728	Filename 23251T	



LEGEND

● WELL HEAD LOCATION	▲ PID READING LOCATION	AST ABOVE GROUND STORAGE TANK	FORMER FACILITY	FORMER FLOWLINE
				FENCE LINE
				CONTAINMENT BERM

Figure 2
SITE MAP

CALVARY USX EE29-03D ~ NOBLE ENERGY INC

SWNW Sec. 29, T7N, R65W, 6th PM
Weld County, Colorado
40.549550°, -104.695170°

Project No. C023-251	API # 05-123-33671	Facility #
Date 5/13/24	Remediation # 29728	Filename 23251Q1





Figure 3
SOIL CHEMISTRY MAP
CALVARY USX EE29-03D ~ NOBLE ENERGY INC

SWNW Sec. 29, T7N, R65W, 6th PM
 Weld County, Colorado
 40.549550°, -104.695170°

Project No. C023-251	API # 05-123-33671	Facility #
Date 4/19/24	Remediation # 29728	Filename 23251Q1



LEGEND

- WELL HEAD LOCATION
- SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FORMER FLOWLINE
- FENCE LINE
- CONTAINMENT BERM

DATE	DATE SAMPLED	DATE SAMPLED	DATE SAMPLED
ID and Depth	ID and Depth	ID and Depth	ID and Depth
B	<0.0020	BENZENE (mg/kg)	
T	<0.0050	TOLUENE (mg/kg)	
E	<0.0050	ETHYLBENZENE (mg/kg)	
X	<0.010	TOTAL XYLENES (mg/kg)	
1,2,4-TB	<0.0050	1,2,4-TRIMETHYLBENZENE (mg/kg)	
1,3,5-TB	<0.0050	1,3,5-TRIMETHYLBENZENE (mg/kg)	
N	<0.010	NAPHTHALENE (mg/kg)	
G	<50	TPH-GRO (mg/kg)	
D	<50	TPH-GRO (mg/kg)	
O	<50	TPH-GRO (mg/kg)	

DATE	DATE SAMPLED	DATE SAMPLED	DATE SAMPLED
N Wall @ 3'	N Wall @ 1'	N Wall @ 1'	N Wall @ 1'
As	2.41	ARSENIC (mg/kg)	
BA	28.0	BARIUM (mg/kg)	
Co	<0.0945	CADMIUM (mg/kg)	
CU	<9.45	COPPER (mg/kg)	
Pb	150	LEAD (mg/kg)	
Ni	<9.45	NICKEL (mg/kg)	
Se	0.135	SELENIUM (mg/kg)	
Ag	<0.0945	SILVER (mg/kg)	
Zn	<94.5	ZINC (mg/kg)	
Cr(VI)	<0.488	CHROMIUM (mg/kg)	

DATE	DATE SAMPLED	DATE SAMPLED	DATE SAMPLED
N Wall @ 3'	N Wall @ 1'	N Wall @ 1'	N Wall @ 1'
SAR	83.78	SAR (units)	
pH	9.4	pH (pH units)	
EC	3.34	EC (mmhos/cm)	
BORON	5.4	BORON (mg/L)	

Photo Log



Description:

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Photo Log



Description:

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Photo Log



Description:

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Photo Log



Description:

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Photo Log



Description:

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Photo Log



Description:

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Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 26, 2023

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Calvery USX EE 29-03D

Work Order #2309272

Enclosed are the results of analyses for samples received by Summit Scientific on 09/14/23 16:30. 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 - Calvery USX EE 29-03D

Project Number: UWRWE-A2056-ABN

Project Manager: Paul Henchan

Reported:
09/26/23 10:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01 5'	2309272-01	Soil	09/14/23 11:25	09/14/23 16:30
BKG01 5'	2309272-02	Soil	09/14/23 11:45	09/14/23 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.



