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## **Wellhead Closure Investigation and Environmental Summary**

ULRICH 23-26 Wellhead  
ECMC Remediation Project #32499  
Weld County, Colorado

### **Attachments:**

**Field Form**

**Figure 1 – Site Location Map**

**Figure 2 – Soil Sample and Field Screening Locations Map**

**Figure 3 – Supplemental Source Mass Removal Map**

**Table 1 – Field Data Summary Table**

**Table 2 – Summary of Volatile Organic Soil Chemistry Data**

**Table 3 – Summary of Polycyclic Aromatic Hydrocarbon Soil Chemistry Data**

**Table 4 – Summary of Soil Suitability for Reclamation**

**Table 5 – Summary of Metals in Soil Chemistry Data**

**Table 6- Summary of Groundwater Elevation Data and Organic Chemistry Data**

**Photographic Log**

**Wellhead Closure Checklist**

**RBU Checklist**



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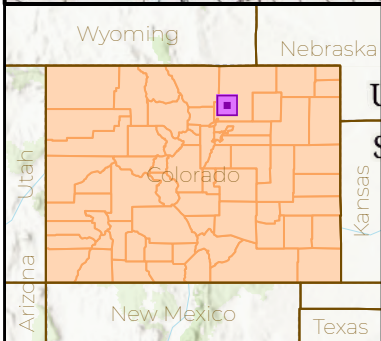
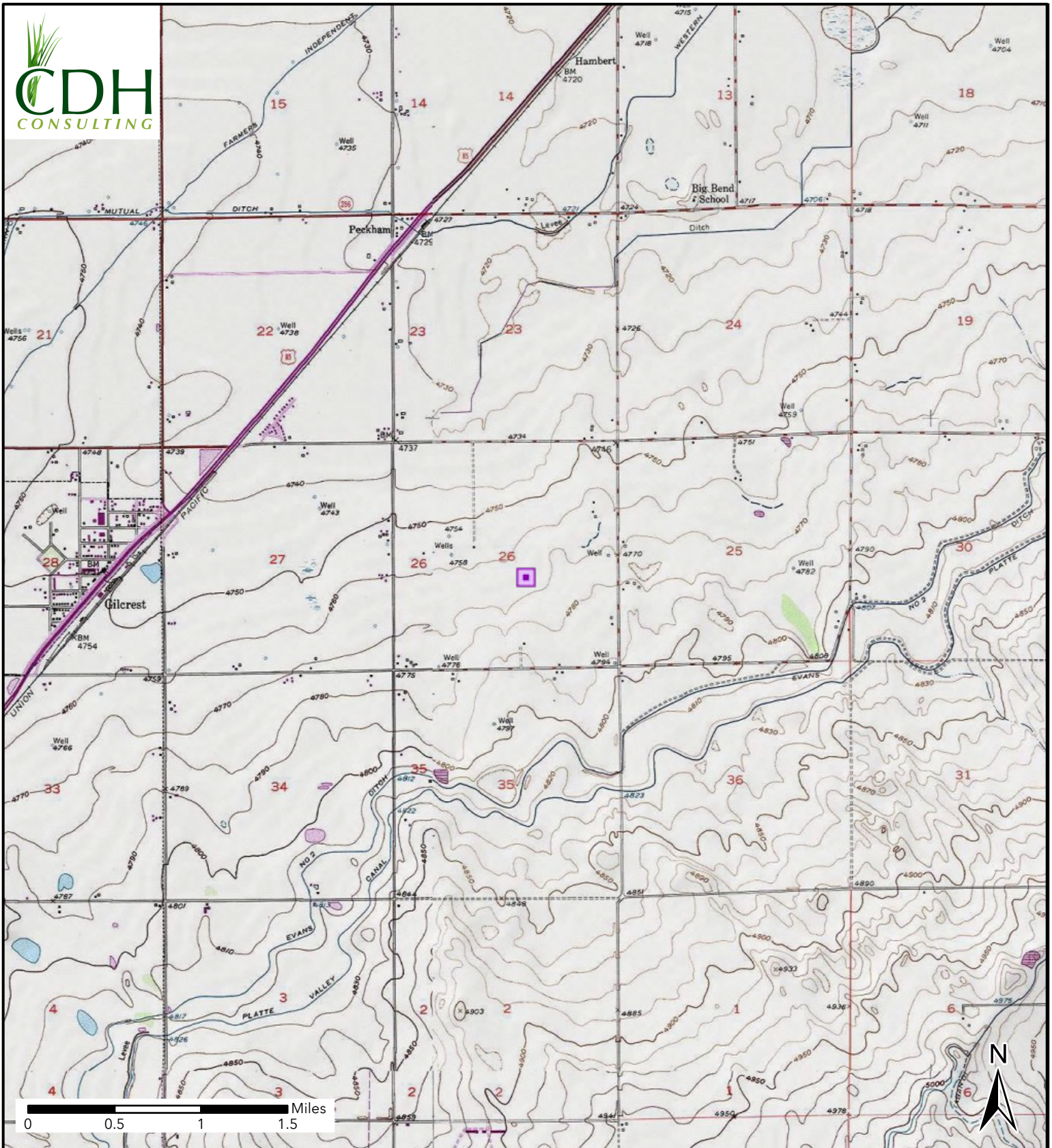
## **FIELD FORM**





