

# **FREMONT ENVIRONMENTAL INC.**

December 4, 2024

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

Subject:           **Facility Closure Data Submittal**  
Wells Ranch USX AE T6N-R62W-S29 L02  
SWSW Sec. 29, T6N, R62W  
Weld County, Colorado  
Fremont Project No. C024-231  
Facility # 428526, Remediation # 31012

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted facility closure activities for the Noble Energy Inc. (Noble) Wells Ranch USX AE T6N-R62W-S29 L02. Impacted soil was encountered during decommissioning activities. Details of the Wells Ranch USX AE T6N-R62W-S29 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: WELLS RANCH USX AE T6N-R62W-S29 L02 Facility# 428526		Date: 10/10/2024		Remediation Project #: 31012				
Associated Wells: WELLS RANCH USX AE 29-62-1HN API:05-123-35395		Age of Site: 2012		Number of Photos Attached: 40				
Location: (GPS coordinates of southeaster berm) 40.452389, -104.355485							Estimated Facility Size (acres): ~1 Acre	

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)

**Good housekeeping. General condition for all the on-site equipment looked fine. Waste management well maintained.**

USCS Soil Type: SC	Estimated Depth to Groundwater: >6'
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Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

Impacts were discovered at sample location SEP03 DL-3FT. Refer to the organic soil chemistry table (Table 2) and the polycyclic aromatic hydrocarbon soil chemistry table (Table 3) for reference. Soil impacts were left in place. Further investigation is required.

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

**None observed**

#### Tanks

Tank Contents	OIL	OIL							
Size (barrels)	500	500							
Age	2012	2012							
Construction Material	Fiberglass	Steel							
Tank type (AST/DRV, etc.)	AST	AST							
Visual Integrity of Tank	Good	Good							
Condition of tank feet/welds	Good	Good							
PID Readings	Highest PID 0.7ppm	Highest PID 2.8ppm							
Soil impacts present at valves or hatches?	No	No							
PID Readings	See attached	See attached							
Sample taken? Location/ Sample ID#	Yes, see attached	Yes, see attached							
Photo Number(s)	See attached	See attached							

Other observations regarding tanks:

#### Separators

Separator size	Unknown	Unknown	Unknown	Unknown					
Vertical or Horizontal	Horizontal	Horizontal	Horizontal	Horizontal					
Age	2012	2012	2012	2012					
Soil impacts observed? If yes.	No	No	No	No					
PID Readings	High 1.1ppm	High 2.7ppm	High 18.6ppm	High 0.4ppm					
Sample taken? Location/ Sample ID#	Yes, see attached	Yes, see attached	Yes, see attached	Yes, see attached					
Photo Number(s)	See attached	See attached	See attached	See attached					

Other observations regarding separators:

#### Third Party Equipment

Type	Meter house	Meter house							
Age	2012	2012							

Third Party Owner	Unknown	Unknown							
Removal Date	Still present	Still present							
Sample taken? Location/Container	Yes, see attached	Yes, see attached							
PID Readings	High 0.0ppm	High 0.2ppm							
Photo Number(s)	See attached	See attached							

### Other Facility Equipment

Equipment type	Flare	Flare	Flare	Compressor	
Equipment Condition	Good	Good	Good	Good	
Age	2012	2012	2012	2012	
Soil impacts Location/Depth	N/A	N/A	N/A	N/A	
PID Readings	High 0.0ppm	High 0.5ppm	High 0.2ppm	High 0.0ppm	
Sample taken? Location/Container	Yes, see attached	Yes, see attached	Yes, see attached	Yes, see attached	
Photo Number(s)	See attached	See attached	See attached	See attached	

Other observations regarding other facility or third party equipment:

### Summary

Was impacted soil identified?	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes - less than 10 cubic yards	<input type="checkbox"/> Yes - more than 10 cubic yards
Total number of samples field screened:	5		Total number of samples collected: 31
Highest PID Reading:	18.6ppm (SEP03 DL01-3Ft)		Total number of samples submitted to lab for analysis: 26
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	<b>X</b>	Wellhead Closure		Flowline Closure		Tank Battery Closure	
Site Name & COGCC Facility Number: WELLS RANCH USX AE T6N-R62W-S29 L02 Facility# 428526		Date: <b>10/10/2024</b>				Remediation Project #: <b>31012</b>			
Associated Wells: WELLS RANCH USX AE 29-62-1HN		Age of Site: <b>2012</b>				Number of Photos Attached: <b>40</b>			
Location: (GPS coordinates of vault or southeastern tank berm for multiple)						<b>40.452389, -104.355485</b>		Estimated Facility Size (acres): <b>~1 Acre</b>	

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)  
**Good housekeeping. General condition for all the on-site equipment looked fine. Waste management well maintained.**

USCS Soil Type: <b>CL</b>	Estimated Depth to Groundwater: <b>&gt;6'</b>
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Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
 Impacts were discovered at sample locations PWV01B - 6FT, PWV01E - 5FT, PWV01S - 5FT, PWV02 B-6FT. Refer to the organic soil chemistry table (Table 2) and the polycyclic aromatic hydrocarbon soil chemistry table (Table 3) for reference. Soil impacts were left in place. Further investigation is required.

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  
**None observed**

#### Buried or Partially Buried Vessels

Tank Contents	Produced water	Produced water							
Size (barrels)	250	250							
Age	2012	2012							
Construction Material	concrete	concrete							
Visual Integrity of Tank	Good	Good							
Condition of tank	Good	Good							
PID Readings	Highest PID 687.3ppm	Highest PID 46.0ppm							
Condition of Dumpline	Good	Good							
PID Readings	See attached	See attached							
Sample taken? Location/Sample ID#	Yes, see attached	Yes, see attached							
Photo Number(s)	See attached	See attached							

Other observations regarding partially buried vessels:  
 The north sidewall of PWV excavation was the tie-in point for the dumpline to the separator. Dumplines were pulled

#### Summary

Was impacted soil identified?		<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes - less than 10 cubic yards	<input type="checkbox"/> Yes - more than 10 cubic yards
Total number of samples field screened: <b>5</b>		Total number of samples collected: <b>10</b>		
Highest PID Reading: <b>687.3ppm (PWV01 S-5Ft)</b>		Total number of samples submitted to lab for analysis: <b>5</b>		
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? <b>Yes</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**  
**WELLS RANCH USX AE T6N-R62W-S29 L02, WELD COUNTY, COLORADO**  
**REM # 31012**

Sample ID	Sample Date	Depth (ft)	GPS Data		PDOP Value	VOC Concentration (ppm)
			Latitude/Longitude			
AST01-0.5FT	10/7/2024	0.5	40.4520765	-104.3553989	-	1.0
AST02-0.5FT	10/7/2024	0.5	40.4520314	-104.3554022	-	0.6
AST03-0.5FT	10/7/2024	0.5	40.4519898	-104.3554001	1.10	1.0
AST04-0.5FT	10/7/2024	0.5	40.4519498	-104.3554050	-	0.4
AST05-0.5FT	10/7/2024	0.5	40.4519106	-104.3554066	-	0.2
AST06-0.5FT	10/7/2024	0.5	40.4518741	-104.3554841	-	0.3
AST07-0.5FT	10/7/2024	0.5	40.4518296	-104.3554894	-	0.5
AST08-0.5FT	10/7/2024	0.5	40.4517902	-104.3554869	-	0.1
Compressor-2FT	10/7/2024	2.0	40.4524253	-104.3553134	-	0.0
FLARE01-0.5FT	10/7/2024	0.5	40.4524392	-104.3554885	-	0.0
FLARE02-0.5FT	10/7/2024	0.5	40.4524414	-104.3554505	0.90	0.5
FLARE03-0.5FT	10/7/2024	0.5	40.4524413	-104.3554068	0.90	0.2
MH01-0.5FT	10/7/2024	0.5	40.4523504	-104.3555025	0.80	0.0
MH02-0.5FT	10/7/2024	0.5	40.4523606	-104.3555016		0.2
PWV01 B-6FT	10/7/2024	6.0	40.4521596	-104.3554587		409.2
PWV01 E-5FT	10/7/2024	5.0	40.4521603	-104.3554321	1.00	398.8
PWV01 N-5FT	10/7/2024	5.0	40.4521840	-104.3554581		8.1
PWV01 S-5FT	10/7/2024	5.0	40.4521442	-104.3554614		687.3
PWV01 W-5FT	10/7/2024	5.0	40.4521600	-104.3554846	1.00	297.7
PWV02 B-6FT	10/7/2024	5.0	40.4521621	-104.3553852	1.00	46.0
PWV02 E-5FT	10/7/2024	5.0	40.4521640	-104.3553674	-	15.5
PWV02 N-5FT	10/7/2024	5.0	40.4521829	-104.3553916	1.00	7.7
PWV02 S-5FT	10/7/2024	5.0	40.4521349	-104.3553906	1.00	0.6

**TABLE 1**  
**FIELD DATA SUMMARY TABLE**  
**NOBLE 100322**  
**WELLS RANCH USX AE T6N-R62W-S29 L02, WELD COUNTY, COLORADO**  
**REM # 31012**

