

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,

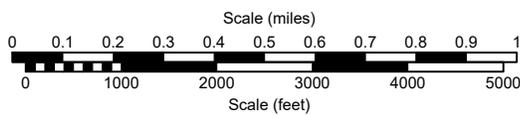
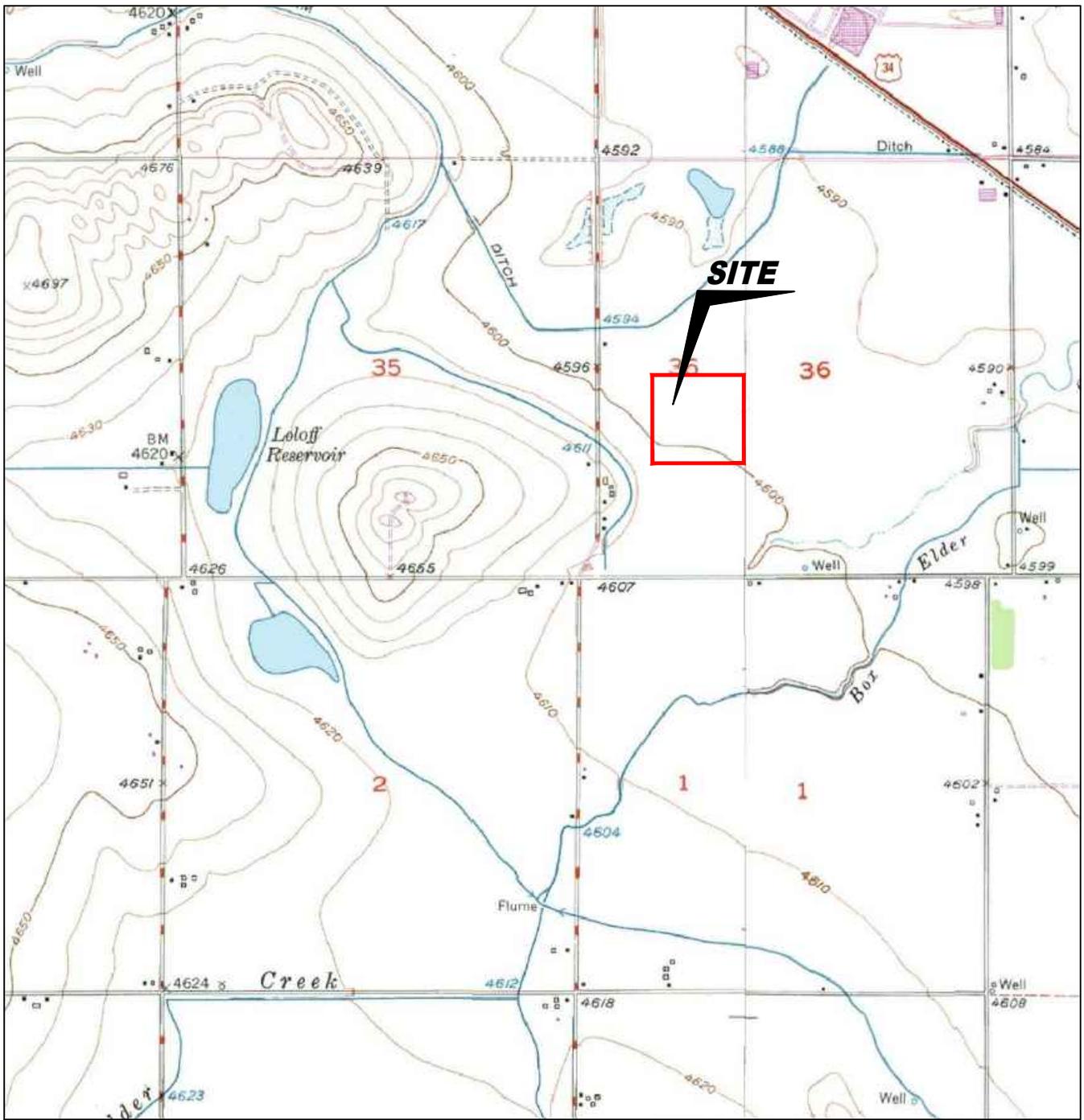
FREMONT ENVIRONMENTAL INC.



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

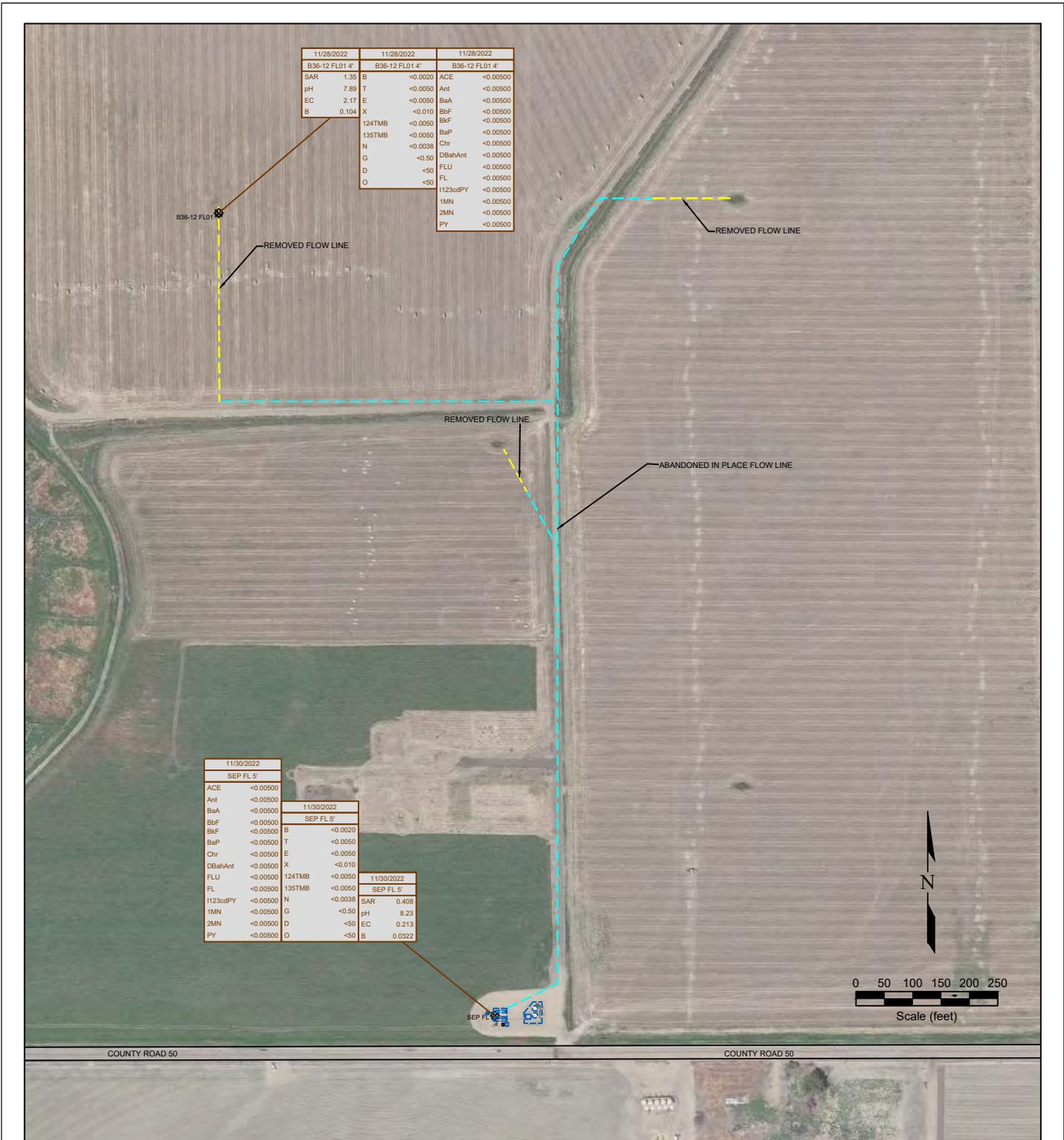
NWSW Sec. 36, T5N, R64W, 6th PM

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
- FORMER FACILITY
- ABANDONED IN PLACE FLOW LINE
- FENCE LINE
- CONTAINMENT BERM
- REMOVED FLOW LINE

03/24/2021	DATE SAMPLED		
N Wall @ 3'	SAMPLE ID and DEPTH (ft)		
ACE	<0.005		
Ant	<0.005		
BaA	<0.005		
BbF	<0.005		
BkF	<0.005		
BaP	<0.005		
Chr	<0.005		
DBahAnt	<0.005		
FLU	<0.005		
FL	<0.005		
I123cdPY	<0.005		
1-MN	<0.005		
2-MN	<0.005		
PY	<0.005		

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 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

<i>Additional Attachments:</i>		Tank Battery Closure	Wellhead Closure	Pit Closure	Partially Buried Vault Closure
<i>Site Name & COGCC Facility Number:</i> BAKER STATE B 36-12		<i>Date:</i> 11/28/2023 & 11/30/2023			<i>Remediation Project #:</i> 20770
<i>Associated Wells:</i> 05-123-17430		<i>Age of Site:</i> Unknown			<i>Number of Photos Attached:</i> See attached
<i>Starting point: (GPS coordinates and descriptions)</i> 40.354080, -104.504878					
<i>End point: (GPS coordinates and descriptions)</i> 40.348913, -104.502543					
<i>USCS Soil Type:</i> Silty Sand (SM/ML)			<i>Estimated Depth to Groundwater:</i>		
<i>Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)</i> No observed impacted soil or spills.					
<i>Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)</i> No observed salt crusted soil or impacted vegetation.					
Flowlines					
<i>Flowline type</i>	Wellhead Line				
<i>Depth</i>	4-5 feet				
<i>Age</i>	Unknown				
<i>Length</i>	2,773 feet				
<i>Construction Material</i>	Steel				
<i>Were flowlines pulled?</i>	Partial				
<i>Visual Integrity of lines</i>	Good condition				
<i>Visual impacts if trenched</i>	None Observed				
<i>PID Readings if trenched</i>	0 ppm				
<i>Sample taken? Location/Sample ID#</i>	See attached figure				
<i>Photo Number(s)</i>	See attached				
<i>Other observations regarding on location flowlines:</i> 2,325 feet of flowline abandoned in place.					
Summary					
<i>Was impacted soil identified?</i> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards					
<i>Total number of samples field screened:</i> 4			<i>Total number of samples collected:</i> 4		
<i>Highest PID Reading:</i> 0.7 ppm			<i>Total number of samples submitted to lab for analysis:</i> 2		
<i>If more than 10 cubic yards of impacted soil were observed:</i> N/A					
<i>Vertical extent:</i>			<i>Estimated spill volume:</i>		
<i>Lateral extent:</i>			<i>Volume of soil removed:</i>		
<i>Is additional investigation required?</i>					
<i>Was groundwater encountered during the investigation?</i> <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					
<i>Measured depth to groundwater:</i>			<i>Was remedial groundwater removal conducted?</i> Yes <input type="checkbox"/> No <input type="checkbox"/>		
<i>Date Groundwater was encountered:</i>			<i>Commencement date of removal:</i>		
<i>Sheen on groundwater?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No			<i>Volume of groundwater removed prior to sampling:</i>		
<i>Free product observed?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No			<i>Volume of groundwater removed post sampling:</i>		
<i>Total number of samples collected:</i>			<i>Total Volume of groundwater removed:</i>		
<i>Total number of samples submitted to lab for analysis:</i>					

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,



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

2212061

S₂

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 Lattes

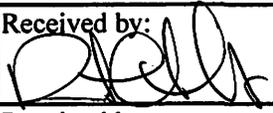
Bill to Noble:

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	HNO3	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: <u>Flowline's</u>								
<u>Chris Lattes</u>		<u>12/2/22 13:00</u>		<u>Sg</u>		<u>12/2/22 13:00</u>		Same Day		72 hours										
<u>SE</u>		<u>12/2/22 1600</u>				<u>12/2/22 1600</u>		24 hours		Standard <input checked="" type="checkbox"/>										
Relinquished by:		Date/Time:		Received by:		Date/Time:		48 hours		Sample Integrity:		Temperature Upon Receipt: <u>7.4</u>								
Relinquished by:		Date/Time:		Received by:		Date/Time:		Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												

S₂

Sample Receipt Checklist

S2 Work Order# 2212061

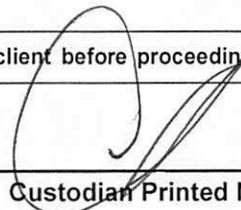
Client: Fremont Client Project ID: Clyncke State B300-25

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"/>	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

12.2.22
Date/Time



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		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	0.0372	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		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	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
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	

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

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

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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

B36-12 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
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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

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

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	

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

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

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

Analyte	Result	Reporting		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	0.0373	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		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	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

B36-11 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
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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

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

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	

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

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

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

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

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

B36-11 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
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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

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

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	

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

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 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: **11/30/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 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: **11/30/22 00:00**

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

SEP FL@5'
2212061-05 (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	0.0260	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
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

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

SEP FL@5'
2212061-05 (Soil)

Summit Scientific

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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	

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

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 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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0364</i>		<i>"</i>	<i>0.0400</i>		<i>91.0</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0436</i>		<i>"</i>	<i>0.0400</i>		<i>109</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0448</i>		<i>"</i>	<i>0.0400</i>		<i>112</i>	<i>50-150</i>				

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				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0360</i>		<i>"</i>	<i>0.0400</i>		<i>90.0</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0451</i>		<i>"</i>	<i>0.0400</i>		<i>113</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0422</i>		<i>"</i>	<i>0.0400</i>		<i>106</i>	<i>50-150</i>				

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				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0387</i>		<i>"</i>	<i>0.0400</i>		<i>96.8</i>	<i>50-150</i>				
<i>Surrogate: Toluene-d8</i>	<i>0.0458</i>		<i>"</i>	<i>0.0400</i>		<i>114</i>	<i>50-150</i>				
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0415</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>				

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

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 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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0362</i>		<i>"</i>	<i>0.0400</i>		<i>90.4</i>	<i>50-150</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0455</i>		<i>"</i>	<i>0.0400</i>		<i>114</i>	<i>50-150</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0416</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>50-150</i>			

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

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 BFL0181 - EPA 3550A

Blank (BFL0181-BLK1)

Prepared & Analyzed: 12/07/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	14.0		"	12.5	112	30-150					

LCS (BFL0181-BS1)

Prepared & Analyzed: 12/07/22

C10-C28 (DRO)	390	50	mg/kg	500	78.1	70-130					
Surrogate: <i>o</i> -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: <i>o</i> -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: <i>o</i> -Terphenyl	11.2		"	12.5	90.0	30-150					

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

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 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			

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

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 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				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0175</i>		<i>"</i>	<i>0.0333</i>		<i>52.4</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0159</i>		<i>"</i>	<i>0.0333</i>		<i>47.7</i>	<i>40-150</i>				

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		QR-02
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		
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0160</i>		<i>"</i>	<i>0.0333</i>		<i>48.1</i>	<i>40-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0135</i>		<i>"</i>	<i>0.0333</i>		<i>40.5</i>	<i>40-150</i>				

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

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 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

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

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 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

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

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 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	
----------	------	--	---	--	------	--	--	------	----	--

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

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 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

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

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 BFL0145 - General Preparation

LCS (BFL0145-BS1)

Prepared & Analyzed: 12/06/22

pH 9.17 pH Units 9.18 99.9 95-105

Duplicate (BFL0145-DUP1)

Source: 2212055-01

Prepared & Analyzed: 12/06/22

pH 6.38 pH Units 6.16 3.51 20

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

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