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## FIGURES

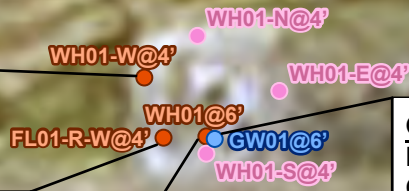


**Figure 1**  
**Site Location**  
**ULRICH 23-26**  
 NESW SEC 26-T8N-R66W  
 Weld County, Colorado  
 Noble Energy Inc.

Site Location

**WH01-W@4'**

Date: 8/7/2025  
 TPH: **1274.8** mg/kg  
 TPH GRO: **16.8** mg/kg  
 TPH DRO: **878** mg/kg  
 TPH ORO: **380** mg/kg  
 Fluorene: **0.763** mg/kg  
 1-Methyl - Naphthalene: **0.283** mg/kg  
 pH: **8.48**  
 Arsenic: **2.59** mg/kg  
 Lead: **17.7** mg/kg



**GW01@6'**

Date: 8/7/2025  
 Chloride Ion: **345** mg/L  
 Sulfate Ion: **451** mg/L

**FL01-R-W@4'**

Date: 8/7/2025  
 pH: **8.35**  
 Arsenic: **2.57** mg/kg  
 Lead: **14.1** mg/kg

**WH01@6'**

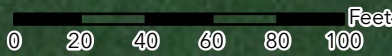
Date: 8/7/2025  
 pH: **8.50**  
 Arsenic: **2.22** mg/kg

NOTE:  
 XXXX@X = Sample Name @ Depth in Feet  
**BOLD** - Above ECMC Table 915-1 Standards  
 "mg/kg" = milligrams per kilogram  
 "mg/L" = milligrams per liter  
 TPH-GRO = Total petroleum hydrocarbons - gasoline range organics  
 TPH-DRO = Total petroleum hydrocarbons - diesel range organics  
 TPH-ORO = Total petroleum hydrocarbons - oil range organics



**Figure 2**  
**Sample Locations Map**  
 ULRICH 23-26  
 NESW-SEC 26-T8N-R66W  
 Weld County, Colorado  
 Noble Energy Inc

- Soil Sample
- Grab Groundwater Sample
- Screening Point



### Figure 3 Supplemental Source Mass Removal Map

ULRICH 23-26  
 NESW-SEC 26-T8N-R66W  
 Weld County, Colorado  
 Noble Energy Inc

- Soil Sample
- Background Sample
- Grab Groundwater Sample
- Screening Point
- 10'x10' Proposed Excavation



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## **TABLES**

**TABLE 1**  
**FIELD DATA SUMMARY TABLE**  
**NOBLE 100322**  
**ULRICH 23-26, WELD COUNTY, COLORADO**  
**REM # 32499**