Sample ID	Sample Date	Depth (ft)	GPS Data		PDOP Value	VOC Concentration (ppm)
			Latitude/Longitude			
PWV02 W-5FT	10/7/2024	5.0	40.4521605	-104.3554066	1.10	0.3
SEP01 DL01-0.5FT	10/7/2024	0.5	40.4523353	-104.3553443	1.00	1.1
SEP01 DL02-0.5FT	10/7/2024	0.5	40.4523812	-104.3553308	0.90	0.6
SEP02 DL01-3FT	10/7/2024	3.0	40.4523407	-104.3553857	0.90	0.8
SEP02 DL02-0.5FT	10/7/2024	0.5	40.4523814	-104.3553784	1.00	2.7
SEP03 DL01-3FT	10/7/2024	3.0	40.4523426	-104.3554304	0.90	18.6
SEP03 FL-3FT	10/7/2024	3.0	40.4523880	-104.3554421	-	0.0
SEP04 DL01-3FT	10/7/2024	3.0	40.4523412	-104.3554713	0.90	0.4
SEP04 FL08-3FT	10/7/2024	3.0	40.4523837	-104.3554885	-	0.2
AST09 - 0.5ft	10/10/2024	0.5	40.4521146	-104.3554026	-	0.7
AST10 - 0.5ft	10/10/2024	0.5	40.4521112	-104.3554661	-	0.2
AST11 - 0.5ft	10/10/2024	0.5	40.4520738	-104.3554688	-	2.8
AST12 - 0.5ft	10/10/2024	0.5	40.4520366	-104.3554732	-	0.3
AST13 - 0.5ft	10/10/2024	0.5	40.4519964	-104.3554777	-	0.4
AST14 - 0.5ft	10/10/2024	0.5	40.4519512	-104.3554793	-	0.6
AST15 - 0.5ft	10/10/2024	0.5	40.4519115	-104.3554798	-	0.8

**TABLE 1**  
**FIELD DATA SUMMARY TABLE**  
**NOBLE 100322**  
**WELLS RANCH USX AE T6N-R62W-S29 L02, WELD COUNTY, COLORADO**  
**REM # 31012**

Sample ID	Sample Date	Depth (ft)	GPS Data		PDOP Value	VOC Concentration (ppm)
			Latitude/Longitude			
BKG01	2/23/2024	5.0, 7.0	40.4512489	-104.3550627	-	0.0
BKG02	2/23/2024	5.0, 7.0	40.4512701	-104.3544343	-	0.0
BKG04	2/23/2024	5.0, 7.0	40.4525748	-104.3543992	-	0.0
BKG05	2/23/2024	5.0, 7.0	40.4528478	-104.3552270	-	0.0
BKG01	10/10/2024	0.5, 2.0, 3.0, 4.0, 5.0, 6.0	40.4513708	-104.3552761	-	0.0
BKG02	10/10/2024	0.5, 2.0, 3.0, 4.0, 5.0, 6.0	40.4512929	-104.3544051	-	0.0
BKG03	10/10/2024	0.5, 2.0, 3.0, 4.0, 5.0, 6.0	40.4519449	-104.3536770	-	0.0
BKG04	10/10/2024	0.5, 2.0, 3.0, 4.0, 5.0, 6.0	40.4527809	-104.3546911	-	0.0
BKG05	10/10/2024	0.5, 2.0, 3.0, 4.0, 5.0, 6.0	40.4528510	-104.3552339	1.0	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  
WELLS RANCH USX AE T6N-R62W-S29 L02, WELD COUNTY, COLORADO  
REM # 31012

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**		
AST01 - 0.5FT	10/07/2024	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
AST02 - 0.5FT	10/07/2024	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
AST03 - 0.5FT	10/07/2024	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
AST04 - 0.5FT	10/07/2024	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
AST05 - 0.5FT	10/07/2024	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
AST06 - 0.5FT	10/07/2024	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
AST07 - 0.5FT	10/07/2024	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
AST08 - 0.5FT	10/07/2024	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
PWV01B - 6FT	10/09/2024	6.0	<0.0020	<0.0050	0.023	0.03	0.073	0.023	0.042	<500	<0.50	4.9	<50
PWV01E - 5FT	10/09/2024	5.0	<0.0020	<0.0050	0.055	0.13	0.15	0.04	0.056	<500	<0.50	3.8	<50
PWV01S - 5FT	10/09/2024	5.0	<0.0020	<0.0050	1.3	1.7	1.8	0.31	0.36	<500	190	240	<50
PWV02 B-6FT	10/09/2024	6.0	<0.0020	<0.0050	<0.0050	<0.010	0.0089	<0.0050	0.0044	<500	<0.50	<50	<50
PWV02 E-5FT	10/09/2024	5.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SEP01 DL01-0.5FT	10/09/2024	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SEP01 DL02-0.5FT	10/09/2024	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SEP02 DL01-3FT	10/09/2024	3.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SEP02 DL02-0.5FT	10/09/2024	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SEP03 DL-3FT	10/09/2024	3.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SEP03 FL-3FT	10/09/2024	3.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SEP04 DL-3FT	10/09/2024	3.0	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
AST09 - 0.5ft	10/10/2024	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
AST10 - 0.5ft	10/10/2024	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
AST11 - 0.5ft	10/10/2024	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
AST12 - 0.5ft	10/10/2024	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
AST13 - 0.5ft	10/10/2024	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
AST14 - 0.5ft	10/10/2024	0.5	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50

TABLE 2  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
NOBLE 100322  
WELLS RANCH USX AE T6N-R62W-S29 L02, WELD COUNTY, COLORADO  
REM # 31012

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**		
AST15 - 0.5ft	10/10/2024	0.5	<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  
WELLS RANCH USX AE T6N-R62W-S29 L02, WELD COUNTY, COLORADO  
REM # 31012

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
AST01 - 0.5FT	10/07/2024	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST02 - 0.5FT	10/07/2024	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST03 - 0.5FT	10/07/2024	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST04 - 0.5FT	10/07/2024	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST05 - 0.5FT	10/07/2024	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST06 - 0.5FT	10/07/2024	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST07 - 0.5FT	10/07/2024	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST08 - 0.5FT	10/07/2024	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
PWV01B - 6FT	10/09/2024	6.0	0.00791	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.00832	<0.00500	<0.00500	0.0546	<0.00500	0.00687	<b>0.616</b>	<0.00500
PWV01E - 5FT	10/09/2024	5.0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	0.0104	<0.00500	<0.00500	0.0552	<0.00500	0.00826	<b>0.491</b>	<b>0.636</b>
PWV01S - 5FT	10/09/2024	5.0	0.0384	<0.00500	<0.00500	<0.00500	0.00714	<0.00500	0.0322	<0.00500	0.0120	0.210	<0.00500	0.036	<b>1.71</b>	<b>1.83</b>
PWV02 B-6FT	10/09/2024	6.0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<b>0.0242</b>	<b>0.0258</b>
PWV02 E-5FT	10/09/2024	5.0	<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
SEP01 DL01-0.5FT	10/09/2024	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP01 DL02-0.5FT	10/09/2024	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP02 DL01-3FT	10/09/2024	3.0	<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
SEP02 DL02-0.5FT	10/09/2024	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
SEP03 DL-3FT	10/09/2024	3.0	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<b>0.0219</b>	0.0133
SEP03 FL-3FT	10/09/2024	3.0	<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
SEP04 DL-3FT	10/09/2024	3.0	<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
AST09 - 0.5ft	10/10/2024	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST10 - 0.5ft	10/10/2024	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST11 - 0.5ft	10/10/2024	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST12 - 0.5ft	10/10/2024	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST13 - 0.5ft	10/10/2024	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
AST14 - 0.5ft	10/10/2024	0.5	<0.00500	<0.00500	<0.00500	0.00529	0.00613	<0.00500	<0.00500	<0.00500	0.00595	<0.00500	<0.00500	0.0066	<0.00500	<0.00500
AST15 - 0.5ft	10/10/2024	0.5	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500

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**  
**WELLS RANCH USX AE T6N-R62W-S29 L02, WELD COUNTY, COLORADO**  
**REM # 31012**

