

FREMONT ENVIRONMENTAL INC.

April 10, 2023

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

Subject: **Facility Closure Data Submittal**
Baker ST B 36-11,12,13,14, Clyncke State B 36-25,20 Facility
Facility ID: 447562
SESW Sec. 36, T5N, R64W
Weld County, Colorado
Fremont Project No. C022-187
Remediation # 20768

Dear Mr. Peterson:

As requested, Fremont Environmental Inc. (Fremont) personnel conducted facility abandonment activities at the Noble Energy Inc. (Noble) Baker ST B 36-11,12,13,14, Clyncke State B 36-25,20 facility. Details of the facility abandonment activities are documented in the attached Closure Report. Soil samples collected from the South wall of the PWV excavation (PWVS01@5'), the base of the PWV excavation (PWVB01@6.5'), and the dump line end of the South separator (DL01@7') were reported with elevated concentrations of organic compounds. Additionally, the soil sample collected beneath the North AST (AST02@6"), PWVS01@5', and PWVB01@6.5' were reported with slightly elevated pH values. 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.

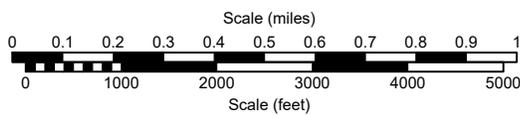
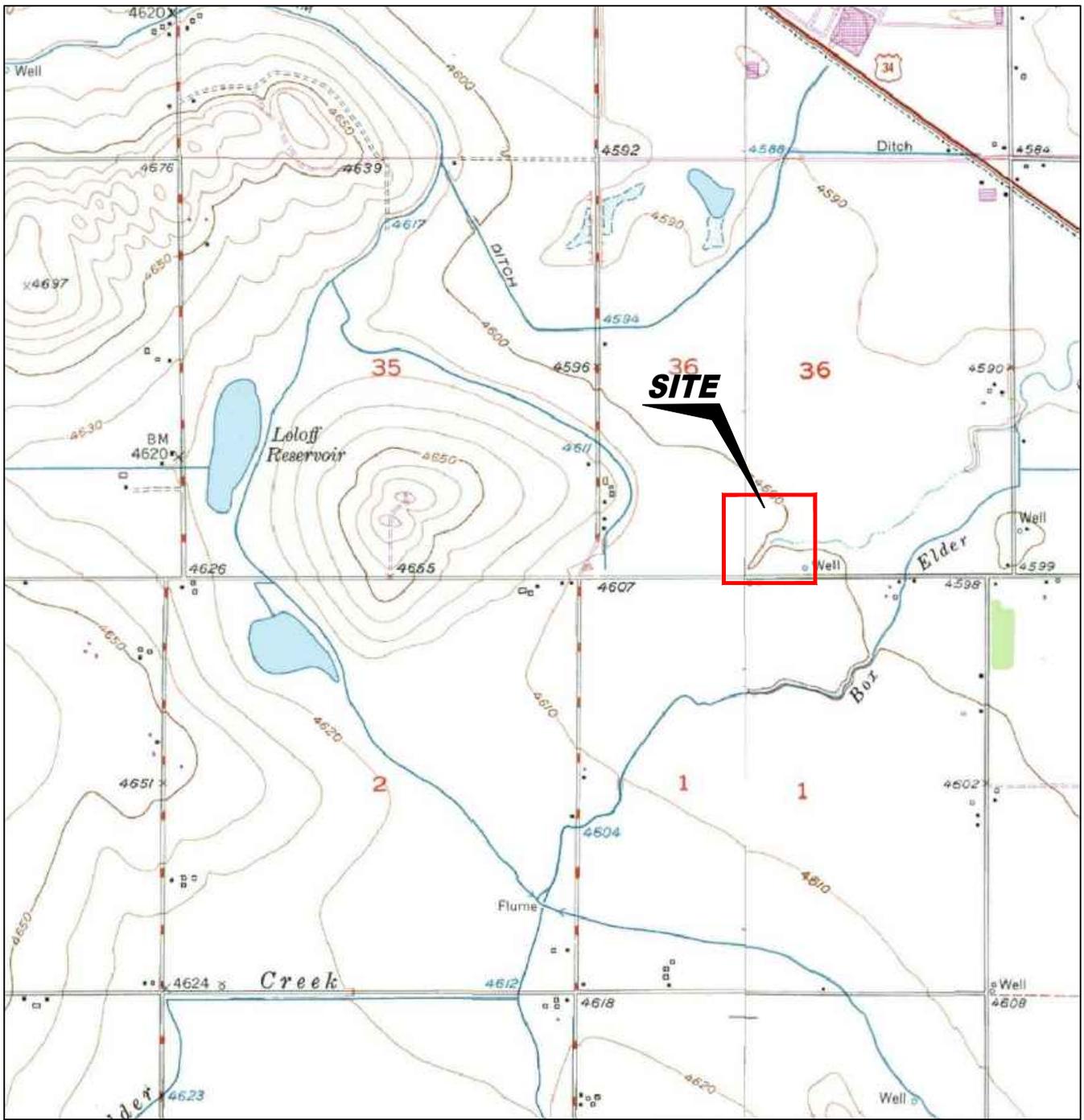


Chris Lattes
Consultant

Attachments:

