

FREMONT ENVIRONMENTAL INC.

March 8, 2023

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

Subject: **Flowline Closure Data Submittal**
Baker State B 36-12
API # 05-123-17430
NWSW Sec. 36, T5N, R64W; NESW, Sec. 36, T5N, R64W
Weld County, Colorado
Fremont Project No. C022-187
Remediation # 20770

Dear Mr. Peterson:

As requested, Fremont Environmental Inc. (Fremont) personnel conducted flowline abandonment activities at the Noble Energy Inc. (Noble) Baker State B 36-12 flowlines. Details of the flowline abandonment activities are documented in the attached Closure Report. Groundwater was not encountered during decommissioning activities.

Please contact me at (970) 213-7488 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

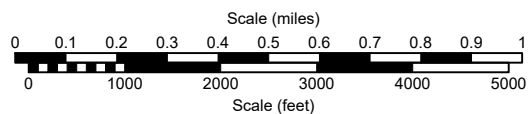
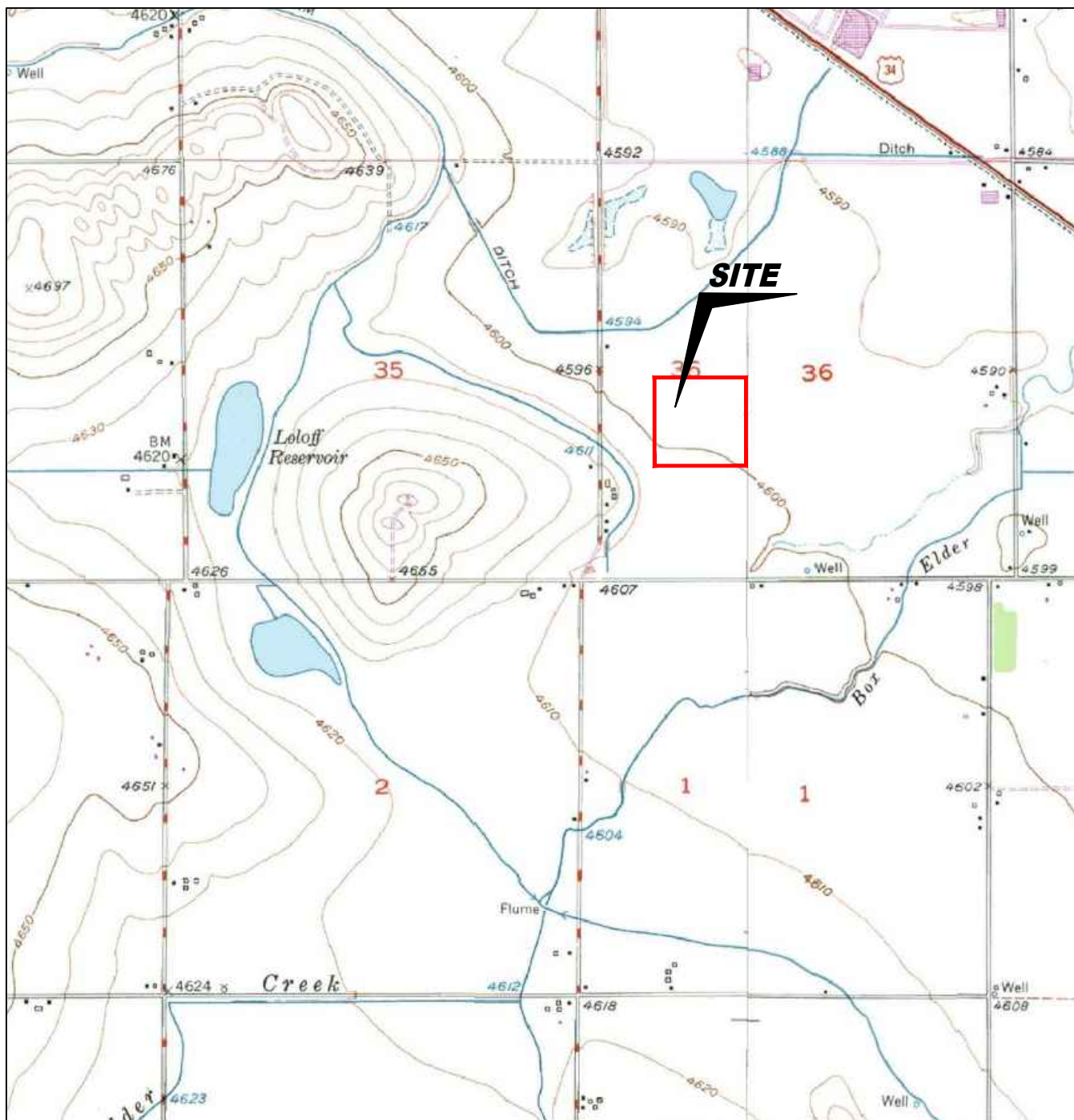
FREMONT ENVIRONMENTAL INC.