4653 Table Mountain Drive
 Golden, CO 80403
 303-277-9310

Lab ID	Page	of
2309272		1

		Send Data To:	Send Invoice To:
Client: Fremont Environmental		Project Manager: Paul Henehan	Company: Noble
Address:		E-Mail: Fremont Distribution List	Project Name/Location: Calvary USX EE 29-030
City/State/Zip:			AFE#:
Phone: 303-261-6246		Project Name: Calvary USX EE 29-030	PO/Billing Codes: UWRWE-A2056-ABN
Sampler Name: Stanley Gilbert		Project Number:	Contact: Mike Montoya

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, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate
1	FLO1 5'	9/14/23	11:25	2			X			X			X	X	X	X			
2	BKG02 5'	1	11:45	1			X			X					X	X			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Relinquished by: <i>[Signature]</i>	Date/Time: 9/14/23 16:00	Received by: Summit North	Date/Time: 9/14/23 16:00	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: S2	Date/Time: 9/14/23 16:30	Received by: <i>[Signature]</i>	Date/Time: 9/14/23 16:50	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: 9.3	Corrected Temperature: e	IR gun #:		HNO3 lot #:		

S₂

Sample Receipt Checklist

S2 Work Order# 2309272

Client: Fremont Client Project ID: Calvary USX EE 29-03D

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

AR
Custodian Printed Name

9/14/23
Date/Time

23 23



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Calvery USX EE 29-03D

Project Number: UWRWE-A2056-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:28

FL01 5'
2309272-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/14/23 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BGI0507	09/18/23	09/20/23	EPA 8260B	
Toluene	ND	0.0050		"	"	"	"	"	"	
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	
Xylenes (total)	ND	0.010		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	
Naphthalene	ND	0.0038		"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **09/14/23 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0424	106 %		50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0405	101 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0385	96.3 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **09/14/23 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BGI0514	09/18/23	09/19/23	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **09/14/23 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.68	61.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Project: Noble - Calvery USX EE 29-03D

Project Number: UWRWE-A2056-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:28

FL01 5'
2309272-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **09/14/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BGI0585	09/20/23	09/20/23	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **09/14/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0361	108 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0162	48.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.154	0.0100	mg/L	1	BGI0510	09/18/23	09/20/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Calvery USX EE 29-03D

Project Number: UWRWE-A2056-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:28

FL01 5'
2309272-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	0.998	0.200	mg/kg dry	1	BGI0490	09/18/23	09/19/23	EPA 6020B	
Barium	188	0.400	"	"	"	"	"	"	
Cadmium	0.360	0.200	"	"	"	"	"	"	
Copper	3.34	0.400	"	"	"	"	"	"	
Lead	10.9	0.200	"	"	"	"	"	"	
Nickel	2.68	0.400	"	"	"	"	"	"	
Silver	0.0376	0.0200	"	"	"	"	"	"	
Zinc	10.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0616	09/20/23	09/21/23	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **09/14/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	53.1	0.0580	mg/L dry	1	BGI0578	09/20/23	09/22/23	EPA 6020B	
Magnesium	13.9	0.0580	"	"	"	"	"	"	
Sodium	17.9	0.0580	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **09/14/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.565	0.00100	units	1	BGI0681	09/22/23	09/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Calvery USX EE 29-03D
 Project Number: UWRWE-A2056-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:28

FL01 5'
2309272-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.2	%	1	BGI0560	09/19/23	09/19/23	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.534	0.0100	mmhos/cm	1	BGI0632	09/21/23	09/21/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **09/14/23 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.09		pH Units	1	BGI0631	09/21/23	09/21/23	EPA 9045D	

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Project: Noble - Calvery USX EE 29-03D

Project Number: UWRWE-A2056-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:28

BKG01 5'
2309272-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **09/14/23 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	0.172	0.0100	mg/L	1	BGI0510	09/18/23	09/20/23	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **09/14/23 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	1.02	0.200	mg/kg dry	1	BGI0490	09/18/23	09/19/23	EPA 6020B	
Barium	184	0.400	"	"	"	"	"	"	
Cadmium	0.348	0.200	"	"	"	"	"	"	
Copper	3.08	0.400	"	"	"	"	"	"	
Lead	11.3	0.200	"	"	"	"	"	"	
Nickel	2.57	0.400	"	"	"	"	"	"	
Silver	0.0393	0.0200	"	"	"	"	"	"	
Zinc	10.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by EPA Method 7196

Date Sampled: **09/14/23 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGI0616	09/20/23	09/21/23	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **09/14/23 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	59.1	0.0577	mg/L dry	1	BGI0578	09/20/23	09/22/23	EPA 6020B	
Magnesium	22.2	0.0577	"	"	"	"	"	"	
Sodium	35.6	0.0577	"	"	"	"	"	"	

