

May 10, 2024

## Noble Energy, Inc – Lehfeltd C27-15

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### Site Investigation Update

SWSE Sec 27, T4N, R64W

40.277960, -104.534730

Weld County, Colorado

Fremont Project No. C022-207

API # 05-123-13851, Remediation # 25952

### Site Overview – Site History

The site consists of the former Lehfeltd C27-15 flowline. A historical release was identified along the flowline path at several locations during decommissioning activities on January 5, 2023. A comprehensive site investigation was undertaken to define the magnitude and extent of soil impacts. Soil impacts will be removed via excavation at and adjacent to the former flowline. The proposed dimensions of the excavation extents are estimated to be 10'x10'x5' deep in each of the three locations. Groundwater was not encountered during the site investigation.

### Conceptual Site Model\*

\*Data presented represents the most recent sampling event

- **Land Use** – Agricultural (Crop)
- **Lithology (USCS)** – CL to SP
- **Potential Receptors within ¼ mile** – HPH Y-Aquatic Native Species Conservation Waters Residential 0.24 mi SE; pond ~0.19 mi SE, riverine ~0.15 mi SE and ~0.18 mi W
- **Groundwater Encountered** – No
- **Estimated Depth to Groundwater** – 11 feet
- **Impacted Media and Excavation Extent** – Soil – 10'x10'x5' deep
- **Volume of Impacts Removed** – Impacts remain in situ
- **Waste Type** – Non-hazardous

### Contaminants of Concern (COC)

The laboratory data indicate organic and inorganic soil constituents were in compliance with the ECMC Table 915-1 standards in samples collected during the November 21, 2023 and November 22, 2023 supplemental site investigation conducted at and adjacent to the former produced water vault location. The soil analytical data are summarized in Tables 1-5. A copy of the laboratory's report, quality control data, and chain-of-custody documentation is attached.

### Remedial Actions

The source will be excavated, and confirmation soil samples will be collected and analyzed for the full Table 915 suite. If groundwater is encountered during the excavation of impacted soil, a groundwater sample will be collected for Table 915 organic constituents in groundwater (BTEX, 1,2,4 Trimethylbenzene, 1,3,5 Trimethylbenzene, and Naphthalene). Should no additional active remediation be required following source removal at the location, a no

further action (NFA) determination will be requested within 90 days following laboratory confirmation of the removal of impacted soils with respect to the applicable Table 915-1 screening levels at the site.

If groundwater impacts are observed, an NFA will be requested once four consecutive quarters of groundwater sampling have been completed and reported at the location with concentrations of Table 915 constituents below regulatory limits. As needed, soil and/or groundwater remediation plans will be developed and submitted to ECMC in a supplemental Form 27.

## Remarks

The discussion and conclusions contained in this report represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

This report was prepared by **FREMONT ENVIRONMENTAL INC.**



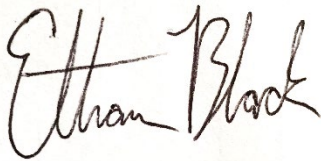
5/10/24

Date \_\_\_\_\_

\_\_\_\_\_  
Stanley Gilbert

Environmental Scientist

Reviewed by:



5/10/24

Date \_\_\_\_\_

\_\_\_\_\_  
Ethan D. Black, P.G.

Geologist

Attachments:

Tables

Figures

Boring Logs

Laboratory Report

**TABLE 1**  
**FIELD DATA SUMMARY TABLE**  
**NOBLE 100322**  
**LEHFELDT C 27-15, WELD COUNTY, COLORADO**  
**REM # 26094**

Sample ID	Sample Date	Depth (ft)	GPS Data		PDOP Value	VOC Concentration (ppm)
			Latitude	Longitude		
SEP02@3'	12/15/2022	3	40.280	-104.53	-	0
FL01@4'	12/16/2022	4	40.2796700	-104.53463	-	0.2
FL02@4'	12/16/2022	4	40.2798100	-104.53463	-	0.2
FL03@4'	12/16/2022	4	40.2798100	-104.52853	-	0.2
FL04@4'	12/16/2022	4	40.2798300	-104.52896	-	0.1
FL05@4'	12/16/2022	4	40.2798260	-104.53004	-	0.6
FL06@4'	12/16/2022	4	40.2798200	-104.53094	-	0
FL07@4'	12/16/2022	4	40.2798170	-104.53186	-	0
FL08@5'	12/16/2022	5	40.2798180	-104.53239	-	0.2
FL09@4'	12/16/2022	4	40.2798160	-104.53288	-	0.2
FL10@4'	12/16/2022	4	40.2798200	-104.53352	-	0.1
FL11@4'	12/16/2022	4	40.2793980	-104.53462	-	0
FL12@4'	12/16/2022	4	40.2789720	-104.53462	-	0
FL13@4'	12/16/2022	4	40.2784050	-104.53461	-	0.4
WH-SS-01 @ 5'	3/28/2023	5	40.2780450	-104.534614	-	0.2
WH-SS-02 @ 5'	3/28/2023	5	40.2780310	-104.534596	-	0.1
WH-SS-03 @ 5'	3/28/2023	5	40.2780170	-104.534615	-	0
WH-SS-04 @ 5'	3/28/2023	5	40.2780310	-104.534633	-	0.5
WH-FS-01 @ 6'	3/28/2023	6	40.2780300	-104.534616	-	3.5
SBCEN01	11/21/2023	Multiple	40.2798284	-104.5309740	-	0.0
SBW01	11/21/2023	Multiple	40.2797990	-104.5309741	-	0.0
SBS01	11/21/2023	Multiple	40.2798267	-104.5310084	-	0.0
SBCEN02	11/22/2023	Multiple	40.2798249	-104.5317673	-	0.0
SBCEN03	11/22/2023	Multiple	40.2780380	-104.5345977	-	0.0
SBE02	11/22/2023	Multiple	40.2798241	-104.5317300	-	0.0

Sample ID	Sample Date	Depth (ft)	GPS Data		PDOP Value	VOC Concentration (ppm)
			Latitude	Longitude		
SBE03	11/22/2023	Multiple	40.2780334	-104.5345625	-	0.0
SBN03	11/22/2023	Multiple	40.2780616	-104.5345899	-	0.0
SBS02	11/22/2023	Multiple	40.2797982	-104.5317638	-	0.0
SBS03	11/22/2023	Multiple	40.2780076	-104.5346003	-	0.0
SBW02	11/22/2023	Multiple	40.2798239	-104.5318024	-	0.0
SBW03	11/22/2023	Multiple	40.2780435	-104.5346335	-	0.0
BKG01	11/21/2023	Multiple	40.279791	-104.531048	-	0.0
BKG02	11/22/2023	Multiple	40.279707	-104.531712	-	0.0
BKG03	11/22/2023	Multiple	40.279718	-104.531857	-	0.0
BKG04	11/22/2023	Multiple	40.278064	-104.534470	-	0.0
BKG05	11/22/2023	Multiple	40.277955	-104.534496	-	0.0

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

in. = Inches

ft. = Feet

bgs = Below ground surface

  = Source material characterization sample, excavated and transported off site for disposal.

  = Material excavated and transported off site for disposal.

TABLE 2  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
NOBLE 100322  
LEHFELDT C 27-15, WELD COUNTY, COLORADO  
REM # 26094

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 (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
SEP02@3'	12/15/2022	3'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
FL06@4'	12/16/2022	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
FL07@4'	12/16/2022	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<b>0.11</b>	<500	<0.50	<50	<50
FL14@4'	12/16/2022	4'	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
WH-FS-01 @ 6'	3/28/2023	6	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.00201	<500	<0.200	49.8	101

1. Bold values exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. \* Indicates laboratory minimum detection limit in excess of SSL
4. \*\* Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.  
 = Material excavated and transported off site for disposal.