Sample ID	Sample Date	Depth (ft)	GPS Data		PDOP Value	VOC Concentration (ppm)
			Latitude	Longitude		
WH01-N@4'	8/7/2025	4	40.281494	-104.742646	0.925610	5.3
WH01-S@4'	8/7/2025	4	40.281452	-104.742642	0.924707	8.8
WH01-E@4'	8/7/2025	4	40.281474	-104.742608	0.891138	18.7
WH01-W@4'	8/7/2025	4	40.281480	-104.742671	0.898123	52.1
WH01@6'	8/7/2025	6	40.281458	-104.742642	0.902682	20.9
FL-R-W@4'	8/7/2025	4	40.281458	-104.742662	0.889910	196.8
GW01@6'	8/7/2025	6	40.281464	-104.742648	NM	-
BKG01@4'	9/17/2025	4	40.281614	-104.742048	1.500000	0.0
BKG01@6'	9/17/2025	6	40.281614	-104.742048	1.500000	0.0
BKG02@4'	9/17/2025	4	40.281420	-104.743496	1.078814	0.0
BKG02@6'	9/17/2025	6	40.281420	-104.743496	1.078814	0.0
BKG03@4'	9/17/2025	4	40.282057	-104.742362	1.400000	0.0
BKG03@6'	9/17/2025	6	40.282057	-104.742362	1.400000	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

ft = Feet

TABLE 2  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
NOBLE 100322  
ULRICH 23-26, WELD COUNTY, COLORADO  
REM # 32499

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**		
WH01-W@4'	8/7/2025	4	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<b>1275</b>	<b>16.8</b>	<b>878</b>	<b>380</b>
WH01@6'	8/7/2025	6	<0.002	<0.002	<0.002	0.017	0.007	0.008	0.002	102	2.86	99.6	<100
FL-R-W@4'	8/7/2025	4	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	2.42	2.42	<25.0	<100

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
  5. Samples are reported as dry weight unless otherwise indicated in the laboratory PDF report(s)
- (<) = 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

TABLE 3  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
NOBLE 100322  
ULRICH 23-26, WELD COUNTY, COLORADO  
REM # 32499

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
WH01-W@4'	8/7/2025	4	0.306	<0.020	0.010	<0.020	<0.020	<0.020	0.021	<0.020	0.043	<b>0.763</b>	<0.020	0.265	<b>0.283</b>	<0.002
WH01@6'	8/7/2025	6	0.028	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.029	<0.020	<0.020	<0.002	0.004
FL01-R-W@4'	8/7/2025	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.006	<0.002

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. Samples are reported as dry weight unless otherwise indicated in the laboratory PDF report(s)
- (<) = Analytical result is less than the indicated laboratory reporting limit.  
mg/kg = Milligrams per kilogram  
ft = Feet

**TABLE 4**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE 100322**  
**ULRICH 23-26, WELD COUNTY, COLORADO**  
**REM # 32499**

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
WH01-W@4'	8/7/2025	4	<b>8.48</b>	0.938	3.49	0.453
WH01@6'	8/7/2025	6	<b>8.50</b>	0.866	2.64	0.699
FL01-R-W@4'	8/7/2025	4	<b>8.35</b>	0.772	3.03	0.488

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.

4. Samples are reported as dry weight unless otherwise indicated in the laboratory PDF report(s)

ft = Feet

EC = Electrical Conductivity

SAR = Sodium adsorption ratio

mmhos/cm = millimhos per centimeter

mg/L = milligrams per liter

(<) = Analytical result is less than the indicated laboratory reporting limit

TABLE 5  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
NOBLE 100322  
ULRICH 23-26, WELD COUNTY, COLORADO  
REM # 32499

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
WH01-W@4'	8/7/2025	4	<b>2.59</b>	<76.9	<0.356	<0.30*	<43.1	<b>17.7</b>	<24.4	<0.244	<0.750	<347
WH01@6'	8/7/2025	6	<b>2.22</b>	<78.2	<0.362	<0.30*	<43.8	<13.3	<24.8	<0.248	<0.762	<353
FL01-R-W@4'	8/7/2025	4	<b>2.57</b>	<71.2	<0.330	<0.30*	<40.0	<b>14.1</b>	<22.6	0.242	<0.695	<321

1. **Bold** faced values exceed the ECMC Table 915-1 limit(s), but are within 1.25x background concentrations.
2. **Bold** 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.
5. Samples are reported as dry weight unless otherwise indicated in the laboratory PDF report(s)

ECMC = Energy & Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit.

mg/kg = Milligrams per kilogram

ft = Feet

\* Indicates laboratory minimum detection limit in excess of SSL

TABLE 6  
SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA  
NOBLE 100322  
ULRICH 23-26, WELD COUNTY, COLORADO  
REM # 32499

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- Trimethyl- Benzene (µg/L)	1,3,5- Trimethyl- Benzene (µg/L)	TOC Elevation (ft)	Depth to Groundwater Below TOC (ft)	Depth to Groundwater Below Ground Surface (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
ECMC Table 915-1 Limits		5.0	560	700	1400	140	67	67					
GW01@6'	8/7/2025	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	NA	NA	6	NA	NA