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
AST01 - 0.5FT	10/07/2024	0.5	8.32	0.637	0.561	<2.00
AST02 - 0.5FT	10/07/2024	0.5	8.45	0.512	0.459	<2.00
AST03 - 0.5FT	10/07/2024	0.5	8.18	0.330	0.441	<2.00
AST04 - 0.5FT	10/07/2024	0.5	8.65	0.818	0.495	<2.00
AST05 - 0.5FT	10/07/2024	0.5	8.19	0.234	0.176	<2.00
AST06 - 0.5FT	10/07/2024	0.5	8.28	0.750	0.726	<2.00
AST07 - 0.5FT	10/07/2024	0.5	8.38	0.697	0.811	<2.00
AST08 - 0.5FT	10/07/2024	0.5	8.40	0.662	0.670	<2.00
PWV01B - 6FT	10/09/2024	6.0	8.13	0.337	3.13	<2.00
PWV01E - 5FT	10/09/2024	5.0	8.14	0.704	1.16	<2.00
PWV01S - 5FT	10/09/2024	5.0	7.20	0.295	0.251	<2.00
PWV02 B-6FT	10/09/2024	6.0	8.27	0.123	0.791	<2.00
PWV02 E-5FT	10/09/2024	5.0	8.88	0.116	0.598	<2.00
SEP01 DL01-0.5FT	10/09/2024	0.5	8.68	0.167	0.0199	<2.00
SEP01 DL02-0.5FT	10/09/2024	0.5	8.30	0.0865	0.0325	<2.00
SEP02 DL01-3FT	10/09/2024	3.0	8.58	0.294	0.433	<2.00
SEP02 DL02-0.5FT	10/09/2024	0.5	8.72	0.0806	0.0250	<2.00
SEP03 DL-3FT	10/09/2024	3.0	8.76	0.202	1.40	<2.00
SEP03 FL-3FT	10/09/2024	3.0	8.91	0.114	0.0935	<2.00
SEP04 DL-3FT	10/09/2024	3.0	8.60	0.256	0.843	<2.00

**TABLE 4**  
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**NOBLE 100322**  
**WELLS RANCH USX AE T6N-R62W-S29 L02, WELD COUNTY, COLORADO**  
**REM # 31012**

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
AST09 - 0.5ft	10/10/2024	0.5	8.18	1.01	0.573	<2.00
AST10 - 0.5ft	10/10/2024	0.5	8.27	0.818	0.870	<2.00
AST11 - 0.5ft	10/10/2024	0.5	<b>8.84</b>	0.140	0.0392	<2.00
AST12 - 0.5ft	10/10/2024	0.5	<b>8.86</b>	0.132	0.0284	<2.00
AST13 - 0.5ft	10/10/2024	0.5	<b>8.67</b>	0.102	0.0164	<2.00
AST14 - 0.5ft	10/10/2024	0.5	<b>8.39</b>	0.560	0.620	<2.00
AST15 - 0.5ft	10/10/2024	0.5	6.70	0.0178	0.0047	<2.00
BKG01@5.0'	2/23/2024	5.0	8.29	0.294	1.96	<2.00
BKG01@7.0'	2/23/2024	7.0	7.97	1.36	3.52	<2.00
BKG02@5.0'	2/23/2024	5.0	8.28	0.338	0.423	<2.00
BKG02@7.0'	2/23/2024	7.0	7.99	0.517	1.34	<2.00
BKG04@5.0'	2/23/2024	5.0	<b>8.46</b>	0.23	0.952	<2.00
BKG04@7.0'	2/23/2024	7.0	<b>8.48</b>	0.379	2.82	<2.00
BKG05@5.0'	2/23/2024	5.0	<b>8.31</b>	0.73	3.22	<2.00
BKG05@7.0'	2/23/2024	7.0	8.09	0.697	4.13	<2.00
BKG01 - 0.5ft	10/10/2024	0.5	7.93	0.082	0.0298	<2.00
BKG01 - 2ft	10/10/2024	2.0	7.64	0.039	0.0581	<2.00
BKG01 - 3ft	10/10/2024	3.0	<b>8.66</b>	0.123	0.0517	<2.00
BKG01 - 4ft	10/10/2024	4.0	<b>8.78</b>	0.112	0.0442	<2.00
BKG01 - 5ft	10/10/2024	5.0	<b>8.91</b>	0.107	0.0650	<2.00

**TABLE 4**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE 100322**  
**WELLS RANCH USX AE T6N-R62W-S29 L02, WELD COUNTY, COLORADO**  
**REM # 31012**

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
BKG01 - 6ft	10/10/2024	6.0	8.98	0.106	0.0751	<2.00
BKG02 - 0.5ft	10/10/2024	0.5	7.17	0.389	0.0575	<2.00
BKG02 - 2ft	10/10/2024	2.0	7.61	0.0551	0.0456	<2.00
BKG02 - 3ft	10/10/2024	3.0	8.70	0.112	0.0499	<2.00
BKG02 - 4ft	10/10/2024	4.0	8.79	0.109	0.0361	<2.00
BKG02 - 5ft	10/10/2024	5.0	8.87	0.105	0.0534	<2.00
BKG02 - 6ft	10/10/2024	6.0	8.60	0.156	0.0946	<2.00
BKG03 - 0.5ft	10/10/2024	0.5	8.37	0.683	0.749	<2.00
BKG03 - 2ft	10/10/2024	2.0	8.17	0.246	0.222	<2.00
BKG03 - 3ft	10/10/2024	3.0	8.33	0.188	0.0962	<2.00
BKG03 - 4ft	10/10/2024	4.0	8.93	0.217	0.360	<2.00
BKG03 - 5ft	10/10/2024	5.0	8.94	0.213	0.350	<2.00
BKG03 - 6ft	10/10/2024	6.0	7.84	0.442	0.605	<2.00
BKG04 - 0.5ft	10/10/2024	0.5	6.87	0.0428	0.0217	<2.00
BKG04 - 2ft	10/10/2024	2.0	7.07	0.0295	0.0332	<2.00
BKG04 - 3ft	10/10/2024	3.0	8.21	0.140	0.0596	<2.00
BKG04 - 4ft	10/10/2024	4.0	8.46	0.146	0.0604	<2.00
BKG04 - 5ft	10/10/2024	5.0	8.39	0.203	0.0880	<2.00
BKG04 - 6ft	10/10/2024	6.0	8.63	0.133	0.0458	<2.00
BKG05 - 0.5ft	10/10/2024	0.5	6.89	0.180	0.0302	<2.00

**TABLE 4**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE 100322**  
**WELLS RANCH USX AE T6N-R62W-S29 L02, WELD COUNTY, COLORADO**  
**REM # 31012**

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
BKG05 - 2ft	10/10/2024	2.0	6.48	0.0894	0.0466	<2.00
BKG05 - 3ft	10/10/2024	3.0	<b>8.32</b>	0.136	0.0583	<2.00
BKG05 - 4ft	10/10/2024	4.0	8.20	0.197	0.0633	<2.00
BKG05 - 5ft	10/10/2024	5.0	<b>8.61</b>	0.124	0.0446	<2.00
BKG05 - 6ft	10/10/2024	6.0	<b>8.44</b>	0.145	0.0517	<2.00
Maximum Background Concentration			<b>8.98</b>	1.36	4.13	<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

**TABLE 5**  
**SUMMARY OF METALS IN SOIL CHEMISTRY DATA**  
**NOBLE 100322**  
**WELLS RANCH USX AE T6N-R62W-S29 L02, WELD COUNTY, COLORADO**  
**REM # 31012**

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
AST01 - 0.5FT	10/07/2024	0.5	1.29	23.9	<0.200	<0.30	2.67	1.90	2.29	<0.260	<0.0200	8.08
AST02 - 0.5FT	10/07/2024	0.5	1.75	45.8	<0.200	<0.30	4.26	3.93	4.48	<0.260	<0.0200	15.0
AST03 - 0.5FT	10/07/2024	0.5	1.30	26.0	<0.200	<0.30	2.51	2.13	2.32	<0.260	<0.0200	8.94
AST04 - 0.5FT	10/07/2024	0.5	1.71	33.7	<0.200	<0.30	3.51	2.71	3.28	<0.260	<0.0200	12.1
AST05 - 0.5FT	10/07/2024	0.5	1.02	21.5	<0.200	<0.30	2.25	1.87	2.01	<0.260	<0.0200	7.01
AST06 - 0.5FT	10/07/2024	0.5	2.26	40.7	<0.200	<0.30	4.36	3.85	4.36	<0.260	<0.0200	16.6
AST07 - 0.5FT	10/07/2024	0.5	1.80	28.1	<0.200	<0.30	4.93	2.46	3.33	<0.260	<0.0200	12.3
AST08 - 0.5FT	10/07/2024	0.5	1.60	25.9	<0.200	<0.30	2.96	2.39	2.57	<0.260	<0.0200	9.23
PWV01B - 6FT	10/09/2024	6.0	4.16	37.0	<0.180	<0.30	10.9	9.03	9.68	<0.234	0.0380	47.6
PWV01E - 5FT	10/09/2024	5.0	4.96	41.3	0.202	<0.30	15.2	12.4	10.6	<0.260	0.0514	45.6
PWV01S - 5FT	10/09/2024	5.0	3.33	44.6	<0.200	<0.30	8.79	7.69	7.38	<0.260	0.0365	33.0
PWV02 B-6FT	10/09/2024	6.0	5.87	39.5	0.594	<0.30	8.33	19.0	6.12	<0.260	0.106	32.9
PWV02 E-5FT	10/09/2024	5.0	2.46	265	0.470	<0.30	6.71	13.0	6.51	<0.260	0.0587	38.3
SEP01 DL01-0.5FT	10/09/2024	0.5	1.55	45.6	0.209	<0.30	4.19	5.15	3.59	<0.260	0.118	15.7
SEP01 DL02-0.5FT	10/09/2024	0.5	1.07	33.3	<0.200	<0.30	2.09	3.16	1.75	<0.260	<0.0200	9.31
SEP02 DL01-3FT	10/09/2024	3.0	1.96	275	0.430	<0.30	6.05	10.8	5.73	<0.260	0.0642	23.9
SEP02 DL02-0.5FT	10/09/2024	0.5	1.64	35.5	<0.200	<0.30	2.64	4.47	2.18	<0.260	<0.0200	10.5
SEP03 DL-3FT	10/09/2024	3.0	2.83	97.3	0.457	<0.30	7.97	16.3	7.55	<0.260	0.104	24.5
SEP03 FL-3FT	10/09/2024	3.0	2.32	84.7	0.424	<0.30	6.51	12.5	6.40	<0.260	0.0454	26.7
SEP04 DL-3FT	10/09/2024	3.0	2.67	61.8	0.339	<0.30	5.39	9.63	4.97	<0.260	0.0424	22.9
AST09 - 0.5ft	10/10/2024	0.5	1.85	42.1	<0.200	<0.30	3.52	3.21	2.86	<0.260	<0.0200	10.3
AST10 - 0.5ft	10/10/2024	0.5	1.68	31.3	<0.200	<0.30	3.16	2.61	2.62	<0.260	<0.0200	9.94
AST11 - 0.5ft	10/10/2024	0.5	1.27	34.0	<0.200	<0.30	2.70	2.30	2.65	<0.260	<0.0200	9.36
AST12 - 0.5ft	10/10/2024	0.5	1.23	25.2	<0.200	<0.30	2.57	2.15	2.43	<0.260	<0.0200	8.59
AST13 - 0.5ft	10/10/2024	0.5	1.58	32.2	<0.200	<0.30	3.23	2.83	2.95	<0.260	<0.0200	10.7
AST14 - 0.5ft	10/10/2024	0.5	1.69	29.4	<0.200	<0.30	2.78	3.29	2.52	<0.260	<0.0200	9.15
AST15 - 0.5ft	10/10/2024	0.5	1.59	28.7	<0.200	<0.30	3.86	2.67	2.95	<0.260	<0.0200	10.4

TABLE 5  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
NOBLE 100322  
WELLS RANCH USX AE T6N-R62W-S29 L02, WELD COUNTY, COLORADO  
REM # 31012

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@5.0'	2/23/2024	5.0 Ft	6.63	38.3	0.322	<0.30	4.86	6.97	8.37	<0.260	0.0292	19.4
BKG01@7.0'	2/23/2024	7.0 Ft	37.7	45.8	1.37	<0.30	12.2	21.1	13.9	1.34	0.222	23.5
BKG02@5.0'	2/23/2024	5.0 Ft	2.61	63.4	0.256	<0.30	3.87	6.73	4.60	<0.260	0.0240	19.3
BKG02@7.0'	2/23/2024	7.0 Ft	3.56	51.2	0.253	<0.30	6.44	10.9	7.21	<0.260	0.0444	31.6
BKG04@5.0'	2/23/2024	5.0 Ft	2.62	48.7	<0.200	<0.30	2.79	5.84	3.46	<0.260	<0.0200	13.4
BKG04@7.0'	2/23/2024	7.0 Ft	3.10	107	0.377	<0.30	7.70	12.1	5.96	<0.260	0.0403	35.6
BKG05@5.0'	2/23/2024	5.0 Ft	5.45	397	0.345	<0.30	8.88	20.5	6.22	<0.260	0.0843	26.2
BKG05@7.0'	2/23/2024	7.0 Ft	10.0	80.6	0.467	<0.30	9.30	17.7	8.38	<0.260	0.0987	40.9
BKG01 - 0.5ft	10/10/2024	0.5	0.788	54.6	<0.200	<0.30	1.13	5.02	0.929	<0.260	<0.0200	4.64
BKG01 - 2ft	10/10/2024	2.0	1.14	99.6	0.232	<0.30	2.09	10.4	2.63	<0.260	0.0446	9.41
BKG01 - 3ft	10/10/2024	3.0	0.901	76.8	<0.200	<0.30	1.64	5.96	1.85	<0.260	0.0263	6.42
BKG01 - 4ft	10/10/2024	4.0	0.804	43.1	<0.200	<0.30	1.35	4.84	1.53	<0.260	<0.0200	5.90
BKG01 - 5ft	10/10/2024	5.0	0.997	31.1	<0.200	<0.30	1.09	4.11	1.35	<0.260	<0.0200	5.01
BKG01 - 6ft	10/10/2024	6.0	0.921	40.7	<0.200	<0.30	1.27	4.82	1.28	<0.260	<0.0200	5.31
BKG02 - 0.5ft	10/10/2024	0.5	0.704	57.9	<0.200	<0.30	1.19	3.72	1.01	<0.260	<0.0200	5.32
BKG02 - 2ft	10/10/2024	2.0	1.22	97.6	0.206	<0.30	1.92	8.86	2.42	<0.260	0.0486	8.82
BKG02 - 3ft	10/10/2024	3.0	0.902	68.0	<0.200	<0.30	1.52	6.25	1.84	<0.260	0.0220	6.69
BKG02 - 4ft	10/10/2024	4.0	0.848	37.5	<0.200	<0.30	1.15	4.41	1.25	<0.260	<0.0200	5.21
BKG02 - 5ft	10/10/2024	5.0	0.950	47.7	<0.200	<0.30	1.38	4.45	1.60	<0.260	<0.0200	5.58
BKG02 - 6ft	10/10/2024	6.0	0.811	61.8	<0.200	<0.30	1.13	4.26	1.21	<0.260	<0.0200	4.67
BKG03 - 0.5ft	10/10/2024	0.5	1.52	44.0	<0.200	<0.30	2.02	3.22	1.54	<0.260	<0.0200	4.51
BKG03 - 2ft	10/10/2024	2.0	0.769	76.8	0.277	<0.30	3.27	16.2	2.68	<0.260	0.0892	10.8
BKG03 - 3ft	10/10/2024	3.0	0.941	59.4	<0.200	<0.30	1.51	4.82	1.66	<0.260	0.0212	6.72
BKG03 - 4ft	10/10/2024	4.0	1.10	46.3	<0.200	<0.30	1.24	5.49	1.50	<0.260	0.0274	5.69
BKG03 - 5ft	10/10/2024	5.0	1.04	53.6	<0.200	<0.30	1.27	5.13	1.50	<0.260	0.0275	5.47
BKG03 - 6ft	10/10/2024	6.0	0.907	47.7	<0.200	<0.30	1.41	5.15	1.39	<0.260	0.0214	6.32
BKG04 - 0.5ft	10/10/2024	0.5	0.701	32.0	<0.200	<0.30	1.18	3.61	1.34	<0.260	<0.0200	5.23
BKG04 - 2ft	10/10/2024	2.0	1.81	29.4	<0.200	<0.30	2.63	3.85	3.25	<0.260	<0.0200	12.2
BKG04 - 3ft	10/10/2024	3.0	2.88	60.1	0.248	<0.30	3.82	7.75	6.07	0.281	0.0213	22.1

TABLE 5  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
NOBLE 100322  
WELLS RANCH USX AE T6N-R62W-S29 L02, WELD COUNTY, COLORADO  
REM # 31012

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
BKG04 - 4ft	10/10/2024	4.0	<b>1.97</b>	56.2	0.200	<0.30	3.11	6.05	5.16	<0.260	<0.0200	20.1
BKG04 - 5ft	10/10/2024	5.0	<b>2.55</b>	61.3	0.226	<0.30	3.14	5.91	5.25	<0.260	<0.0200	19.1
BKG04 - 6ft	10/10/2024	6.0	<b>1.89</b>	<b>96.6</b>	<b>0.407</b>	<0.30	3.05	6.49	7.79	<0.260	<0.0200	21.8
BKG05 - 0.5ft	10/10/2024	0.5	<b>1.66</b>	32.7	<0.200	<0.30	2.60	9.19	2.59	<0.260	<0.0200	11.9
BKG05 - 2ft	10/10/2024	2.0	<b>1.81</b>	31.8	<0.200	<0.30	2.60	3.67	3.31	<0.260	<0.0200	12.5
BKG05 - 3ft	10/10/2024	3.0	<b>2.54</b>	67.3	0.267	<0.30	3.87	7.96	6.22	<b>0.299</b>	0.0202	24.0
BKG05 - 4ft	10/10/2024	4.0	<b>2.33</b>	64.1	0.225	<0.30	3.48	7.44	5.46	<0.260	<0.0200	22.6
BKG05 - 5ft	10/10/2024	5.0	<b>2.09</b>	62.3	0.226	<0.30	3.14	6.30	5.46	<0.260	<0.0200	20.7
BKG05 - 6ft	10/10/2024	6.0	<b>2.19</b>	54.0	0.202	<0.30	3.11	6.13	5.11	<0.260	<0.0200	19.5
1.25x Maximum Background Concentration			<b>47.1</b>	<b>496</b>	<b>1.71</b>	<0.30	15.3	<b>26.4</b>	17.38	<b>1.68</b>	0.278	51.1

- Bold** faced values exceed the ECMC Table 915-1 limit(s), but are within 1.25x background concentrations.
- Bold** faced values exceed the ECMC Table 915-1 limit(s) and native background concentrations.
- Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL).
- 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

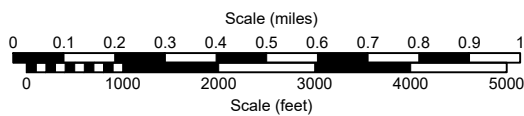
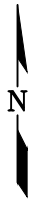
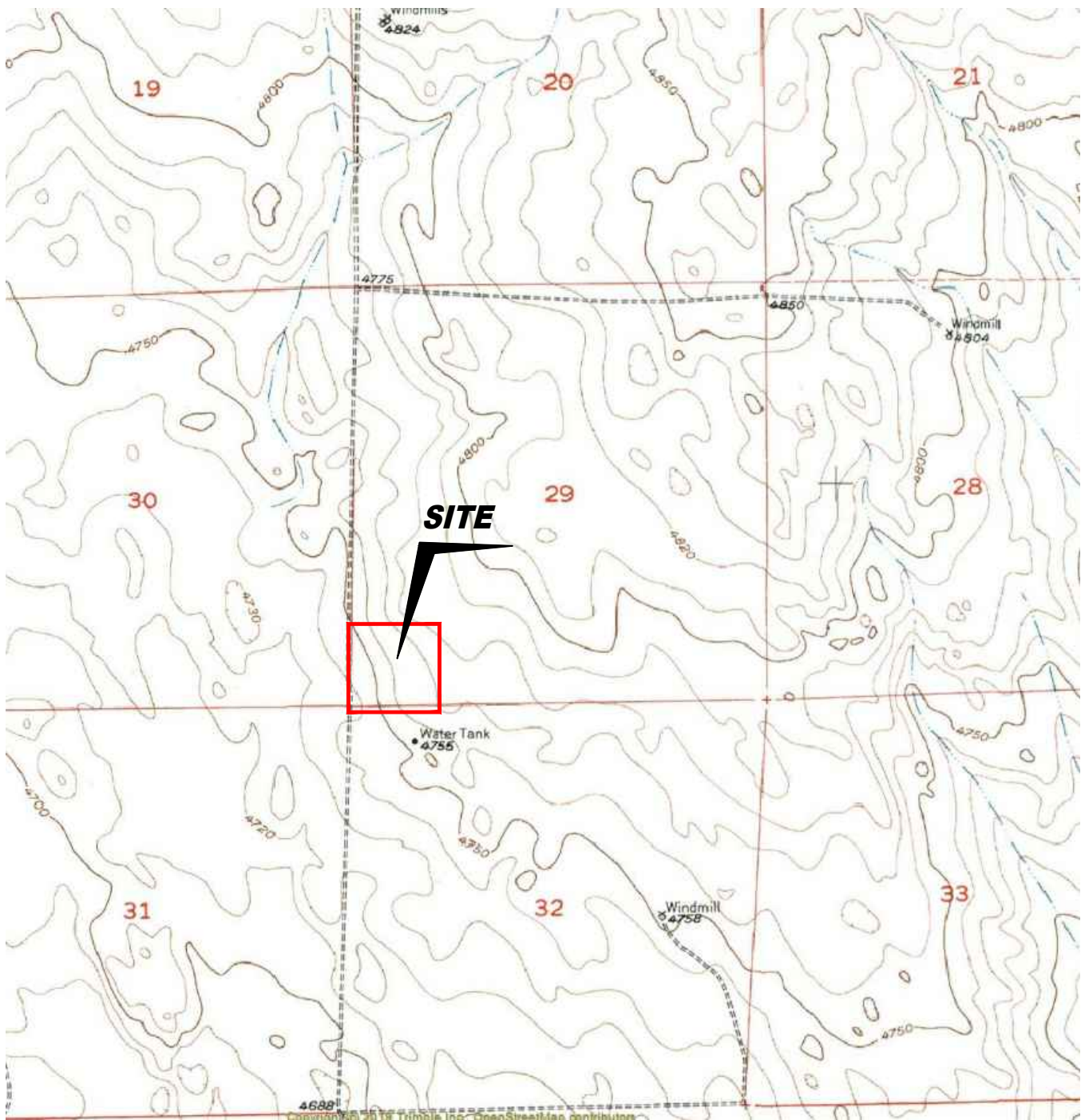

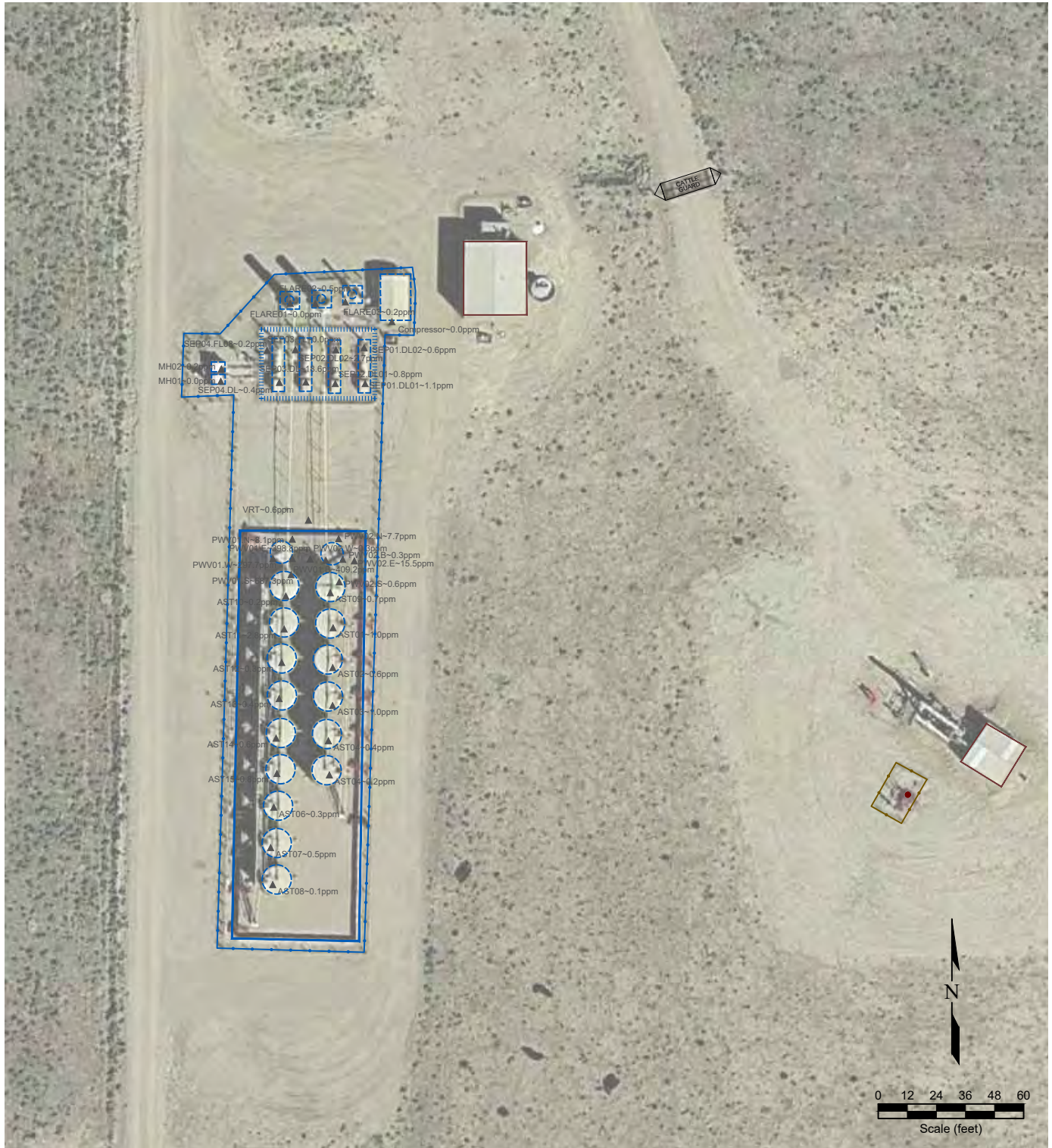


Figure 1  
**SITE LOCATION MAP**  
**NOBLE ENERGY INC**  
**WELLS RANCH USX AE 29-62-1HN**  
 SWSW Sec.29, T6N, R62W, 6th PM  
 Weld County, Colorado  
 40.452389°, -104.355485°

Project No. <b>CO24-231</b>	API #	Facility # <b>428526</b>	
Date <b>1/4/24</b>	Remediation # <b>31012</b>	Filename <b>24231T</b>	



**LEGEND**

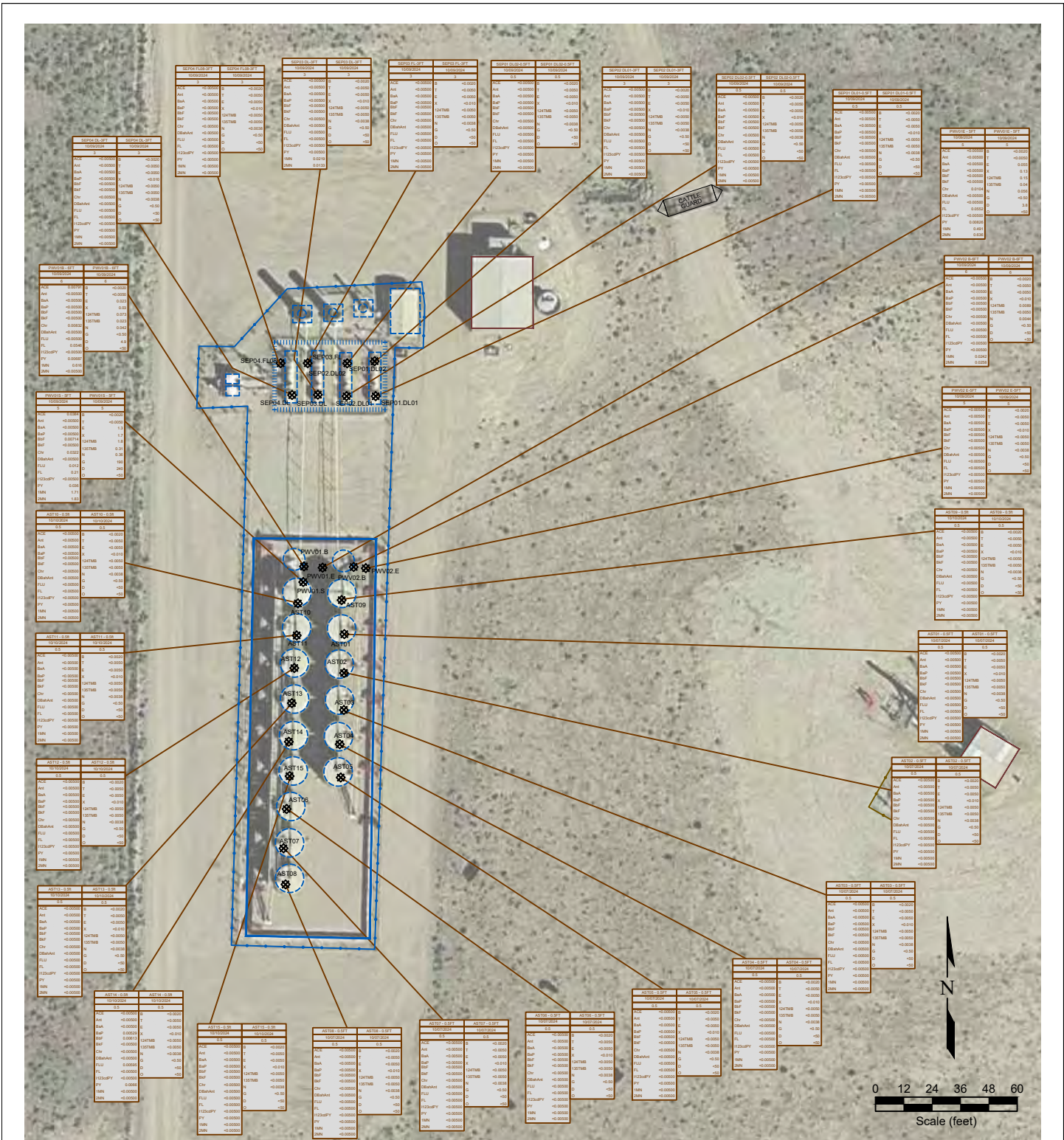
● WELL HEAD LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FACILITY	— FENCE LINE
▲ PID READING LOCATION	BUILDING	CONTAINMENT BERM	— CONTAINMENT WALL

**Figure 2  
SITE MAP**

**NOBLE ENERGY INC**  
**WELLS RANCH USX AE 29-62-1HN**  
 SWSW Sec.29, T6N, R62W, 6th PM  
 Weld County, Colorado  
 40.452389°, -104.355485°

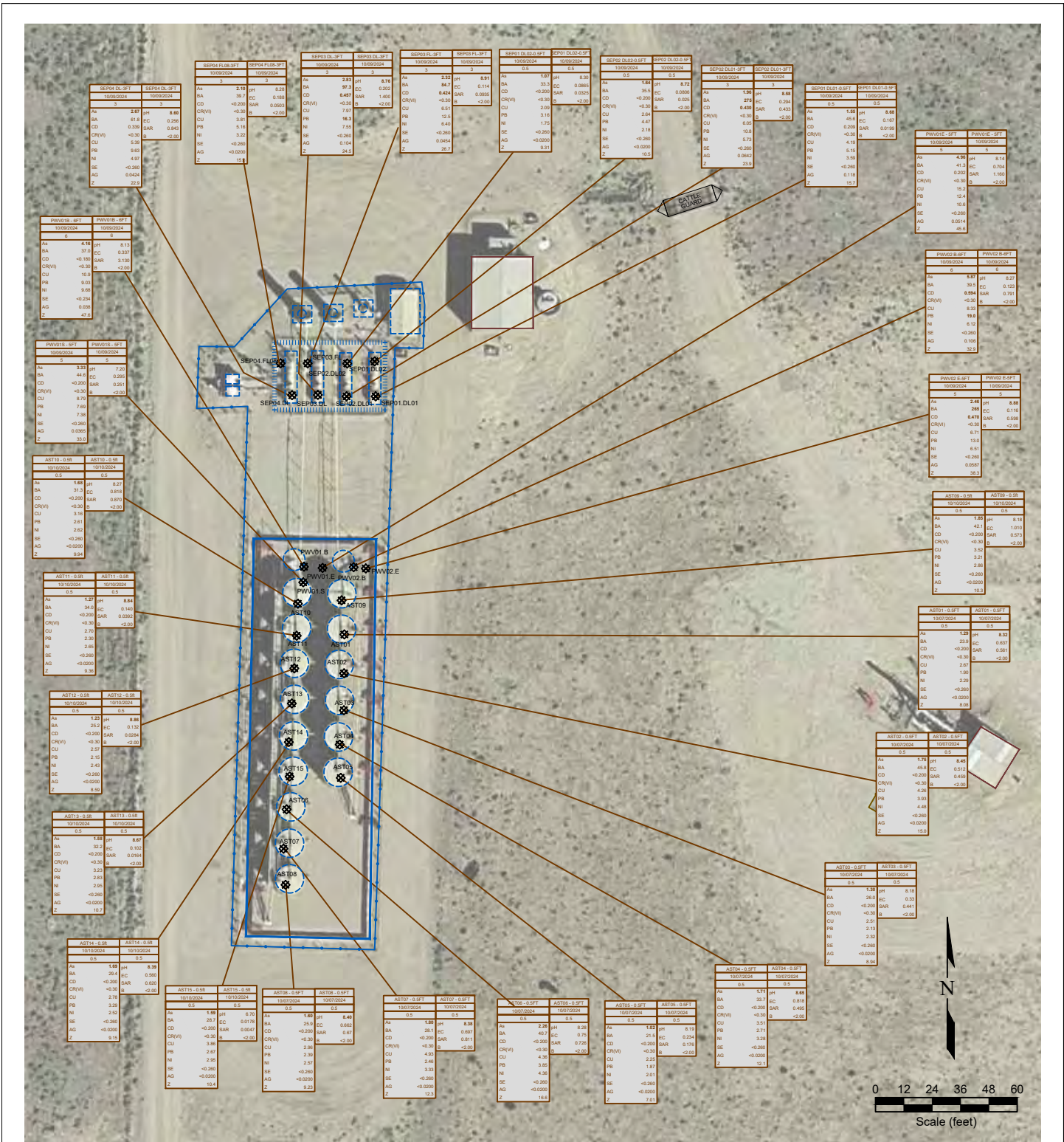
Project No. <b>CO24-231</b>	API #	Facility # <b>428526</b>
Date <b>1/6/25</b>	Remediation # <b>31012</b>	Filename <b>24231Q</b>





Project No. <b>CO24-231</b>	API #	Facility # <b>428526</b>	
Date <b>1/6/25</b>	Remediation # <b>31012</b>	Filename <b>24231Q</b>	

SAMPLE ID	SAMPLE ID	SAMPLE ID	SAMPLE ID
DATE	DATE SAMPLED	DATE	DATE SAMPLED
DEPTH	DEPTH (ft)	DEPTH	DEPTH (ft)
ACE	<0.0000 ACENAPHTHENE (mg/kg)	ACE	<0.0000 ACENAPHTHENE (mg/kg)
AAI	<0.0000 ANTHRACENE (mg/kg)	AAI	<0.0000 ANTHRACENE (mg/kg)
BAA	<0.0000 BENZO (A) ANTHRACENE (mg/kg)	BAA	<0.0000 BENZO (A) ANTHRACENE (mg/kg)
BAP	<0.0000 BENZO (A) PYRENE (mg/kg)	BAP	<0.0000 BENZO (A) PYRENE (mg/kg)
BaP	<0.0000 BENZO (B) FLUORANTHENE (mg/kg)	BaP	<0.0000 BENZO (B) FLUORANTHENE (mg/kg)
CBaA	<0.0000 BENZO (K) FLUORANTHENE (mg/kg)	CBaA	<0.0000 BENZO (K) FLUORANTHENE (mg/kg)
Chv	<0.0000 CHRYSENE (mg/kg)	Chv	<0.0000 CHRYSENE (mg/kg)
DBaAaI	<0.0000 DIBENZO (A,H) ANTHRACENE (mg/kg)	DBaAaI	<0.0000 DIBENZO (A,H) ANTHRACENE (mg/kg)
FLU	<0.0000 FLUORANTHENE (mg/kg)	FLU	<0.0000 FLUORANTHENE (mg/kg)
FL	<0.0000 FLUCRENE (mg/kg)	FL	<0.0000 FLUCRENE (mg/kg)
1133aPY	<0.0000 INDENO (1,2,3-CD) PYRENE (mg/kg)	1133aPY	<0.0000 INDENO (1,2,3-CD) PYRENE (mg/kg)
1133bPY	<0.0000 PYRENE (mg/kg)	1133bPY	<0.0000 PYRENE (mg/kg)
1MN	<0.0000 1-METHYLNAPHTHALENE (mg/kg)	1MN	<0.0000 1-METHYLNAPHTHALENE (mg/kg)
2MN	<0.0000 2-METHYLNAPHTHALENE (mg/kg)	2MN	<0.0000 2-METHYLNAPHTHALENE (mg/kg)



**LEGEND**

- WELL HEAD LOCATION
- ABOVE GROUND STORAGE TANK
- ⊗ SOIL SAMPLE LOCATION
- FORMER FACILITY
- BUILDING
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL

SAMPLE ID	SAMPLE DATE	DEPTH (ft)	PARAMETER	UNIT	VALUE
AA	10/10/2024	0.5	ARSENIC	mg/kg	<0.01
BA	10/10/2024	0.5	BARIIUM	mg/kg	<0.01
CA	10/10/2024	0.5	CADMIUM	mg/kg	<0.01
DA	10/10/2024	0.5	COPPER	mg/kg	<0.01
EA	10/10/2024	0.5	LEAD	mg/kg	<0.01
FA	10/10/2024	0.5	NICKEL	mg/kg	<0.01
GA	10/10/2024	0.5	SILVER	mg/kg	<0.01
HA	10/10/2024	0.5	ZINC	mg/kg	<0.01

**Figure 4**  
**METALS AND INORGANIC SOIL CHEMISTRY MAP**  
**NOBLE ENERGY INC**  
**WELLS RANCH USX AE 29-62-1HN**  
 SWSW Sec.29, T6N, R62W, 6th PM  
 Weld County, Colorado  
 40.452389°, -104.355485°

Project No. <b>CO24-231</b>	API #	Facility # <b>428526</b>
Date <b>1/6/25</b>	Remediation # <b>31012</b>	Filename <b>24231Q</b>

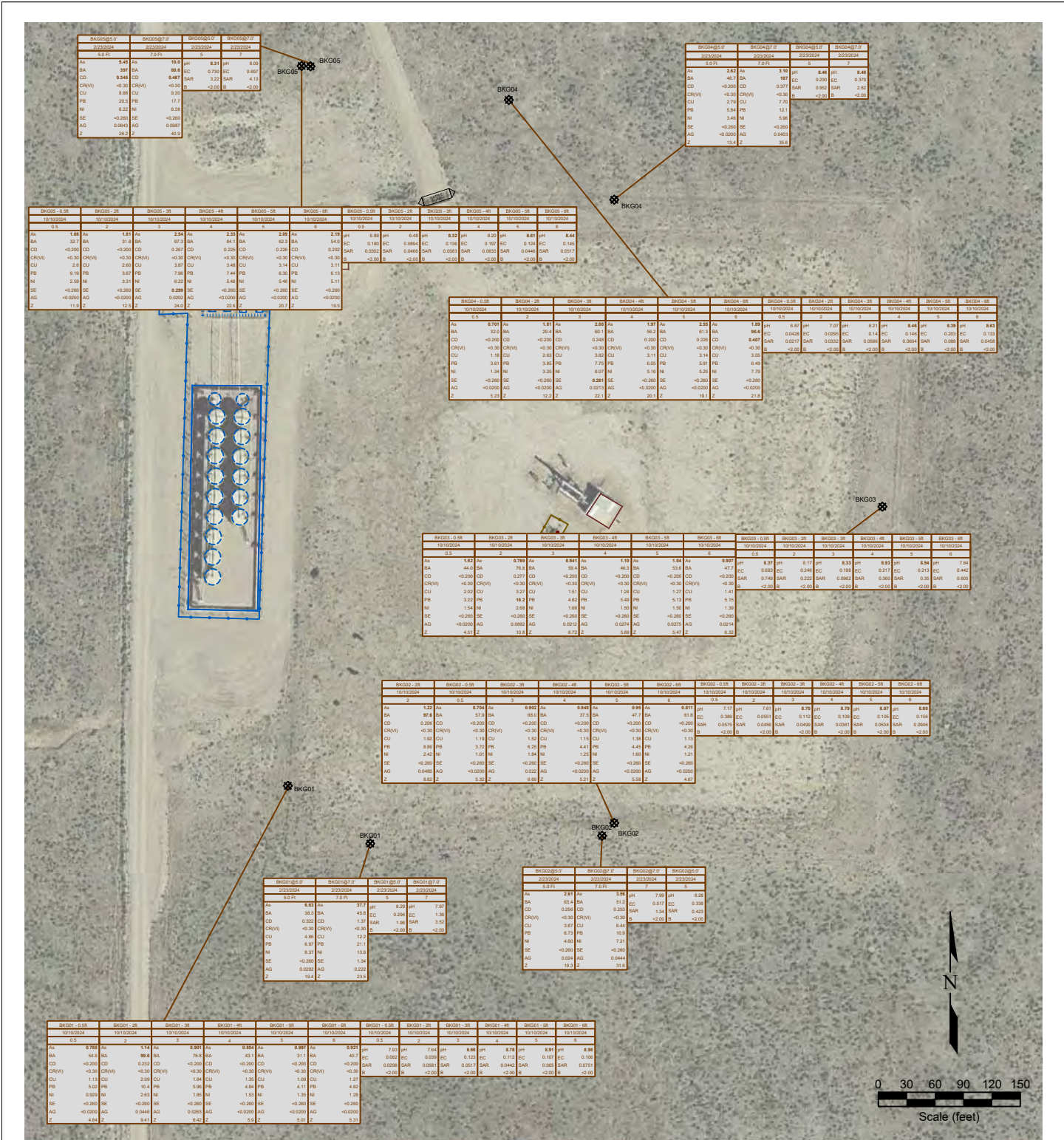


Figure 5  
**BACKGROUND SAMPLE SOIL CHEMISTRY MAP**

**NOBLE ENERGY INC**  
**WELLS RANCH USX AE 29-62-1HN**  
 SWSW Sec.29, T6N, R62W, 6th PM  
 Weld County, Colorado  
 40.452389°, -104.355485°

**LEGEND**

- WELL HEAD LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- ▭ BUILDING
- PROPOSED EXCAVATION
- FENCE LINE
- ▬ CONTAINMENT BERM
- CONTAINMENT WALL

SAMPLE DATE	SAMPLE ID	DEPTH (ft)	SAMPLE DATE	SAMPLE ID	DEPTH (ft)
-0.01	AR(BNC) (mg/kg)	PH	-0.01	PH (pH units)	
BA	BAR(IUM) (mg/kg)	EC	7.00	EC (microhm/cm)	
CD	CAD(MIUM) (mg/kg)	BAR	NI	BAR (units)	
CR(V)	CHROMIUM (mg/kg)	—	—	BORON (mg/L)	
CU	COPPER (mg/kg)				
PB	LEAD (mg/kg)				
NI	NICKEL (mg/kg)				
SE	SELENIUM (mg/kg)				
AG	SILVER (mg/kg)				
Z	ZINC (mg/kg)				

Project No. <b>CO24-231</b>	API #	Facility # <b>428526</b>
Date <b>1/6/25</b>	Remediation # <b>31012</b>	Filename <b>24231QBKG</b>





**LEGEND**

- WELL HEAD LOCATION
- ABOVE GROUND STORAGE TANK
- ▨ PROPOSED EXCAVATION
- FORMER FACILITY
- BUILDING
- PROPOSED EXCAVATION
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL

Figure 6  
**PROPOSED EXCAVATION MAP**  
**NOBLE ENERGY INC**  
**WELLS RANCH USX AE 29-62-1HN**  
 SWSW Sec.29, T6N, R62W, 6th PM  
 Weld County, Colorado  
 40.452389°, -104.355485°

Project No. <b>CO24-231</b>	API #	Facility # <b>428526</b>
Date <b>1/6/25</b>	Remediation # <b>31012</b>	Filename <b>24231Q</b>





***Description:***

#1- AST01-0.5FT - No visual staining or odor



***Description:***

#2- AST02-0.5FT - No visual staining or odor



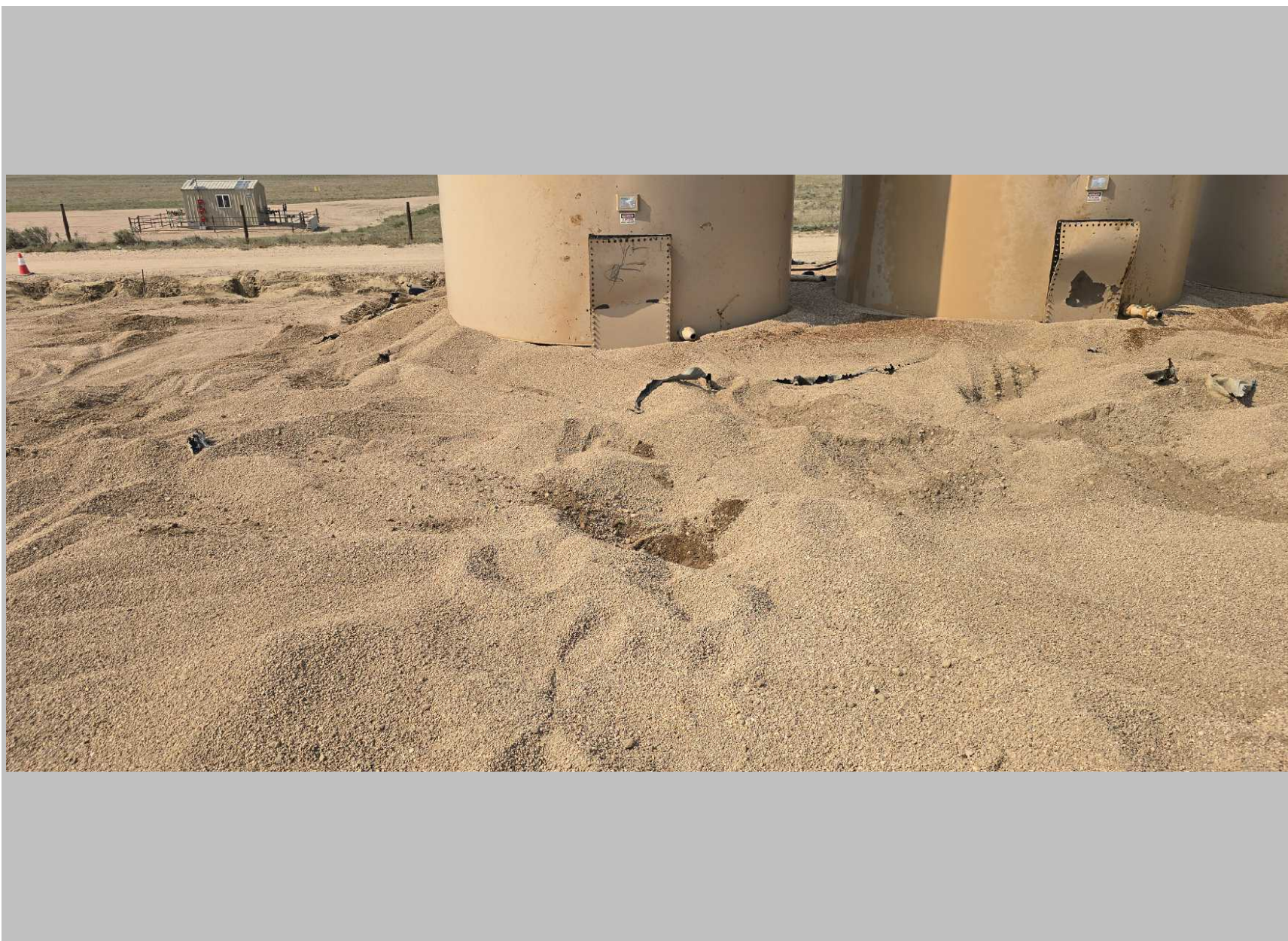
***Description:***

#3- AST03-0.5FT - No visual staining or odor



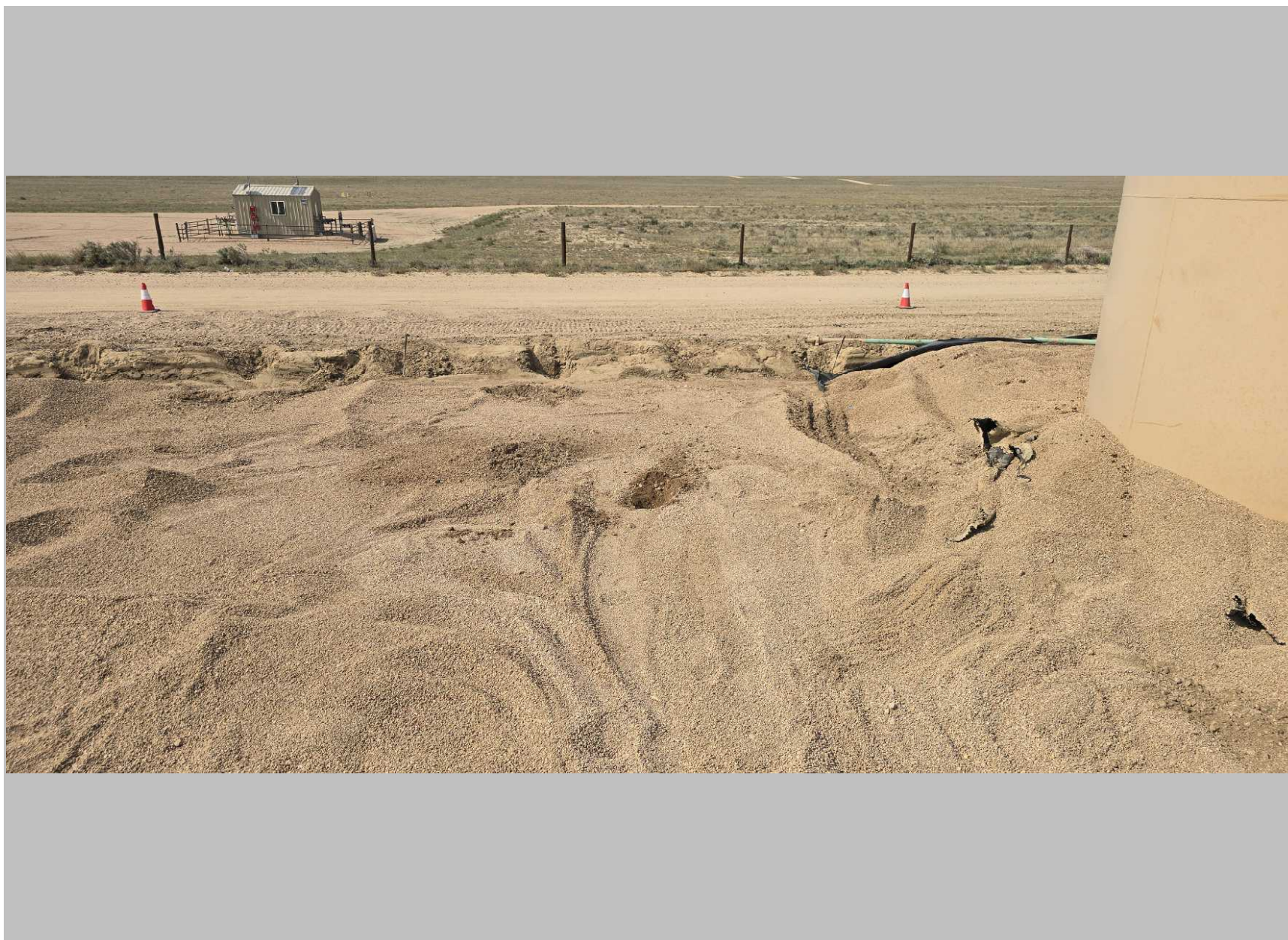
***Description:***

#4- AST04-0.5FT - No visual staining or odor



***Description:***

#5- AST05-0.5FT - No visual staining or odor



**Description:**

#6- AST06-0.5FT - No visual staining or odor



***Description:***

#7- AST07-0.5FT - No visual staining or odor

# Photo Log



**Description:**

#8- AST08-0.5FT - No visual staining or odor

# Photo Log



**Description:**

#9- AST09-0.5FT - No visual staining or odor

# Photo Log



**Description:**

#10- AST10-0.5FT - No visual staining or odor

# Photo Log



**Description:**

#11- AST11-0.5FT - No visual staining or odor

# Photo Log



**Description:**

#12- AST12-0.5FT - No visual staining or odor

# Photo Log



**Description:**

#13- AST13-0.5FT - No visual staining or odor

# Photo Log



**Description:**

#14- AST14-0.5FT - No visual staining or odor

# Photo Log



**Description:**

#15- AST15-0.5FT - No visual staining or odor

# Photo Log



***Description:***

#16- SEP01 DL01-0.5Ft -No visual staining or odor

# Photo Log



**Description:**

#17- SEP01 DL02-0.5Ft -No visual staining or odor

# Photo Log



**Description:**

#18- SEP02 DL01-3Ft -No visual staining or odor

# Photo Log



**Description:**

#19- SEP02 DL02-0.5Ft -No visual staining or odor

# Photo Log



**Description:**

#20- SEP03 DL-3Ft -No visual staining or odor