

# **FREMONT ENVIRONMENTAL INC.**

November 7, 2024

Mr. Daniel Peterson  
Noble Energy Inc.  
2115 117<sup>th</sup> Avenue  
Greeley, CO 80634

Subject:           **Facility Closure Data Submittal**  
Gollner T4N-R67W-S27 L02  
NWNE Sec. 27, T4N, R67W  
Weld County, Colorado  
Fremont Project No. C024-139  
Facility # 328418, Remediation # 31728

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted facility closure activities for the Noble Energy Inc. (Noble) Gollner T4N-R67W-S27 L02. Impacted soil was encountered during decommissioning activities. Details of the Gollner T4N-R67W-S27 L02 facility closure activities are documented in the attached Closure Report. Groundwater was not encountered during facility decommissioning activities.

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

Sincerely,

**FREMONT ENVIRONMENTAL INC.**



Stanley Gilbert  
Environmental Scientist

Attachments:  
Facility Closure Checklist  
Tables  
Figures  
Photos

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

# Tank Battery Closure Checklist

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

Additional attachments (optional):	<input type="checkbox"/>	Pit Closure	<input type="checkbox"/>	Wellhead Closure	<input type="checkbox"/>	Flowline Closure	<input checked="" type="checkbox"/>	Partially Buried Vault Closure
Site Name & COGCC Facility Number: Gollner T4N-R67W-S27 L02 Facility# 328418		Date: 7/10/2024						Remediation Project #: 31728
Associated Wells: Gollner O 27-07 API:05-123-15972		Age of Site: 1993						Number of Photos Attached: See Attached
Location: (GPS coordinates of southeaster berm) 40.288843, -104.871761		Estimated Facility Size (acres): ~1 Acre						
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) <b>Good housekeeping. General condition for all the on-site equipment looked fine. Waste management well maintained.</b>								
USCS Soil Type: CL					Estimated Depth to Groundwater: >5'			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <b>None observed</b>								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <b>None observed</b>								
<b>Tanks</b>								
Tank Contents	OIL							
Size (barrels)	400							
Age	1993							
Construction Material	Steel							
Tank type (AST/DRU, etc.)	AST							
Visual Integrity of Tank	Good							
Condition of tank footprint	Good							
PID Readings	Highest PID 5.5ppm							
Soil impacts present at valves or hatches?	No							
PID Readings	See attached							
Sample taken? Location/ Sample ID#	Yes, see attached							
Photo Number(s)	See attached							
Other observations regarding tanks:								
<b>Separators</b>								
Separator size	Unknown							
Vertical or Horizontal	Horizontal							
Age	1993							
Soil impacts observed? If yes,	No							
PID Readings	High 0.0ppm							
Sample taken? Location/ Sample ID#	Yes, see attached							
Photo Number(s)	See attached							
Other observations regarding separators								
<b>Third Party Equipment</b>								
Type	Meter House							
Age	1993							

Third Party	Unknown													
Removal Date	Still present													
Sample taken?	Yes, see attached													
PID Readings	0.0ppm													
Photo Number(s)	See attached													
<b>Other Facility Equipment</b>														
Equipment type	Flare	Flare												
Equipment Condition	Good	Good												
Age	1993	1993												
Soil impacts observed during	N/A	N/A												
PID Readings	High 0.0ppm	High 0.2ppm												
Sample taken?	Yes, see attached	Yes, see attached												
Photo Number(s)	See attached	See attached												
Other observations regarding other facility or third party equipment:														
<b>Summary</b>														
Was impacted soil identified? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards														
Total number of samples field screened: 3					Total number of samples collected: 5									
Highest PID Reading: 5.5ppm (AST-0.5ft)					Total number of samples submitted to lab for analysis: 2									
If more than 10 cubic yards of impacted soil were observed:														
Vertical extent:					Estimated spill volume:									
Lateral extent:					Volume of soil removed:									
Is additional investigation required? No														
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	<b>X</b>	Tank Battery Closure
Site Name & COGCC Facility Number: Gollner T4N-R67W-S27 L02 Facility# 328418		Date: <b>7/10/2024</b>						Remediation Project #: <b>31728</b>
Associated Wells: <small>Gollner O 27-07 API:05-123-15972</small>		Age of Site: <b>1993</b>						Number of Photos Attached: See Attached
Location: (GPS coordinates of vault or southeastern tank berm for multiple)							<b>40.288843, -104.871761</b>	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) <b>Good housekeeping. General condition for all the on-site equipment looked fine. Waste management well maintained.</b>								
USCS Soil Type: <b>CL</b>					Estimated Depth to Groundwater: <b>&gt;5'</b>			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <b>Impacts identified at sample locations PWV E-4FT and PWV B-5FT</b>								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <b>None observed</b>								
<b>Buried or Partially Buried Vessels</b>								
Tank Contents	Produced water							
Size (barrels)	100							
Age	1993							
Construction Material	concrete							
Visual Integrity of Tank	Good							
Condition of tank foundation	Good							
PID Readings	Highest PID 2410ppm							
Condition of dump line	Good							
PID Readings	See attached							
Sample taken? Location/Sample ID#	Yes, see attached							
Photo Number(s)	See attached							
Other observations regarding partially buried vessels: The eastern sidewall of PWV excavation was the tie-in point for the dumpline to the separator. Dumplines were pulled								
<b>Summary</b>								
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: <b>3</b>					Total number of samples collected: <b>5</b>			
Highest PID Reading: 2410ppm (PWV E-4Ft)					Total number of samples submitted to lab for analysis: <b>2</b>			
If more than 10 cubic yards of impacted soil were observed:								
Vertical extent: Unknown					Estimated spill volume: Unknown			
Lateral extent: Unknown					Volume of soil removed: Impacts left in place			
Is additional investigation required? <b>Yes, additional investigation is required</b>								
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:								