1. Bold values exceed the ECMC limit(s)

2. Red highlighted groundwater analytical values indicate a regulatory exceedance

NP - No measurable LNAPL, NA - Not Analyzed, NL - No Limit, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed

**TABLE 7**  
**SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA**  
**NOBLE 100322**  
**ULRICH 23-26, WELD COUNTY, COLORADO**  
**REM # 32499**

Sample ID	Sample Date	Total Dissolved Solids (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
ECMC Table 915-1 Limits*		<1.25 x local background	250 or <1.25 x local background	250 or <1.25 x local background
GW01@6'	8/7/2025	1860	<b>345</b>	<b>451</b>
Background Concentration (Current)		NA	NA	NA

1. Bold values exceed the ECMC limit(s)
  2. Blue highlighted groundwater analytical values indicate a regulatory exceedance
- NP - No measurable LNAPL, NA - Not Analyzed, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed
- \*Dissolved metals refer to Colorado Regulation 41 Standards



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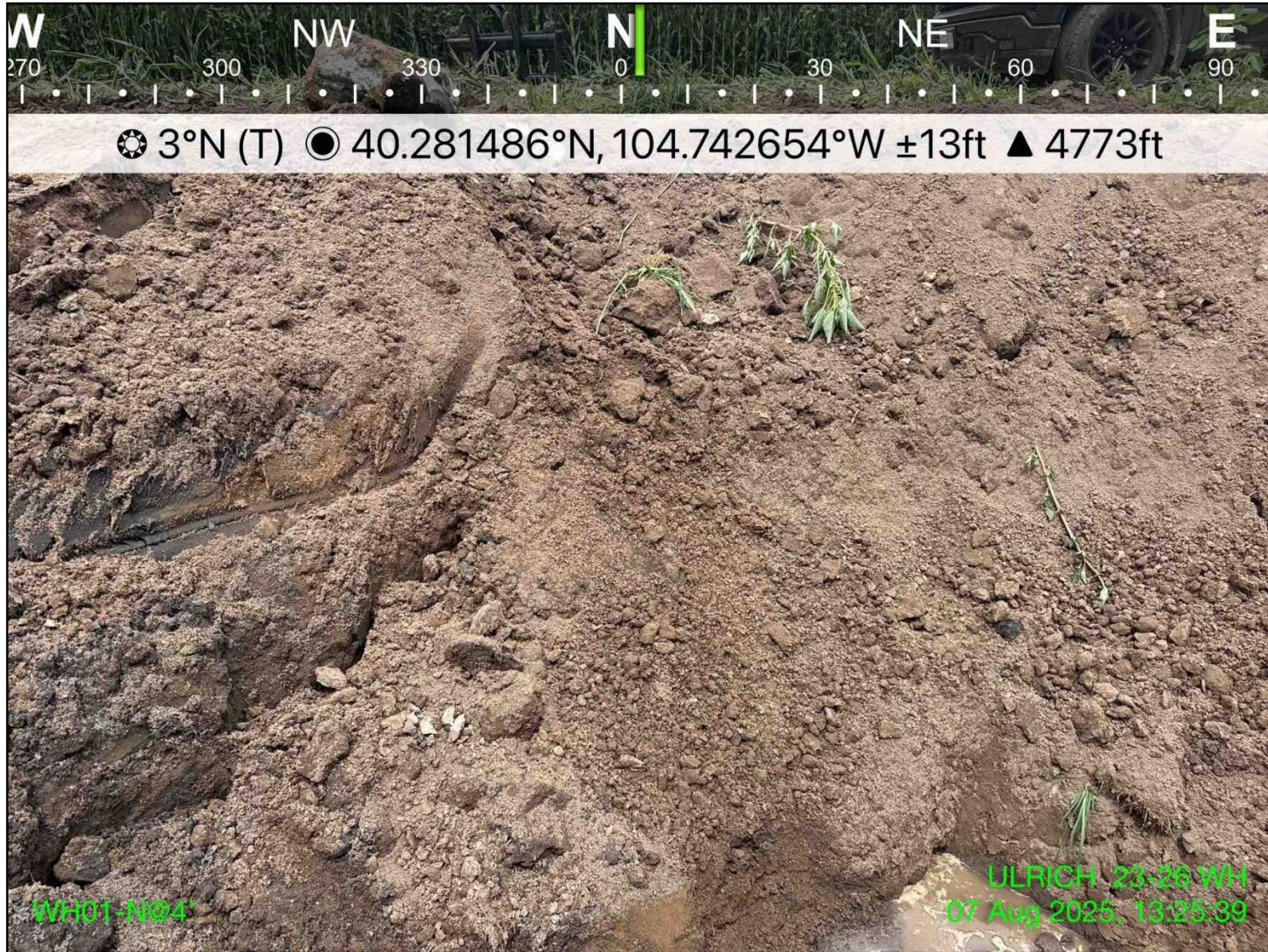
## **PHOTOGRAPHIC LOG**