TABLE 3  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
NOBLE 100322  
LEHFELDT C 27-15, WELD COUNTY, COLORADO  
REM # 26094

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
SEP02@3'	12/15/2022	3'	<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
FL06@4'	12/16/2022	4'	0.0142	0.0277	<b>0.0543</b>	0.0367	0.0558	0.0226	0.0581	0.00644	0.139	0.016	0.0237	0.108	<0.00500	<0.00500
FL07@4'	12/16/2022	4'	0.298	0.4	<b>0.398</b>	<b>0.31</b>	<b>0.435</b>	0.177	0.418	0.0476	1.27	0.311	0.193	0.88	<b>0.0677</b>	<b>0.16</b>
FL14@4'	12/16/2022	4'	0.007	0.0067	<b>0.0119</b>	0.0152	0.0242	0.00976	0.0267	<0.00500	0.0655	0.00713	0.00954	0.0512	<0.00500	<0.00500
WH-FS-01 @ 6'	3/28/2023	6	0.000614	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000661	<0.00067	0.000647	0.000673	<0.00067	0.000861	0.00215	0.00218

1. Bold values exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

3. \* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

**TABLE 4**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE 100322**  
**LEHFELDT C 27-15, WELD COUNTY, COLORADO**  
**REM # 26094**

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
SEP02@3'	12/15/2022	3'	8.13	0.217	0.365	1.98
FLO6@4'	12/16/2022	4'	<b>8.47</b>	0.542	2.64	0.58
FLO7@4'	12/16/2022	4'	7.84	0.567	1.76	1.68
FL14@4'	12/16/2022	4'	8	0.872	3.02	1.19
WH-FS-01 @ 6'	3/28/2023	6	8.28	0.762	1.81	0.399
BKG01 4'	11/21/2023	4	<b>8.44</b>	0.662	2.86	<2.00
BKG01 6'	11/21/2023	6	<b>8.98</b>	0.326	0.975	<2.00
BKG02 4'	11/22/2023	4	<b>8.91</b>	0.276	0.971	<2.00
BKG02 6'	11/22/2023	6	<b>9</b>	0.264	0.926	<2.00
BKG03 4'	11/22/2023	4	<b>8.36</b>	0.137	0.746	<2.00
BKG03 6'	11/22/2023	6	<b>8.96</b>	0.258	0.822	<2.00
BKG04 4'	11/22/2023	4	8.16	1.07	2.63	<2.00
BKG04 6'	11/22/2023	6	<b>8.71</b>	0.5	2.42	<2.00
BKG05 4'	11/22/2023	4	<b>8.84</b>	0.322	0.939	<2.00
BKG05 6'	11/22/2023	6	<b>8.72</b>	0.5	2.87	<2.00
Maximum Root Background Concentration (0 - 3 ft)			NA	NA	NA	NA
Average Root Background Concentration (0 - 3 ft)			NA	NA	NA	NA
Maximum Background Concentration			<b>9.00</b>	NA	NA	NA
Average Background Concentration			<b>8.71</b>	NA	NA	NA

1. Bold faced values exceed the ECMC Table 915-1 limit(s)

2. Blue highlighted soil analytical values indicate a regulatory exceedance

NA - Not analyzed

= Source material characterization sample, excavated and transported off site for disposal.

= Material excavated and transported off site for disposal.

TABLE 5  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
NOBLE 100322  
LEHFELDT C 27-15, WELD COUNTY, COLORADO  
REM # 26094

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
BKG01 4'	11/21/2023	4	<b>2.38</b>	<b>109</b>	<0.200	<0.30	5.02	6.27	5.62	<0.260	0.0337	16.3
BKG01 6'	11/21/2023	6	<b>1.23</b>	<b>98.8</b>	<0.200	<0.30	3.02	5.21	3.92	<0.260	<0.0200	13.5
BKG02 4'	11/22/2023	4	<b>1.37</b>	38.7	<0.200	<0.30	3.23	4.67	3.47	<0.260	0.0207	12.2
BKG02 6'	11/22/2023	6	<b>3.16</b>	<b>755</b>	0.252	<0.30	7.41	10.3	5.83	<0.260	0.0546	22.7
BKG03 4'	11/22/2023	4	<b>1.22</b>	46	<0.200	<0.30	3.19	4.45	3.14	<0.260	<0.0200	12
BKG03 6'	11/22/2023	6	<b>1.75</b>	63.5	<0.200	<0.30	3.37	5.41	3.76	<0.260	<0.0200	14
BKG04 4'	11/22/2023	4	<b>2.85</b>	76.1	0.2	<0.30	6.67	<b>14.2</b>	6.08	<0.260	0.0501	76.3
BKG04 6'	11/22/2023	6	<b>3.6</b>	<b>141</b>	0.226	<0.30	7.02	11	6.91	<0.260	0.0442	26.9
BKG05 4'	11/22/2023	4	<b>1.73</b>	<b>89.9</b>	<0.200	<0.30	3.5	5.56	4.03	<0.260	<0.0200	14.3
BKG05 6'	11/22/2023	6	<b>5</b>	<b>117</b>	0.342	<0.30	9.98	<b>15</b>	7.6	<0.260	0.0622	30.6
Maximum Root Zone Background Concentration (0 - 3 ft)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
125% Average Root Zone Background Concentration (0 - 3 ft)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Maximum Background Concentration			<b>5</b>	<b>755</b>	NA	NA	<b>9.98</b>	<b>15</b>	NA	NA	NA	NA
125% Average Background Concentration			<b>2.429</b>	<b>153.5</b>	NA	NA	<b>5.241</b>	<b>8.207</b>	NA	NA	NA	NA

1. Bold values exceed the ECMC Table 915-1 limit(s)

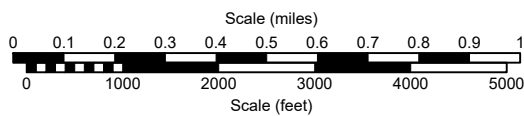
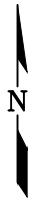
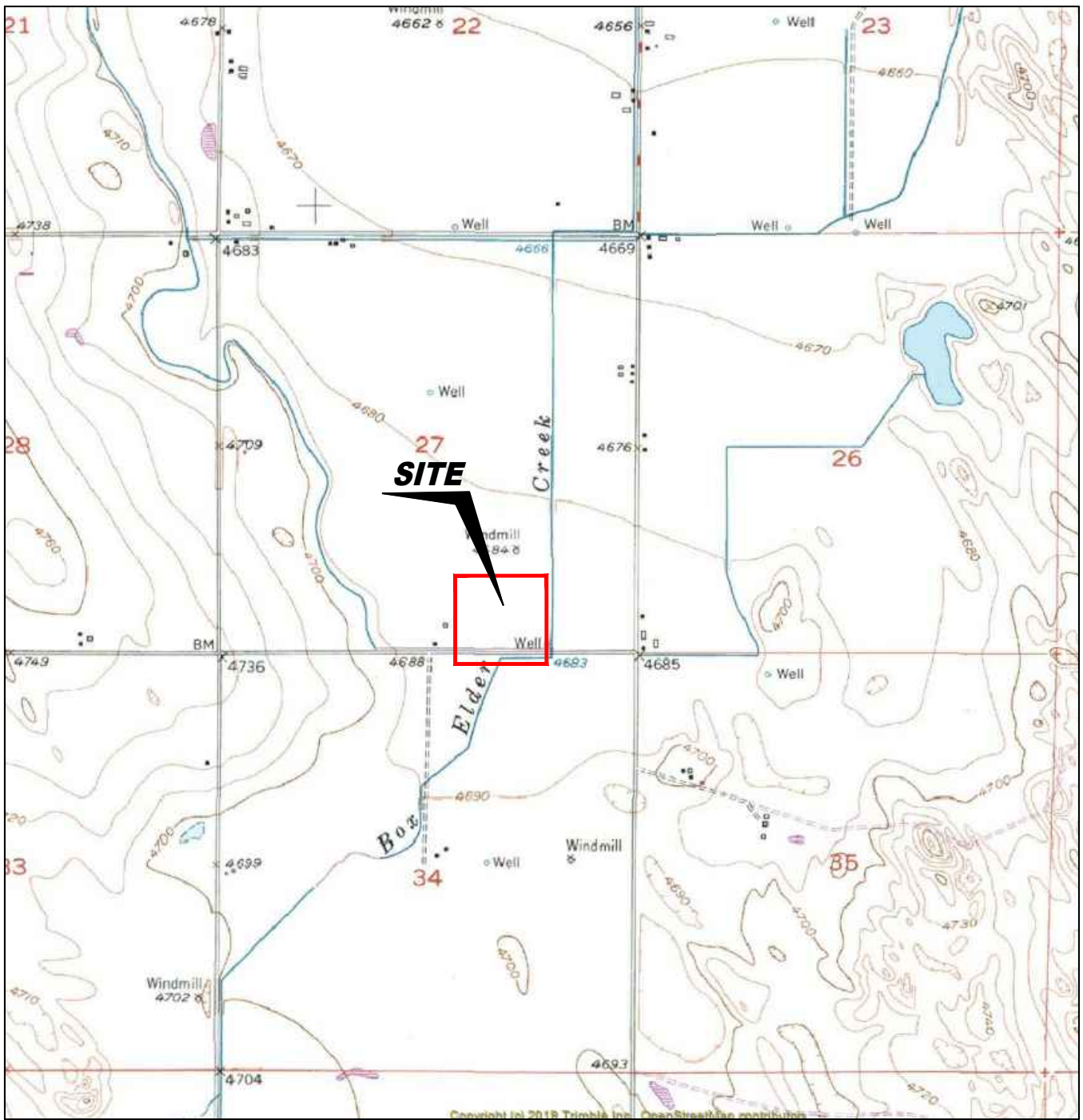
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

\* Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

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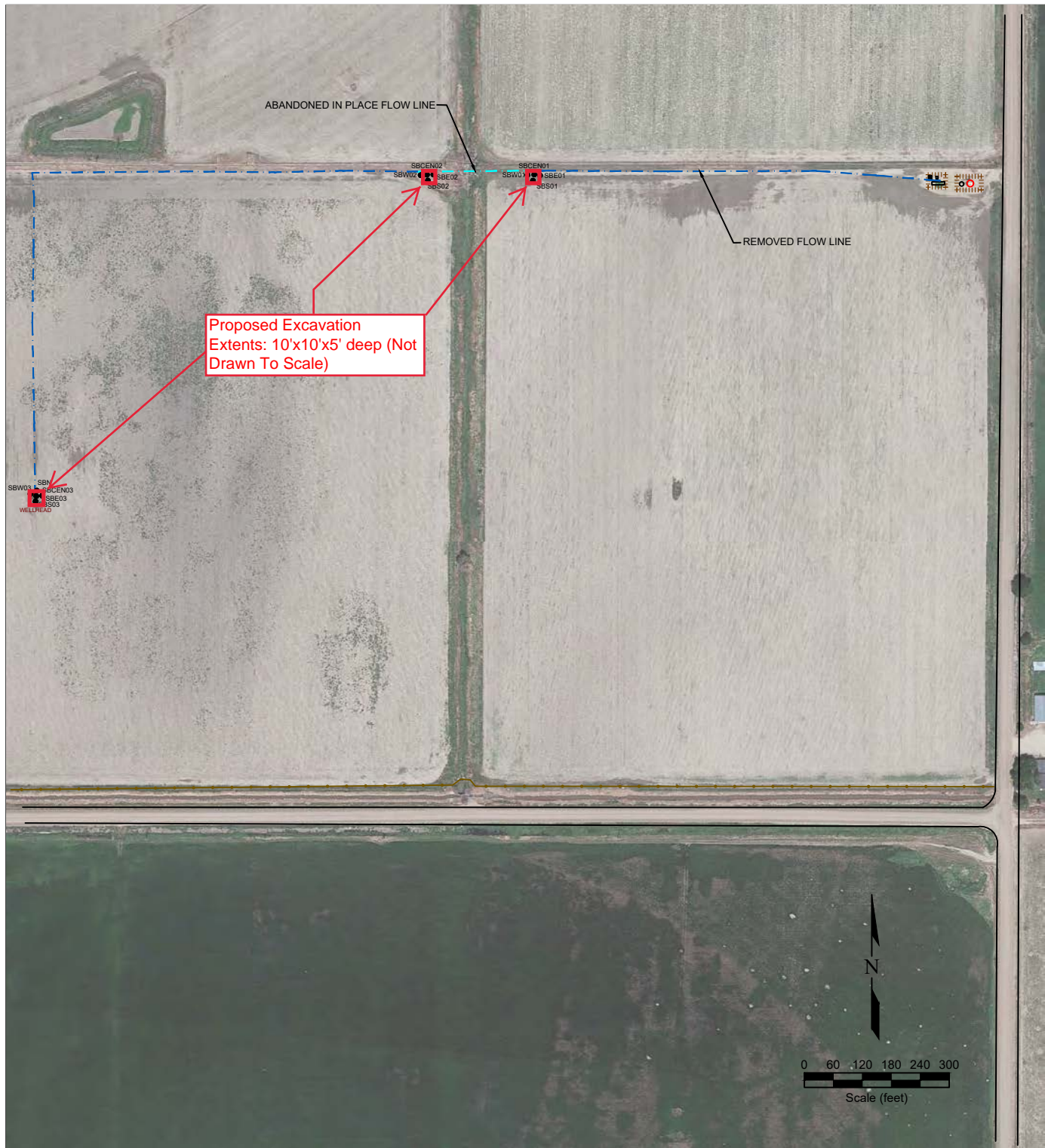
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
SITE LOCATION MAP

**Noble Energy, Inc. ~ Lehfeldt C 27-15**  
 SWSE Sec. 27 T4N, R64W, 6th PM  
 Weld County, Colorado  
 40.277960°, -104.534730°

Project # <b>C022-207</b>	API # <b>05-123-13851</b>	Facility #
Date <b>6/28/24</b>	Remediation # <b>26094</b>	Filename <b>22207T2</b>





**LEGEND**

- WELL HEAD LOCATION
- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- ▭ BUILDING
- ▭ BUILDING
- ▭ CONTAINMENT WALL
- ▭ CONTAINMENT BERM
- FLOW LINE
- FENCE LINE

**Figure 2  
SITE MAP**

**Noble Energy, Inc. ~ Lehfeldt C 27-15**  
 SWSE Sec. 27 T4N, R64W, 6th PM  
 Weld County, Colorado  
 40.277960°, -104.534730°

Project No. <b>C022-207</b>	API # <b>05-123-13851</b>	Facility #
Date <b>6/28/24</b>	Remediation # <b>26094</b>	Filename <b>22207Q2</b>





**LEGEND**

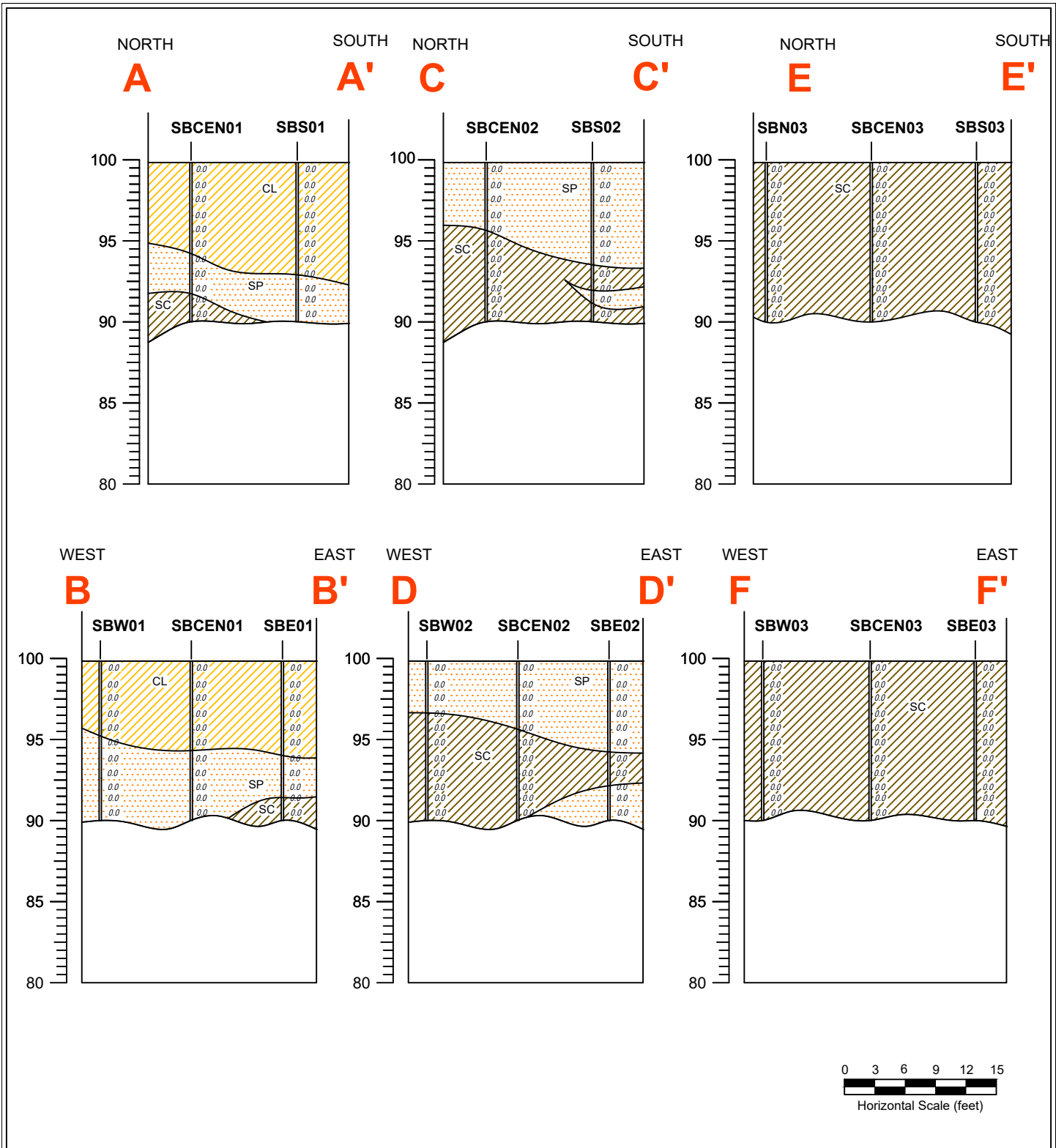
- WELL HEAD LOCATION
- SOIL BORING LOCATION
- ABOVE GROUND STORAGE TANK
- ▭ BUILDING
- ▭ BUILDING
- ▭ CONTAINMENT WALL
- ▭ CONTAINMENT BERM
- FLOW LINE
- FENCE LINE
- A—A' CROSS SECTION CUT LINE

**Figure 3  
CROSS SECTION MAP**

**Noble Energy, Inc. ~ Lehfeldt C 27-15**  
 SWSE Sec. 27 T4N, R64W, 6th PM  
 Weld County, Colorado  
 40.277960°, -104.534730°