Calculated Analysis

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Project: Noble - Calvery USX EE 29-03D

Project Number: UWRWE-A2056-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:28

BKG01 5'
2309272-02 (Soil)

Summit Scientific

Calculated Analysis

Date Sampled: **09/14/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.00	0.00100	units	1	BGI0681	09/22/23	09/22/23	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/14/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.6		%	1	BGI0560	09/19/23	09/19/23	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **09/14/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.833	0.0100	mmhos/cm	1	BGI0632	09/21/23	09/21/23	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **09/14/23 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06		pH Units	1	BGI0631	09/21/23	09/21/23	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Calvery USX EE 29-03D

Project Number: UWRWE-A2056-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:28

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 BGI0507 - EPA 5030 Soil MS

Blank (BGI0507-BLK1)

Prepared: 09/18/23 Analyzed: 09/20/23

Benzene	ND	0.0020	mg/kg								
Toluene	ND	0.0050	"								
Ethylbenzene	ND	0.0050	"								
Xylenes (total)	ND	0.010	"								
1,2,4-Trimethylbenzene	ND	0.0050	"								
1,3,5-Trimethylbenzene	ND	0.0050	"								
Naphthalene	ND	0.0038	"								
Gasoline Range Hydrocarbons	ND	0.50	"								
Surrogate: 1,2-Dichloroethane-d4	0.0390		"	0.0400		97.6	50-150				
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	50-150				
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.5	50-150				

LCS (BGI0507-BS1)

Prepared: 09/18/23 Analyzed: 09/20/23

Benzene	0.103	0.0020	mg/kg	0.100		103	70-130				
Toluene	0.101	0.0050	"	0.100		101	70-130				
Ethylbenzene	0.0991	0.0050	"	0.100		99.1	70-130				
m,p-Xylene	0.199	0.010	"	0.200		99.4	70-130				
o-Xylene	0.101	0.0050	"	0.100		101	70-130				
1,2,4-Trimethylbenzene	0.104	0.0050	"	0.100		104	70-130				
1,3,5-Trimethylbenzene	0.102	0.0050	"	0.100		102	70-130				
Naphthalene	0.0914	0.0038	"	0.100		91.4	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0387		"	0.0400		96.8	50-150				
Surrogate: Toluene-d8	0.0404		"	0.0400		101	50-150				
Surrogate: 4-Bromofluorobenzene	0.0408		"	0.0400		102	50-150				

Matrix Spike (BGI0507-MS1)

Source: 2309266-01

Prepared: 09/18/23 Analyzed: 09/20/23

Benzene	0.0880	0.0020	mg/kg	0.100	ND	88.0	70-130				
Toluene	0.0800	0.0050	"	0.100	ND	80.0	70-130				
Ethylbenzene	0.0754	0.0050	"	0.100	ND	75.4	70-130				
m,p-Xylene	0.145	0.010	"	0.200	ND	72.7	70-130				
o-Xylene	0.0761	0.0050	"	0.100	ND	76.1	70-130				
1,2,4-Trimethylbenzene	0.0649	0.0050	"	0.100	ND	64.9	70-130				QM-07
1,3,5-Trimethylbenzene	0.0685	0.0050	"	0.100	ND	68.5	70-130				QM-07
Naphthalene	0.0616	0.0038	"	0.100	ND	61.6	70-130				QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0403		"	0.0400		101	50-150				
Surrogate: Toluene-d8	0.0398		"	0.0400		99.4	50-150				
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	50-150				

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Calvery USX EE 29-03D

Project Number: UWRWE-A2056-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:28