**Photographic Log**  
ULRICH 23-26 – REM #32499  
Noble Energy, Inc.  
08/07/2025 & 09/17/2025



**Photo 1:** View of GW01 sample location and groundwater filling excavation, facing east

**Photographic Log**  
ULRICH 23-26 – REM #32499  
Noble Energy, Inc.  
08/07/2025 & 09/17/2025



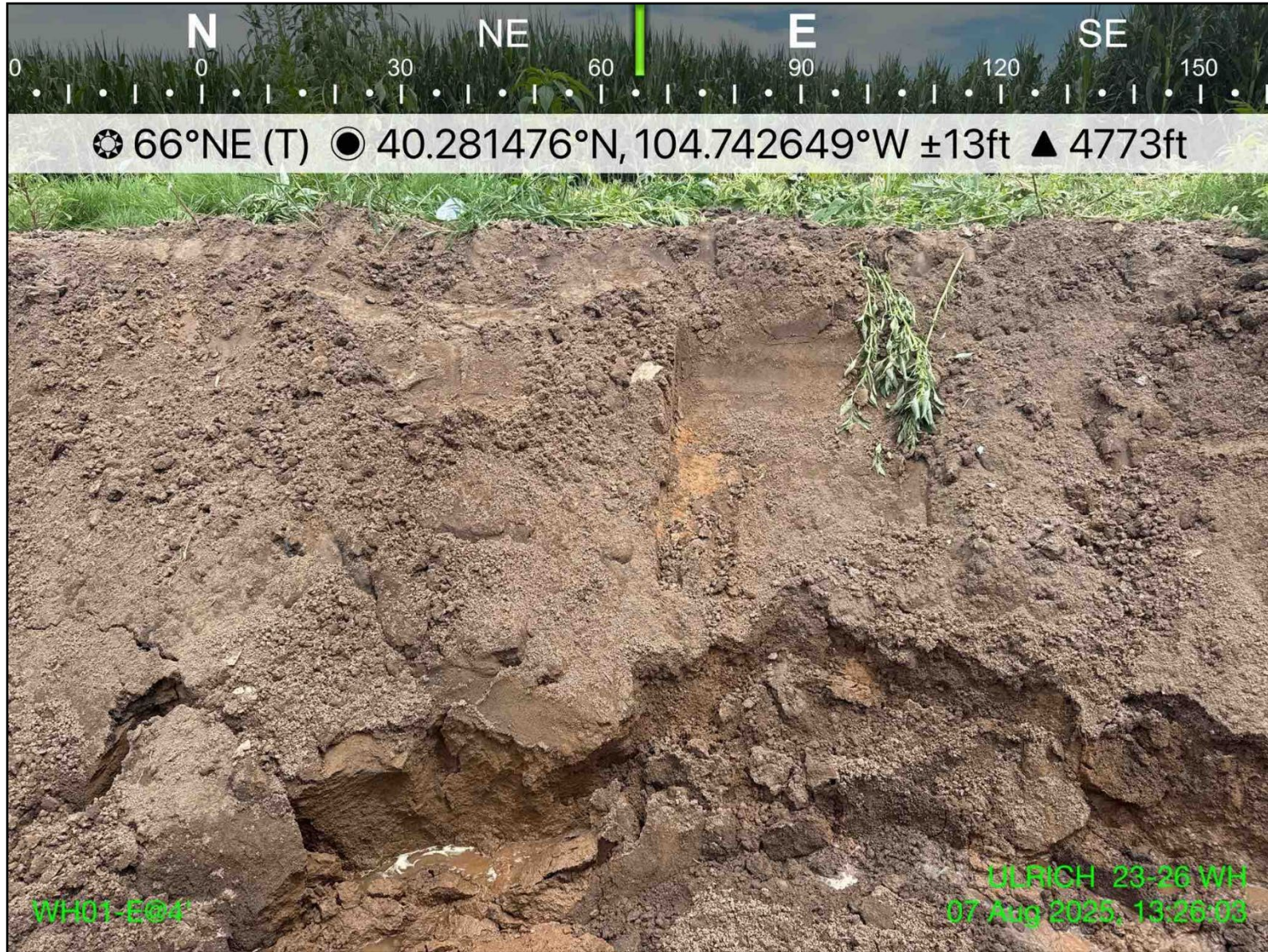
**Photo 2:** View of WH01-N screening location, facing north

