



## **Facility Closure Investigation and Environmental Summary**

Walcker USX AB01-08P Wellhead

ECMC Remediation Project #41669

Weld County, Colorado

### **Attachments:**

**Figure 1 – General Location Map**

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

**Table 1 – Soil Sample and Field Screening Location Information**

**Table 2 – Soil Analytical Results Summary Table – Volatile Organics**

**Table 3 – Soil Analytical Results Summary Table – PAHs**

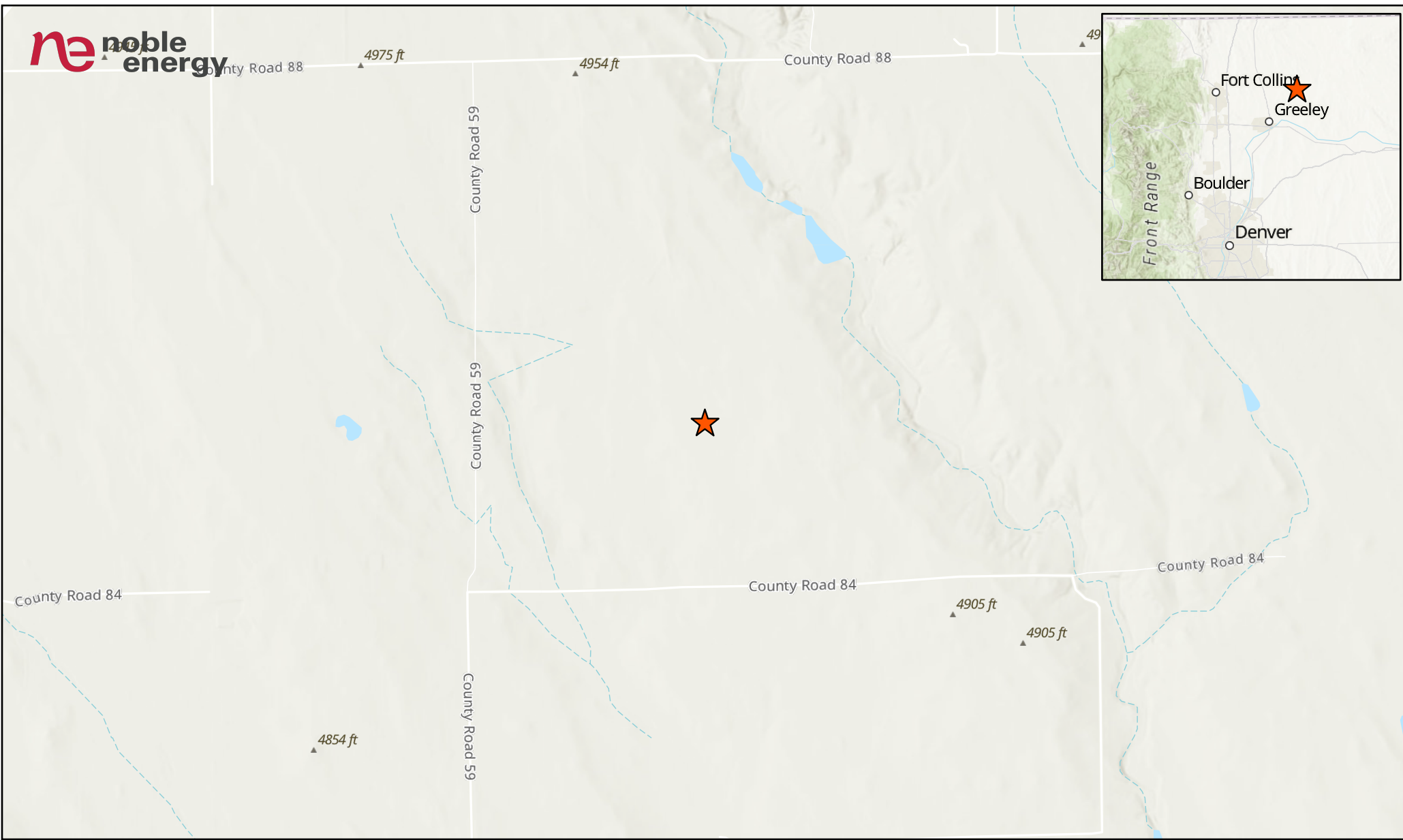
**Table 4 – Soil Analytical Results Summary Table – Soil Suitability**