Project No. <b>C022-207</b>	API # <b>05-123-13851</b>	Facility #
Date <b>6/28/24</b>	Remediation # <b>26094</b>	Filename <b>22207Q2</b>





**LEGEND**

CH	Clay, high plasticity	SW	Sand, well-graded	Fill
CL	Clay, low plasticity	SP	Sand, poorly-graded	Asphalt
MH	Silt, high plasticity	SC	Sand, clayey	Roadbase
ML	Silt, low plasticity	SM	Sand silty	Basin fill
CH-MH	Clay, silty high plasticity	GW	Gravel, well-graded	Claystone
CL-ML	Clay, silty, low plasticity	GP	Gravel	Firm sandy clay
MH-CH	Silt, clayey high plasticity	GC	Gravel, clayey	Shale
ML-CL	Silt, clayey low plasticity	GM	Gravel, silty	Sandstone

Figure 4  
**CROSS SECTIONS A - A' and B - B'**

**Noble Energy, Inc. ~ Lehfeldt C 27-15**  
 SWSE Sec. 27 T4N, R64W, 6th PM  
 Weld County, Colorado  
 40.277960°, -104.534730°

Project No. <b>C022-207</b>	API # <b>05-123-13851</b>	Facility #
Date <b>6/28/24</b>	Remediation # <b>26094</b>	Filename <b>22207Q2</b>





Figure 5  
BACKGROUND SAMPLE SOIL CHEMISTRY MAP

Noble Energy, Inc. ~ Lehfeldt C 27-15  
SWSE Sec. 27 T4N, R64W, 6th PM  
Weld County, Colorado  
40.277960°, -104.534730°

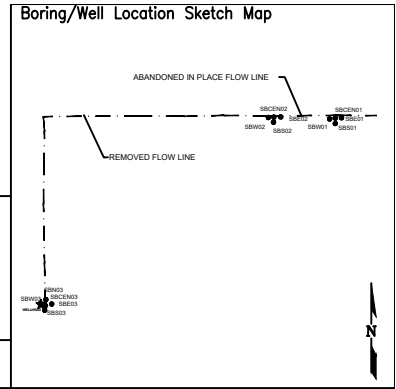
Project No. <b>C022-207</b>	API # <b>05-123-13851</b>	Facility #
Date <b>6/28/24</b>	Remediation # <b>26094</b>	Filename <b>22207Q2</b>



SAMPLE	SAMPLE ID	SAMPLE	SAMPLE ID
DATE	DATE SAMPLED	DATE	DATE SAMPLED
DEPTH	DEPTH (ft)	DEPTH	DEPTH (ft)
As	<-0.01 ARSENIC (mg/kg)	pH	<-000 SAR (units)
BA	<-0.01 BARIUM (mg/kg)	EC	7.00 pH (pH units)
CD	<-0.01 CADMIUM (mg/kg)	SAR	<1 EC (mmhos/cm)
CR(V)	<-0.05 CHROMIUM (mg/kg)	B	<-2 BORON (mg/L)
CU	<-0.01 COPPER (mg/kg)		
PB	<-0.05 LEAD (mg/kg)		
NI	<-0.05 NICKEL (mg/kg)		
SE	<-0.5 SELENIUM (mg/kg)		
AG	<-0.05 SILVER (mg/kg)		
Z	<-0.05 ZINC (mg/kg)		



# BORING/WELL CONSTRUCTION LOG



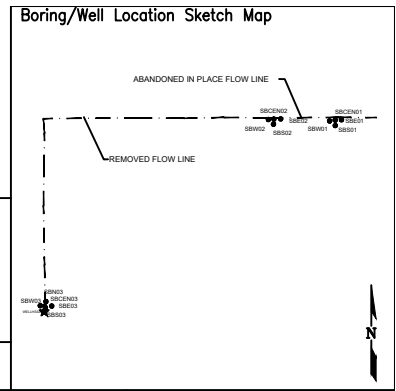
Page 1 of 1

Boring/Well No. <b>SBW03</b>		Total Depth <b>10'</b>	Location <b>Noble Energy, Inc Lehfeldt C 27-15, 16 SESE Sec. 27 T4N, R64W, 6th PM Weld County, Colorado</b>			
Project No./Name <b>C022-207 Noble ~ Lehfeldt C 27-15, 16</b>			Approved By			
Drilling Contractor/Driller <b>DrillPro / Terrance A</b>			Geologist/Office <b>Stan Gilbert / Fremont Environmental, Inc.</b>			
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>11/21/2023</b>		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type		Mtrl.	Length
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION			LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
				GRAPHIC LOG	VISUAL DESCRIPTION				
5				SC	Sandy clay, fine, brown, low plasticity, moist		90%		NA
10					TD 10'		50%		0.0
15									0.0
20									0.0



# BORING/WELL CONSTRUCTION LOG



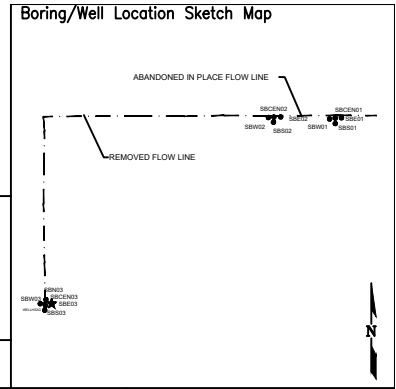
Page 1 of 1

Boring/Well No. <b>SBS03</b>		Total Depth <b>10'</b>	Location <b>Noble Energy, Inc Lehfeldt C 27-15, 16 SESE Sec. 27 T4N, R64W, 6th PM Weld County, Colorado</b>				
Project No./Name <b>C022-207 Noble ~ Lehfeldt C 27-15, 16</b>			Approved By				
Drilling Contractor/Driller <b>DrillPro / Terrance A</b>			Geologist/Office <b>Stan Gilbert / Fremont Environmental, Inc.</b>				
Drilling Equipment/Method <b>Geoprobe</b>			Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>11/21/2023</b>		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION			LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
				GRAPHIC LOG	VISUAL DESCRIPTION				
5			SC	Sandy clay, brown, low plasticity, moist, fine		80%		0.0	
10			TD 10'			90%		0.0	
15								0.0	
20								0.0	



# BORING/WELL CONSTRUCTION LOG



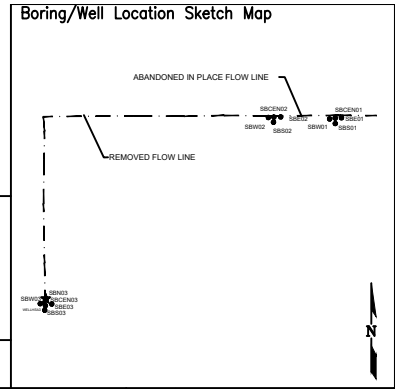
Page 1 of 1

Boring/Well No. <b>SBE03</b>		Total Depth <b>10'</b>	Location <b>Noble Energy, Inc Lehfeldt C 27-15, 16 SESE Sec. 27 T4N, R64W, 6th PM Weld County, Colorado</b>				
Project No./Name <b>C022-207 Noble ~ Lehfeldt C 27-15, 16</b>			Approved By				
Drilling Contractor/Driller <b>DrillPro / Terrance A</b>			Geologist/Office <b>Stan Gilbert / Fremont Environmental, Inc.</b>				
Drilling Equipment/Method <b>Geoprobe</b>			Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>11/21/2023</b>		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION			LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
				GRAPHIC LOG	VISUAL DESCRIPTION				
5			SC	Sandy clay, brown, fine, moist			70%		NA
10				TD 10'			40%		0.0
15									0.0
20									0.0



# BORING/WELL CONSTRUCTION LOG



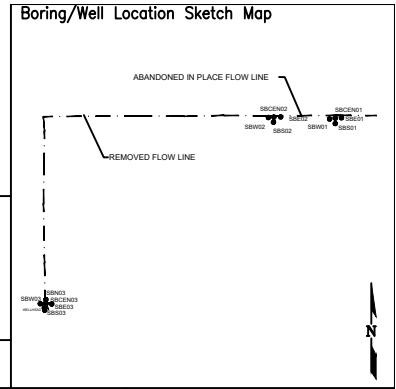
Page 1 of 1

Boring/Well No. <b>SBN03</b>		Total Depth <b>10'</b>	Location <b>Noble Energy, Inc Lehfeldt C 27-15, 16 SESE Sec. 27 T4N, R64W, 6th PM Weld County, Colorado</b>			
Project No./Name <b>C022-207 Noble ~ Lehfeldt C 27-15, 16</b>			Approved By			
Drilling Contractor/Driller <b>DrillPro / Terrance A</b>			Geologist/Office <b>Stan Gilbert / Fremont Environmental, Inc.</b>			
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>11/21/2023</b>		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type .   Mtrl. .   Length .   Dia. .   Slot Size .			
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5		SC	Fine sandy clay, brown, non plastic, moist		70%		NA
10			TD 10'		100%		0.0
15					30%		0.0
20							0.0