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

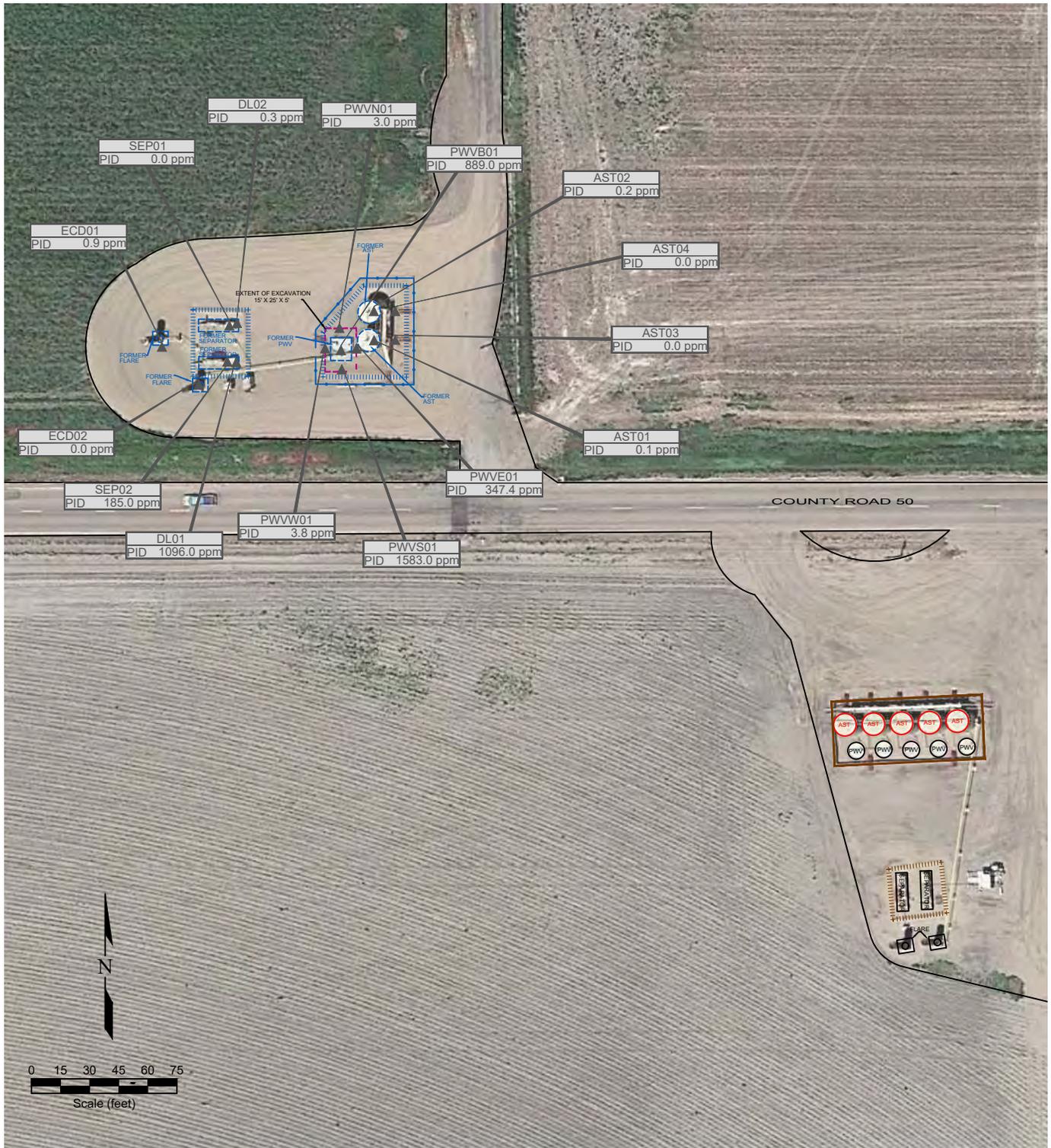
1759 REDWING LANE, BROOMFIELD, CO 80020
(303) 956-8714 (DIRECT)



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP
NOBLE ENERGY, INC
Baker ST B 36-11,12,13,14 Clyncke State B 36-25, 20
 SESW Sec. 36, T5N, R64W, 6th PM
 Weld County, Colorado
 40.348864°, -104.502153°

Project # C022-187	API #	Facility # 447562	
Date 3/16/2023	Remediation # 20768	Filename 22187T	



COUNTY ROAD 50

LEGEND

- ▲ PID READING LOCATION
- ▲ (AST) ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- BUILDING
- FLOWLINE
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL
- EXTENT OF EXCAVATION

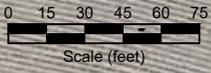
Figure 2
SITE MAP
NOBLE ENERGY, INC
Baker ST B 36-11,12,13,14 Clyncke State B 36-25, 20
 SESW Sec. 36, T5N, R64W, 6th PM
 Weld County, Colorado
 40.348864°, -104.502153°

Project No. C022-187	API #	Facility # 447562
Date 3/16/2023	Remediation # 20768	Filename 22187Q





COUNTY ROAD 50



LEGEND

- SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- BUILDING
- FLOWLINE
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL
- EXTENT OF EXCAVATION

11/23/2022	DATE SAMPLED	11/23/2022	DATE SAMPLED
PWVW01 5'	SAMPLE ID and DEPTH (ft)	PWVW01 6.5'	SAMPLE ID and DEPTH (ft)
ACE	<0.0050	ACE	<0.0050
Ant	<0.0050	Ant	<0.0050
BaA	<0.0050	BaA	<0.0050
BaP	<0.0050	BaP	<0.0050
BbF	<0.0050	BbF	<0.0050
Chr	0.0178	Chr	0.0178
DBahAnt	<0.0050	DBahAnt	<0.0050
FLU	<0.0050	FLU	<0.0050
FL	0.0906	FL	0.0906
1123cdPY	<0.0050	1123cdPY	<0.0050
1MN	0.733	1MN	0.733
2MN	2.609	2MN	2.609
PY	<0.0050	PY	<0.0050

Figure 3
SOIL CHEMISTRY MAP
NOBLE ENERGY, INC
Baker ST B 36-11,12,13,14 Clyncke State B 36-25, 20
 SESW Sec. 36, T5N, R64W, 6th PM
 Weld County, Colorado
 40.348864°, -104.502153°

Project No. C022-187	API #	Facility # 447562	
Date 3/24/2023	Remediation # 20768	Filename 22187Q	