**TABLE 1**  
**FIELD DATA SUMMARY TABLE**  
**NOBLE 100322**  
**GOLLNER T4N-R67W-S27 L02, WELD COUNTY, COLORADO**  
**REM # 31728**

Sample ID	Sample Date	Depth (ft)	GPS Data Latitude/Longitude		PDOP Value	VOC Concentration (ppm)
AST-0.5FT	07/10/2024	0.5FT	40.2885875	-104.8716729	0.8	5.5
FLARE01-0.5FT	07/10/2024	0.5FT	40.2888304	-104.8716428	1.0	0.2
FLARE02-0.5FT	07/10/2024	0.5FT	40.2888959	-104.8717324	0.9	0.0
MH-05FT	07/10/2024	0.5FT	40.2888060	-104.8717049	1.0	0.0
SEP DL-3FT	07/10/2024	3FT	40.2888030	-104.8717276	0.9	0.0
PWV N-4FT	07/10/2024	4FT	40.2886453	-104.8717090	-	0.0
PWV S-4FT	07/10/2024	4FT	40.2886046	-104.8717032	0.8	14.5
PWV E-4FT	07/10/2024	4FT	40.2886269	-104.8716757	0.8	2410
PWV W-4FT	07/10/2024	4FT	40.2886225	-104.8717371	-	0.0
PWV B-5FT	07/10/2024	5FT	40.2886258	-104.8716993	1.0	0.6
FL01 SEP-5Ft	07/10/2024	5FT	40.2888290	-104.8717450	-	0.0
BKG01	07/10/2024	0.5FT, 3FT, 4FT, 5FT	40.2884648	-104.8715457	0.9	0.0
BKG02	07/10/2024	0.5FT, 3FT, 4FT, 5FT	40.2882687	-104.8715296	0.9	0.0
BKG03	07/10/2024	0.5FT, 3FT, 4FT, 5FT	40.2882123	-104.8716846	0.9	0.0
BKG04	07/10/2024	0.5FT, 3FT, 4FT, 5FT	40.2882175	-104.8719018	0.9	0.0
BKG05	07/10/2024	0.5FT, 3FT, 4FT, 5FT	40.2884240	-104.8719469	0.9	0.0
BKG06	07/10/2024	0.5FT, 3FT, 4FT, 5FT	40.2851231	-104.8751631	0.9	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

TABLE 2  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
NOBLE 100322  
GOLLNER T4N-R67W-S27 L02, WELD COUNTY, COLORADO  
REM # 31728

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**		
AST-0.5FT	07/10/2024	0.5FT	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SEP FL-3FT	07/10/2024	3FT	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
PWV E-4FT	07/10/2024	4FT	<0.0020	<0.0050	0.06	5.2	6.7	4.3	0.16	2430	290	1900	240
PWV B-5FT	07/10/2024	5FT	<0.0020	<0.0050	<0.0050	<0.010	0.014	0.0089	<0.0038	<500	<0.50	95	<50
FL01 SEP-5Ft	07/10/2024	5FT	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50

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
- (<) = Analytical result is less than the indicated laboratory reporting limit.  
TPH-GRO = Total petroleum hydrocarbons - gasoline range organics  
TPH-DRO = Total petroleum hydrocarbons - diesel range organics  
TPH-ORO = Total petroleum hydrocarbons - oil range organics  
mg/kg = Milligrams per kilogram  
ft. = Feet  
bgs = Below ground surface  
NA - Not analyzed