# BORING/WELL CONSTRUCTION LOG



Page 1 of 1

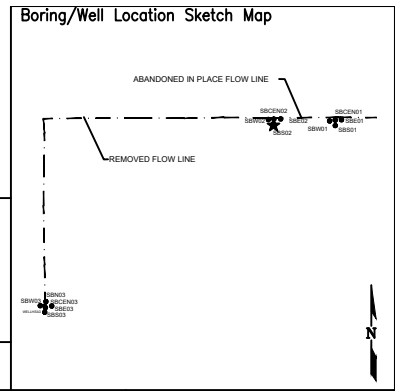
Boring/Well No. <b>SBCE03</b>		Total Depth <b>10'</b>	Location <b>Noble Energy, Inc Lehfeldt C 27-15, 16 SESE Sec. 27 T4N, R64W, 6th PM Weld County, Colorado</b>				
Project No./Name <b>C022-207 Noble ~ Lehfeldt C 27-15, 16</b>			Drilling Contractor/Driller <b>DrillPro / Terrance A</b>				
Geologist/Office <b>Stan Gilbert / Fremont Environmental, Inc.</b>			Approved By				
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>11/21/2023</b>			
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION		LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			GRAPHIC LOG	VISUAL DESCRIPTION				
5			SC	Sandy clay, brown, low plasticity, moist, fine		80%		NA
10				TD 10'		50%		0.0
15								0.0
20								0.0





# BORING/WELL CONSTRUCTION LOG



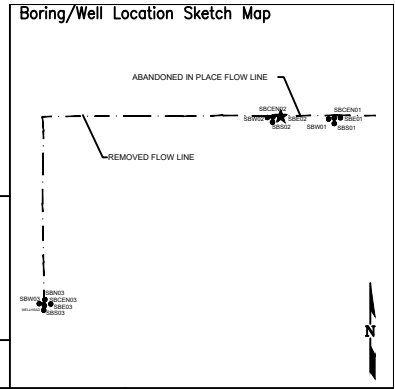
Page 1 of 1

Boring/Well No. <b>SBS02</b>		Total Depth <b>10'</b>	Location <b>Noble Energy, Inc Lehfeldt C 27-15, 16 SESE Sec. 27 T4N, R64W, 6th PM Weld County, Colorado</b>			
Project No./Name <b>C022-207 Noble ~ Lehfeldt C 27-15, 16</b>			Approved By			
Drilling Contractor/Driller <b>DrillPro / Terrance A</b>			Geologist/Office <b>Stan Gilbert / Fremont Environmental, Inc.</b>			
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>11/21/2023</b>		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured

DEPTH (feet)	WELL CONSTRUCTION			LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
				GRAPHIC LOG	VISUAL DESCRIPTION				
5				SP	Fine brown sands, non-plastic, dry		90%		NA
				SC	Sandy clay, brown, low to medium plasticity, moist				0.0
				SP	Fine grained sands, non-plastic, brown, moist				0.0
				SC	Sandy clays, brown, low to medium plasticity, moist				0.0
				- wet at 10' TD 10'					0.0
10							50%		0.0
									0.0
									0.0
									0.0
									0.0
15									0.0
									0.0
									0.0
									0.0
									0.0
20									0.0
									0.0
									0.0
									0.0
									0.0



# BORING/WELL CONSTRUCTION LOG



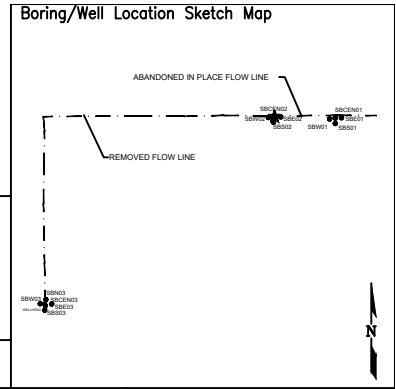
Page 1 of 1

Boring/Well No. <b>SBE02</b>		Total Depth <b>10'</b>	Location <b>Noble Energy, Inc Lehfeldt C 27-15, 16 SESE Sec. 27 T4N, R64W, 6th PM Weld County, Colorado</b>				
Project No./Name <b>C022-207 Noble ~ Lehfeldt C 27-15, 16</b>			Approved By				
Drilling Contractor/Driller <b>DrillPro / Terrance A</b>			Geologist/Office <b>Stan Gilbert / Fremont Environmental, Inc.</b>				
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>11/21/2023</b>			
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5		SP	Fine brown sands, non-plastic, dry		80%		NA
							0.0
							0.0
							0.0
							0.0
10		SC	Sandy clay, brown, low to medium plasticity, moist		80%		0.0
		SP	Fine brown sands, non-plastic, moist to wet				0.0
			- wet at 10'				0.0
			TD 10'				0.0
							0.0
15					50%		0.0
							0.0
							0.0
							0.0
							0.0
20							0.0
							0.0
							0.0
							0.0
							0.0



# BORING/WELL CONSTRUCTION LOG



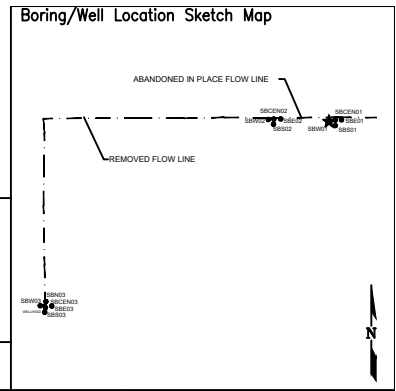
Page 1 of 1

Boring/Well No. <b>SBCE002</b>		Total Depth <b>10'</b>	Location <b>Noble Energy, Inc Lehfeldt C 27-15, 16 SESE Sec. 27 T4N, R64W, 6th PM Weld County, Colorado</b>				
Project No./Name <b>C022-207 Noble ~ Lehfeldt C 27-15, 16</b>		Drilling Contractor/Driller <b>DrillPro / Terrance A</b>					
Geologist/Office <b>Stan Gilbert / Fremont Environmental, Inc.</b>		Approved By					
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>11/21/2023</b>			
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	Slot Size
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION	LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
		GRAPHIC LOG	VISUAL DESCRIPTION				
5		SP	Fine brown sands, non-plastic, dry		50%		NA
		SC	Sandy clay, brown, fine, low to medium plasticity, moist		60%		0.0
10			- wet at 10' TD 10'		50%		0.0
15							0.0
20							0.0



# BORING/WELL CONSTRUCTION LOG



Page 1 of 1

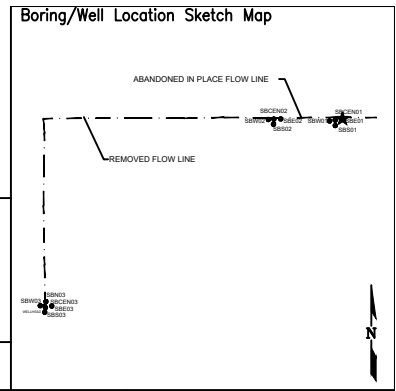
Boring/Well No. <b>SBW01</b>		Total Depth <b>10'</b>	Location <b>Noble Energy, Inc Lehfeldt C 27-15, 16 SESE Sec. 27 T4N, R64W, 6th PM Weld County, Colorado</b>				
Project No./Name <b>C022-207 Noble ~ Lehfeldt C 27-15, 16</b>			Approved By				
Drilling Contractor/Driller <b>DrillPro / Terrance A</b>			Geologist/Office <b>Stan Gilbert / Fremont Environmental, Inc.</b>				
Drilling Equipment/Method <b>Geoprobe</b>			Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>11/21/2023</b>		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION			LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
				GRAPHIC LOG	VISUAL DESCRIPTION				
			CL	Fine brown sands, medium plasticity, moist					0.0
							90%		0.0
			SP	Fine tan sands, non-plastic, moist					0.0
5							80%		0.0
									0.0
									0.0
									0.0
									0.0
10				Medium sands, non-plastic, wet, tan					0.0
				TD 10'			50%		0.0
									0.0
									0.0
15									0.0
									0.0
									0.0
20									0.0





# BORING/WELL CONSTRUCTION LOG



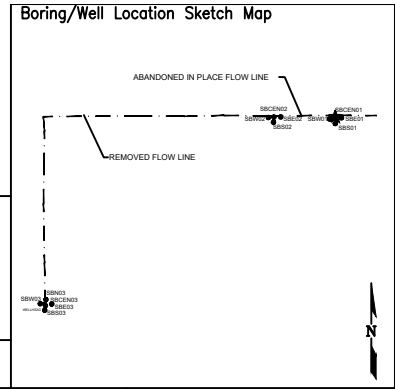
Page 1 of 1

Boring/Well No. <b>SBE01</b>	Total Depth <b>10'</b>	Location <b>Noble Energy, Inc Lehfeldt C 27-15, 16 SESE Sec. 27 T4N, R64W, 6th PM Weld County, Colorado</b>	
Project No./Name <b>C022-207 Noble ~ Lehfeldt C 27-15, 16</b>		Approved By	
Drilling Contractor/Driller <b>DrillPro / Terrance A</b>		Geologist/Office <b>Stan Gilbert / Fremont Environmental, Inc.</b>	
Drilling Equipment/Method <b>Geoprobe</b>		Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Start/Finish Date <b>11/21/2023</b>	
Casing Mtrl./Dia.		Screen: Type . Mtrl. . Length . Dia. . Slot Size .	
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing
		Top of Screen	Bottom of Screen
		Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION		LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			GRAPHIC LOG	VISUAL DESCRIPTION				
5			CL	Fine brown and tan sands, clay, medium to high plasticity, moist		80%		0.0
								0.0
								0.0
								0.0
								0.0
10			SP	Fine tan sands, non-plastic, moist		80%		0.0
								0.0
								0.0
								0.0
								0.0
15			SC	Fine tan and brown, sandy clays, low plasticity, moist to wet		20%		0.0
								0.0
								0.0
								0.0
								0.0
20				TD 10'				0.0
								0.0
								0.0
								0.0
								0.0