**Table 5 – Soil Analytical Results Summary Table – Metals**

**Attachment A: Photographic Log**

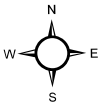
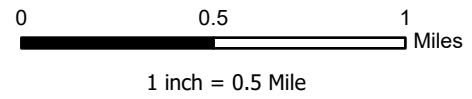
**Attachment B: Facility Closure Checklists**

## **FIGURES**



**LEGEND**

Site Location



Project No:	025-500
Map By:	JW
Date:	10/23/2025

**WALCKER USX AB01-08P WELLHEAD  
GENERAL LOCATION MAP**  
NOBLE ENERGY  
SE 1/4 NE 1/4 SECTION 1  
T7N R64W, 6TH PM  
WELD COUNTY, COLORADO



610 Garrison St., Unit T  
Lakewood, CO 80215  
303.378.4036

Figure
1

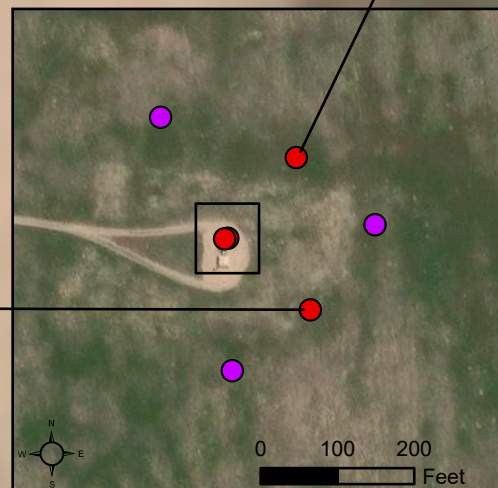
WH01@6	
8/4/2025	
Benzene (mg/kg):	<b>0.259</b>
Toluene (mg/kg):	<b>1.75</b>
Ethylbenzene (mg/kg):	<b>1.83</b>
1,2,4-TMB (mg/kg):	<b>4.83</b>
1,3,5-TMB (mg/kg):	<b>1.25</b>
Naphthalene (mg/kg):	<b>1.85</b>
TPH (mg/kg):	<b>1,473</b>
DRO (mg/kg):	<b>583</b>
Fluorene (mg/kg):	<b>0.652</b>
1-methylnaphthalene (mg/kg):	<b>5.16</b>
2-methylnaphthalene (mg/kg):	<b>5.90</b>
Arsenic (mg/kg):	<b>3.85</b>
Barium (mg/kg):	<b>279</b>

BKG01@4	
8/4/2025	
pH:	<b>8.53</b>
Arsenic (mg/kg):	<b>4.28</b>
BKG01@6	
8/4/2025	
pH:	<b>8.66</b>
Arsenic (mg/kg):	<b>103</b>
Barium (mg/kg):	<b>109</b>
Copper (mg/kg):	<b>0.479</b>
Lead (mg/kg):	<b>24.8</b>
Selenium (mg/kg):	<b>34.9</b>
Zinc (mg/kg):	<b>7.32</b>

FLR01@4	
8/4/2025	
TPH (mg/kg):	<b>1,081</b>
ORO (mg/kg):	<b>749</b>
Arsenic (mg/kg):	<b>3.33</b>
Barium (mg/kg):	<b>1,550</b>
Copper (mg/kg):	<b>68.5</b>
Lead (mg/kg):	<b>15.8</b>
Selenium (mg/kg):	<b>0.261</b>
Zinc (mg/kg):	<b>967</b>

- WH01-N@4 (40.6)
- WH01-E@4 (3.5)
- WH01-S@4 (2.5)

BKG02@4	
8/4/2025	
Arsenic (mg/kg):	<b>5.94</b>
Barium (mg/kg):	<b>95.3</b>
BKG02@6	
8/4/2025	
pH:	<b>8.34</b>
Arsenic (mg/kg):	<b>6.21</b>
Barium (mg/kg):	<b>106</b>