**Photographic Log**  
ULRICH 23-26 – REM #32499  
Noble Energy, Inc.  
08/07/2025 & 09/17/2025



**Photo 3:** View of WH01-S screening location, facing south-southeast

**Photographic Log**  
ULRICH 23-26 – REM #32499  
Noble Energy, Inc.  
08/07/2025 & 09/17/2025



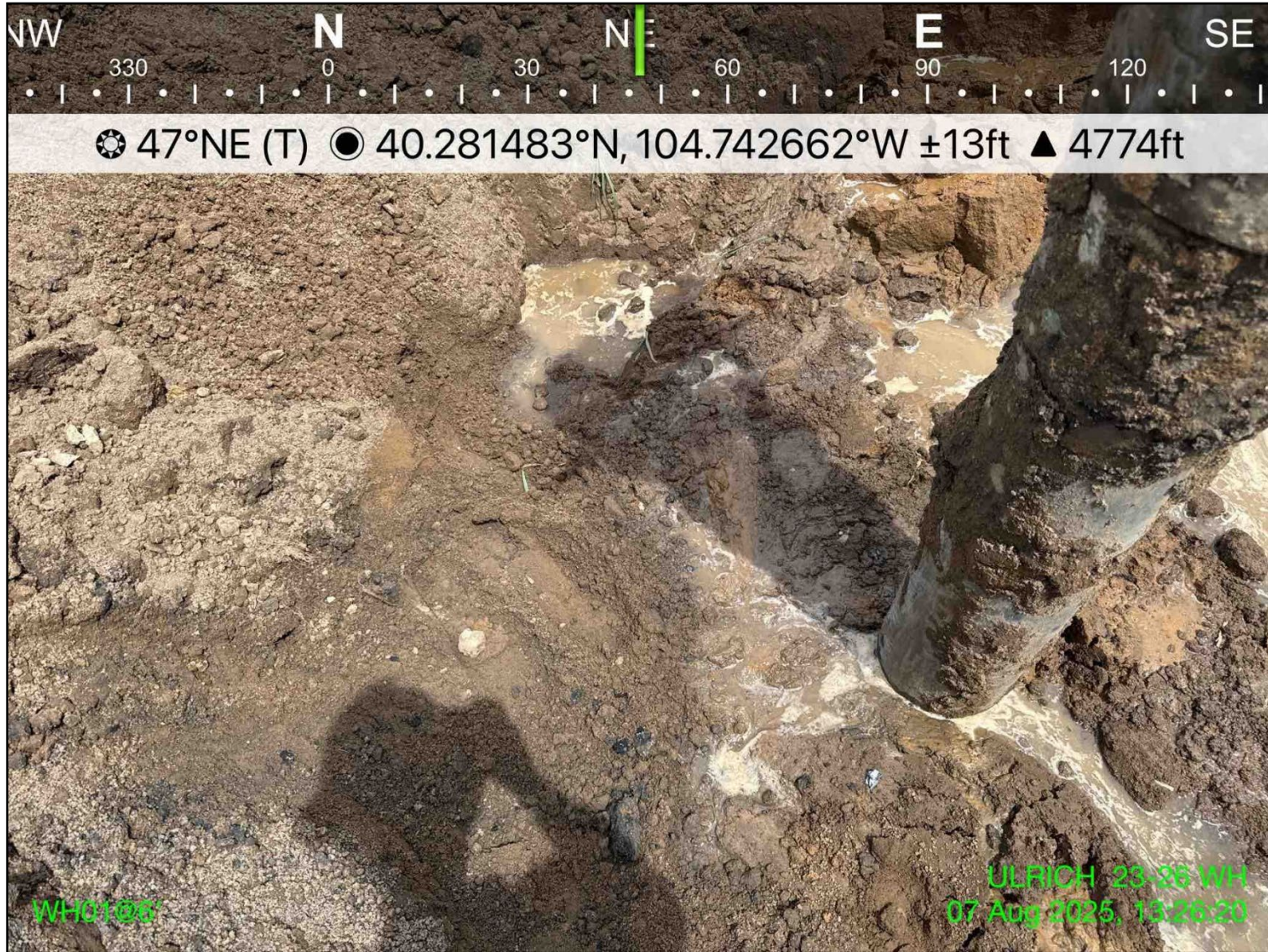
**Photo 4:** View of WH01-E screening location, facing east-northeast

**Photographic Log**  
ULRICH 23-26 – REM #32499  
Noble Energy, Inc.  
08/07/2025 & 09/17/2025



**Photo 5:** View of WH01-W sample location, facing west

**Photographic Log**  
ULRICH 23-26 – REM #32499  
Noble Energy, Inc.  
08/07/2025 & 09/17/2025



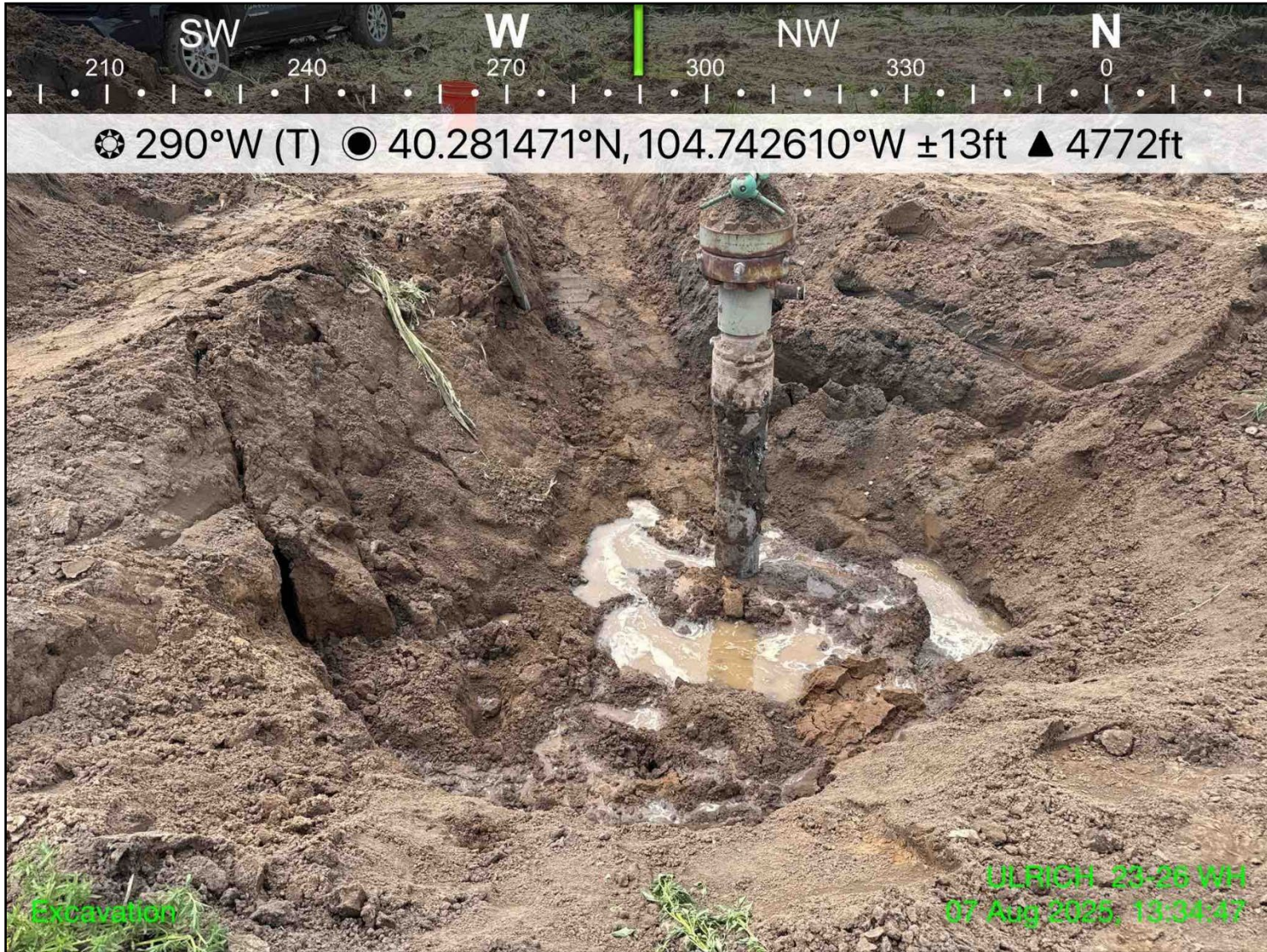
**Photo 6:** View of WH01 sample location, facing northeast