# BORING/WELL CONSTRUCTION LOG



Page 1 of 1

Boring/Well No. <b>SBCE01</b>		Total Depth <b>10'</b>	Location <b>Noble Energy, Inc Lehfeldt C 27-15, 16 SESE Sec. 27 T4N, R64W, 6th PM Weld County, Colorado</b>				
Project No./Name <b>C022-207 Noble ~ Lehfeldt C 27-15, 16</b>			Drilling Contractor/Driller <b>DrillPro / Terrance A</b>				
Geologist/Office <b>Stan Gilbert / Fremont Environmental, Inc.</b>			Approved By				
Drilling Equipment/Method <b>Geoprobe</b>			Size/Type of Bit <b>2.5" direct push</b>	Sampling Method <b>direct push</b>	Start/Finish Date <b>11/21/2023</b>		
Well Installed? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Casing Mtrl./Dia.	Screen: Type	Mtrl.	Length	Dia.	
Elevation of: (ft. above datum)		Ground Surface	Top of Well Casing	Top of Screen	Bottom of Screen	Ground Water Surface/Date Measured	

DEPTH (feet)	WELL CONSTRUCTION		LITHOLOGY		Penetration Rate (blows/6")	Recovery (%)	Sample Interval (feet)	PID Values (ppm)
			GRAPHIC LOG	VISUAL DESCRIPTION				
5			CL	Fine brown sands, clay, medium plasticity, moist		90%		0.0
			SP	Fine tan brown sands, non-plastic, moist				0.0
			SC	Fine brown, sandy clays, medium plastic, moist to wet				0.0
			TD 10'					0.0
			0.0					0.0
10						50%		0.0
			0.0					0.0
			0.0					0.0
			0.0					0.0
			0.0					0.0
15								0.0
			0.0					0.0
			0.0					0.0
			0.0					0.0
			0.0					0.0
20								0.0
			0.0					0.0
			0.0					0.0
			0.0					0.0
			0.0					0.0

# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 11, 2023

Paul Henchan  
Fremont Environmental  
PO Box 1289  
Wellington, CO 80549

RE: Noble - Lehfeldt C27-15

Work Order #2311491

Enclosed are the results of analyses for samples received by Summit Scientific on 11/22/23 17:08. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury  
President



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lehfeltdt C27-15

Project Number: CO22-207  
Project Manager: Paul Henchan

**Reported:**  
12/11/23 15:49

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BKG01 4'	2311491-01	Soil	11/21/23 13:55	11/22/23 17:08
BKG01 6'	2311491-02	Soil	11/21/23 14:00	11/22/23 17:08
BKG02 4'	2311491-03	Soil	11/22/23 10:05	11/22/23 17:08
BKG02 6'	2311491-04	Soil	11/22/23 10:10	11/22/23 17:08
BKG03 4'	2311491-05	Soil	11/22/23 10:15	11/22/23 17:08
BKG03 6'	2311491-06	Soil	11/22/23 10:20	11/22/23 17:08
BKG04 4'	2311491-07	Soil	11/22/23 10:25	11/22/23 17:08
BKG04 6'	2311491-08	Soil	11/22/23 10:30	11/22/23 17:08
BKG05 4'	2311491-09	Soil	11/22/23 10:35	11/22/23 17:08
BKG05 6'	2311491-10	Soil	11/22/23 10:40	11/22/23 17:08

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



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

Lab ID 2311491 Page 1 of 1

Client: Fremont Environmental		Send Data To: Project Manager: Paul Henehan		Send Invoice To: Company: <u>Noble</u>	
Address:		E-Mail: Fremont Distribution List		Project Name/Location: <u>Lehfeldt C27-15</u>	
City/State/Zip:		Project Name: <u>Lehfeldt C27-15</u>		AFE#:	
Phone: 303-261-6246		Project Number: <u>622-207</u>		PO/Billing Codes:	
Sampler Name: Stanley Gilbert				Contact: <u>Dan Peterson</u>	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested						Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX, TMBs, Naph.	TPH	PAH (915)	EC, SAR, Ph, Boron	Metals (915)		TDS, Chloride, Sulfate
1	BK602 4'	11/21/23	13:55	1			X			X						X	X		
2	BK601 6'	11/21/23	14:00	1			X			X						X	X		
3	BK602 4'	11/22/23	10:05	1			X			X						X	X		
4	BK602 6'		10:10	1			X			X						X	X		
5	BK603 4'		10:15	1			X			X						X	X		
6	BK603 6'		10:20	1			X			X						X	X		
7	BK604 4'		10:25	1			X			X						X	X		
8	BK604 6'		10:30	1			X			X						X	X		
9	BK605 4'		10:35	1			X			X						X	X		
10	BK605 6'		10:40	1			X			X						X	X		
11																			
12																			
13																			
14																			
15																			

Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/22/23 17:02</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1708 11-22-23</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: <u>19.1</u>	Corrected Temperature	IR gun #: <u>2</u>	HNO3 lot #:			

S<sub>2</sub>

Sample Receipt Checklist

S2 Work Order# 2301491

Client: Fremont Environmental Client Project ID: Lefeldt C27-15

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? <sup>(1)</sup> <b>NOTE:</b> 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"/>	<u>ON ICE</u>
If custody seals are present, are they intact? <sup>(1)</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 <sup>2+</sup> ), Hexavalent Chromium (Cr <sup>6+</sup> , 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? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC? <sup>(1)</sup>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? <sup>(1)</sup> Note the type of preservative in the comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? <sup>(1)</sup> 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"/>	
<u>Additional Comments (if any):</u>  				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

Josh  
Custodian Printed Name

11-22-23 1708  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
Project Manager: Paul Henchan

**Reported:**  
12/11/23 15:49

**BKG01 4'**  
**2311491-01 (Soil)**

Summit Scientific

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/21/23 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/21/23 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>2.38</b>	0.200	mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
Barium	<b>109</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	<b>5.02</b>	0.400	"	"	"	"	"	"	
Lead	<b>6.27</b>	0.200	"	"	"	"	"	"	
Nickel	<b>5.62</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0337</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>16.3</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/21/23 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/21/23 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>42.7</b>	0.0500	mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
Magnesium	<b>10.1</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>80.2</b>	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
Project Manager: Paul Henchan

**Reported:**  
12/11/23 15:49

**BKG01 4'**  
**2311491-01 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/21/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>2.86</b>	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/21/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>87.8</b>		%	1	BGL0018	12/01/23	12/01/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/21/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.662</b>	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/21/23 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.44</b>		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
Project Manager: Paul Henchan

**Reported:**  
12/11/23 15:49

**BKG01 6'**  
**2311491-02 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/21/23 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/21/23 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.23</b>	0.200	mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
<b>Barium</b>	<b>98.8</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>3.02</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>5.21</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>3.92</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>13.5</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/21/23 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/21/23 14:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>175</b>	0.0500	mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
<b>Magnesium</b>	<b>18.6</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>50.8</b>	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
Project Manager: Paul Henchan

**Reported:**  
12/11/23 15:49

**BKG01 6'**  
**2311491-02 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/21/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.975</b>	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/21/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>86.9</b>		%	1	BGL0018	12/01/23	12/01/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/21/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.326</b>	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/21/23 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.98</b>		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
Project Manager: Paul Henchan

**Reported:**  
12/11/23 15:49

**BKG02 4'**  
**2311491-03 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/22/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/22/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	1.37	0.200		mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
Barium	38.7	0.400		"	"	"	"	"	"	
Cadmium	ND	0.200		"	"	"	"	"	"	
Copper	3.23	0.400		"	"	"	"	"	"	
Lead	4.67	0.200		"	"	"	"	"	"	
Nickel	3.47	0.400		"	"	"	"	"	"	
Silver	0.0207	0.0200		"	"	"	"	"	"	
Zinc	12.2	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/22/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/22/23 10:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	132	0.0500		mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
Magnesium	17.9	0.0500		"	"	"	"	"	"	
Sodium	44.8	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
 Project Manager: Paul Henchan