Chris Lattes
Consultant

Attachments:
Figures
Tables
Flowline Closure Checklist
Photos
Laboratory Reports

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



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1

**SITE LOCATION MAP
NOBLE ENERGY INC**

BAKER STATE B 36-12
NWSW Sec. 36, T5N, R64W, 6th PM
Weld County, Colorado
40.354080°, -104.504900°

Project # C022-187	API # 05-123-17430	Facility #
Date 3/27/2023	Remediation # 20770	Filename 22187T36-12





LEGEND

▲ PID READING LOCATION	AST ABOVE GROUND STORAGE TANK	FORMER FACILITY	ABANDONED IN PLACE FLOW LINE
		FENCE LINE	
		CONTAINMENT BERM	
		REMOVED FLOW LINE	

Figure 2

SITE MAP

NOBLE ENERGY INC

BAKER STATE B 36-12

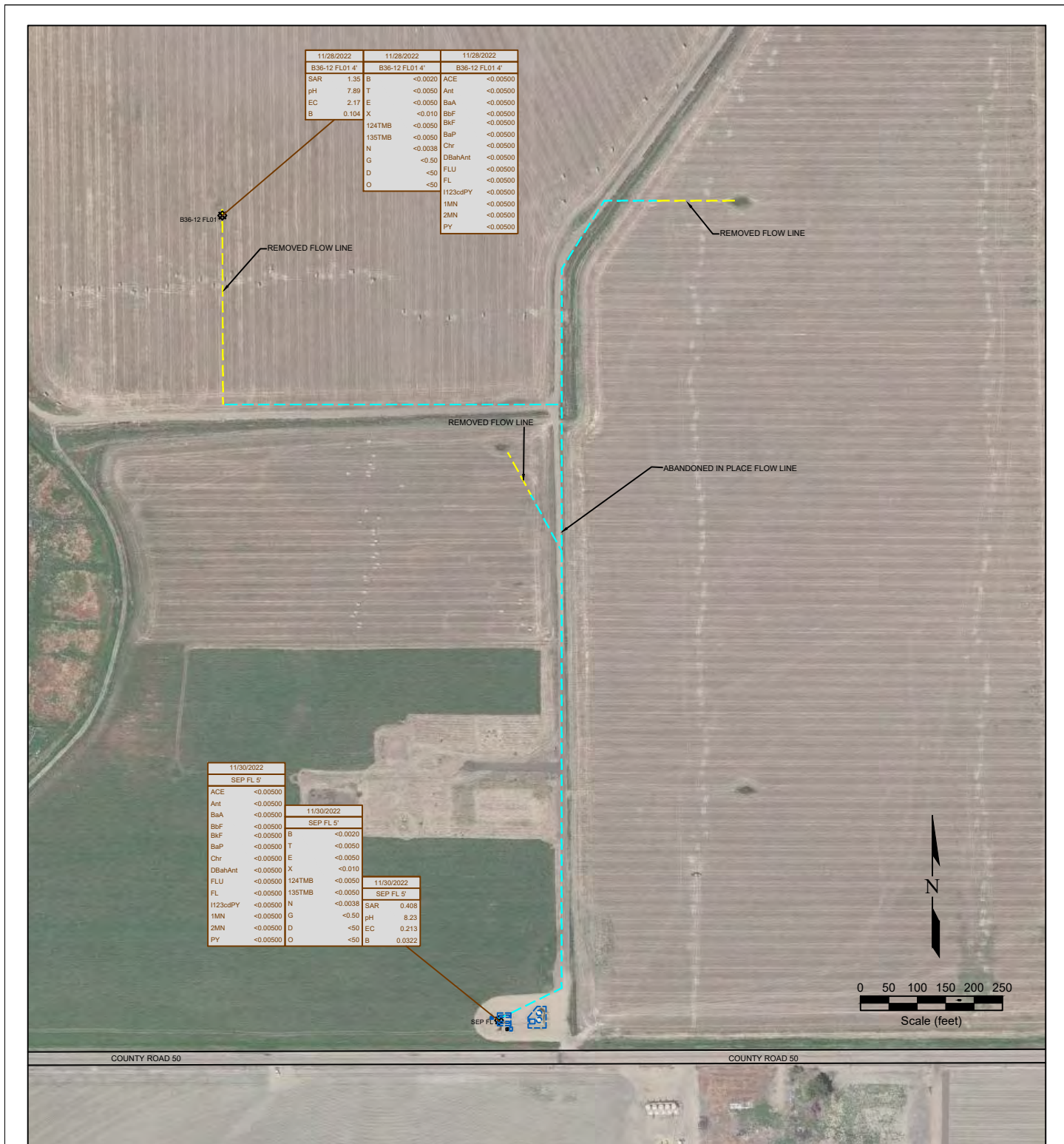
NWSW Sec. 36, T5N, R64W, 6th PM

Weld County, Colorado

40.354080°, -104.504900°

Project No. C022-187	API # 05-123-17430	Facility #
Date 6/2/2023	Remediation # 20770	Filename 22187Q1





LEGEND			
	SOIL SAMPLE LOCATION		ABOVE GROUND STORAGE TANK
	FORMER FACILITY		ABANDONED IN PLACE FLOW LINE
	FENCE LINE		CONTAINMENT BERM
	REMOVED FLOW LINE		

DATE	DATE SAMPLED	DATE	DATE SAMPLED
6/24/2021	6/24/2021	11/30/2022	11/30/2022
N Wall @ 3'	N Wall @ 3'	SEP FL 5'	SEP FL 5'
ACE	ACE	ACE	ACE
Ant	Ant	Ant	Ant
BaA	BaA	BaA	BaA
BaF	BaF	BaF	BaF
BaP	BaP	BaP	BaP
Chr	Chr	Chr	Chr
DBahAnt	DBahAnt	DBahAnt	DBahAnt
FLU	FLU	FLU	FLU
FL	FL	FL	FL
1,2,3cdPY	1,2,3cdPY	1,2,3cdPY	1,2,3cdPY
1-MN	1-MN	1-MN	1-MN
2-MN	2-MN	2-MN	2-MN
PY	PY	PY	PY