Photographic Log  
ULRICH 23-26 – REM #32499  
Noble Energy, Inc.  
08/07/2025 & 09/17/2025



Photo 7: View of FL01-R-W sample location, facing south-southwest

**Photographic Log**  
ULRICH 23-26 – REM #32499  
Noble Energy, Inc.  
08/07/2025 & 09/17/2025



**Photo 8:** View of excavation extent with groundwater, facing west-northwest



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## **WELLHEAD CLOSURE CHECKLIST**

## Wellhead Closure Checklist

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

Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure		Partially Buried Vault Closure
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Site Name & COGCC Facility Number: ULRICH 23-26 #294419	Date: 08/07/2025	Remediation Project #: 32499
Associated Wells: ULRICH 23-26	Age of Site: 02/09/2008 (spud date)	Number of Photos Attached: 8
Location: 40.281450, -104.742640		Estimated Facility Size (acres): ~0.1 acres

General Condition of Site: Good

USCS Soil Type: Well-graded sand (SW)      Estimated Depth to Groundwater: 6 feet

Hydrocarbon Impacted Soils / Spills : Staining and odor present in the excavation

Salt Crusted Soils or Impacted Vegetation: Not encountered

#### Wellhead(s)

Well API	123-25352						
Age	8/7/2008						
Condition of surface around wellhead	staining/odor present						
PID Readings	5.3-196.8 ppm						
Condition of subsurface (staining present)	staining/odor present						
PID Readings	5.3-196.8 ppm						
Sample taken? Location/Sample ID#	Yes, see attached						
Photo Number(s)	see attached						

Other observations regarding wellheads:

#### Summary

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

Total number of samples field screened: 6      Total number of samples collected: 3

Highest PID Reading: 196.8 ppm      Total number of samples submitted to lab for analysis: 3

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: None

Is additional investigation required?

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

Measured depth to groundwater: 6 feet      Was remedial groundwater removal conducted?      Yes      **No**

Date Groundwater was encountered: 8/7/2025      Commencement date of removal:

Sheen on groundwater?      Yes      **No**      Volume of groundwater removed prior to sampling: None

Free product observed?      Yes      **No**      Volume of groundwater removed post sampling: None

Total number of samples collected: 1      Total Volume of groundwater removed: None

Total number of samples submitted to lab for analysis: 1



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## **RBU CHECKLIST**

# Chevron Rockies Business Unit

## Field Qualitative Criteria for ECMC Reporting Associated with the Discovery of Potentially Impacted Material

If answered **Yes** to any of the questions listed below, this may suggest the presence of potentially impacted materials as outlined in ECMC Rule 912. Out of an abundance of caution, a “Yes” response will be reported to the ECMC within 24 hours after discovery, regardless of laboratory results. **Immediately notify the RBU Remediation Team.** Include a copy of this Field Qualitative Spill Criteria Checklist in the field Report.

Please answer the following questions when on-site:

1. Is there visible petroleum hydrocarbon staining in the soil?  
(Yes / No)
2. Does the soil sample from the stained area have a petroleum odor?  
(Yes / No)
3. Is there a petroleum hydrocarbon sheen on the nearby surface water?  
(Yes / No)
4. Does there appear to be a sheen on the surface of accumulated groundwater or seeps within the excavation indicative of petroleum?  
(Yes / No)
5. Is stained soil in contact with groundwater?  
(Yes / No)

Please Include relevant photos of the site conditions for items 1-5.

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Location name: ULRICH 23-26 WH (REM # 32499)

Please Circle Facility Type: Well / Flowline / Production Facility / Other