**Reported:**  
 12/11/23 15:49

**BKG02 4'**  
**2311491-03 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/22/23 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.971	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/22/23 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.7		%	1	BGL0018	12/01/23	12/01/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/22/23 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.276	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/22/23 10:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.91		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
Project Manager: Paul Henchan

**Reported:**  
12/11/23 15:49

**BKG02 6'**  
**2311491-04 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/22/23 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/22/23 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	3.16	0.200		mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
Barium	755	0.400		"	"	"	"	"	"	
Cadmium	0.252	0.200		"	"	"	"	"	"	
Copper	7.41	0.400		"	"	"	"	"	"	
Lead	10.3	0.200		"	"	"	"	"	"	
Nickel	5.83	0.400		"	"	"	"	"	"	
Silver	0.0546	0.0200		"	"	"	"	"	"	
Zinc	22.7	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/22/23 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/22/23 10:10**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	147	0.0500		mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
Magnesium	18.9	0.0500		"	"	"	"	"	"	
Sodium	44.9	0.0500		"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
 Project Manager: Paul Henchan

**Reported:**  
 12/11/23 15:49

**BKG02 6'**  
**2311491-04 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/22/23 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.926</b>	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/22/23 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>87.2</b>		%	1	BGL0018	12/01/23	12/01/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/22/23 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.264</b>	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/22/23 10:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>9.00</b>		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
Project Manager: Paul Henchan

**Reported:**  
12/11/23 15:49

**BKG03 4'**  
**2311491-05 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/22/23 10:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/22/23 10:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.22</b>	0.200	mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
<b>Barium</b>	<b>46.0</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>3.19</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>4.45</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>3.14</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>12.0</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/22/23 10:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/22/23 10:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>49.7</b>	0.0500	mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
<b>Magnesium</b>	<b>12.4</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>22.7</b>	0.0500	"	"	"	"	"	"	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
 Project Manager: Paul Henchan

**Reported:**  
 12/11/23 15:49

**BKG03 4'**  
**2311491-05 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/22/23 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.746</b>	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/22/23 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>95.8</b>		%	1	BGL0018	12/01/23	12/01/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/22/23 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.137</b>	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/22/23 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.36</b>		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
Project Manager: Paul Henchan

**Reported:**  
12/11/23 15:49

**BKG03 6'**  
**2311491-06 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/22/23 10:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/22/23 10:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.75</b>	0.200	mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
<b>Barium</b>	<b>63.5</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>3.37</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>5.41</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>3.76</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>14.0</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/22/23 10:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/22/23 10:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>145</b>	0.0500	mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
<b>Magnesium</b>	<b>19.4</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>39.7</b>	0.0500	"	"	"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
 Project Manager: Paul Henchan

**Reported:**  
 12/11/23 15:49

**BKG03 6'**  
**2311491-06 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/22/23 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.822</b>	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/22/23 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>88.6</b>		%	1	BGL0018	12/01/23	12/01/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/22/23 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.258</b>	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/22/23 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.96</b>		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
Project Manager: Paul Henchan

**Reported:**  
12/11/23 15:49

**BKG04 4'**  
**2311491-07 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/22/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/22/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>2.85</b>	0.200		mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
Barium	<b>76.1</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.200</b>	0.200		"	"	"	"	"	"	
Copper	<b>6.67</b>	0.400		"	"	"	"	"	"	
Lead	<b>14.2</b>	0.200		"	"	"	"	"	"	
Nickel	<b>6.08</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.0501</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>76.3</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/22/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/22/23 10:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>88.9</b>	0.0500		mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
Magnesium	<b>22.0</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>108</b>	0.0500		"	"	"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
 Project Manager: Paul Henchan

**Reported:**  
 12/11/23 15:49

**BKG04 4'**  
**2311491-07 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/22/23 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.63	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/22/23 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.0		%	1	BGL0018	12/01/23	12/01/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/22/23 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.07	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/22/23 10:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
Project Manager: Paul Henchan

**Reported:**  
12/11/23 15:49

**BKG04 6'**  
**2311491-08 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/22/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Boron	ND	2.00		mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/22/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Arsenic	<b>3.60</b>	0.200		mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
Barium	<b>141</b>	0.400		"	"	"	"	"	"	
Cadmium	<b>0.226</b>	0.200		"	"	"	"	"	"	
Copper	<b>7.02</b>	0.400		"	"	"	"	"	"	
Lead	<b>11.0</b>	0.200		"	"	"	"	"	"	
Nickel	<b>6.91</b>	0.400		"	"	"	"	"	"	
Silver	<b>0.0442</b>	0.0200		"	"	"	"	"	"	
Zinc	<b>26.9</b>	0.400		"	"	"	"	"	"	
Selenium	ND	0.260		"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/22/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chromium, Hexavalent	ND	0.30		mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/22/23 10:30**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Calcium	<b>53.4</b>	0.0500		mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
Magnesium	<b>7.75</b>	0.0500		"	"	"	"	"	"	
Sodium	<b>71.6</b>	0.0500		"	"	"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
 Project Manager: Paul Henchan

**Reported:**  
 12/11/23 15:49

**BKG04 6'**  
**2311491-08 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/22/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.42	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/22/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	78.7		%	1	BGL0018	12/01/23	12/01/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/22/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.500	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/22/23 10:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.71		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
Project Manager: Paul Henchan

**Reported:**  
12/11/23 15:49

**BKG05 4'**  
**2311491-09 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/22/23 10:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/22/23 10:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Arsenic</b>	<b>1.73</b>	0.200	mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
<b>Barium</b>	<b>89.9</b>	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
<b>Copper</b>	<b>3.50</b>	0.400	"	"	"	"	"	"	
<b>Lead</b>	<b>5.56</b>	0.200	"	"	"	"	"	"	
<b>Nickel</b>	<b>4.03</b>	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
<b>Zinc</b>	<b>14.3</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/22/23 10:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/22/23 10:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Calcium</b>	<b>165</b>	0.0500	mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
<b>Magnesium</b>	<b>11.7</b>	0.0500	"	"	"	"	"	"	
<b>Sodium</b>	<b>46.4</b>	0.0500	"	"	"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
 Project Manager: Paul Henchan

**Reported:**  
 12/11/23 15:49

**BKG05 4'**  
**2311491-09 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/22/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	<b>0.939</b>	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/22/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	<b>89.4</b>		%	1	BGL0018	12/01/23	12/01/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/22/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	<b>0.322</b>	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/22/23 10:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	<b>8.84</b>		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

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PO Box 1289  
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
Project Manager: Paul Henchan

**Reported:**  
12/11/23 15:49

**BKG05 6'**  
**2311491-10 (Soil)**

**Summit Scientific**

**Total Metals by EPA 6020B Hot Water Soluble Extraction**

Date Sampled: **11/22/23 10:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Boron	ND	2.00	mg/L	1	BGK1122	11/30/23	12/06/23	EPA 6020B	

**Total Metals by EPA 6020B**

Date Sampled: **11/22/23 10:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	<b>5.00</b>	0.200	mg/kg dry	1	BGL0084	12/04/23	12/06/23	EPA 6020B	
Barium	<b>117</b>	0.400	"	"	"	"	"	"	
Cadmium	<b>0.342</b>	0.200	"	"	"	"	"	"	
Copper	<b>9.98</b>	0.400	"	"	"	"	"	"	
Lead	<b>15.0</b>	0.200	"	"	"	"	"	"	
Nickel	<b>7.60</b>	0.400	"	"	"	"	"	"	
Silver	<b>0.0622</b>	0.0200	"	"	"	"	"	"	
Zinc	<b>30.6</b>	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

**Hexavalent Chromium by EPA Method 7196**

Date Sampled: **11/22/23 10:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BGK1082	11/29/23	12/01/23	EPA 7196A	

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

Date Sampled: **11/22/23 10:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	<b>64.1</b>	0.0500	mg/L dry	1	BGL0283	12/07/23	12/09/23	EPA 6020B	
Magnesium	<b>8.94</b>	0.0500	"	"	"	"	"	"	
Sodium	<b>92.5</b>	0.0500	"	"	"	"	"	"	

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
 Project Manager: Paul Henchan

**Reported:**  
 12/11/23 15:49

**BKG05 6'**  
**2311491-10 (Soil)**

**Summit Scientific**

**Calculated Analysis**

Date Sampled: **11/22/23 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.87	0.00100	units	1	BGL0370	12/11/23	12/11/23	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **11/22/23 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	73.3		%	1	BGL0018	12/01/23	12/01/23	Calculation	

**Specific Conductance by EPA Method 120.1, Saturated Paste Extraction**

Date Sampled: **11/22/23 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.500	0.0100	mmhos/cm	1	BGL0291	12/08/23	12/08/23	EPA 120.1	

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

Date Sampled: **11/22/23 10:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.72		pH Units	1	BGL0290	12/08/23	12/08/23	EPA 9045D	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
 Project Manager: Paul Henchan