Figure 2

SITE MAP

NOBLE ENERGY INC

BAKER STATE B 36-12

NWSW Sec. 36, T5N, R64W, 6th PM

Weld County, Colorado

40.354080°, -104.504900°

Project No. C022-187	API # 05-123-17430	Facility # 22187Q1
Date 3/22/2023	Remediation # 20770	Filename 22187Q1

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
BAKER ST B-36-11, 12, 13, 14, CLYNCKE STATE B36-25, 20, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-187

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)
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500		
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500		
B36-12 FL01@4'	11/28/2022	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
B36-25 FL01@4'	11/28/2022	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
B36-11 FL01@4'	11/28/2022	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
B36-11 FL02@6'	11/30/2022	6'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
SEP FL@5'	11/30/2022	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
FL01 2 ft	12/07/2022	2'	<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)

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

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
BAKER ST B-36-11, 12, 13, 14, CLYNCKE STATE B36-25, 20, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-187

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)
COGCC 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
COGCC 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
B36-12 FL01@4'	11/28/2022	4'	<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
B36-25 FL01@4'	11/28/2022	4'	<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
B36-11 FL01@4'	11/28/2022	4'	<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
B36-11 FL02@6'	11/30/2022	6'	<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
SEP FL@5'	11/30/2022	5'	<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
FL01 2 ft	12/07/2022	2'	<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)

TABLE 3
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY INC.
BAKER ST B-36-11, 12, 13, 14, CLYNCKE STATE B36-25, 20, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C022-187

Sample ID	Sample Date	Depth (ft)	pH	EC (mmhos/cm)	SAR	Boron (mg/L)
COGCC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
B36-12 FL01@4'	11/28/2022	4'	7.89	2.17	1.35	0.104
B36-25 FL01@4'	11/28/2022	4'	8.02	0.707	1.75	0.0807
B36-11 FL01@4'	11/28/2022	4'	8.01	1.49	0.42	0.0516
B36-11 FL02@6'	11/30/2022	6'	7.94	1.12	3.57	0.101
SEP FL@5'	11/30/2022	5'	8.23	0.213	0.408	0.0322
FL01 2 ft	12/07/2022	2'	7.93	0.308	1.23	0.623
BKG01@1'	11/23/2022	1'	7.80	NA	NA	NA

Bold faced values exceed the COGCC Table 915-1 concentrations

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

TABLE 4
SUMMARY OF POTHOLE FIELD OBSERVATIONS
NOBLE ENERGY INC
BAKER STATE B36-11, 12 & CLYNCKE STATE B36-25 , WELD COUNTY, COLORADO
FREMONT PROJECT C022-187

Location	Latitude	Longitude	PID Reading	Field Observations
B36-11 FL01@4'	40.354163	-104.500555	0	No suspected impacts.
B36-11 FL02@7'	40.354160	-104.501215	0	No suspected impacts.
B36-12 FL01@4'	40.354080	-104.504878	0	No suspected impacts.
B36-12 FL02	40.353374	-104.504879	0	No suspected impacts.
B36-12 FL03	40.352858	-104.504874	0	No suspected impacts.
B36-25 FL01@4'	40.352559	-104.502473	0	No suspected impacts.
B36-25 FL02@5'	40.352280	-104.502260	0	No suspected impacts.
SEPFL@5'	40.348913	-104.502543	0.7	No suspected impacts.

TABLE 5
SUMMARY OF FLOW LINE CONDITION
NOBLE ENERGY INC
BAKER STATE B36-12, WELD COUNTY, COLORADO
FREMONT PROJECT C022-187

START	STOP	FOOTAGE	PIPE TYPE AND CONDITION
B36-12 FL01@4'	B36-12 FL02	258	2" Green Epoxy, good condition, removed.
B36-12 FL02	B36-12 FL03	190	2" Green Epoxy, good condition, removed.
B36-12 FL03	SEPFL@5'	2325	2" Green Epoxy, good condition, AIP.