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 BGI0507 - EPA 5030 Soil MS

Matrix Spike Dup (BGI0507-MSD1)	Source: 2309266-01			Prepared: 09/18/23 Analyzed: 09/20/23						
Benzene	0.0830	0.0020	mg/kg	0.100	ND	83.0	70-130	5.89	30	
Toluene	0.0766	0.0050	"	0.100	ND	76.6	70-130	4.37	30	
Ethylbenzene	0.0776	0.0050	"	0.100	ND	77.6	70-130	2.78	30	
m,p-Xylene	0.152	0.010	"	0.200	ND	75.8	70-130	4.14	30	
o-Xylene	0.0779	0.0050	"	0.100	ND	77.9	70-130	2.34	30	
1,2,4-Trimethylbenzene	0.0708	0.0050	"	0.100	ND	70.8	70-130	8.66	30	
1,3,5-Trimethylbenzene	0.0732	0.0050	"	0.100	ND	73.2	70-130	6.60	30	
Naphthalene	0.0658	0.0038	"	0.100	ND	65.8	70-130	6.45	30	QM-07
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.8</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0395</i>		<i>"</i>	<i>0.0400</i>		<i>98.7</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0401</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>50-150</i>			

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Project: Noble - Calvery USX EE 29-03D
 Project Number: UWRWE-A2056-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:28

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BGI0514 - EPA 3550A

Blank (BGI0514-BLK1)

Prepared: 09/18/23 Analyzed: 09/19/23

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	11.5		"	12.5		92.1	30-150				

LCS (BGI0514-BS1)

Prepared: 09/18/23 Analyzed: 09/19/23

C10-C28 (DRO)	440	50	mg/kg	500		88.1	70-130				
Surrogate: <i>o</i> -Terphenyl	11.3		"	12.5		90.2	30-150				

Matrix Spike (BGI0514-MS1)

Source: 2309266-01

Prepared: 09/18/23 Analyzed: 09/19/23

C10-C28 (DRO)	455	50	mg/kg	500	25.5	85.9	70-130				
Surrogate: <i>o</i> -Terphenyl	8.54		"	12.5		68.3	30-150				

Matrix Spike Dup (BGI0514-MSD1)

Source: 2309266-01

Prepared: 09/18/23 Analyzed: 09/19/23

C10-C28 (DRO)	336	50	mg/kg	500	25.5	62.0	70-130	30.2	20		QM-07
Surrogate: <i>o</i> -Terphenyl	7.88		"	12.5		63.0	30-150				

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Calvery USX EE 29-03D

Project Number: UWRWE-A2056-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:28

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGI0585 - EPA 5030 Soil MS

Blank (BGI0585-BLK1)

Prepared & Analyzed: 09/20/23

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0450</i>		"	<i>0.0333</i>		<i>135</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0330</i>		"	<i>0.0333</i>		<i>98.9</i>	<i>40-150</i>			

LCS (BGI0585-BS1)

Prepared & Analyzed: 09/20/23

Acenaphthene	0.0333	0.00500	mg/kg	0.0333		99.8	31-137			
Anthracene	0.0329	0.00500	"	0.0333		98.6	30-120			
Benzo (a) anthracene	0.0318	0.00500	"	0.0333		95.3	30-120			
Benzo (a) pyrene	0.0331	0.00500	"	0.0333		99.4	30-120			
Benzo (b) fluoranthene	0.0342	0.00500	"	0.0333		103	30-120			
Benzo (k) fluoranthene	0.0344	0.00500	"	0.0333		103	30-120			
Chrysene	0.0327	0.00500	"	0.0333		98.2	30-120			
Dibenz (a,h) anthracene	0.0303	0.00500	"	0.0333		91.0	30-120			
Fluoranthene	0.0353	0.00500	"	0.0333		106	30-120			
Fluorene	0.0338	0.00500	"	0.0333		101	30-120			
Indeno (1,2,3-cd) pyrene	0.0232	0.00500	"	0.0333		69.5	30-120			
Pyrene	0.0326	0.00500	"	0.0333		97.7	35-142			
1-Methylnaphthalene	0.0382	0.00500	"	0.0333		115	35-142			
2-Methylnaphthalene	0.0320	0.00500	"	0.0333		96.1	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0317</i>		"	<i>0.0333</i>		<i>95.0</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0351</i>		"	<i>0.0333</i>		<i>105</i>	<i>40-150</i>			

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Wellington CO, 80549

Project: Noble - Calvery USX EE 29-03D

Project Number: UWRWE-A2056-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:28