TABLE 3  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
NOBLE 100322  
GOLLNER T4N-R67W-S27 L02, WELD COUNTY, COLORADO  
REM # 31728

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
AST-0.5FT	07/10/2024	0.5FT	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP FL-3FT	07/10/2024	3FT	<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	0.00747
PWV E-4FT	07/10/2024	4FT	0.0565	<0.00500	<0.00500	<0.00500	0.0063	<0.00500	0.0383	<0.00500	0.0157	0.11	<0.00500	0.0452	0.691	1.97
PWV B-5FT	07/10/2024	5FT	<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	0.00555
FL01 SEP-5Ft	07/10/2024	5FT	<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

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  
(<) = Analytical result is less than the indicated laboratory reporting limit.  
TPH-GRO = Total petroleum hydrocarbons - gasoline range organics  
TPH-DRO = Total petroleum hydrocarbons - diesel range organics  
TPH-ORO = Total petroleum hydrocarbons - oil range organics  
mg/kg = Milligrams per kilogram  
ft. = Feet  
bgs = Below ground surface  
NA - Not analyzed

**TABLE 4**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE 100322**  
**GOLLNER T4N-R67W-S27 L02, WELD COUNTY, COLORADO**  
**REM # 31728**

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
AST-0.5FT	07/10/2024	0.5FT	8.57	0.0804	0.0328	<2.00
SEP FL-3FT	07/10/2024	3FT	8.72	0.350	1.24	<2.00
PWV E-4FT	07/10/2024	4FT	9.01	0.147	0.944	<2.00
PWV B-5FT	07/10/2024	5FT	8.35	0.579	3.76	<2.00
FL01 SEP-5FT	07/10/2024	5FT	8.62	0.204	0.925	<2.00
BKG01-0.5FT	07/10/2024	0.5FT	8.71	0.0962	0.314	<2.00
BKG02-0.5FT	07/10/2024	0.5FT	8.89	0.0809	0.289	<2.00
BKG03-0.5FT	07/10/2024	0.5FT	8.85	0.212	1.14	<2.00
BKG04-0.5FT	07/10/2024	0.5FT	8.92	0.165	0.660	<2.00
BKG05-0.5FT	07/10/2024	0.5FT	8.15	0.392	0.590	<2.00
BKG06-0.5FT	07/10/2024	0.5FT	8.58	0.177	0.566	<2.00
BKG01-3FT	07/10/2024	3FT	8.90	0.134	0.136	<2.00
BKG02-3FT	07/10/2024	3FT	9.05	0.112	0.137	<2.00
BKG03-3FT	07/10/2024	3FT	8.96	0.117	0.138	<2.00
BKG04-3FT	07/10/2024	3FT	8.81	0.124	0.0995	<2.00
BKG05-3FT	07/10/2024	3FT	9.23	0.0747	0.0558	<2.00
BKG06-3FT	07/10/2024	3FT	8.80	0.149	0.110	<2.00
BKG01-4FT	07/10/2024	4FT	9.10	0.124	0.199	<2.00
BKG02-4FT	07/10/2024	4FT	9.12	0.102	0.130	<2.00
BKG03-4FT	07/10/2024	4FT	8.61	0.194	0.231	<2.00
BKG04-4FT	07/10/2024	4FT	8.99	0.102	0.143	<2.00
BKG05-4FT	07/10/2024	4FT	8.70	0.136	0.148	<2.00



TABLE 4  
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION  
NOBLE 100322  
GOLLNER T4N-R67W-S27 L02, WELD COUNTY, COLORADO  
REM # 31728

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
BKG06-4FT	07/10/2024	4FT	8.84	0.155	0.241	<2.00
BKG01-5FT	07/10/2024	5FT	8.87	0.179	0.329	<2.00
BKG02-5FT	07/10/2024	5FT	8.85	0.167	0.275	<2.00
BKG03-5FT	07/10/2024	5FT	9.07	0.141	0.233	<2.00
BKG04-5FT	07/10/2024	5FT	8.90	0.119	0.191	<2.00
BKG05-5FT	07/10/2024	5FT	8.84	0.132	0.181	<2.00
BKG06-5FT	07/10/2024	5FT	8.88	0.169	0.334	<2.00
Maximum Background Concentration		0.5FT	8.92	0.392	1.14	<2.00
Maximum Background Concentration		3FT	9.23	0.149	0.138	<2.00
Maximum Background Concentration		4FT	9.12	0.194	0.241	<2.00
Maximum Background Concentration		5FT	9.07	0.179	0.334	<2.00

1. **Bold** faced values exceed the ECMC Table 915-1 limit(s), but are within background concentrations.