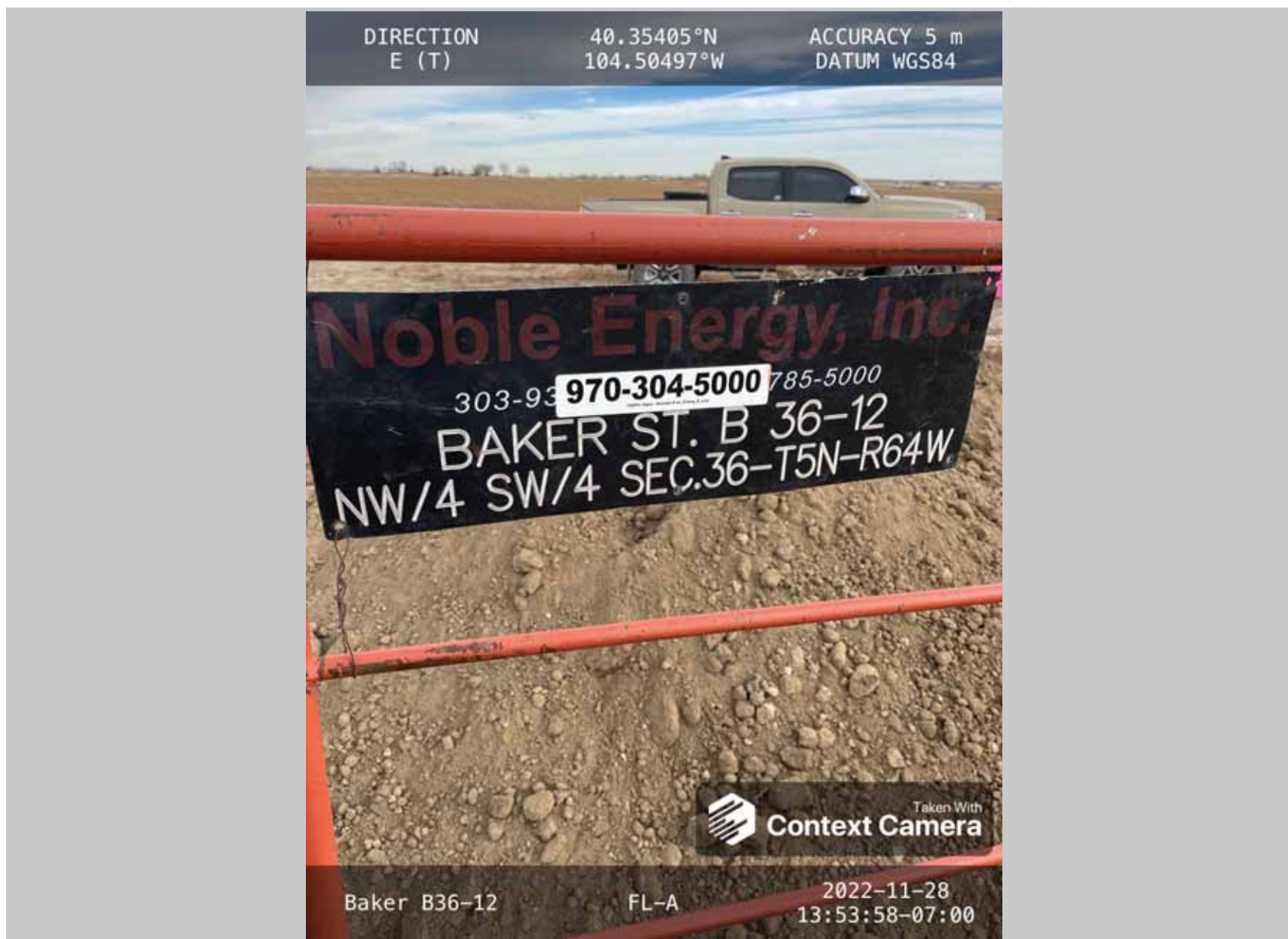
2773 Total linear feet of flow line

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: BAKER STATE B 36-12		Date: 11/28/2023 & 11/30/2023					Remediation Project #: 20770	
Associated Wells: 05-123-17430		Age of Site: Unknown					Number of Photos Attached: See attached	
Starting point: (GPS coordinates and descriptions) 40.354080, -104.504878								
End point: (GPS coordinates and descriptions) 40.348913, -104.502543								
USCS Soil Type: Silty Sand (SM/ML)					Estimated Depth to Groundwater:			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) No observed impacted soil or spills.								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) No observed salt crusted soil or impacted vegetation.								
Flowlines								
Flowline type	Wellhead Line							
Depth	4-5 feet							
Age	Unknown							
Length	2,773 feet							
Construction Material	Steel							
Were flowlines pulled?	Partial							
Visual Integrity of lines	Good condition							
Visual impacts if trenched	None Observed							
PID Readings if trenched	0 ppm							
Sample taken? Location/Sample ID#	See attached figure							
Photo Number(s)	See attached							
Other observations regarding on location flowlines: 2,325 feet of flowline abandoned in place.								
Summary								
Was impacted soil identified? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards								
Total number of samples field screened: 4					Total number of samples collected: 4			
Highest PID Reading: 0.7 ppm					Total number of samples submitted to lab for analysis: 2			
If more than 10 cubic yards of impacted soil were observed: N/A								
Vertical extent:					Estimated spill volume:			
Lateral extent:					Volume of soil removed:			
Is additional investigation required?								
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - not impacted or in contact with impacted soils <input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils								
Measured depth to groundwater:					Was remedial groundwater removal conducted? Yes <input type="checkbox"/> No <input type="checkbox"/>			
Date Groundwater was encountered:					Commencement date of removal:			
Sheen on groundwater? <input type="checkbox"/> Yes <input type="checkbox"/> No					Volume of groundwater removed prior to sampling:			
Free product observed? <input type="checkbox"/> Yes <input type="checkbox"/> 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:								

Photo Log



Description:

Baker State B 36-12

Photo Log



Description:

B36-12 FL01@4'

Photo Log



Description:

B36-12 FL02

Photo Log



Description:

B36-12 FL03

Photo Log



Description:

SEPFL@5'

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 12, 2022

Paul Henchan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Clyncke State B36-25, Baker State B36-11,

Work Order #2212061

Enclosed are the results of analyses for samples received by Summit Scientific on 12/02/22 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 "Scott Sheely".