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BGI0585 - EPA 5030 Soil MS

Matrix Spike (BGI0585-MS1)	Source: 2309270-01			Prepared & Analyzed: 09/20/23							
Acenaphthene	0.0222	0.00500	mg/kg	0.0333	ND	66.7	31-137				
Anthracene	0.0217	0.00500	"	0.0333	ND	65.1	30-120				
Benzo (a) anthracene	0.0206	0.00500	"	0.0333	ND	61.8	30-120				
Benzo (a) pyrene	0.0217	0.00500	"	0.0333	ND	65.2	30-120				
Benzo (b) fluoranthene	0.0234	0.00500	"	0.0333	ND	70.3	30-120				
Benzo (k) fluoranthene	0.0234	0.00500	"	0.0333	ND	70.2	30-120				
Chrysene	0.0230	0.00500	"	0.0333	ND	68.9	30-120				
Dibenz (a,h) anthracene	0.0209	0.00500	"	0.0333	ND	62.6	30-120				
Fluoranthene	0.0231	0.00500	"	0.0333	ND	69.2	30-120				
Fluorene	0.0231	0.00500	"	0.0333	ND	69.3	30-120				
Indeno (1,2,3-cd) pyrene	0.0210	0.00500	"	0.0333	ND	62.9	30-120				
Pyrene	0.0238	0.00500	"	0.0333	ND	71.4	35-142				
1-Methylnaphthalene	0.0270	0.00500	"	0.0333	ND	81.0	15-130				
2-Methylnaphthalene	0.0227	0.00500	"	0.0333	ND	68.1	15-130				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0216</i>		<i>"</i>	<i>0.0333</i>		<i>64.8</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0219</i>		<i>"</i>	<i>0.0333</i>		<i>65.8</i>	<i>40-150</i>				

Matrix Spike Dup (BGI0585-MSD1)	Source: 2309270-01			Prepared & Analyzed: 09/20/23						
Acenaphthene	0.0159	0.00500	mg/kg	0.0333	ND	47.8	31-137	33.0	30	QR-02
Anthracene	0.0149	0.00500	"	0.0333	ND	44.6	30-120	37.4	30	QR-02
Benzo (a) anthracene	0.0153	0.00500	"	0.0333	ND	45.9	30-120	29.5	30	
Benzo (a) pyrene	0.0146	0.00500	"	0.0333	ND	43.9	30-120	39.1	30	QR-02
Benzo (b) fluoranthene	0.0166	0.00500	"	0.0333	ND	49.9	30-120	34.0	30	QR-02
Benzo (k) fluoranthene	0.0175	0.00500	"	0.0333	ND	52.4	30-120	29.1	30	
Chrysene	0.0185	0.00500	"	0.0333	ND	55.6	30-120	21.5	30	
Dibenz (a,h) anthracene	0.0147	0.00500	"	0.0333	ND	44.1	30-120	34.7	30	QR-02
Fluoranthene	0.0156	0.00500	"	0.0333	ND	46.7	30-120	38.8	30	QR-02
Fluorene	0.0168	0.00500	"	0.0333	ND	50.5	30-120	31.4	30	QR-02
Indeno (1,2,3-cd) pyrene	0.0154	0.00500	"	0.0333	ND	46.2	30-120	30.7	30	QR-02
Pyrene	0.0193	0.00500	"	0.0333	ND	57.8	35-142	21.1	30	
1-Methylnaphthalene	0.0183	0.00500	"	0.0333	ND	55.0	15-130	38.2	50	
2-Methylnaphthalene	0.0167	0.00500	"	0.0333	ND	50.1	15-130	30.4	50	
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0202</i>		<i>"</i>	<i>0.0333</i>		<i>60.5</i>	<i>40-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0142</i>		<i>"</i>	<i>0.0333</i>		<i>42.5</i>	<i>40-150</i>			

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Calvery USX EE 29-03D
 Project Number: UWRWE-A2056-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:28

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BGI0510 - EPA 3050B

Blank (BGI0510-BLK1)

Prepared: 09/18/23 Analyzed: 09/20/23

Boron ND 0.0100 mg/L

LCS (BGI0510-BS1)

Prepared: 09/18/23 Analyzed: 09/20/23

Boron 4.74 0.0100 mg/L 5.00 94.9 80-120

Duplicate (BGI0510-DUP1)