2. **Bold** faced values exceed the ECMC Table 915-1 limit(s) and native background concentrations.

3. Brown highlighted soil analytical values indicate a regulatory exceedance.

NA - Not analyzed/Not applicable

TABLE 5  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
NOBLE 100322  
GOLLNER T4N-R67W-S27 L02, WELD COUNTY, COLORADO  
REM # 31728

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
AST-0.5FT	07/10/2024	0.5FT	6.02	187	0.425	<0.30	7.12	14.2	7.29	<0.260	0.0631	25.6
SEP FL-3FT	07/10/2024	3FT	5.62	126	0.237	<0.30	6.46	9.72	6.99	<0.260	0.0743	23.4
PWV E-4FT	07/10/2024	4FT	5.17	155	0.278	<0.30	6.59	12.1	6.81	<0.260	0.0568	108
PWV B-5FT	07/10/2024	5FT	6.21	186	0.274	<0.30	5.92	9.99	6.23	<0.260	0.0492	268
FL01 SEP-5Ft	07/10/2024	5FT	1.24	215	0.221	<0.30	6.15	9.06	9.06	<0.260	0.0463	11.3

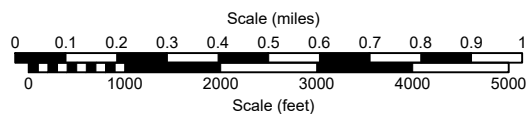
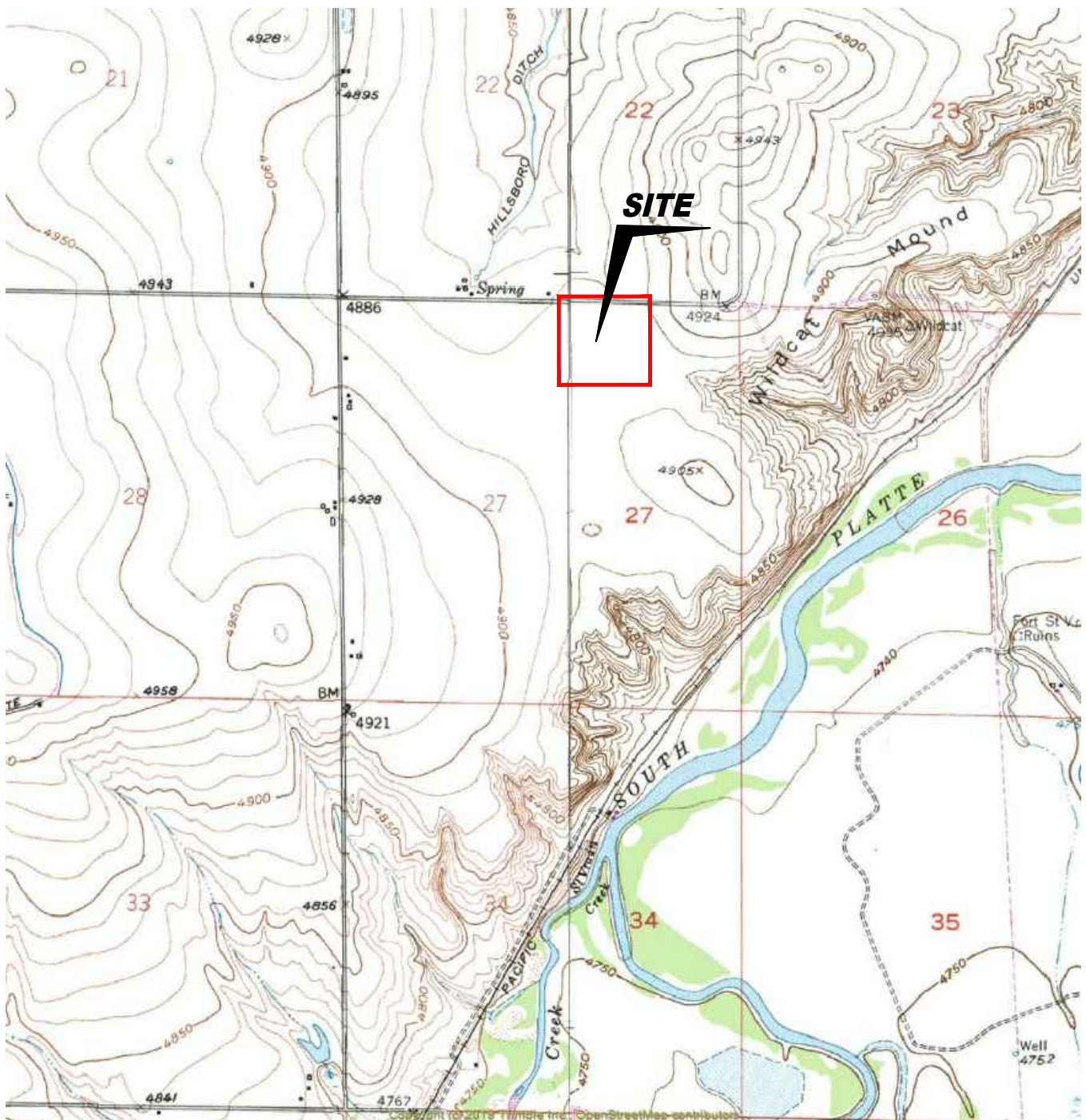
TABLE 5  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
NOBLE 100322  
GOLLNER T4N-R67W-S27 L02, WELD COUNTY, COLORADO  
REM # 31728