Scott Sheely For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-11,

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B36-25 FL01@4'	2212061-01	Soil	11/28/22 00:00	12/02/22 16:00
B36-12 FL01@4'	2212061-02	Soil	11/28/22 00:00	12/02/22 16:00
B36-11 FL01@4'	2212061-03	Soil	11/28/22 00:00	12/02/22 16:00
B36-11 FL02@6'	2212061-04	Soil	11/30/22 00:00	12/02/22 16:00
SEP FL@5'	2212061-05	Soil	11/30/22 00:00	12/02/22 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

2212061

4653 Table Mountain Drive ♦ Golden, Colorado 80403

303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address:

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

City/State/Zip: Choir Lattis

Bill to Noble:

Phone:

Project Name: Clyncke State B36-25

Sampler Name:

Project Number: Baker State B36-11, B36-12

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	TPH, BTEX, TMS, Naph.	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate	HOLD			
1	B36-25 FL01@4'	11/23/22		2			X			X				X	X	X					
2	B36-12 FL01@4'	↓		2			↓			↓				↓	↓	↓					
3	B36-11 FL01@4'	11/23/22		2			↓			↓				↓	↓	↓					
4	B36-11 FL02@6'	11/30/22		2			↓			↓				↓	↓	↓					
5	SEP FL @ 5'	11/30/22		2			X			X				X	X	X					
6																					
7																					
8																					
9																					
10																					

Relinquished by:	Date/Time:	Received by:	Date/Time:	Turn Around Time	(Check)	Notes: Flowline's
Chris Lattis	12/2/22 13:00	SG	12/2/22 13:00	Same Day	72 hours	
				24 hours	Standard	
				48 hours		
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity:		
SE	12/2/22 1600	[Signature]	12/2/22 1600	Temperature Upon Receipt: 7.4		
Relinquished by:	Date/Time:	Received by:	Date/Time:	Samples Intact: Yes No		

S₂

Sample Receipt Checklist

S2 Work Order# 2212061Client: Fremont Client Project ID: Clyncke State B3U-25Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐ Airbill #: ☐
☐ ☐ ☐ ☐ ☐
Matrix (Check all that apply) Air ☐ Soil/Solid ☒ Water ☐ Other ☐Temp (°C) 7.4Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input 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.				

Custodian Printed Name

Date/Time

12.2.22



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-11,
Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

B36-25 FL01@4'
2212061-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0179	12/07/22	12/08/22	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: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0372	93.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0438	110 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0440	110 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0181	12/07/22	12/08/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.2	81.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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 - Clyncke State B36-25, Baker State B36-11,
Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

B36-25 FL01@4'
2212061-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0096	12/05/22	12/06/22	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: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0224	67.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0190	56.9 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0807	0.0100	mg/L	1	BFL0144	12/06/22	12/07/22	EPA 6020B	

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

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-11,
Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

B36-25 FL01@4'
2212061-01 (Soil)

Summit Scientific

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

Calcium	43.6	0.0542	mg/L dry	1	BFL0119	12/05/22	12/07/22	EPA 6020B
Magnesium	21.5	0.0542	"	"	"	"	"	"
Sodium	56.6	0.0542	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.75	0.00100	units	1	BFL0185	12/07/22	12/07/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.2		%	1	BFL0124	12/05/22	12/06/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.707	0.0100	mmhos/cm	1	BFL0147	12/06/22	12/06/22	EPA 120.1	

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

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BFL0145	12/06/22	12/06/22	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-11,
Project Number: [none]
Project Manager: Paul Henehan

Reported:
12/12/22 13:59

B36-12 FL01@4'
2212061-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFL0179	12/07/22	12/08/22	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: **11/28/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0380	95.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0448	112 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0442	111 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0181	12/07/22	12/08/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	12.2	97.9 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-11,
Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

B36-12 FL01@4'
2212061-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0096	12/05/22	12/06/22	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: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0256	76.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0181	54.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.104	0.0100	mg/L	1	BFL0144	12/06/22	12/07/22	EPA 6020B	

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

Date Sampled: **11/28/22 00:00**

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

Project: Noble - Clyncke State B36-25, Baker State B36-11,

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

B36-12 FL01@4'
2212061-02 (Soil)

Summit Scientific

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

Calcium	196	0.0552	mg/L dry	1	BFL0119	12/05/22	12/07/22	EPA 6020B
Magnesium	90.7	0.0552	"	"	"	"	"	"
Sodium	90.9	0.0552	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.35	0.00100	units	1	BFL0185	12/07/22	12/07/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.5		%	1	BFL0124	12/05/22	12/06/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.17	0.0100	mmhos/cm	1	BFL0147	12/06/22	12/06/22	EPA 120.1	

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

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.89		pH Units	1	BFL0145	12/06/22	12/06/22	EPA 9045D	

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PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-11,
Project Number: [none]
Project Manager: Paul Henehan

Reported:
12/12/22 13:59

B36-11 FL01@4'
2212061-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFL0179	12/07/22	12/08/22	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: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0373	93.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0451	113 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0448	112 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0181	12/07/22	12/08/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	10.2	81.3 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-11,

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

B36-11 FL01@4'
2212061-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0096	12/05/22	12/06/22	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: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0238	71.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0181	54.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0516	0.0100	mg/L	1	BFL0144	12/06/22	12/07/22	EPA 6020B	

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

Date Sampled: **11/28/22 00:00**

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

Project: Noble - Clyncke State B36-25, Baker State B36-11,
Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

B36-11 FL01@4'
2212061-03 (Soil)

Summit Scientific

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

Calcium	110	0.0542	mg/L dry	1	BFL0119	12/05/22	12/07/22	EPA 6020B
Magnesium	104	0.0542	"	"	"	"	"	"
Sodium	25.5	0.0542	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.420	0.00100	units	1	BFL0185	12/07/22	12/07/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.2		%	1	BFL0124	12/05/22	12/06/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.49	0.0100	mmhos/cm	1	BFL0147	12/06/22	12/06/22	EPA 120.1	

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

Date Sampled: **11/28/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.01		pH Units	1	BFL0145	12/06/22	12/06/22	EPA 9045D	

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Project: Noble - Clyncke State B36-25, Baker State B36-11,
Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

B36-11 FL02@6'
2212061-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFL0179	12/07/22	12/08/22	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: **11/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0376	94.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0446	112 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0447	112 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0181	12/07/22	12/08/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	13.0	104 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-11,

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

B36-11 FL02@6'
2212061-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0096	12/05/22	12/06/22	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: **11/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0251	75.3 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0184	55.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.101	0.0100	mg/L	1	BFL0144	12/06/22	12/07/22	EPA 6020B	

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

Date Sampled: **11/30/22 00:00**

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 - Clyncke State B36-25, Baker State B36-11,
Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

B36-11 FL02@6'
2212061-04 (Soil)

Summit Scientific

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

Calcium	60.4	0.0554	mg/L dry	1	BFL0119	12/05/22	12/07/22	EPA 6020B
Magnesium	26.4	0.0554	"	"	"	"	"	"
Sodium	132	0.0554	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **11/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.57	0.00100	units	1	BFL0185	12/07/22	12/07/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	90.3		%	1	BFL0124	12/05/22	12/06/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.12	0.0100	mmhos/cm	1	BFL0147	12/06/22	12/06/22	EPA 120.1	

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

Date Sampled: **11/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.94		pH Units	1	BFL0145	12/06/22	12/06/22	EPA 9045D	

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Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-11,

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

SEP FL@5'
2212061-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BFL0179	12/07/22	12/08/22	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: **11/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0369	92.3 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0448	112 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0439	110 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BFL0181	12/07/22	12/08/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/30/22 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	13.3	106 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Project: Noble - Clyncke State B36-25, Baker State B36-11,

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

SEP FL@5'
2212061-05 (Soil)

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PAH by EPA Method 8270D SIM

Date Sampled: **11/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFL0096	12/05/22	12/06/22	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: **11/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0260	78.1 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0198	59.3 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0322	0.0100	mg/L	1	BFL0144	12/06/22	12/07/22	EPA 6020B	

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

Date Sampled: **11/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: Noble - Clyncke State B36-25, Baker State B36-11,
Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

SEP FL@5'
2212061-05 (Soil)

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

Calcium	21.2	0.0536	mg/L dry	1	BFL0119	12/05/22	12/07/22	EPA 6020B
Magnesium	7.57	0.0536	"	"	"	"	"	"
Sodium	8.59	0.0536	"	"	"	"	"	"

Calculated Analysis

Date Sampled: **11/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.408	0.00100	units	1	BFL0185	12/07/22	12/07/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	93.3		%	1	BFL0124	12/05/22	12/06/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.213	0.0100	mmhos/cm	1	BFL0147	12/06/22	12/06/22	EPA 120.1	

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

Date Sampled: **11/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.23		pH Units	1	BFL0145	12/06/22	12/06/22	EPA 9045D	

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Project: Noble - Clyncke State B36-25, Baker State B36-11,

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

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 BFL0179 - EPA 5030 Soil MS

Blank (BFL0179-BLK1)

Prepared & Analyzed: 12/07/22

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	0.0364		"	0.0400		91.0	50-150			
Surrogate: Toluene-d8	0.0436		"	0.0400		109	50-150			
Surrogate: 4-Bromofluorobenzene	0.0448		"	0.0400		112	50-150			

LCS (BFL0179-BS1)

Prepared & Analyzed: 12/07/22

Benzene	0.122	0.0020	mg/kg	0.125		97.2	70-130			
Toluene	0.147	0.0050	"	0.125		118	70-130			
Ethylbenzene	0.150	0.0050	"	0.125		120	70-130			
m,p-Xylene	0.299	0.010	"	0.250		120	70-130			
o-Xylene	0.138	0.0050	"	0.125		111	70-130			
1,2,4-Trimethylbenzene	0.148	0.0050	"	0.125		119	70-130			
1,3,5-Trimethylbenzene	0.152	0.0050	"	0.125		122	70-130			
Naphthalene	0.110	0.0038	"	0.125		87.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0360		"	0.0400		90.0	50-150			
Surrogate: Toluene-d8	0.0451		"	0.0400		113	50-150			
Surrogate: 4-Bromofluorobenzene	0.0422		"	0.0400		106	50-150			

Matrix Spike (BFL0179-MS1)

Source: 2212054-02

Prepared & Analyzed: 12/07/22

Benzene	0.144	0.0020	mg/kg	0.125	ND	116	70-130			
Toluene	0.141	0.0050	"	0.125	ND	113	70-130			
Ethylbenzene	0.142	0.0050	"	0.125	ND	114	70-130			
m,p-Xylene	0.283	0.010	"	0.250	ND	113	70-130			
o-Xylene	0.132	0.0050	"	0.125	ND	106	70-130			
1,2,4-Trimethylbenzene	0.139	0.0050	"	0.125	ND	111	70-130			
1,3,5-Trimethylbenzene	0.143	0.0050	"	0.125	ND	114	70-130			
Naphthalene	0.115	0.0038	"	0.125	ND	91.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0387		"	0.0400		96.8	50-150			
Surrogate: Toluene-d8	0.0458		"	0.0400		114	50-150			
Surrogate: 4-Bromofluorobenzene	0.0415		"	0.0400		104	50-150			

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Project: Noble - Clyncke State B36-25, Baker State B36-11,

Project Number: [none]
Project Manager: Paul Henchan

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12/12/22 13:59

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 BFL0179 - EPA 5030 Soil MS

Matrix Spike Dup (BFL0179-MSD1)