**Reported:**  
 12/11/23 15:49

**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 BGK1122 - EPA 3050B**

**Blank (BGK1122-BLK1)**

Prepared: 11/30/23 Analyzed: 12/06/23

Boron ND 2.00 mg/L

**LCS (BGK1122-BS1)**

Prepared: 11/30/23 Analyzed: 12/06/23

Boron 5.10 2.00 mg/L 5.00 102 80-120

**Duplicate (BGK1122-DUP1)**

**Source: 2311488-01**

Prepared: 11/30/23 Analyzed: 12/06/23

Boron 0.150 2.00 mg/L 0.155 3.33 20

**Matrix Spike (BGK1122-MS1)**

**Source: 2311488-01**

Prepared: 11/30/23 Analyzed: 12/06/23

Boron 5.46 2.00 mg/L 5.00 0.155 106 75-125

**Matrix Spike Dup (BGK1122-MSD1)**

**Source: 2311488-01**

Prepared: 11/30/23 Analyzed: 12/06/23

Boron 5.70 2.00 mg/L 5.00 0.155 111 75-125 4.27 25

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lehfeldt C27-15

Project Number: CO22-207  
Project Manager: Paul Henchan

**Reported:**  
12/11/23 15:49

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGL0084 - EPA 3050B**

**Blank (BGL0084-BLK1)**

Prepared: 12/04/23 Analyzed: 12/06/23

Arsenic	ND	0.200	mg/kg wet							
Barium	ND	0.400	"							
Cadmium	ND	0.200	"							
Copper	ND	0.400	"							
Lead	ND	0.200	"							
Nickel	ND	0.400	"							
Silver	ND	0.0200	"							
Zinc	ND	0.400	"							
Selenium	ND	0.260	"							

**LCS (BGL0084-BS1)**

Prepared: 12/04/23 Analyzed: 12/06/23

Arsenic	34.6	0.200	mg/kg wet	40.0	86.4	80-120
Barium	37.0	0.400	"	40.0	92.4	80-120
Cadmium	1.89	0.200	"	2.00	94.4	80-120
Copper	44.1	0.400	"	40.0	110	80-120
Lead	18.9	0.200	"	20.0	94.3	80-120
Nickel	42.0	0.400	"	40.0	105	80-120
Silver	1.87	0.0200	"	2.00	93.6	80-120
Zinc	41.9	0.400	"	40.0	105	80-120
Selenium	3.99	0.260	"	4.00	99.8	80-120

**Duplicate (BGL0084-DUP1)**

Source: 2311491-01

Prepared: 12/04/23 Analyzed: 12/06/23

Arsenic	2.16	0.200	mg/kg dry	2.38	9.81	20	
Barium	88.0	0.400	"	109	21.3	20	QR-04
Cadmium	0.127	0.200	"	0.134	5.25	20	
Copper	4.63	0.400	"	5.02	8.08	20	
Lead	5.90	0.200	"	6.27	6.09	20	
Nickel	4.32	0.400	"	5.62	26.3	20	QR-04
Silver	0.0278	0.0200	"	0.0337	19.3	20	
Zinc	15.3	0.400	"	16.3	6.51	20	
Selenium	ND	0.260	"	ND		20	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
Project Manager: Paul Henchan

**Reported:**  
12/11/23 15:49

**Total Metals by EPA 6020B - Quality Control**  
**Summit Scientific**

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

**Batch BGL0084 - EPA 3050B**

**Matrix Spike (BGL0084-MS1)**

Source: 2311491-01

Prepared: 12/04/23 Analyzed: 12/06/23

Arsenic	41.6	0.200	mg/kg dry	45.6	2.38	86.1	75-125			
Barium	118	0.400	"	45.6	109	19.0	75-125			QM-07
Cadmium	2.31	0.200	"	2.28	0.134	95.4	75-125			
Copper	37.6	0.400	"	45.6	5.02	71.5	75-125			QM-07
Lead	27.0	0.200	"	22.8	6.27	91.0	75-125			
Nickel	35.8	0.400	"	45.6	5.62	66.2	75-125			QM-07
Silver	2.20	0.0200	"	2.28	0.0337	95.0	75-125			
Zinc	46.6	0.400	"	45.6	16.3	66.4	75-125			QM-07
Selenium	4.16	0.260	"	4.56	ND	91.2	75-125			

**Matrix Spike Dup (BGL0084-MSD1)**

Source: 2311491-01

Prepared: 12/04/23 Analyzed: 12/06/23

Arsenic	41.3	0.200	mg/kg dry	45.6	2.38	85.5	75-125	0.723	25	
Barium	117	0.400	"	45.6	109	17.4	75-125	0.634	25	QM-07
Cadmium	2.31	0.200	"	2.28	0.134	95.7	75-125	0.355	25	
Copper	38.3	0.400	"	45.6	5.02	73.1	75-125	1.93	25	QM-07
Lead	27.2	0.200	"	22.8	6.27	91.8	75-125	0.678	25	
Nickel	36.4	0.400	"	45.6	5.62	67.6	75-125	1.77	25	QM-07
Silver	2.20	0.0200	"	2.28	0.0337	94.9	75-125	0.0829	25	
Zinc	47.6	0.400	"	45.6	16.3	68.6	75-125	2.15	25	QM-07
Selenium	4.38	0.260	"	4.56	ND	96.2	75-125	5.30	25	

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lehfeldt C27-15

Project Number: CO22-207  
 Project Manager: Paul Henchan

**Reported:**  
 12/11/23 15:49

**Hexavalent Chromium by EPA Method 7196 - Quality Control**  
**Summit Scientific**

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

**Batch BGK1082 - 3060A Mod**

**Blank (BGK1082-BLK1)**

Prepared: 11/29/23 Analyzed: 12/01/23

Chromium, Hexavalent      ND      0.30    mg/kg wet

**LCS (BGK1082-BS1)**

Prepared: 11/29/23 Analyzed: 12/01/23

Chromium, Hexavalent      26.0      0.30    mg/kg wet      25.0      104      80-120

**Duplicate (BGK1082-DUP1)**

**Source: 2311488-01**

Prepared: 11/29/23 Analyzed: 12/01/23

Chromium, Hexavalent      ND      0.30    mg/kg dry      ND      20

**Matrix Spike (BGK1082-MS1)**

**Source: 2311488-01**

Prepared: 11/29/23 Analyzed: 12/01/23

Chromium, Hexavalent      31.3      0.30    mg/kg dry      31.2      ND      100      75-125

**Matrix Spike Dup (BGK1082-MSD1)**

**Source: 2311488-01**

Prepared: 11/29/23 Analyzed: 12/01/23

Chromium, Hexavalent      31.3      0.30    mg/kg dry      31.2      ND      100      75-125      0.00      20

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
 Project Manager: Paul Henchan

**Reported:**  
 12/11/23 15:49

**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 BGL0283 - General Preparation**

**Blank (BGL0283-BLK1)**

Prepared: 12/07/23 Analyzed: 12/09/23

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

**LCS (BGL0283-BS1)**

Prepared: 12/07/23 Analyzed: 12/09/23

Calcium	5.60	0.0500	mg/L wet	5.00		112	70-130			
Magnesium	4.79	0.0500	"	5.00		95.8	70-130			
Sodium	4.68	0.0500	"	5.00		93.6	70-130			

Summit Scientific

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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
 Project Manager: Paul Henchan

**Reported:**  
 12/11/23 15:49

**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 BGL0018 - General Preparation**


**Duplicate (BGL0018-DUP1)**

**Source: 2311490-01**

Prepared & Analyzed: 12/01/23

% Solids	77.8		%		79.0			1.52	20	
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Summit Scientific



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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
 Project Manager: Paul Henchan

**Reported:**  
 12/11/23 15:49

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

**Summit Scientific**

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

**Batch BGL0291 - General Preparation**

**Blank (BGL0291-BLK1)**

Prepared & Analyzed: 12/08/23

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (BGL0291-BS1)**

Prepared & Analyzed: 12/08/23

Specific Conductance (EC) 0.153 0.0100 mmhos/cm 0.150 102 95-105

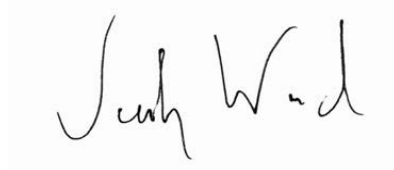
**Duplicate (BGL0291-DUP1)**

Source: 2311490-01

Prepared & Analyzed: 12/08/23

Specific Conductance (EC) 0.356 0.0100 mmhos/cm 0.356 0.00 20

Summit Scientific



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Fremont Environmental  
 PO Box 1289  
 Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
 Project Manager: Paul Henchan

**Reported:**  
 12/11/23 15:49

**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 BGL0290 - General Preparation**

**LCS (BGL0290-BS1)**

Prepared & Analyzed: 12/08/23

pH 9.07 pH Units 9.18 98.8 95-105

**Duplicate (BGL0290-DUP1)**

Source: 2311490-01

Prepared & Analyzed: 12/08/23

pH 8.86 pH Units 8.86 0.00 20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Lehfeltd C27-15

Project Number: CO22-207  
Project Manager: Paul Henchan

**Reported:**  
12/11/23 15:49

### 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.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference