

FREMONT ENVIRONMENTAL INC.

November 18, 2024

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

Subject: **Facility Closure Data Submittal**
Castor PC T1N-R58W-S36 L01
NWNW Sec. 36, T10N, R53W
Weld County, Colorado
Fremont Project No. C024-167
Facility # 427737, Remediation # 34914

Dear Mr. Peterson:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted facility closure activities for the Noble Energy Inc. (Noble) Castor PC T1N-R58W-S36 L01. Impacted soil was not encountered during abandonment activities. Details of the Castor PC T1N-R58W-S36 L01 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
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Site Name & COGCC Facility Number: CASTOR PC T1N-R58W-S36 L01 Facility# 427737	Date: 07/29/2024	Remediation Project #: 34914
Associated Wells: CASTOR PC LA 36-68HN API:05-123-35102	Age of Site: 2012	Number of Photos Attached: 17
Location: (GPS coordinates of southeaster berm) 40.801110, -103.820774		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)
None observed

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	OIL	OIL				
Size (barrels)	300	300	300	300				
Age	2012	2012	2012	2012				
Construction Material	Steel	Steel	Steel	Steel				
Tank type (AST/DRV, etc.)	AST	AST	AST	AST				
Visual Integrity of Tank	Good	Good	Good	Good				
Condition of tank footings	Good	Good	Good	Good				
PID Readings	Highest PID 2.7ppm	Highest PID 1.8ppm	Highest PID 5.5ppm	Highest PID 16.9ppm				
Soil impacts present at valves or hatches?	No	No	No	No				
PID Readings	See attached	See attached	See attached	See attached				
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 tanks:

Separators

Separator size	Unknown							
Vertical or Horizontal	Horizontal							
Age	2012							
Soil impacts observed? If yes.	No							
PID Readings	High 0.9ppm							
Sample taken? Location/ Sample ID#	Yes, see attached							
Photo Number(s)	See attached							

Other observations regarding separators:

Third Party Equipment

Type	Meter House							
Age	2012							

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

Other Facility Equipment

Equipment type	Flare	Sales line	Scrubber	heater treater	
Equipment Condition	Good	Good	Good	Good	
Age	2012	2012	2012	2012	
Soil impacts	N/A	N/A	N/A	N/A	
PID Readings	High PID 0.1ppm	High PID 2.8ppm	High PID 0.5ppm	High PID 0.0ppm	
Sample taken?	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 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:	6		Total number of samples collected: 12
Highest PID Reading:	16.9ppm (AST04 0.5ft)		Total number of samples submitted to lab for analysis: 6
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	X	Wellhead Closure		Flowline Closure		Tank Battery Closure	
Site Name & COGCC Facility Number: CASTOR PC T1N-R58W-S36 L01 Facility# 427737		Date: 07/29/2024				Remediation Project #: 34914			
Associated Wells: <small>CASTOR PC LA 36-68HN API:05-11</small>		Age of Site: 2012				Number of Photos Attached: 17			
Location: (GPS coordinates of vault or southeastern tank berm for multiple)						40.801110, -103.820774		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'**

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
None observed

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								
Size (barrels)	100								
Age	2012								
Construction Material	concrete								
Visual Integrity of Tank	Good								
Condition of tank	Good								
PID Readings	Highest PID 4.0ppm								
Condition of Dumpline	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

Summary

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		
Highest PID Reading: 4.0ppm (PWV S-5Ft)		Total number of samples collected: 5		
If more than 10 cubic yards of impacted soil were observed:		Total number of samples submitted to lab for analysis: 2		
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 connected:		Total Volume of groundwater removed:		
Total number of samples submitted to lab for analysis:				

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
CASTOR PC T1N-R58W-S36 L01, WELD COUNTY, COLORADO
REM # 34914

Sample ID	Sample Date	Depth (ft)	GPS Data		PDOP Value	VOC Concentration (ppm)
			Latitude	Longitude		
AST01 - 0.5FT	07/30/2024	0.5FT	40.801033	-103.82031	-	2.7
AST02 - 0.5FT	07/30/2024	0.5FT	40.801032	-103.82026	-	1.8
AST03 - 0.5FT	07/30/2024	0.5FT	40.801030	-103.82020	-	5.5
AST04 - 0.5FT	07/30/2024	0.5FT	40.801027	-103.82014	-	16.9
PWV B - 6FT	07/29/2024	6FT	40.801039	-103.82043	0.9	0.3
PWV S - 5FT	07/29/2024	5FT	40.801017	-103.82044	0.9	4.0
SL01 - 6FT	07/30/2024	6FT	40.801003	-103.82090	0.8	2.8
SL02 - 3FT	07/30/2024	3FT	40.800800	-103.82093	-	0.2
SEP DL - 3FT	07/31/2024	3FT	40.801039	-103.82081	0.8	0.0
BKG01	07/31/2024	0.5FT, 3FT, 5FT, 6FT	40.801371	-103.82126	0.8	0.0
BKG02	07/31/2024	0.5FT, 3FT, 5FT, 6FT	40.800642	-103.82109	0.9	0.0
BKG03	07/31/2024	0.5FT, 3FT, 5FT, 6FT	40.801371	-103.82126	0.8	0.0
BKG04	07/31/2024	0.5FT, 3FT, 5FT, 6FT	40.800818	-103.81997	-	0.0
BKG05	07/31/2024	0.5FT, 3FT, 5FT, 6FT	40.801333	-103.82019	-	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
CASTOR PC T1N-R58W-S36 L01, WELD COUNTY, COLORADO
REM # 34914

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	07/30/2024	0.5FT	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
AST02 - 0.5FT	07/30/2024	0.5FT	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
AST03 - 0.5FT	07/30/2024	0.5FT	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
AST04 - 0.5FT	07/30/2024	0.5FT	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
PWV B - 6FT	07/29/2024	6FT	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
PWV S - 5FT	07/29/2024	5FT	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SL01 - 6FT	07/30/2024	6FT	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SL02 - 3FT	07/30/2024	3FT	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0038	<500	<0.50	<50	<50
SEP DL - 3FT	07/31/2024	3FT	<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
- NA - Not analyzed

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
CASTOR PC T1N-R58W-S36 L01, WELD COUNTY, COLORADO
REM # 34914

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	07/30/2024	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
AST02 - 0.5FT	07/30/2024	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
AST03 - 0.5FT	07/30/2024	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
AST04 - 0.5FT	07/30/2024	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
PWV B - 6FT	07/29/2024	6FT	<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
PWV S - 5FT	07/29/2024	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
SL01 - 6FT	07/30/2024	6FT	<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
SL02 - 3FT	07/30/2024	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	<0.00500
SEP DL - 3FT	07/31/2024	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	<0.00500

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
- NA - Not analyzed

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
CASTOR PC T1N-R58W-S36 L01, WELD COUNTY, COLORADO
REM # 34914

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	07/30/2024	0.5FT	7.83	1.18	4.69	<2.00
AST02 - 0.5FT	07/30/2024	0.5FT	7.50	1.69	1.47	<2.00
AST03 - 0.5FT	07/30/2024	0.5FT	7.76	1.39	4.79	<2.00
AST04 - 0.5FT	07/30/2024	0.5FT	7.61	1.25	2.04	<2.00
PWV B - 6FT	07/29/2024	6FT	8.84	0.338	1.12	<2.00
PWV S - 5FT	07/29/2024	5FT	9.03	0.415	1.37	<2.00
SL01 - 6FT	07/30/2024	6FT	8.33	0.344	0.395	<2.00
SL02 - 3FT	07/30/2024	3FT	8.32	0.312	0.228	<2.00
SEP DL - 3FT	07/31/2024	3FT	8.00	2.23	7.40	<2.00
BKG01 - 0.5FT	07/31/2024	0.5FT	8.28	0.381	1.10	<2.00
BKG01 - 3FT	07/31/2024	3FT	8.69	0.52	2.77	<2.00
BKG01 - 5FT	07/31/2024	5FT	7.87	5.51	8.52	<2.00
BKG01 - 6FT	07/31/2024	6FT	8.14	2.29	9.45	<2.00
BKG02 - 0.5FT	07/31/2024	0.5FT	7.97	0.34	0.345	<2.00
BKG02 - 3FT	07/31/2024	3FT	8.51	0.226	0.743	<2.00
BKG02 - 5FT	07/31/2024	5FT	8.18	0.583	2.01	<2.00
BKG02 - 6FT	07/31/2024	6FT	8.10	0.69	2.20	<2.00
BKG03 - 0.5FT	07/31/2024	0.5FT	8.20	0.484	2.47	<2.00
BKG03 - 3FT	07/31/2024	3FT	8.08	2.13	4.28	<2.00
BKG03 - 5FT	07/31/2024	5FT	7.96	2.05	5.56	<2.00
BKG03 - 6FT	07/31/2024	6FT	8.09	1.41	4.84	<2.00
BKG04 - 0.5FT	07/31/2024	0.5FT	8.97	0.346	2.49	<2.00

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
CASTOR PC T1N-R58W-S36 L01, WELD COUNTY, COLORADO
REM # 34914

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
BKG04 - 3FT	07/31/2024	3FT	8.68	1.35	8.74	<2.00
BKG04 - 5FT	07/31/2024	5FT	7.98	5.50	13.0	<2.00
BKG04 - 6FT	07/31/2024	6FT	8.28	3.47	16.7	<2.00
BKG05 - 0.5FT	07/31/2024	0.5FT	9.21	0.38	2.95	<2.00
BKG05 - 3FT	07/31/2024	3FT	7.88	7.38	15.3	<2.00
BKG05 - 5FT	07/31/2024	5FT	8.11	2.97	11.4	<2.00
BKG05 - 6FT	07/31/2024	6FT	8.07	2.36	8.51	<2.00
Maximum Background Concentration			9.21	7.38	16.7	<2.00

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

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
CASTOR PC T1N-R58W-S36 L01, WELD COUNTY, COLORADO
REM # 34914

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	07/30/2024	0.5FT	4.47	228	0.286	<0.30	5.10	14.0	2.98	<0.260	0.0309	15.2
AST02 - 0.5FT	07/30/2024	0.5FT	4.24	251	0.357	<0.30	5.15	18.2	3.18	<0.260	0.0361	17.3
AST03 - 0.5FT	07/30/2024	0.5FT	5.74	265	0.234	<0.30	4.93	12.5	2.66	<0.260	0.0298	13.7
AST04 - 0.5FT	07/30/2024	0.5FT	4.98	373	0.311	<0.30	5.14	20.5	2.94	<0.260	0.0298	15.6
PWV B - 6FT	07/29/2024	6FT	6.65	193	0.228	<0.30	4.41	13.6	3.02	<0.260	<0.0200	14.8
PWV S - 5FT	07/29/2024	5FT	8.53	326	0.257	<0.30	4.20	12.4	2.91	<0.236	<0.0181	13.8
SL01 - 6FT	07/30/2024	6FT	4.34	215	0.231	<0.30	4.84	11.6	3.02	<0.260	0.0222	14.8
SL02 - 3FT	07/30/2024	3FT	3.78	194	0.243	<0.30	4.53	12.2	3.08	<0.260	0.0200	13.0
SEP DL - 3FT	07/31/2024	3FT	10.4	293	0.272	<0.30	4.95	19.5	3.12	<0.260	0.0373	15.0
FL01 SEP - 3FT	07/31/2024	3FT	5.58	266	0.270	<0.30	5.20	13.9	3.16	<0.260	0.0274	15.3
BKG01 - 0.5FT	07/31/2024	0.5FT	5.09	271	0.292	<0.30	5.40	19.4	3.30	<0.260	0.0274	14.9
BKG01 - 3FT	07/31/2024	3FT	11.5	164	0.244	<0.30	5.59	15.2	3.04	<0.260	0.0319	14.4
BKG01 - 5FT	07/31/2024	5FT	11.8	73.2	0.220	<0.30	5.68	13.2	2.98	<0.260	0.0288	13.6
BKG01 - 6FT	07/31/2024	6FT	11.0	147	0.246	<0.30	5.24	13.7	3.04	<0.260	0.0259	14.5
BKG02 - 0.5FT	07/31/2024	0.5FT	4.50	239	0.332	<0.30	5.61	15.5	3.44	<0.232	0.0329	16.4
BKG02 - 3FT	07/31/2024	3FT	4.61	237	0.333	<0.30	5.61	15.0	3.68	<0.236	0.0320	16.6
BKG02 - 5FT	07/31/2024	5FT	4.55	204	0.288	<0.30	5.41	14.6	3.24	<0.260	0.0292	15.0
BKG02 - 6FT	07/31/2024	6FT	4.59	294	0.270	<0.30	5.40	14.3	3.00	<0.236	0.0301	14.4
BKG03 - 0.5FT	07/31/2024	0.5FT	5.09	287	0.343	<0.30	5.54	14.4	3.43	<0.260	0.0317	15.9
BKG03 - 3FT	07/31/2024	3FT	5.78	414	0.302	<0.30	5.55	17.7	3.25	<0.260	0.0276	15.3
BKG03 - 5FT	07/31/2024	5FT	4.14	381	0.269	<0.30	5.99	14.4	3.46	0.266	0.0302	16.4
BKG03 - 6FT	07/31/2024	6FT	4.09	255	0.269	<0.30	5.43	13.9	3.15	<0.260	0.0281	14.9
BKG04 - 0.5FT	07/31/2024	0.5FT	7.18	284	0.292	<0.30	4.21	14.0	2.58	<0.234	0.0261	13.0
BKG04 - 3FT	07/31/2024	3FT	12.2	434	0.231	<0.30	4.72	13.5	2.64	<0.260	0.0279	13.4
BKG04 - 5FT	07/31/2024	5FT	12.0	220	0.257	<0.30	4.39	13.6	2.69	<0.260	0.0233	13.2
BKG04 - 6FT	07/31/2024	6FT	7.45	217	0.246	<0.30	4.75	13.8	2.89	<0.260	0.0211	13.8
BKG05 - 0.5FT	07/31/2024	0.5FT	10.4	303	0.389	<0.30	4.75	14.9	3.09	<0.260	0.0255	15.1
BKG05 - 3FT	07/31/2024	3FT	8.73	258	0.291	<0.30	4.51	14.0	2.93	<0.260	0.0278	14.2
BKG05 - 5FT	07/31/2024	5FT	5.15	166	0.296	<0.30	4.78	11.8	3.91	<0.260	0.0217	17.5

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
CASTOR PC T1N-R58W-S36 L01, WELD COUNTY, COLORADO
REM # 34914

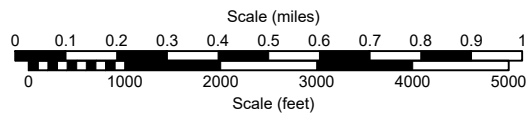
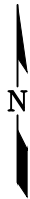
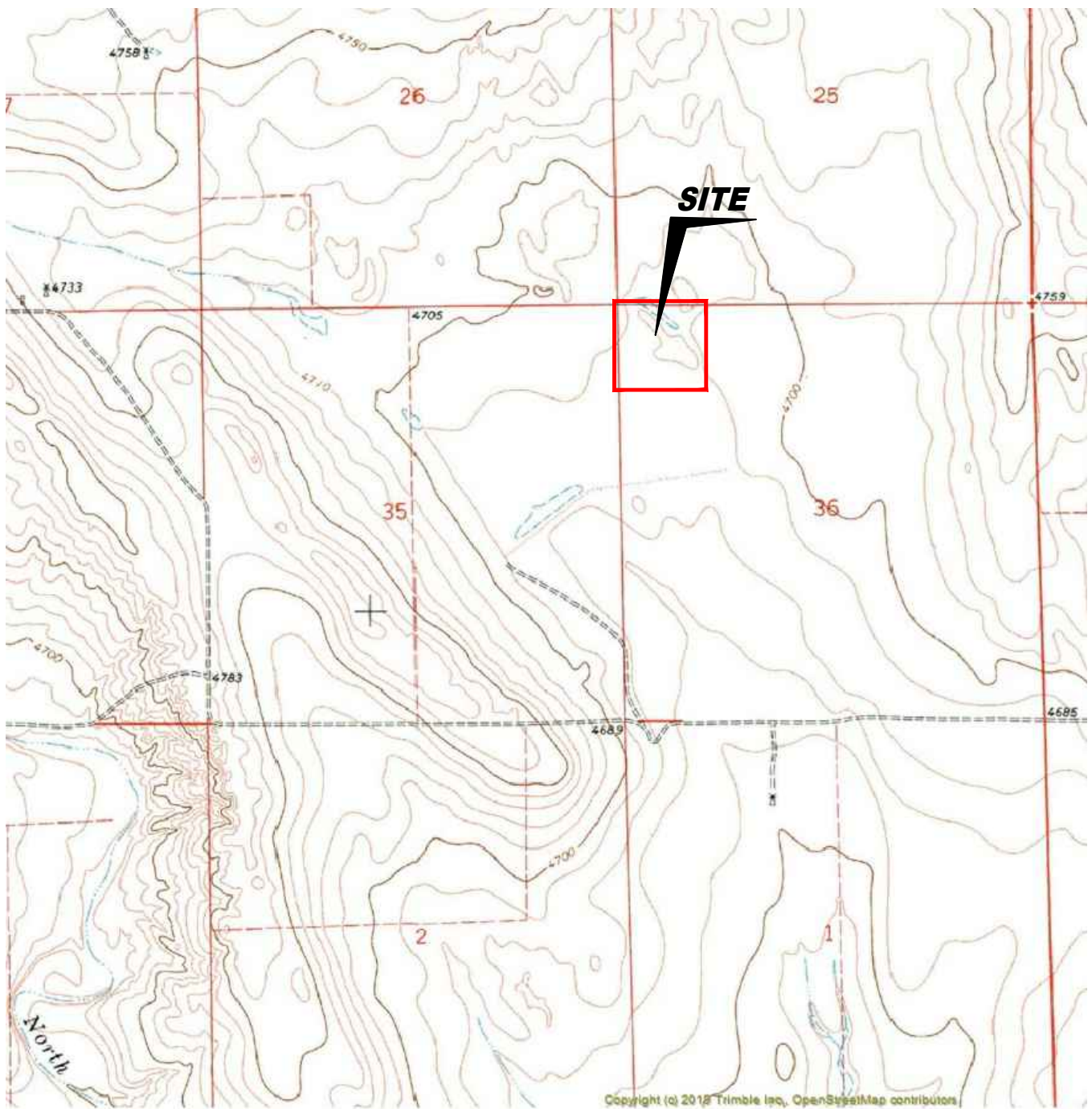
Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
BKG05 - 6FT	07/31/2024	6FT	5.12	209	0.308	<0.30	4.60	14.1	3.77	<0.260	0.0227	17.1
125% Maximum Background Concentration			15.3	543	0.389	<0.30	5.99	24.25	3.91	0.266	0.0329	17.5

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



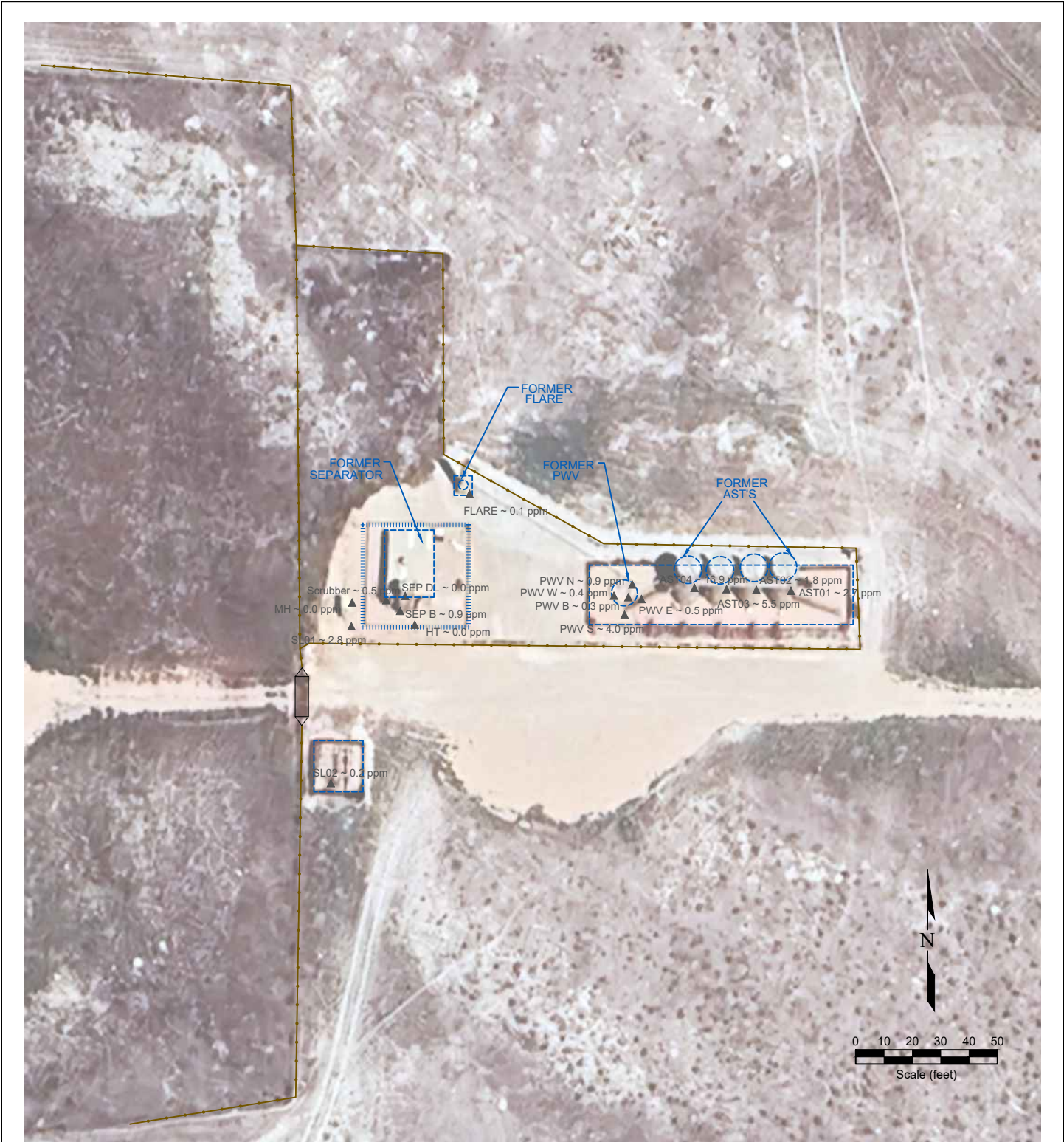
USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy, Inc. ~ Castor PC LA 36-68HN
 NWNW Sec. 36, T10N, R58W, 6th PM
 Weld County, Colorado
 40.801110°, -103.820774°

Project # C024-167	API #	Facility # 427737
Date 12/28/24	Remediation # 34914	Filename 24167T





LEGEND

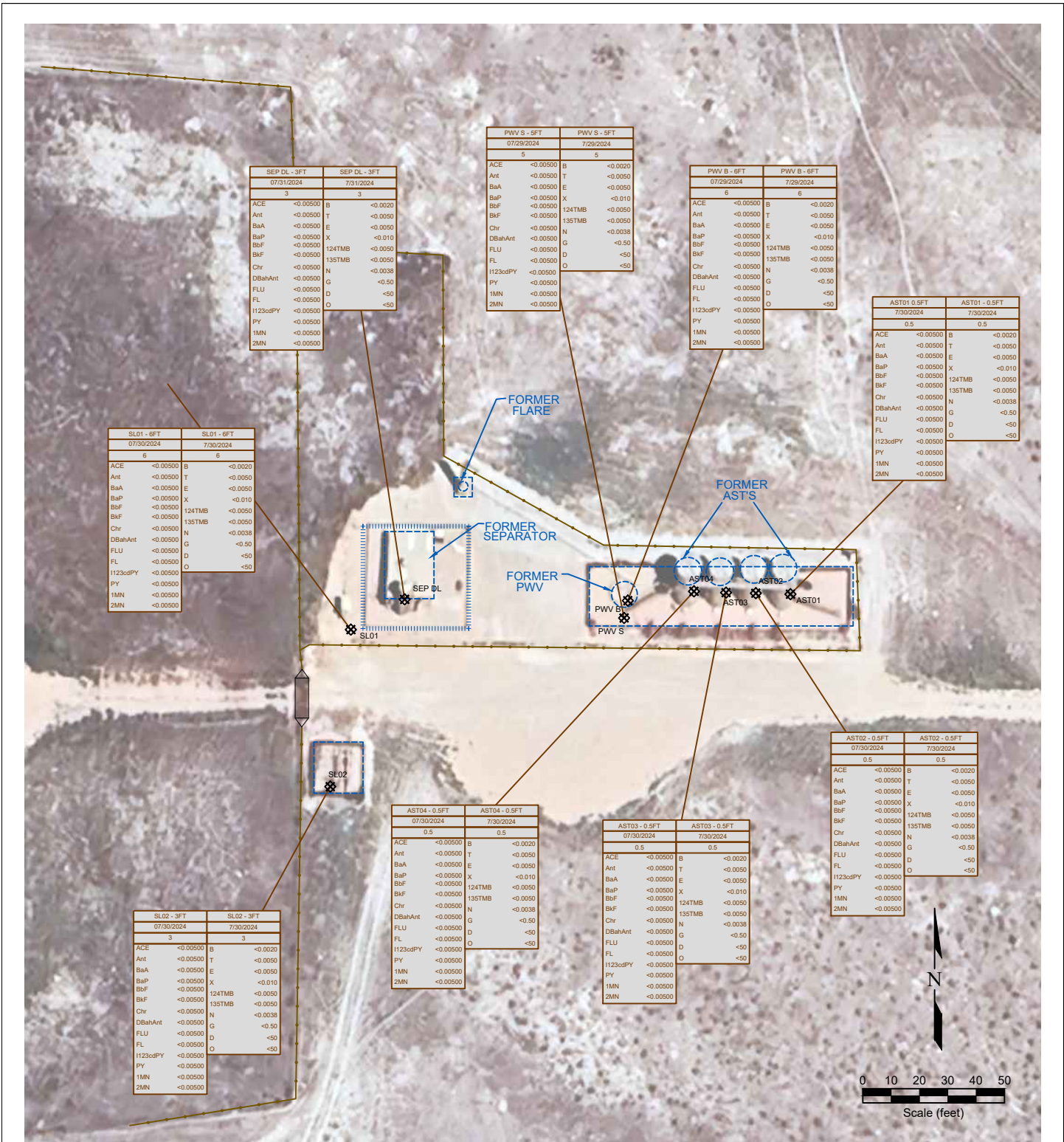
- WELL HEAD LOCATION
- ▲ PID READING LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FENCE LINE
- CONTAINMENT BERM
- CONTAINMENT WALL

**Figure 2
SITE MAP**

Noble Energy, Inc. ~ Castor PC LA 36-68HN
 NWNW Sec. 36, T10N, R58W, 6th PM
 Weld County, Colorado
 40.801110°, -103.820774°

Project No. C024-167	API #	Facility # 427737
Date 12/28/24	Remediation # 34914	Filename 24167Q





LEGEND

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

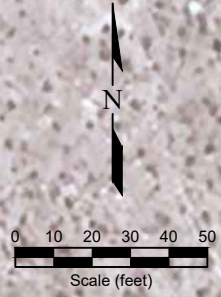
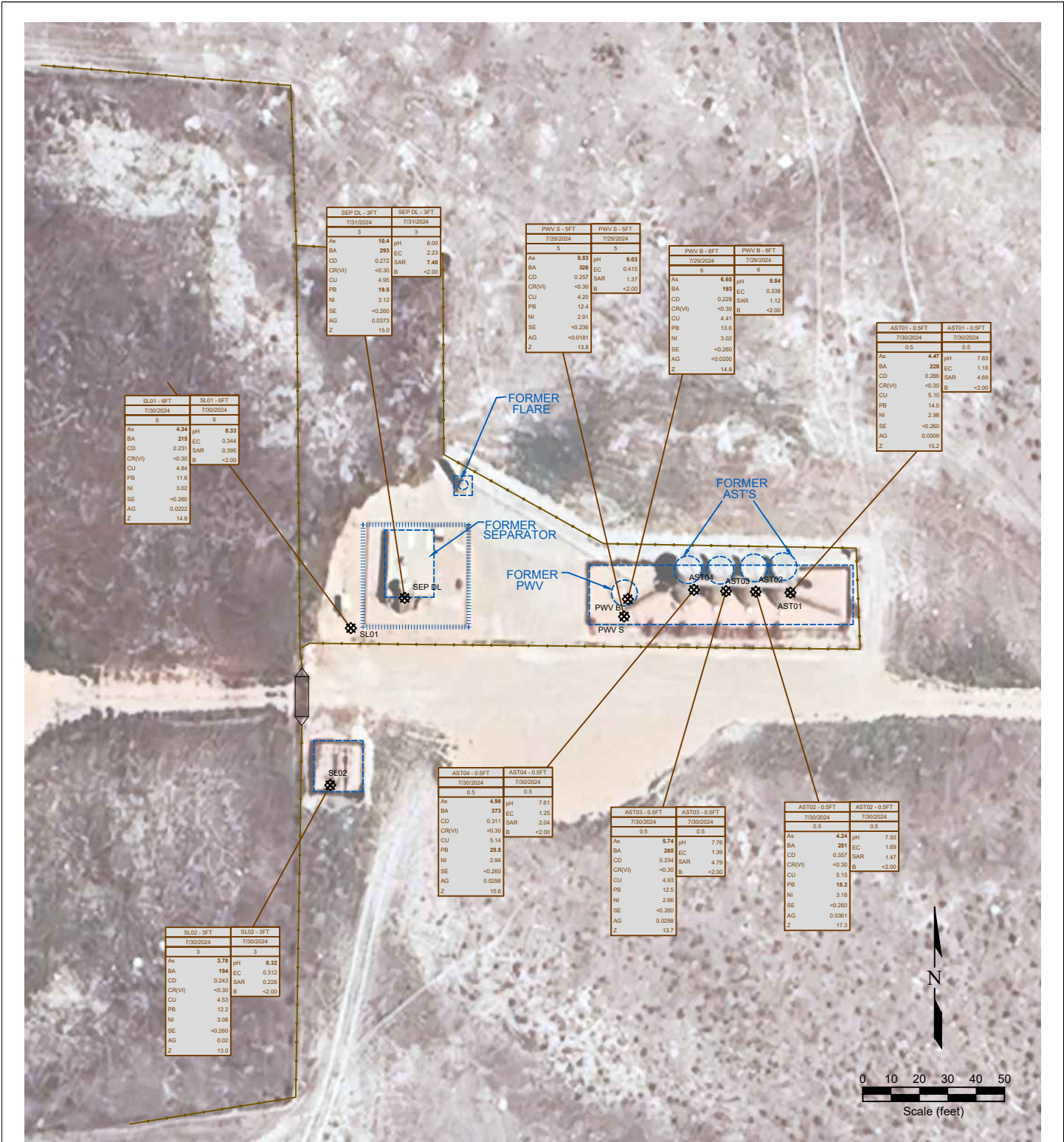
SAMPLE ID	SAMPLE DATE	SAMPLE ID	SAMPLE DATE
ACE	<0.0050	B	<0.0020
Ant	<0.0050	T	<0.0050
BaA	<0.0050	E	<0.0050
BaP	<0.0050	X	<0.010
BbF	<0.0050	124TMB	<0.0050
BkF	<0.0050	135TMB	<0.0050
Chr	<0.0050	N	<0.0038
DBahAnt	<0.0050	G	<0.50
FLU	<0.0050	D	<50
FL	<0.0050	O	<50
1123cdPY	<0.0050		
PY	<0.0050		
1MN	<0.0050		
2MN	<0.0050		

**Figure 3
ORGANIC SOIL CHEMISTRY MAP**

Noble Energy, Inc. ~ Castor PC LA 36-68HN
 NWNW Sec. 36, T10N, R58W, 6th PM
 Weld County, Colorado
 40.801110°, -103.820774°

Project No. C024-167	API #	Facility # 427737
Date 12/28/24	Remediation # 34914	Filename 24167Q





LEGEND

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

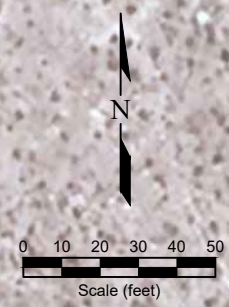
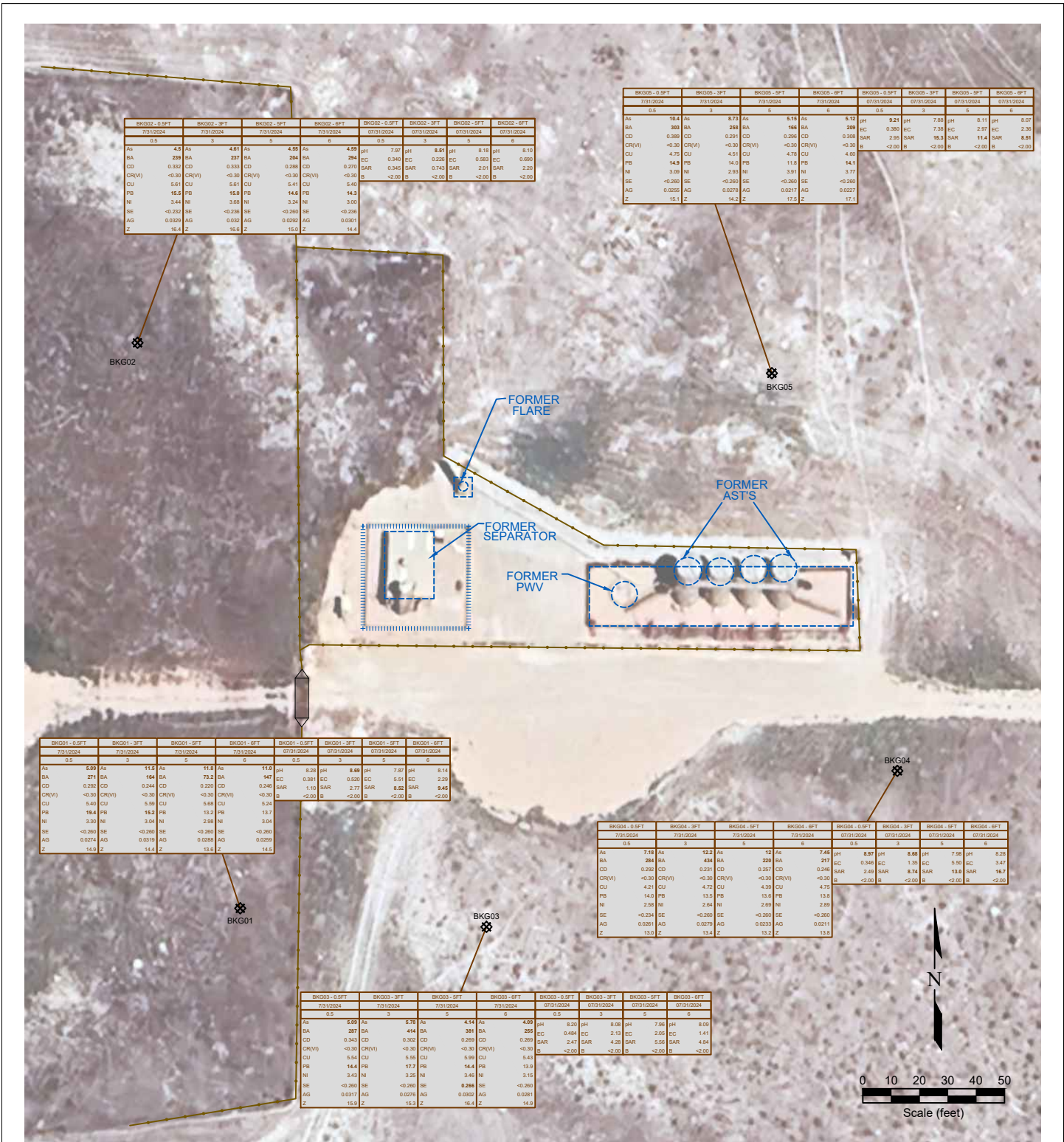
SAMPLE DATE	SAMPLE ID	DATE SAMPLED	DEPTH (ft)	ARSENIC (mg/kg)	PH (pH units)	DATE SAMPLED	DEPTH (ft)	BARUM (mg/kg)	EC (mmhos/cm)
7/30/2024	SL01 - 6FT	7/30/2024	6	4.34	8.33	7/30/2024	7	216	0.344
7/30/2024	SL01 - 6FT	7/30/2024	6	2.93	8.00	7/30/2024	7	0.273	7.48
7/30/2024	SL01 - 6FT	7/30/2024	6	0.257	8.00	7/30/2024	7	4.95	<2.00
7/30/2024	SL01 - 6FT	7/30/2024	6	19.5	3.12	7/30/2024	7	11.6	3.02
7/30/2024	SL01 - 6FT	7/30/2024	6	3.12	3.02	7/30/2024	7	4.84	11.6
7/30/2024	SL01 - 6FT	7/30/2024	6	<0.260	<0.260	7/30/2024	7	2.88	2.88
7/30/2024	SL01 - 6FT	7/30/2024	6	0.0373	15.0	7/30/2024	7	14.0	14.0
7/30/2024	SL01 - 6FT	7/30/2024	6	15.0	15.0	7/30/2024	7	<0.260	<0.260
7/30/2024	SL01 - 6FT	7/30/2024	6	<0.0181	13.8	7/30/2024	7	0.0309	15.2
7/30/2024	SL01 - 6FT	7/30/2024	6	13.8	13.8	7/30/2024	7	15.2	15.2

Figure 4
METALS AND INORGANIC SOIL CHEMISTRY MAP

Noble Energy, Inc. ~ Castor PC LA 36-68HN
 NWNW Sec. 36, T10N, R58W, 6th PM
 Weld County, Colorado
 40.801110°, -103.820774°

Project No. C024-167	API #	Facility # 427737
Date 12/28/24	Remediation # 34914	Filename 24167Q





LEGEND

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

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

**Figure 5
BACKGROUND SAMPLE SOIL CHEMISTRY MAP**

**Noble Energy, Inc. ~ Castor PC LA 36-68HN
NWNW Sec. 36, T10N, R58W, 6th PM
Weld County, Colorado
40.801110°, -103.820774°**

Project No. C024-167	API #	Facility # 427737
Date 12/28/24	Remediation # 34914	Filename 24167Q



Photo Log



Description:

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

Photo Log



Description:

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

Photo Log



Description:

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

Photo Log



Description:

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



Description:

#5-PWV N -5FT - No visual staining or odor



Description:

#6-PWV E -5FT - No visual staining or odor

Photo Log



Description:

#7-PWV S -5FT - No visual staining or odor

Photo Log



Description:

#8-PWV W -5FT - No visual staining or odor



Description:

#9-PWV B -6FT - No visual staining or odor

Photo Log



Description:

#10-SEP DL -3FT - No visual staining or odor

Photo Log



Description:

#11-SEP B -0.5 FT - No visual staining or odor



Description:

#12-heater treater B -0.5 FT - No visual staining or odor

Photo Log



Description:

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

Photo Log



Description:

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

Photo Log



Description:

#15-Scubber-1FT - No visual staining or odor

Photo Log



Description:

#16-SL01-6FT - No visual staining or odor 2.8pid

Photo Log



Description:

#17-SL02-3FT - No visual staining or odor