Source: 2309265-01

Prepared: 09/18/23 Analyzed: 09/20/23

Boron 0.137 0.0100 mg/L 0.153 10.9 20

Matrix Spike (BGI0510-MS1)

Source: 2309265-01

Prepared: 09/18/23 Analyzed: 09/20/23

Boron 4.35 0.0100 mg/L 5.00 0.153 84.0 75-125

Matrix Spike Dup (BGI0510-MSD1)

Source: 2309265-01

Prepared: 09/18/23 Analyzed: 09/20/23

Boron 4.49 0.0100 mg/L 5.00 0.153 86.7 75-125 3.04 25

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Calvery USX EE 29-03D
 Project Number: UWRWE-A2056-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:28

Hexavalent Chromium by EPA Method 7196 - Quality Control

Summit Scientific

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

Batch BGI0616 - 3060A Mod

Blank (BGI0616-BLK1)

Prepared: 09/20/23 Analyzed: 09/21/23

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BGI0616-BS1)

Prepared: 09/20/23 Analyzed: 09/21/23

Chromium, Hexavalent 27.0 0.30 mg/kg wet 25.0 108 80-120

Duplicate (BGI0616-DUP1)

Source: 2309254-01

Prepared: 09/20/23 Analyzed: 09/21/23

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BGI0616-MS1)

Source: 2309254-01

Prepared: 09/20/23 Analyzed: 09/21/23

Chromium, Hexavalent 27.2 0.30 mg/kg dry 27.2 ND 100 75-125

Matrix Spike Dup (BGI0616-MSD1)

Source: 2309254-01

Prepared: 09/20/23 Analyzed: 09/21/23

Chromium, Hexavalent 27.2 0.30 mg/kg dry 27.2 ND 99.8 75-125 0.200 20

Summit Scientific

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 PO Box 1289
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Project: Noble - Calvery USX EE 29-03D

Project Number: UWRWE-A2056-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:28

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BGI0578 - General Preparation

Blank (BGI0578-BLK1)

Prepared: 09/20/23 Analyzed: 09/22/23

Calcium	ND	0.0500	mg/L wet							
Magnesium	ND	0.0500	"							
Sodium	ND	0.0500	"							

LCS (BGI0578-BS1)

Prepared: 09/20/23 Analyzed: 09/22/23

Calcium	5.10	0.0500	mg/L wet	5.00		102	70-130			
Magnesium	5.05	0.0500	"	5.00		101	70-130			
Sodium	5.22	0.0500	"	5.00		104	70-130			

Summit Scientific

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 PO Box 1289
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Project: Noble - Calvery USX EE 29-03D

Project Number: UWRWE-A2056-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:28

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BGI0560 - General Preparation

Duplicate (BGI0560-DUP1)

Source: 2309266-01

Prepared & Analyzed: 09/19/23

% Solids	97.7		%		97.0			0.771	20	
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Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Calvery USX EE 29-03D
 Project Number: UWRWE-A2056-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:28

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BGI0632 - General Preparation

Blank (BGI0632-BLK1)

Prepared & Analyzed: 09/21/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BGI0632-BS1)

Prepared & Analyzed: 09/21/23

Specific Conductance (EC) 0.156 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BGI0632-DUP1)

Source: 2309261-01

Prepared & Analyzed: 09/21/23

Specific Conductance (EC) 0.438 0.0100 mmhos/cm 0.438 0.00 20

Summit Scientific

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 PO Box 1289
 Wellington CO, 80549

Project: Noble - Calvery USX EE 29-03D

Project Number: UWRWE-A2056-ABN
 Project Manager: Paul Henchan

Reported:
 09/26/23 10:28

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control

Summit Scientific

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

Batch BGI0631 - General Preparation

LCS (BGI0631-BS1)

Prepared & Analyzed: 09/21/23

pH 9.28 pH Units 9.18 101 95-105

Duplicate (BGI0631-DUP1)

Source: 2309261-01

Prepared & Analyzed: 09/21/23

pH 8.10 pH Units 8.10 0.00 20

Summit Scientific

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Wellington CO, 80549

Project: Noble - Calvery USX EE 29-03D

Project Number: UWRWE-A2056-ABN
Project Manager: Paul Henchan

Reported:
09/26/23 10:28

Notes and Definitions

- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- 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