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		
AST01@6"	11/23/2022	6"	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
AST02@6"	11/23/2022	6"	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
DL01@7'	11/23/2022	7'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	140	<50
DL02@4.5'	11/23/2022	4.5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWVB01@6.5'	11/23/2022	6.5'	0.19	0.056	0.18	19	12	6.1	0.03	54	160	<50
PWVE01@5'	11/23/2022	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWVN01@5'	11/23/2022	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<0.50	<50	<50
PWVS01@5'	11/23/2022	5'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	0.023	<50	570	79
PWVW01@5'	11/23/2022	5'	<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. CO22-187

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
AST01@6"	11/23/2022	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
AST02@6"	11/23/2022	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
DL01@7'	11/23/2022	7'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0325	<0.00500	<0.00500	0.0469	<0.00500	<0.00500	0.289	0.767
DL02@4.5'	11/23/2022	4.5'	<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
PWVB01@6.5'	11/23/2022	6.5'	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0178	<0.00500	<0.00500	0.0906	<0.00500	<0.00500	0.733	2.6
PWVE01@5'	11/23/2022	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
PWVN01@5'	11/23/2022	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
PWVS01@5'	11/23/2022	5'	<0.125	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00685	<0.00500	<0.00500	0.0501	<0.00500	<0.00500	0.443	1.33
PWVW01@5'	11/23/2022	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

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
AST01@6"	11/23/2022	6"	8.12	0.247	0.496	0.115
AST02@6"	11/23/2022	6"	8.33	0.403	3.16	0.202
DL01@7'	11/23/2022	7'	7.50	0.572	0.585	<0.0100
DL02@4.5'	11/23/2022	4.5'	7.99	0.346	0.650	0.0659
PWVB01@6.5'	11/23/2022	6.5'	8.34	0.396	2.53	0.259
PWVE01@5'	11/23/2022	5'	7.91	0.234	0.283	0.0267
PWVN01@5'	11/23/2022	5'	8.07	0.335	0.882	0.0225
PWVS01@5'	11/23/2022	5'	8.38	0.333	0.505	<0.0100
PWVW01@5'	11/23/2022	5'	7.95	0.262	0.437	0.0458
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)

Tank Battery Closure Checklist

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

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure	X	Partially Buried Vault Closure
Site Name & COGCC Facility Number: BAKER, CLYNCKE Facility, 447562		Date: 11/23/2022		Remediation Project #: 20768				
Associated Wells: BAKER ST B 36-11,12,13,14, CLYNCKE STATE B 36-25,20		Age of Site: Unknown				Number of Photos Attached: See attached		
Location: (GPS coordinates of southeaster berm) 40.348856, -104.502130							Estimated Facility Size (acres):	

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)
Good condition, no observed issues.

USCS Soil Type: Clay with sand and silt (CL)	Estimated Depth to Groundwater: 9 to 12 feet bgs
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Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
Grey soil observed at PWV excavation and South separator dumpline.

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.

Tanks

Tank Contents	Crude	Crude						
Size (barrels)	300 BBL	300 BBL						
Age	Unknown	Unknown						
Construction Material	Steel	Steel						
Tank type (AST/DRV, etc.)	AST	AST						
Visual Integrity of Tank	Good condition	Good Condition						
Condition of tank feet/wall	Good Condition	Good Condition						
PID Readings	0.1 ppm	0.2 ppm						
Soil impacts present at valves or hatches?	None observed	None observed						
PID Readings	0 ppm	0 ppm						
Sample taken? Location/ Sample ID#	See attached	See attached						
Photo Number(s)	See attached	See attached						

Other observations regarding tanks:

Separators

Separator size	Unknown	Unknown						
Vertical or Horizontal	Horizontal	Horizontal						
Age	Unknown	Unknown						
Soil impacts observed? If yes.	Not observed	At dumpline						
PID Readings	0 to 0.3 ppm	185 to 1,096 ppm						
Sample taken? Location/ Sample ID#	See attached	See attached						
Photo Number(s)	See attached	See attached						

Other observations regarding separators

Impacts observed at the separator dumpline appear to originate from PWV.

Third Party Equipment

Type								
Age								

Third Party									
Removal Date									
Sample taken?									
PID Readings									
Photo Number(s)									

Other Facility Equipment

Equipment type	ECD	ECD		
Equipment Condition	Good condition	Good Condition		
Age	Unknown	Unknown		
Soil impacts	None observed	None observed		
PID Readings	0.1 ppm	0 ppm		
Sample taken?	See attached	See attached		
Photo Number(s)	See attached	See attached		

Other observations regarding other facility or third party equipment:

Removed prior to location decommission.

Summary

Was impacted soil identified? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards	
Total number of samples field screened: 15	Total number of samples collected: 16
Highest PID Reading: 1,583 ppm	Total number of samples submitted to lab for analysis: 9
If more than 10 cubic yards of impacted soil were observed: Impacts have not been excavated yet.	
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? <input type="checkbox"/> Yes <input type="checkbox"/> No
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:	

Buried or Partially Buried Vessel Closure Checklist

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

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure		Tank Battery Closure	
Site Name & COGCC Facility Number: BAKER, CLYNCKE Facility, 447562		Date: 11/23/2022				Remediation Project #: 20768			
Associated Wells: <small>BAKER ST B 36-11,12,13,14, CLYN</small>		Age of Site: Unknown				Number of Photos Attached:			
Location: (GPS coordinates of vault or southeastern tank berm for multiple) 40.348856, -104.502130						Estimated Facility Size (acres):			

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)
Site was in good condition, some oxidation present on dumplines at 90 degree fittings.

USCS Soil Type: **Clay with sand and silt (CL)** Estimated Depth to Groundwater: **9 to 12 feet bgs**

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
Impacted soil observed at PWV excavation, mostly on S wall at the dumplines.

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.