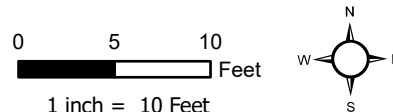


LABEL LEGEND	
XXXX@X: SAMPLE NAME @ DEPTH IN FEET	
WH: WELLHEAD SAMPLE	
FLR: FLOWLINE RISER SAMPLE	
BKG: BACKGROUND SAMPLE	
DRO: DIESEL RANGE ORGANICS	
ORO: OIL RANGE ORGANICS	
TMB: TRIMETHYLBENZENE	
TPH: TOTAL PETROLEUM HYDROCARBONS	
<b>BOLD</b> : ABOVE ECMC TABLE 915-1 STANDARDS	
<b>BOLD</b> : ABOVE ECMC TABLE 915-1 GWSSL, REPRESENTATIVE OF BACKGROUND LEVELS	

### Legend

- Soil Sample
- Screening Location
- Proposed Background Location

- NOTES:
- Sample Label (PID Result in ppm)
  - ppm = parts per million
  - PID = photoionization detector



Project No: 025-500	<b>WALCKER USX AB01-08P WELLHEAD SOIL SAMPLE AND FIELD SCREENING LOCATIONS</b> NOBLE ENERGY SE 1/4 NE 1/4 SECTION 1 T7N R64W, 6TH PM WELD COUNTY, COLORADO		610 Garrison St., Unit T Lakewood, CO 80215 303.378.4036	Figure
Map By: JW				
Date: 10/23/2025				

Drawn: Figure 2 - Template Noble Wellhead - Soil Sample and Field Screening Locations - BKG Wellhead

## **TABLES**

**TABLE 1**  
**FIELD DATA SUMMARY TABLE**  
**NOBLE 100322**  
**WALCKER USX AB01-08P WELLHEAD, WELD COUNTY, COLORADO**  
**REM # 41669**

Sample ID	Sample Date	Depth (ft-bgs)	GPS Data Latitude/Longitude		VOC Concentration (ppm)
WH01@6	8/4/2025	6	40.604191	-104.489929	133.3
FLR01@4	8/4/2025	4	40.604191	-104.489944	0.3
WH01-N@4	8/4/2025	4	40.604197	-104.489929	40.6
WH01-E@4	8/4/2025	4	40.604191	-104.489944	3.5
WH01-S@4	8/4/2025	4	40.604183	-104.489929	2.5
BKG01@4	8/4/2025	4	40.604477	-104.489602	0.0
BKG01@6	8/4/2025	6	40.604477	-104.489602	0.0
BKG02@4	8/4/2025	4	40.603932	-104.489545	0.0
BKG02@6	8/4/2025	6	40.603932	-104.489545	0.1

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).

ppm - Parts per million

ft-bgs - feet below ground surface

TABLE 2  
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA  
NOBLE 100322  
WALCKER USX AB01-08P WELLHEAD, WELD COUNTY, COLORADO  
REM # 41669

Sample ID	Sample Date	Depth (ft-bgs)	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@6	8/4/2025	6	0.259	1.75	1.83	8.96	4.83	1.25	1.85	1,473	467	583	423
FLR01@4	8/4/2025	4	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	1,081	<0.200	332	749

1. **Bold** faced 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. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit
  4. \*\* Summation of GRO+DRO+ORO must be less than 500 mg/kg
- TPH-GRO = Total petroleum hydrocarbons - gasoline range organics  
TPH-DRO = Total petroleum hydrocarbons - diesel range organics  
TPH-ORO = Total petroleum hydrocarbons - oil range organics  
ft-bgs - feet below ground surface  
mg/kg - milligrams per kilogram

TABLE 3  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
NOBLE 100322  
WALCKER USX AB01-08P WELLHEAD, WELD COUNTY, COLORADO  
REM # 41669

Sample ID	Sample Date	Depth (ft-bgs)	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@6	8/4/2025	6	0.421	0.085	0.010	<0.020	0.024	<0.020	0.053	<0.020	<0.020	<b>0.652</b>	<0.020	0.042	<b>5.16</b>	<b>5.90</b>
FLR01@4	8/4/2025	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	0.007

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

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

3. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit

ft-bgs - feet below ground surface

mg/kg - milligrams per kilogram

**TABLE 4**  
**SUMMARY OF SOIL SUITABILITY FOR RECLAMATION**  
**NOBLE 100322**  
**WALCKER USX AB01-08P WELLHEAD, WELD COUNTY, COLORADO**  
**REM # 41669**

Sample ID	Sample Date	Depth (ft-bgs)	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@6	8/4/2025	6	8.00	0.629	0.589	0.313
FLR01@4	8/4/2025	4	7.92	0.391	0.235	0.126
BKG01@4	8/4/2025	4	<b>8.53</b>	0.302	1.38	0.318
BKG01@6	8/4/2025	6	<b>8.66</b>	0.270	1.85	0.220
BKG02@4	8/4/2025	4	8.29	0.305	0.798	0.421
BKG02@6	8/4/2025	6	<b>8.34</b>	0.278	0.874	0.410
Maximum Background Concentration			8.66	0.305	1.85	0.421

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

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

3. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit

ft-bgs - feet below ground surface

EC - Electrical Conductivity

SAR - Sodium adsorption ratio

mmhos/cm - millimhos per centimeter

mg/L - milligrams per liter

TABLE 5  
SUMMARY OF METALS IN SOIL CHEMISTRY DATA  
NOBLE 100322  
WALCKER USX AB01-08P WELLHEAD, WELD COUNTY, COLORADO  
REM # 41669

Sample ID	Sample Date	Depth (ft-bgs)	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@6	8/4/2025	6	<b>3.85</b>	<b>279</b>	<0.337	<0.20*	<40.8	<12.4	<23.0	0.242	<0.709	<328
FLR01@4	8/4/2025	4	<b>3.33</b>	<b>1550</b>	<0.355	<0.20*	<b>68.5</b>	<b>15.8</b>	<24.3	<b>0.261</b>	<0.748	<b>967</b>
BKG01@4	8/4/2025	4	<b>4.28</b>	<75.0	<0.347	<0.20*	<42.1	<12.8	<23.8	<0.238	<0.731	<338
BKG01@6	8/4/2025	6	<b>103</b> [1]	<b>109</b>	<b>0.479</b>	<0.20*	<42.0	<b>24.8</b>	<b>34.9</b>	<b>7.32</b>	<0.730	<338
BKG02@4	8/4/2025	4	<b>5.94</b>	<b>95.3</b>	<0.352	<0.19*	<42.6	<13.0	<24.1	<0.241	<0.741	<343
BKG02@6	8/4/2025	6	<b>6.21</b>	<b>106</b>	<0.351	<0.20*	<42.5	<12.9	<24.0	<0.240	<0.738	<341
1.25 X Maximum Background Concentration			7.76	136	0.599	-	-	31.0	43.6	9.15	-	-

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)

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

4. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit

\* Indicates laboratory reporting or minimum detection limit in excess of SSL

ft-bgs - feet below ground surface

mg/kg - milligrams per kilogram

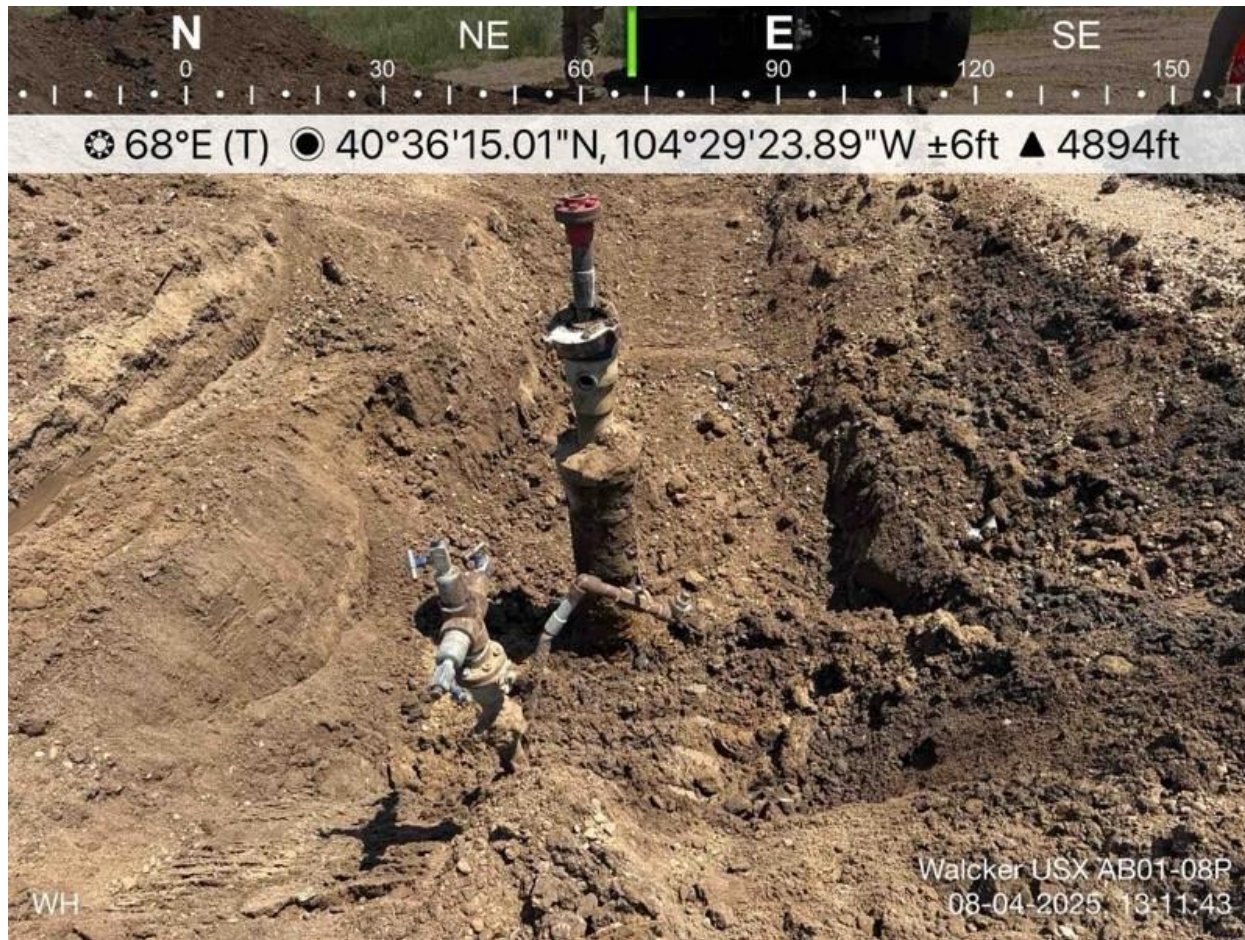
[1] - Laboratory analytical results appear to be anomalous for arsenic in soil sample BKG01@6 and will therefore not be used in calculating the maximum background concentration

**ATTACHMENT A  
PHOTOGRAPHIC LOG**

Walcker USX AB01-08P Historical Release Photographic Log



Walcker USX AB01-08P Historical Release Photographic Log



Walcker USX AB01-08P Historical Release Photographic Log



**ATTACHMENT B  
FACILITY CLOSURE CHECKLISTS**

# 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 of 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.

See attached photolog

Walcker USX AB01-08P

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Location name

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

## 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	
Site Name & COGCC Facility Number: Walcker USX AB01-08P, 416170		Date: 8/4/2025				Remediation Project #: 41669			
Associated Wells: NA		Age of Site: 7/29/2010 - spud date				Number of Photos Attached: 3			
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.604180 / -104.489920							Estimated Facility Size (acres): ~0.01		
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)  Hydrocarbon odor was in some of the samples collected from the wellhead excavation									
USCS Soil Type: ML					Estimated Depth to Groundwater: Unknown as none encountered				
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) Yes, size and extent currently unknown; remedial excavation will occur as soon as possible.									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None encountered or observed									
Wellhead(s)									
Well API	05-123-31301								
Age	7/29/2010 - spud date								
Condition of surface around wellhead	Odor								
PID Readings	0.3 - 133.3 ppm								
Condition of subsurface (staining present)	Odor								
PID Readings	0.3 - 133.3 ppm								
Sample taken? Location/Sample ID#	WH01@6, FLR01@4								
Photo Number(s)	1-3								
Other observations regarding wellheads: NA									
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: 5					
Highest PID Reading: 133.3 ppm				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?									
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:									