Source: 2212054-02

Prepared & Analyzed: 12/07/22

Benzene	0.147	0.0020	mg/kg	0.125	ND	118	70-130	1.93	30	
Toluene	0.145	0.0050	"	0.125	ND	116	70-130	2.44	30	
Ethylbenzene	0.146	0.0050	"	0.125	ND	117	70-130	3.08	30	
m,p-Xylene	0.290	0.010	"	0.250	ND	116	70-130	2.46	30	
o-Xylene	0.135	0.0050	"	0.125	ND	108	70-130	2.16	30	
1,2,4-Trimethylbenzene	0.145	0.0050	"	0.125	ND	116	70-130	3.76	30	
1,3,5-Trimethylbenzene	0.146	0.0050	"	0.125	ND	117	70-130	1.93	30	
Naphthalene	0.118	0.0038	"	0.125	ND	94.4	70-130	2.86	30	
Surrogate: 1,2-Dichloroethane-d4	0.0362		"	0.0400		90.4	50-150			
Surrogate: Toluene-d8	0.0455		"	0.0400		114	50-150			
Surrogate: 4-Bromofluorobenzene	0.0416		"	0.0400		104	50-150			

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Project: Noble - Clyncke State B36-25, Baker State B36-11,
Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BFL0181 - EPA 3550A

Blank (BFL0181-BLK1)

Prepared & Analyzed: 12/07/22

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

Surrogate: o-Terphenyl	14.0	"	12.5	112	30-150
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LCS (BFL0181-BS1)

Prepared & Analyzed: 12/07/22

C10-C28 (DRO)	390	50	mg/kg	500	78.1	70-130
Surrogate: o-Terphenyl	13.5	"	12.5	108	30-150	

Matrix Spike (BFL0181-MS1)

Source: 2212054-02

Prepared & Analyzed: 12/07/22

C10-C28 (DRO)	382	50	mg/kg	500	8.37	74.8	70-130
Surrogate: o-Terphenyl	12.3	"	12.5	98.4	30-150		

Matrix Spike Dup (BFL0181-MSD1)

Source: 2212054-02

Prepared & Analyzed: 12/07/22

C10-C28 (DRO)	406	50	mg/kg	500	8.37	79.5	70-130	5.96	20
Surrogate: o-Terphenyl	11.2	"	12.5	90.0	30-150				

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Project: Noble - Clyncke State B36-25, Baker State B36-11,
Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BFL0096 - EPA 5030 Soil MS

Blank (BFL0096-BLK1)

Prepared & Analyzed: 12/05/22

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	"								
Surrogate: 2-Methylnaphthalene-d10	0.0358		"	0.0333		107		40-150			
Surrogate: Fluoranthene-d10	0.0277		"	0.0333		83.1		40-150			

LCS (BFL0096-BS1)

Prepared & Analyzed: 12/05/22

Acenaphthene	0.0365	0.00500	mg/kg	0.0333		110		31-137			
Anthracene	0.0331	0.00500	"	0.0333		99.4		30-120			
Benzo (a) anthracene	0.0286	0.00500	"	0.0333		85.8		30-120			
Benzo (a) pyrene	0.0294	0.00500	"	0.0333		88.2		30-120			
Benzo (b) fluoranthene	0.0314	0.00500	"	0.0333		94.2		30-120			
Benzo (k) fluoranthene	0.0380	0.00500	"	0.0333		114		30-120			
Chrysene	0.0319	0.00500	"	0.0333		95.7		30-120			
Dibenz (a,h) anthracene	0.0297	0.00500	"	0.0333		89.0		30-120			
Fluoranthene	0.0347	0.00500	"	0.0333		104		30-120			
Fluorene	0.0336	0.00500	"	0.0333		101		30-120			
Indeno (1,2,3-cd) pyrene	0.0267	0.00500	"	0.0333		80.1		30-120			
Pyrene	0.0326	0.00500	"	0.0333		97.7		35-142			
1-Methylnaphthalene	0.0311	0.00500	"	0.0333		93.2		35-142			
2-Methylnaphthalene	0.0320	0.00500	"	0.0333		96.2		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0331		"	0.0333		99.2		40-150			
Surrogate: Fluoranthene-d10	0.0349		"	0.0333		105		40-150			

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Project: Noble - Clyncke State B36-25, Baker State B36-11,

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

PAH by EPA Method 8270D SIM - Quality Control

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

Batch BFL0096 - EPA 5030 Soil MS

Matrix Spike (BFL0096-MS1)

Source: 2212039-01

Prepared & Analyzed: 12/05/22

Acenaphthene	0.0183	0.00500	mg/kg	0.0333	ND	54.9	31-137				
Anthracene	0.0157	0.00500	"	0.0333	ND	47.2	30-120				
Benzo (a) anthracene	0.0159	0.00500	"	0.0333	ND	47.7	30-120				
Benzo (a) pyrene	0.0136	0.00500	"	0.0333	ND	40.8	30-120				
Benzo (b) fluoranthene	0.0139	0.00500	"	0.0333	ND	41.6	30-120				
Benzo (k) fluoranthene	0.0187	0.00500	"	0.0333	ND	56.2	30-120				
Chrysene	0.0172	0.00500	"	0.0333	ND	51.7	30-120				
Dibenz (a,h) anthracene	0.0166	0.00500	"	0.0333	ND	49.9	30-120				
Fluoranthene	0.0174	0.00500	"	0.0333	ND	52.3	30-120				
Fluorene	0.0147	0.00500	"	0.0333	ND	44.1	30-120				
Indeno (1,2,3-cd) pyrene	0.0158	0.00500	"	0.0333	ND	47.5	30-120				
Pyrene	0.0193	0.00500	"	0.0333	ND	57.9	35-142				
1-Methylnaphthalene	0.0169	0.00500	"	0.0333	ND	50.7	15-130				
2-Methylnaphthalene	0.0178	0.00500	"	0.0333	ND	53.5	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0175		"	0.0333		52.4	40-150				
Surrogate: Fluoranthene-d10	0.0159		"	0.0333		47.7	40-150				

Matrix Spike Dup (BFL0096-MSD1)

Source: 2212039-01

Prepared & Analyzed: 12/05/22

Acenaphthene	0.0231	0.00500	mg/kg	0.0333	ND	69.4	31-137	23.4	30		
Anthracene	0.0139	0.00500	"	0.0333	ND	41.6	30-120	12.8	30		
Benzo (a) anthracene	0.0151	0.00500	"	0.0333	ND	45.3	30-120	5.17	30		
Benzo (a) pyrene	0.0150	0.00500	"	0.0333	ND	45.0	30-120	9.77	30		
Benzo (b) fluoranthene	0.0152	0.00500	"	0.0333	ND	45.5	30-120	8.94	30		
Benzo (k) fluoranthene	0.0192	0.00500	"	0.0333	ND	57.7	30-120	2.61	30		
Chrysene	0.0157	0.00500	"	0.0333	ND	47.1	30-120	9.47	30		
Dibenz (a,h) anthracene	0.0180	0.00500	"	0.0333	ND	53.9	30-120	7.83	30		
Fluoranthene	0.0144	0.00500	"	0.0333	ND	43.1	30-120	19.2	30		
Fluorene	0.0208	0.00500	"	0.0333	ND	62.5	30-120	34.5	30		
Indeno (1,2,3-cd) pyrene	0.0173	0.00500	"	0.0333	ND	51.8	30-120	8.73	30		
Pyrene	0.0174	0.00500	"	0.0333	ND	52.1	35-142	10.5	30		
1-Methylnaphthalene	0.0158	0.00500	"	0.0333	ND	47.4	15-130	6.60	50		
2-Methylnaphthalene	0.0174	0.00500	"	0.0333	ND	52.3	15-130	2.21	50		
Surrogate: 2-Methylnaphthalene-d10	0.0160		"	0.0333		48.1	40-150				
Surrogate: Fluoranthene-d10	0.0135		"	0.0333		40.5	40-150				

QR-02

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Project: Noble - Clyncke State B36-25, Baker State B36-11,

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

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

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

Batch BFL0144 - EPA 3050B

Blank (BFL0144-BLK1)

Prepared: 12/06/22 Analyzed: 12/07/22

Boron ND 0.0100 mg/L

LCS (BFL0144-BS1)

Prepared: 12/06/22 Analyzed: 12/07/22

Boron 4.05 0.0100 mg/L 5.00 81.0 80-120

Duplicate (BFL0144-DUP1)

Source: 2212060-01

Prepared: 12/06/22 Analyzed: 12/07/22

Boron 0.140 0.0100 mg/L 0.0849 49.0 20 QR-04

Matrix Spike (BFL0144-MS1)

Source: 2212060-01

Prepared: 12/06/22 Analyzed: 12/07/22

Boron 4.34 0.0100 mg/L 5.00 0.0849 85.2 75-125

Matrix Spike Dup (BFL0144-MSD1)

Source: 2212060-01

Prepared: 12/06/22 Analyzed: 12/07/22

Boron 5.49 0.0100 mg/L 5.00 0.0849 108 75-125 23.4 25

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-11,

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

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

Summit Scientific

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

Batch BFL0119 - General Preparation

Blank (BFL0119-BLK1)

Prepared: 12/05/22 Analyzed: 12/07/22

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

LCS (BFL0119-BS1)

Prepared: 12/05/22 Analyzed: 12/07/22

Calcium	3.95	0.0500	mg/L wet	5.00	79.0	70-130
Magnesium	4.10	0.0500	"	5.00	82.0	70-130
Sodium	3.91	0.0500	"	5.00	78.2	70-130

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-11,

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

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

Summit Scientific

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

Batch BFL0124 - General Preparation

Duplicate (BFL0124-DUP1)

Source: 2212055-01

Prepared: 12/05/22 Analyzed: 12/06/22

% Solids	91.5	%	89.8	1.90	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-11,

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

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

Summit Scientific

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

Batch BFL0147 - General Preparation

Blank (BFL0147-BLK1)

Prepared & Analyzed: 12/06/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFL0147-BS1)

Prepared & Analyzed: 12/06/22

Specific Conductance (EC) 0.144 0.0100 mmhos/cm 0.150 96.0 95-105

Duplicate (BFL0147-DUP1)

Source: 2212056-01

Prepared & Analyzed: 12/06/22

Specific Conductance (EC) 0.359 0.0100 mmhos/cm 0.358 0.446 20

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-11,

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

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

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

Batch BFL0145 - General Preparation

LCS (BFL0145-BS1)

Prepared & Analyzed: 12/06/22

pH	9.17	pH Units	9.18	99.9	95-105
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Duplicate (BFL0145-DUP1)

Source: 2212055-01

Prepared & Analyzed: 12/06/22

pH	6.38	pH Units	6.16	3.51	20
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Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Clyncke State B36-25, Baker State B36-11,

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/12/22 13:59

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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.
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