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
BKG01-0.5FT	07/10/2024	0.5FT	6.68	166	0.344	<0.30	6.72	14.7	7.63	<0.260	0.0882	25.0
BKG02-0.5FT	07/10/2024	0.5FT	6.21	172	0.321	<0.30	7.27	13.5	8.06	<0.260	0.0956	26.5
BKG03-0.5FT	07/10/2024	0.5FT	5.81	134	0.261	<0.30	7.03	11.3	7.38	<0.260	0.0674	26.6
BKG04-0.5FT	07/10/2024	0.5FT	6.66	147	0.326	<0.30	7.29	13.7	7.53	0.232	0.0798	28.0
BKG05-0.5FT	07/10/2024	0.5FT	6.08	153	0.337	<0.30	6.51	12.1	7.58	0.273	0.0724	25.1
BKG06-0.5FT	07/10/2024	0.5FT	5.25	134	0.275	<0.30	6.07	10.8	6.52	0.288	0.0686	24.1
BKG01-3FT	07/10/2024	3FT	5.16	428	0.301	<0.30	6.19	11.1	7.31	<0.260	0.0500	25.2
BKG02-3FT	07/10/2024	3FT	5.87	164	0.299	<0.30	6.56	10.9	7.55	<0.260	0.0757	24.7
BKG03-3FT	07/10/2024	3FT	5.73	163	0.282	<0.30	6.49	10.8	7.51	<0.260	0.0627	24.4
BKG04-3FT	07/10/2024	3FT	5.46	131	0.283	<0.30	6.20	10.4	7.47	<0.260	0.0449	24.6
BKG05-3FT	07/10/2024	3FT	5.76	126	0.288	<0.30	6.13	10.7	7.39	<0.260	0.0867	24.7
BKG06-3FT	07/10/2024	3FT	5.26	119	0.296	<0.30	5.48	9.91	6.97	<0.234	0.0459	22.8
BKG01-4FT	07/10/2024	4FT	5.12	150	0.268	<0.30	6.52	10.7	7.15	<0.260	0.0482	24.4
BKG02-4FT	07/10/2024	4FT	6.64	157	0.335	<0.30	6.60	11.3	7.59	<0.260	0.0721	24.5
BKG03-4FT	07/10/2024	4FT	5.88	245	0.296	<0.30	6.51	10.7	7.38	<0.260	0.0823	24.3
BKG04-4FT	07/10/2024	4FT	5.01	138	0.326	<0.30	7.09	25.3	6.97	<0.260	0.0598	35.7
BKG05-4FT	07/10/2024	4FT	5.40	129	0.278	<0.30	6.46	11.5	7.06	<0.236	0.0883	24.5
BKG06-4FT	07/10/2024	4FT	4.58	176	0.289	<0.30	7.16	9.92	6.45	<0.260	0.0538	29.8
BKG01-5FT	07/10/2024	5FT	5.57	253	0.305	<0.30	6.35	10.7	7.48	<0.260	0.0420	24.8
BKG02-5FT	07/10/2024	5FT	5.70	309	0.304	<0.30	6.15	10.8	7.25	<0.260	0.0480	24.1
BKG03-5FT	07/10/2024	5FT	6.03	183	0.290	<0.30	6.60	11.4	7.56	<0.260	0.0574	25.5
BKG04-5FT	07/10/2024	5FT	4.99	173	0.207	<0.30	5.85	10.2	7.30	<0.260	0.0543	23.7
BKG05-5FT	07/10/2024	5FT	4.96	143	0.216	<0.30	5.29	9.89	6.50	<0.236	0.0459	22.2

TABLE 5  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
NOBLE 100322  
GOLLNER T4N-R67W-S27 L02, WELD COUNTY, COLORADO  
REM # 31728

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
BKG06-5FT	07/10/2024	5FT	5.58	154	0.248	<0.30	6.40	11.2	7.40	<0.260	0.0432	25.0
1.25x Maximum Background Concentration		0.5FT	8.35	215	0.430	<0.30	9.11	18.4	10.1	0.360	0.120	35.0
1.25x Maximum Background Concentration		3FT	7.34	535	0.376	<0.30	8.20	13.9	9.44	<0.260	0.108	31.5
1.25x Maximum Background Concentration		4FT	8.30	306	0.419	<0.30	8.95	31.6	9.49	<0.260	0.110	44.6
1.25x Maximum Background Concentration		5FT	7.54	386	0.381	<0.30	8.25	14.3	9.45	<0.260	0.0718	31.9

1. **Bold** faced values exceed the ECMC Table 915-1 limit(s), but are within 1.25x background concentrations.
  2. **Red** faced values exceed the ECMC Table 915-1 limit(s) and native background concentrations.
  3. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL).
  4. Non-detect background results accounted for in the highest background concentration by using the reporting limit.
- ECMC = Energy & Carbon Management Commission  
(<) = Analytical result is less than the indicated laboratory reporting limit.  
mg/kg = Milligrams per kilogram  
ft. = Feet  
bgs = Below ground surface  
\* Indicates laboratory minimum detection limit in excess of SSL  
NA - Not analyzed/Not applicable



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
SITE LOCATION MAP

**Noble Energy, Inc. ~ Gollner-64N67W 27NWNE**  
 NWNE Sec. 27, T4N, R67W, 6th PM  
 Weld County, Colorado  
 40.288843°, -104.871761°

Project No. <b>CO24-139</b>	API #	Facility # <b>328418</b>
Date <b>3/13/25</b>	Remediation # <b>31728</b>	Filename <b>24139TFC</b>







#### LEGEND

▲ PID READING LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	— FENCE LINE
			CONTAINMENT BERM
			CONTAINMENT WALL

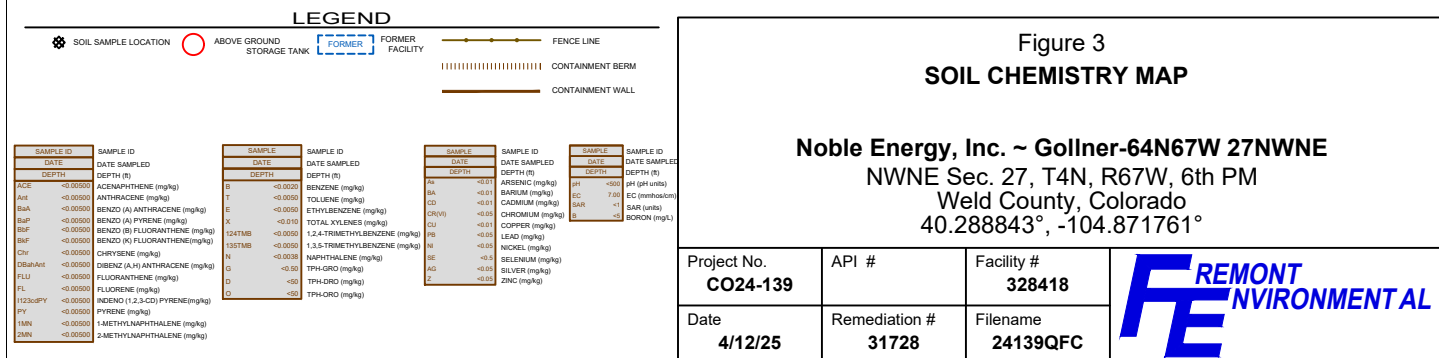
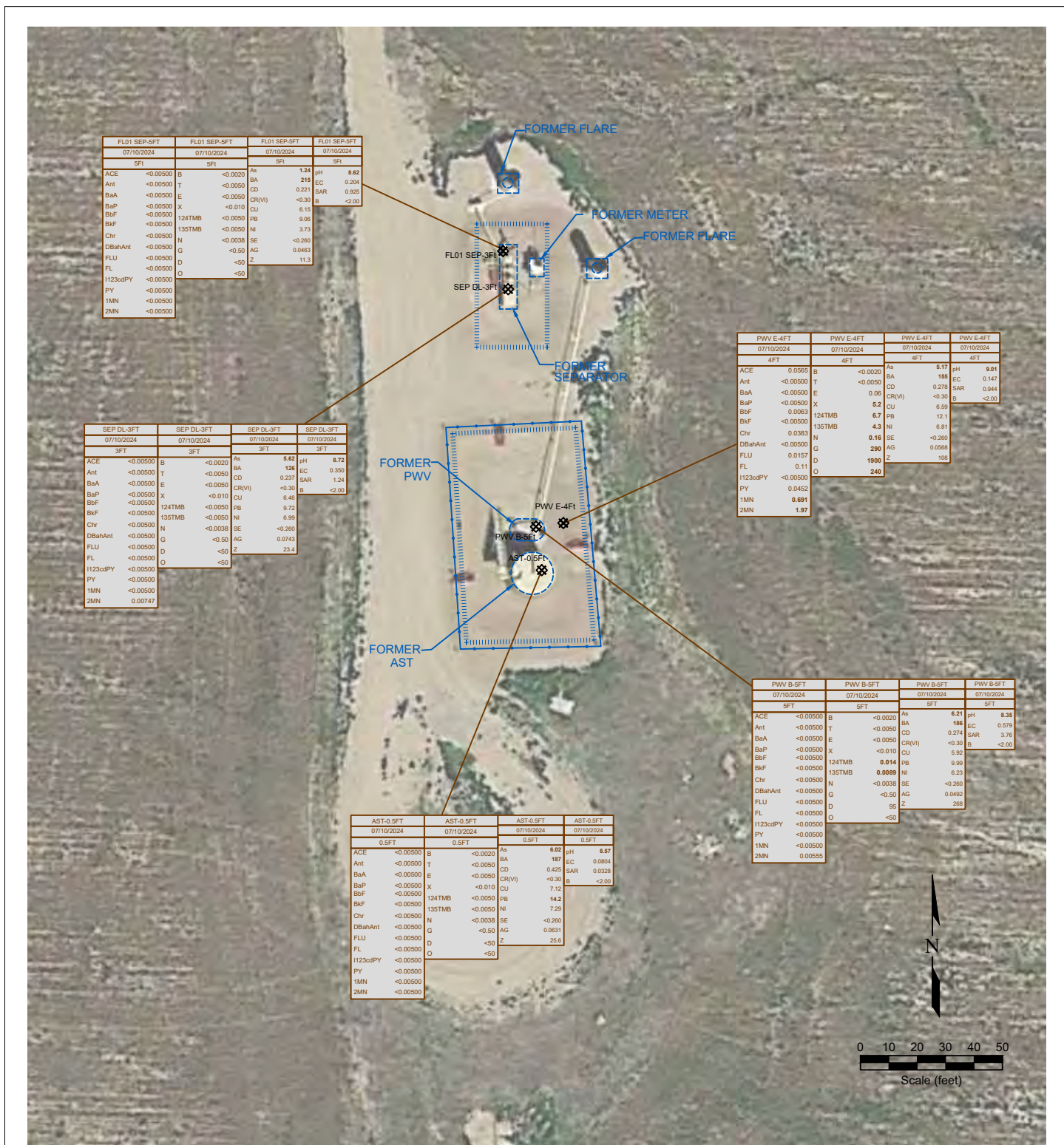
Figure 2  
SITE MAP

**Noble Energy, Inc. ~ Gollner-64N67W 27NWNE**  
 NWNE Sec. 27, T4N, R67W, 6th PM  
 Weld County, Colorado  
 40.288843°, -104.871761°

Project No. <b>CO24-139</b>	API #	Facility # <b>328418</b>
Date <b>4/12/25</b>	Remediation # <b>31728</b>	Filename <b>24139QFC</b>







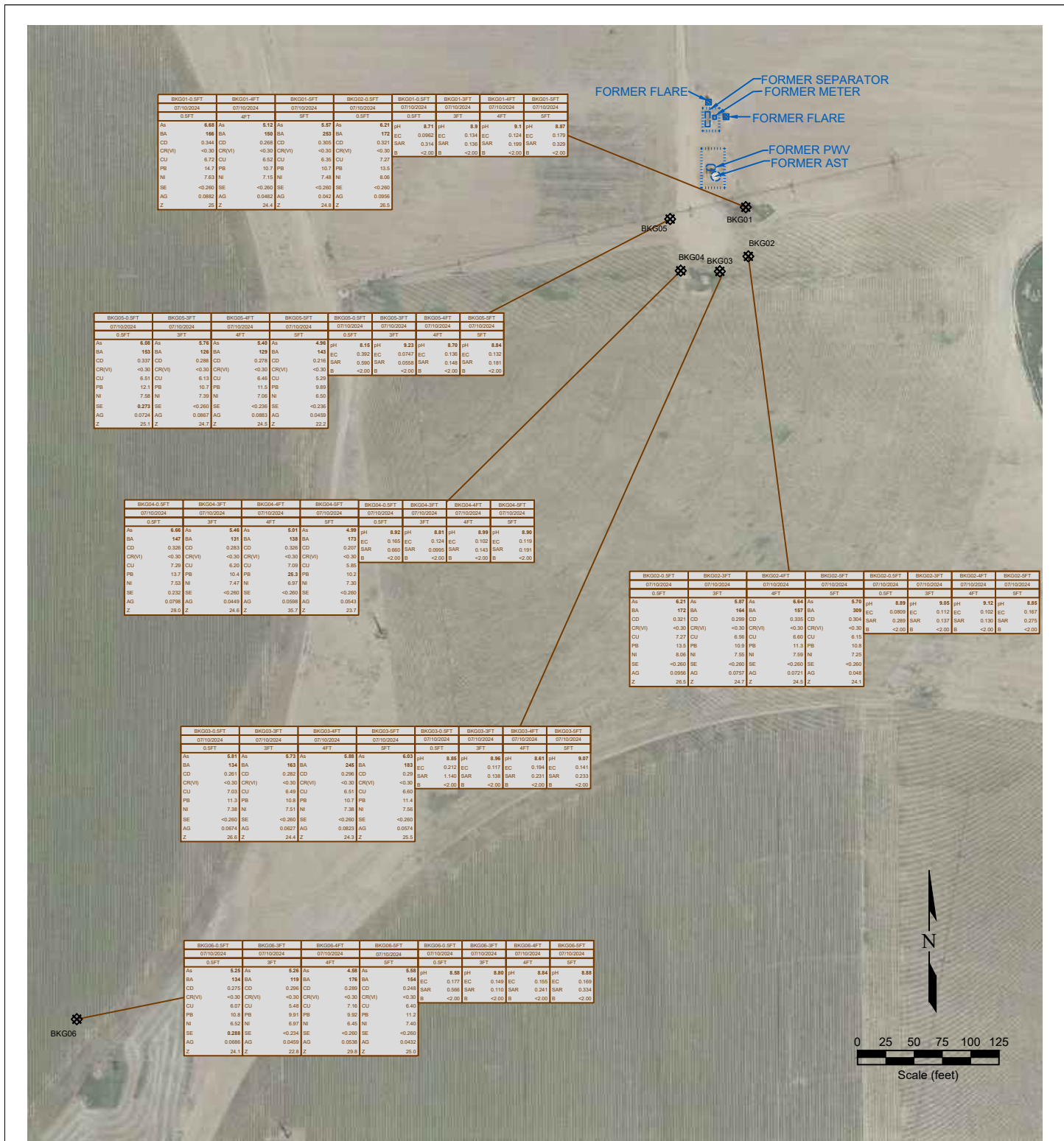


Figure 4  
**BACKGROUND SAMPLE SOIL CHEMISTRY MAP**

**Noble Energy, Inc. ~ Gollner-64N67W 27NWNE**  
 NWNE Sec. 27, T4N, R67W, 6th PM  
 Weld County, Colorado  
 40.288843°, -104.871761°

Project No. <b>CO24-139</b>	API #	Facility # <b>328418</b>	<b>REMONT ENVIRONMENTAL</b>
Date <b>3/13/25</b>	Remediation # <b>31728</b>	Filename <b>24139QFCBKG</b>	



## Photo Log



***Description:***

#1-AST-0.5Ft - No visual staining or odor





***Description:***

#2-PWV N-4Ft - No visual staining or odor



## Photo Log



***Description:***

#3-PWV E-4Ft - No visual staining, slight odor





***Description:***

#4-PWV S-4Ft - No visual staining or odor



## Photo Log



***Description:***

#5-PWV W-4Ft - No visual staining or odor





***Description:***

#6-PWV B-5Ft - No visual staining or odor



## Photo Log



***Description:***

#7-SEP DL-Ft - No visual staining or odor

## Photo Log



***Description:***

#8-Flare01-0.5Ft - No visual staining or odor



## Photo Log



***Description:***

#9-Flare02-0.5Ft - No visual staining or odor

## Photo Log



***Description:***

#10-MH-0.5Ft - No visual staining or odor