Buried or Partially Buried Vessels

Tank Contents	Produced water	Produced water							
Size (barrels)	50	50							
Age	Unknown	Unknown							
Construction	Concrete	Concrete							
Visual Integrity	Crushed on arrival	Crushed on arrival							
Condition of tank	Grey soil at base	Grey soil at base							
PID Readings	889.0 ppm	889.0 ppm							
Condition of	Corroded	Corroded							
PID Readings	1,583 ppm	1,583 ppm							
Sample taken?	See attached	See attached							
Location/Sample ID#	See attached	See attached							
Photo Number(s)	See attached	See attached							

Other observations regarding partially buried vessels: **Sampled as 1 excavation**

Summary

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

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

Highest PID Reading: **1,583 ppm** Total number of samples submitted to lab for analysis: **5**

If more than 10 cubic yards of impacted soil were observed: **Impacted soil not removed yet.**

Vertical extent: Estimated spill volume:

Lateral extent: Volume of soil removed:

Is additional investigation required?

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

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

Date Groundwater was encountered: Commencement date of removal:

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

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

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

Total number of samples submitted to lab for analysis:

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 06, 2022

Paul Henchan
Fremont Environmental
PO Box 1289
Wellington, CO 80549

RE: Noble - Baker State B36-12

Work Order #2211423

Enclosed are the results of analyses for samples received by Summit Scientific on 11/23/22 16:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mikayla Axtell For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@6"	2211423-03	Soil	11/23/22 00:00	11/23/22 16:00
AST02@6"	2211423-04	Soil	11/23/22 00:00	11/23/22 16:00
PWVN01@5'	2211423-05	Soil	11/23/22 00:00	11/23/22 16:00
PWVE01@5'	2211423-06	Soil	11/23/22 00:00	11/23/22 16:00
PWVS01@5'	2211423-07	Soil	11/23/22 00:00	11/23/22 16:00
PWVW01@5'	2211423-08	Soil	11/23/22 00:00	11/23/22 16:00
PWVB01@6.5'	2211423-09	Soil	11/23/22 00:00	11/23/22 16:00
DL01@7'	2211423-10	Soil	11/23/22 00:00	11/23/22 16:00
DL02@4.5'	2211423-11	Soil	11/23/22 00:00	11/23/22 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

2211423.1

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (F)

Client: Fremont Environmental

Project Manager: Paul Henehan

Address:

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

City/State/Zip:

Bill to Noble:

Phone:

Project Name: Baker State B36-12

Sampler Name: Chris Latter

Project Number:

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, TMBs, Naph.	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate	HOLD	
1	SEP01 @ 1'	11/23/22		2			X			X			X	X	X			X	Hold
2	SEP02 @ 1'			2			X			X			X	X	X			X	Hold
3	AST01 @ 6"																		
4	AST02 @ 6"																		
5	PWV01 @ 5'																		
6	PWV01 @ 5'																		
7	PWV01 @ 5'																		
8	PWV01 @ 5'																		
9	PWV01 @ 6.5'																		
10	DL01 @ 7'	11/23/22		2			X			X			X	X	X				

Relinquished by: Chris Latter
Date/Time: 11/23/22 13:35

Received by: S2
Date/Time: 11/23/22 13:35

Turn Around Time (Check)
Same Day _____ 72 hours _____
24 hours _____ Standard
48 hours _____

Notes: Facility

Relinquished by: S2
Date/Time: 11/23/22 1600

Received by: [Signature]
Date/Time: 11/23/22 1600

Sample Integrity:
Temperature Upon Receipt: 74
Samples Intact: Yes No

Summit Scientific

2211423.2

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Page 2 of 2

Client: Fremont Environmental

Project Manager: Paul Henehan

Address:

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

City/State/Zip:

Bill to Noble:

Phone:

Project Name: Baker State 336-12

Sampler Name: CHRIS CATTER

Project Number:

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, TMBs, Naph.	PAH (915)	EC, SAR, pH, Boron	Metals (915)	TDS, Chloride, Sulfate		HOLD
1	DL 82 @ 4.5'	11/23/22		2			X			X			X						
2	BK 69 @ 1'	11/23/22		1			X			X									X
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: CHRIS CATTER	Date/Time: 11/23/22 13:35	Received by: S2	Date/Time: 11/23/22 13:35	Turn Around Time (Check)	Notes: Facility
				Same Day _____ 72 hours	
				24 hours _____ Standard <input checked="" type="checkbox"/>	
Relinquished by: S2	Date/Time: 11/23/22 1600	Received by: [Signature]	Date/Time: 11/23/22 1600	48 hours _____	
				Sample Integrity:	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Temperature Upon Receipt: 7.4	
				Samples Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

S₂

2/2

S2 Work Order# 2211423

Sample Receipt Checklist

Client: Fremont Client Project ID: Baker State B36-12

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

[] [] [] [] []

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

Temp (°C) 7.4 Thermometer # 1

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? (1) NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	-			ON ICE
If custody seals are present, are they intact? (1)	-			
Are samples due within 48 hours present?		-		
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen			-	
Is a chain-of-custody (COC) form present and filled out Completely? (1)	-			
Is the COC properly relinquished by the client w/ date and time recorded? (1)	-			
Were all samples received intact? (1)	-			
Was adequate sample volume provided? (1)	-			
Does the COC agree with the number and type of sample bottles received? (1)	-			
Do the sample IDs on the bottle labels match the COC?(1)	-			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			-	
Are samples preserved that require preservation (excluding cooling)? (1) Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.			-	
If samples are acid preserved for metals, is the pH ≤ 2? (1) Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?			-	

Additional Comments (if any):

(1) If NO, then contact the client before proceeding with analysis and note in case narrative.

[Signature]
Custodian Printed Name

11.23.22
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

AST01@6''
2211423-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFK0696	11/30/22	12/01/22	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: **11/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		108 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFK0629	11/28/22	11/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		87.2 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

**AST01@6''
2211423-03 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0625	11/28/22	11/28/22	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: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		65.7 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		70.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.115	0.0100	mg/L	1	BFK0659	11/29/22	11/30/22	EPA 6020B	

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

Date Sampled: **11/23/22 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 - Baker State B36-12

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/06/22 12:57

**AST01@6''
 2211423-03 (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	305	0.0648	mg/L dry	1	BFK0638	11/28/22	12/01/22	EPA 6020B	
Magnesium	93.0	0.0648	"	"	"	"	"	"	
Sodium	38.6	0.0648	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.496	0.00100	units	1	BFL0022	12/01/22	12/01/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	77.2		%	1	BFK0635	11/28/22	11/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.247	0.0100	mmhos/cm	1	BFK0656	11/29/22	11/29/22	EPA 120.1	

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

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12		pH Units	1	BFK0657	11/29/22	11/29/22	EPA 9045D	

Summit Scientific

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PO Box 1289
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Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

**AST02@6''
2211423-04 (Soil)**

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BFK0696	11/30/22	12/01/22	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: **11/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		110 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		100 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BFK0629	11/28/22	11/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		89.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

**AST02@6''
2211423-04 (Soil)**

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0625	11/28/22	11/28/22	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: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		57.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.202	0.0100	mg/L	1	BFK0659	11/29/22	11/30/22	EPA 6020B	

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

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental
 PO Box 1289
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Project: Noble - Baker State B36-12

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/06/22 12:57

**AST02@6''
 2211423-04 (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	17.0	0.0635	mg/L dry	1	BFK0638	11/28/22	12/01/22	EPA 6020B	
Magnesium	8.93	0.0635	"	"	"	"	"	"	
Sodium	64.7	0.0635	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.16	0.00100	units	1	BFL0022	12/01/22	12/01/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.8		%	1	BFK0635	11/28/22	11/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.403	0.0100	mmhos/cm	1	BFK0656	11/29/22	11/29/22	EPA 120.1	

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

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.33		pH Units	1	BFK0657	11/29/22	11/29/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

PWVN01@5'
2211423-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0696	11/30/22	12/01/22	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: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0629	11/28/22	11/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		97.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

PWVN01@5'
2211423-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0625	11/28/22	11/29/22	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: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		62.2 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		69.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0225	0.0100	mg/L	1	BFK0659	11/29/22	11/30/22	EPA 6020B	

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

Date Sampled: **11/23/22 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 - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

PWVN01@5'
2211423-05 (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	28.0	0.0564	mg/L dry	1	BFK0638	11/28/22	12/01/22	EPA 6020B	
Magnesium	11.4	0.0564	"	"	"	"	"	"	
Sodium	21.9	0.0564	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.882	0.00100	units	1	BFL0022	12/01/22	12/01/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.7		%	1	BFK0635	11/28/22	11/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.335	0.0100	mmhos/cm	1	BFK0656	11/29/22	11/29/22	EPA 120.1	

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

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.07		pH Units	1	BFK0657	11/29/22	11/29/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

PWVE01@5'
2211423-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0696	11/30/22	12/01/22	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: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0629	11/28/22	11/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		93.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

PWVE01@5'
2211423-06 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0625	11/28/22	11/29/22	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: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		59.5 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		65.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0267	0.0100	mg/L	1	BFK0659	11/29/22	11/30/22	EPA 6020B	

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

Date Sampled: **11/23/22 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 - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

PWVE01@5'
2211423-06 (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	34.4	0.0653	mg/L dry	1	BFK0638	11/28/22	12/01/22	EPA 6020B	
Magnesium	13.1	0.0653	"	"	"	"	"	"	
Sodium	7.70	0.0653	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.283	0.00100	units	1	BFL0022	12/01/22	12/01/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	76.5		%	1	BFK0635	11/28/22	11/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.234	0.0100	mmhos/cm	1	BFK0656	11/29/22	11/29/22	EPA 120.1	

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

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91		pH Units	1	BFK0657	11/29/22	11/29/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

PWVS01@5'
2211423-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0696	11/30/22	12/01/22	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	0.023	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		143 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	570	50	mg/kg	1	BFK0629	11/28/22	11/29/22	EPA 8015M	
C28-C36 (ORO)	79	50	"	"	"	"	"	"	

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.0 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

PWVS01@5'
2211423-07 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.125	mg/kg	25	BFK0625	11/28/22	11/29/22	EPA 8270D SIM	
Anthracene	ND	0.00500	"	1	"	"	11/29/22	"	
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	0.00685	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0501	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.443	0.125	"	25	"	"	11/29/22	"	
2-Methylnaphthalene	1.33	0.125	"	"	"	"	"	"	

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		87.7 %	40-150		"	"	11/29/22	"	
Surrogate: Fluoranthene-d10		86.4 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFK0659	11/29/22	11/30/22	EPA 6020B	

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

Date Sampled: **11/23/22 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 - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

PWVS01@5'
2211423-07 (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	384	0.0572	mg/L dry	1	BFK0638	11/28/22	12/01/22	EPA 6020B	
Magnesium	110	0.0572	"	"	"	"	"	"	
Sodium	43.6	0.0572	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.505	0.00100	units	1	BFL0022	12/01/22	12/01/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.5		%	1	BFK0635	11/28/22	11/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.333	0.0100	mmhos/cm	1	BFK0656	11/29/22	11/29/22	EPA 120.1	

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

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.38		pH Units	1	BFK0657	11/29/22	11/29/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

PWVW01@5'
2211423-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0696	11/30/22	12/01/22	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: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		98.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0629	11/28/22	11/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		95.1 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

PWVW01@5'
2211423-08 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0625	11/28/22	11/29/22	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: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		63.9 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		80.5 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0458	0.0100	mg/L	1	BFK0659	11/29/22	11/30/22	EPA 6020B	

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

Date Sampled: **11/23/22 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 - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

PWVW01@5'
2211423-08 (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	36.4	0.0613	mg/L dry	1	BFK0638	11/28/22	12/01/22	EPA 6020B	
Magnesium	11.5	0.0613	"	"	"	"	"	"	
Sodium	11.8	0.0613	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.437	0.00100	units	1	BFL0022	12/01/22	12/01/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.6		%	1	BFK0635	11/28/22	11/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.262	0.0100	mmhos/cm	1	BFK0656	11/29/22	11/29/22	EPA 120.1	

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

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.95		pH Units	1	BFK0657	11/29/22	11/29/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

PWVB01@6.5'
2211423-09 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	0.19	0.0020		mg/kg	1	BFK0696	11/30/22	12/01/22	EPA 8260B	
Toluene	0.056	0.0050		"	"	"	"	"	"	
Ethylbenzene	0.18	0.0050		"	"	"	"	"	"	
Xylenes (total)	19	1.0		"	100	"	"	"	"	
1,2,4-Trimethylbenzene	12	0.50		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	6.1	0.50		"	"	"	"	"	"	
Naphthalene	0.030	0.0038		"	1	"	"	"	"	
Gasoline Range Hydrocarbons	54	0.50		"	"	"	"	"	"	

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4		117 %		50-150		"	"	"	"	
Surrogate: Toluene-d8		102 %		50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		128 %		50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	160	50		mg/kg	1	BFK0629	11/28/22	11/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl		99.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

PWVB01@6.5'
2211423-09 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0625	11/28/22	11/29/22	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	0.0178	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0906	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.733	0.250	"	50	"	"	11/29/22	"	
2-Methylnaphthalene	2.60	0.250	"	"	"	"	"	"	

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		103 %	40-150		"	"	11/29/22	"	
Surrogate: Fluoranthene-d10		78.6 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.259	0.0100	mg/L	1	BFK0659	11/29/22	11/30/22	EPA 6020B	

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

Date Sampled: **11/23/22 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 - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

PWVB01@6.5'
2211423-09 (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	55.4	0.0632	mg/L dry	1	BFK0638	11/28/22	12/01/22	EPA 6020B	
Magnesium	13.0	0.0632	"	"	"	"	"	"	
Sodium	80.6	0.0632	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.53	0.00100	units	1	BFL0022	12/01/22	12/01/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.1		%	1	BFK0635	11/28/22	11/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.396	0.0100	mmhos/cm	1	BFK0656	11/29/22	11/29/22	EPA 120.1	

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

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.34		pH Units	1	BFK0657	11/29/22	11/29/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

DL01@7'
2211423-10 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0696	11/30/22	12/01/22	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: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		98.2 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	140	50	mg/kg	1	BFK0629	11/28/22	11/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		96.8 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

DL01@7'
2211423-10 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0625	11/28/22	11/29/22	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	0.0325	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0469	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.289	0.0500	"	10	"	"	11/29/22	"	
2-Methylnaphthalene	0.767	0.0500	"	"	"	"	"	"	

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		82.5 %	40-150		"	"	11/29/22	"	
Surrogate: Fluoranthene-d10		92.2 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	0.0100	mg/L	1	BFK0659	11/29/22	11/30/22	EPA 6020B	

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

Date Sampled: **11/23/22 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 - Baker State B36-12

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/06/22 12:57

DL01@7'
2211423-10 (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	70.0	0.0579	mg/L dry	1	BFK0638	11/28/22	12/01/22	EPA 6020B	
Magnesium	25.0	0.0579	"	"	"	"	"	"	
Sodium	22.4	0.0579	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.585	0.00100	units	1	BFL0022	12/01/22	12/01/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.3		%	1	BFK0635	11/28/22	11/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.572	0.0100	mmhos/cm	1	BFK0656	11/29/22	11/29/22	EPA 120.1	

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

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.50		pH Units	1	BFK0657	11/29/22	11/29/22	EPA 9045D	

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

DL02@4.5'
2211423-11 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BFK0696	11/30/22	12/01/22	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: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	50-150		"	"	"	"	
Surrogate: Toluene-d8		99.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BFK0629	11/28/22	11/29/22	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **11/23/22 00:00**

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

PAH by EPA Method 8270D SIM

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

DL02@4.5'
2211423-11 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BFK0625	11/28/22	11/29/22	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: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		57.8 %	40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		66.7 %	40-150		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.0659	0.0100	mg/L	1	BFK0659	11/29/22	11/30/22	EPA 6020B	

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

Date Sampled: **11/23/22 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 - Baker State B36-12

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/06/22 12:57

DL02@4.5'
2211423-11 (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	39.0	0.0640	mg/L dry	1	BFK0638	11/28/22	12/01/22	EPA 6020B	
Magnesium	15.9	0.0640	"	"	"	"	"	"	
Sodium	19.1	0.0640	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.650	0.00100	units	1	BFL0022	12/01/22	12/01/22	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.1		%	1	BFK0635	11/28/22	11/28/22	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.346	0.0100	mmhos/cm	1	BFK0656	11/29/22	11/29/22	EPA 120.1	

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

Date Sampled: **11/23/22 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.99		pH Units	1	BFK0657	11/29/22	11/29/22	EPA 9045D	

Summit Scientific

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

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 BFK0696 - EPA 5030 Soil MS

Blank (BFK0696-BLK1)

Prepared: 11/30/22 Analyzed: 12/01/22

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>	0.0412		"	0.0400		103	50-150			
<i>Surrogate: Toluene-d8</i>	0.0398		"	0.0400		99.4	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0411		"	0.0400		103	50-150			

LCS (BFK0696-BS1)

Prepared: 11/30/22 Analyzed: 12/01/22

Benzene	0.148	0.0020	mg/kg	0.150		98.8	70-130			
Toluene	0.138	0.0050	"	0.150		91.9	70-130			
Ethylbenzene	0.139	0.0050	"	0.150		92.7	70-130			
m,p-Xylene	0.277	0.010	"	0.300		92.2	70-130			
o-Xylene	0.144	0.0050	"	0.150		96.1	70-130			
1,2,4-Trimethylbenzene	0.139	0.0050	"	0.150		92.9	70-130			
1,3,5-Trimethylbenzene	0.139	0.0050	"	0.150		92.9	70-130			
Naphthalene	0.148	0.0038	"	0.150		98.7	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0403		"	0.0400		101	50-150			
<i>Surrogate: Toluene-d8</i>	0.0392		"	0.0400		97.9	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0393		"	0.0400		98.2	50-150			

Matrix Spike (BFK0696-MS1)

Source: 2211417-02

Prepared: 11/30/22 Analyzed: 12/01/22

Benzene	0.135	0.0020	mg/kg	0.150	ND	90.3	70-130			
Toluene	0.131	0.0050	"	0.150	ND	87.6	70-130			
Ethylbenzene	0.127	0.0050	"	0.150	ND	84.3	70-130			
m,p-Xylene	0.248	0.010	"	0.300	ND	82.5	70-130			
o-Xylene	0.131	0.0050	"	0.150	ND	87.3	70-130			
1,2,4-Trimethylbenzene	0.121	0.0050	"	0.150	ND	81.0	70-130			
1,3,5-Trimethylbenzene	0.125	0.0050	"	0.150	ND	83.2	70-130			
Naphthalene	0.121	0.0038	"	0.150	ND	80.6	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0416		"	0.0400		104	50-150			
<i>Surrogate: Toluene-d8</i>	0.0397		"	0.0400		99.3	50-150			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0400		"	0.0400		100	50-150			

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/06/22 12:57

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BFK0696 - EPA 5030 Soil MS

Matrix Spike Dup (BFK0696-MSD1)	Source: 2211417-02			Prepared: 11/30/22 Analyzed: 12/01/22					
Benzene	0.130	0.0020	mg/kg	0.150	ND	86.8	70-130	3.91	30
Toluene	0.127	0.0050	"	0.150	ND	84.7	70-130	3.34	30
Ethylbenzene	0.123	0.0050	"	0.150	ND	82.1	70-130	2.69	30
m,p-Xylene	0.243	0.010	"	0.300	ND	81.1	70-130	1.71	30
o-Xylene	0.128	0.0050	"	0.150	ND	85.4	70-130	2.18	30
1,2,4-Trimethylbenzene	0.119	0.0050	"	0.150	ND	79.7	70-130	1.64	30
1,3,5-Trimethylbenzene	0.122	0.0050	"	0.150	ND	81.6	70-130	1.92	30
Naphthalene	0.121	0.0038	"	0.150	ND	80.8	70-130	0.297	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0411</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>50-150</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>98.9</i>	<i>50-150</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0406</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>50-150</i>		

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/06/22 12:57

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 BFK0629 - EPA 3550A

Blank (BFK0629-BLK1)

Prepared: 11/28/22 Analyzed: 11/29/22

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	12.2		"	12.5		97.3	30-150				

LCS (BFK0629-BS1)

Prepared: 11/28/22 Analyzed: 11/29/22

C10-C28 (DRO)	426	50	mg/kg	500		85.3	70-130				
Surrogate: <i>o</i> -Terphenyl	12.8		"	12.5		103	30-150				

Matrix Spike (BFK0629-MS1)

Source: 2211423-03

Prepared: 11/28/22 Analyzed: 11/29/22

C10-C28 (DRO)	384	50	mg/kg	500	30.3	70.7	70-130				
Surrogate: <i>o</i> -Terphenyl	10.7		"	12.5		85.6	30-150				

Matrix Spike Dup (BFK0629-MSD1)

Source: 2211423-03

Prepared: 11/28/22 Analyzed: 11/29/22

C10-C28 (DRO)	389	50	mg/kg	500	30.3	71.7	70-130	1.32	20		
Surrogate: <i>o</i> -Terphenyl	11.9		"	12.5		95.4	30-150				

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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

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 BFK0625 - EPA 5030 Soil MS

Blank (BFK0625-BLK1)

Prepared & Analyzed: 11/28/22

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	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0270		"	0.0333		81.0	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0279		"	0.0333		83.8	40-150			

LCS (BFK0625-BS1)

Prepared & Analyzed: 11/28/22

Acenaphthene	0.0312	0.00500	mg/kg	0.0333		93.7	31-137			
Anthracene	0.0311	0.00500	"	0.0333		93.2	30-120			
Benzo (a) anthracene	0.0282	0.00500	"	0.0333		84.6	30-120			
Benzo (a) pyrene	0.0276	0.00500	"	0.0333		82.9	30-120			
Benzo (b) fluoranthene	0.0289	0.00500	"	0.0333		86.8	30-120			
Benzo (k) fluoranthene	0.0318	0.00500	"	0.0333		95.4	30-120			
Chrysene	0.0335	0.00500	"	0.0333		100	30-120			
Dibenz (a,h) anthracene	0.0268	0.00500	"	0.0333		80.4	30-120			
Fluoranthene	0.0304	0.00500	"	0.0333		91.3	30-120			
Fluorene	0.0305	0.00500	"	0.0333		91.5	30-120			
Indeno (1,2,3-cd) pyrene	0.0257	0.00500	"	0.0333		77.0	30-120			
Pyrene	0.0310	0.00500	"	0.0333		93.0	35-142			
1-Methylnaphthalene	0.0263	0.00500	"	0.0333		79.0	35-142			
2-Methylnaphthalene	0.0371	0.00500	"	0.0333		111	35-142			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	0.0238		"	0.0333		71.3	40-150			
<i>Surrogate: Fluoranthene-d10</i>	0.0311		"	0.0333		93.3	40-150			

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PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

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 BFK0625 - EPA 5030 Soil MS

Matrix Spike (BFK0625-MS1)	Source: 2211422-01			Prepared & Analyzed: 11/28/22								
Acenaphthene	0.0220	0.00500	mg/kg	0.0333	ND	65.9	31-137					
Anthracene	0.0227	0.00500	"	0.0333	ND	68.0	30-120					
Benzo (a) anthracene	0.0248	0.00500	"	0.0333	0.00171	69.1	30-120					
Benzo (a) pyrene	0.0220	0.00500	"	0.0333	0.00218	59.6	30-120					
Benzo (b) fluoranthene	0.0224	0.00500	"	0.0333	0.00256	59.5	30-120					
Benzo (k) fluoranthene	0.0224	0.00500	"	0.0333	ND	67.2	30-120					
Chrysene	0.0248	0.00500	"	0.0333	ND	74.4	30-120					
Dibenz (a,h) anthracene	0.0183	0.00500	"	0.0333	ND	54.8	30-120					
Fluoranthene	0.0240	0.00500	"	0.0333	ND	71.9	30-120					
Fluorene	0.0215	0.00500	"	0.0333	ND	64.5	30-120					
Indeno (1,2,3-cd) pyrene	0.0196	0.00500	"	0.0333	0.00172	53.6	30-120					
Pyrene	0.0243	0.00500	"	0.0333	ND	73.0	35-142					
1-Methylnaphthalene	0.0188	0.00500	"	0.0333	ND	56.5	15-130					
2-Methylnaphthalene	0.0241	0.00500	"	0.0333	ND	72.3	15-130					
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0200</i>		<i>"</i>	<i>0.0333</i>		<i>60.0</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0240</i>		<i>"</i>	<i>0.0333</i>		<i>72.0</i>	<i>40-150</i>					

Matrix Spike Dup (BFK0625-MSD1)	Source: 2211422-01			Prepared & Analyzed: 11/28/22								
Acenaphthene	0.0236	0.00500	mg/kg	0.0333	ND	70.7	31-137	6.92	30			
Anthracene	0.0226	0.00500	"	0.0333	ND	67.9	30-120	0.107	30			
Benzo (a) anthracene	0.0253	0.00500	"	0.0333	0.00171	70.8	30-120	2.20	30			
Benzo (a) pyrene	0.0227	0.00500	"	0.0333	0.00218	61.6	30-120	2.97	30			
Benzo (b) fluoranthene	0.0231	0.00500	"	0.0333	0.00256	61.7	30-120	3.23	30			
Benzo (k) fluoranthene	0.0227	0.00500	"	0.0333	ND	68.2	30-120	1.60	30			
Chrysene	0.0255	0.00500	"	0.0333	ND	76.5	30-120	2.71	30			
Dibenz (a,h) anthracene	0.0191	0.00500	"	0.0333	ND	57.4	30-120	4.58	30			
Fluoranthene	0.0246	0.00500	"	0.0333	ND	73.9	30-120	2.64	30			
Fluorene	0.0231	0.00500	"	0.0333	ND	69.2	30-120	7.02	30			
Indeno (1,2,3-cd) pyrene	0.0206	0.00500	"	0.0333	0.00172	56.7	30-120	5.01	30			
Pyrene	0.0255	0.00500	"	0.0333	ND	76.4	35-142	4.56	30			
1-Methylnaphthalene	0.0209	0.00500	"	0.0333	ND	62.6	15-130	10.4	50			
2-Methylnaphthalene	0.0279	0.00500	"	0.0333	ND	83.7	15-130	14.7	50			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0207</i>		<i>"</i>	<i>0.0333</i>		<i>62.1</i>	<i>40-150</i>					
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0247</i>		<i>"</i>	<i>0.0333</i>		<i>74.2</i>	<i>40-150</i>					

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/06/22 12:57

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 BFK0659 - EPA 3050B

Blank (BFK0659-BLK1)

Prepared: 11/29/22 Analyzed: 11/30/22

Boron ND 0.0100 mg/L

LCS (BFK0659-BS1)

Prepared: 11/29/22 Analyzed: 11/30/22

Boron 4.66 0.0100 mg/L 5.00 93.2 80-120

Duplicate (BFK0659-DUP1)

Source: 2211406-01

Prepared: 11/29/22 Analyzed: 11/30/22

Boron 0.0488 0.0100 mg/L 0.0552 12.3 20

Matrix Spike (BFK0659-MS1)

Source: 2211406-01

Prepared: 11/29/22 Analyzed: 11/30/22

Boron 5.94 0.0100 mg/L 5.00 0.0552 118 75-125

Matrix Spike Dup (BFK0659-MSD1)

Source: 2211406-01

Prepared: 11/29/22 Analyzed: 11/30/22

Boron 4.71 0.0100 mg/L 5.00 0.0552 93.1 75-125 23.2 25

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/06/22 12:57

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 BFK0638 - General Preparation

Blank (BFK0638-BLK1)

Prepared: 11/28/22 Analyzed: 12/01/22

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

LCS (BFK0638-BS1)

Prepared: 11/28/22 Analyzed: 12/01/22

Calcium	4.29	0.0500	mg/L wet	5.00	85.8	70-130
Magnesium	4.42	0.0500	"	5.00	88.5	70-130
Sodium	4.37	0.0500	"	5.00	87.4	70-130

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Fremont Environmental
 PO Box 1289
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Project: Noble - Baker State B36-12

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/06/22 12:57

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

Summit Scientific

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

Batch BFK0635 - General Preparation

Duplicate (BFK0635-DUP1)

Source: 2211411-01

Prepared & Analyzed: 11/28/22

% Solids	89.8		%		89.2			0.720		20	
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Fremont Environmental
 PO Box 1289
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Project: Noble - Baker State B36-12

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/06/22 12:57

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 BFK0656 - General Preparation

Blank (BFK0656-BLK1)

Prepared & Analyzed: 11/29/22

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BFK0656-BS1)

Prepared & Analyzed: 11/29/22

Specific Conductance (EC) 0.150 0.0100 mmhos/cm 0.150 100 95-105

Duplicate (BFK0656-DUP1)

Source: 2211372-02

Prepared & Analyzed: 11/29/22

Specific Conductance (EC) 2.01 0.0100 mmhos/cm 2.12 5.42 20

Summit Scientific

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Fremont Environmental
 PO Box 1289
 Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
 Project Manager: Paul Henchan

Reported:
 12/06/22 12:57

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 BFK0657 - General Preparation

LCS (BFK0657-BS1)

Prepared & Analyzed: 11/29/22

pH	9.06	pH Units	9.18	98.7	95-105
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Duplicate (BFK0657-DUP1)

Source: 2211372-02

Prepared & Analyzed: 11/29/22

pH	9.22	pH Units	9.27	0.541	20
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Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Baker State B36-12

Project Number: [none]
Project Manager: Paul Henchan

Reported:
12/06/22 12:57

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference