

Wellhead Closure Checklist						
COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form						
Additional attachments (optional):		Pit Closure —		Tank Battery Closure —	Flowline Closure 04/24/23, 10/12-10/13/23	Partially Buried Vault Closure —
Site Name & COGCC Facility Number: HSR - Cutler #14-31		Date: 04/19/23				Remediation Project #: 27651
Associated Wells: 05-123-15168		Age of Site: Years				Number of Photos Attached: 1
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)					40.263460 / -104.708560	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)						
Good Condition						
USCS Soil Type: Clayey SAND				Estimated Depth to Groundwater: Approx. 20-30'		
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)						
Slight hydrocarbon odor observed in excavation, no staining.						
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)						
None observed.						
Wellhead(s)						
Well API	05-123-15168					
Age	Years					
Condition of surface around wellhead	Good - Per Crew					
PID Readings	N/A - Excavated Upon Arrival					
Condition of subsurface (staining present)	HC odor observed					
PID Readings	2.2	1.5	450.2	4.4	428.7	
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01	
Photo Number(s)	See photolog					
Other observations regarding wellheads:						
Well casing cut/capped following assessment.						
Summary						
Was impacted soil identified? No <input type="checkbox"/> Yes - less than 10 cubic yards <input checked="" type="checkbox"/> Yes - more than 10 cubic yards <input type="checkbox"/>						
Total number of samples field screened: 5				Total number of samples collected: 5		
Highest PID Reading: 450.2				Total number of samples submitted to lab for analysis: 5		
If more than 10 cubic yards of impacted soil were observed:						
Vertical extent:				Estimated spill volume:		
Lateral extent: N/A				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? Yes <input type="checkbox"/> No <input type="checkbox"/>		
Date Groundwater was encountered:				Commencement date of removal:		
Sheen on groundwater? Yes <input type="checkbox"/> No <input type="checkbox"/>				Volume of groundwater removed prior to sampling:		
Free product observed? Yes <input type="checkbox"/> No <input type="checkbox"/>				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:						

Flowline Closure Checklist

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

Additional Attachments:		Tank Battery Closure		Wellhead Closure	04/19/23		Pit Closure		Partially Buried Vault Closure	
Site Name & COGCC Facility Number: HSR - Culter #14-31		Date: 04/24/23, 10/12/23 - 10/13/23						Remediation Project #: 27651		
Associated Wells: 05-123-15168		Age of Site: Years						Number of Photos Attached: 8		
Starting point: (GPS coordinates and descriptions) 40.263469 / -104.708538 at well										
End point: (GPS coordinates and descriptions) 40.265384 / -104.710473 at separator										
USCS Soil Type: Clayey SAND					Estimated Depth to Groundwater: Approx. 20-30'					
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.										
Flowlines										
Flowline type	O, G, W									
Depth	Approx. 4-5'									
Age	Years									
Length	Approx. 890'									
Construction Material	Steel									
Were flowlines pulled?	Yes - Flowline Removed									
Visual Integrity of lines	Good - Per integrity test.									
Visual impacts if trenched	None observed.									
PID Readings if trenched	3.0	2.6	2.7	2.9	2.6	0.7	0.5	0.1		
Sample taken? Location/Sample ID#	FL-SS-01	FL-SS-02	FL-SS-03	FL-SS-04	FL-SS-05	FL-SS-06	FL-SS-07	FL-SS-08		
Photo Number(s)	See photolog									
Other observations regarding on location flowlines: Flowline removed. Pt. A assessed during wellhead decommissioning, Pt. B assessed during separate flowline assessment. Change of direction assessed.										
Summary										
Was impacted soil identified? <input checked="" type="checkbox"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards										
Total number of samples field screened: 8					Total number of samples collected: 8					
Highest PID Reading: 3.0					Total number of samples submitted to lab for analysis: 1					
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 Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils										
Measured depth to groundwater:					Was remedial groundwater removal conducted? Yes No					
Date Groundwater was encountered:					Commencement date of removal:					
Sheen on groundwater? Yes No					Volume of groundwater removed prior to sampling:					
Free product observed? Yes 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:										



FIGURES

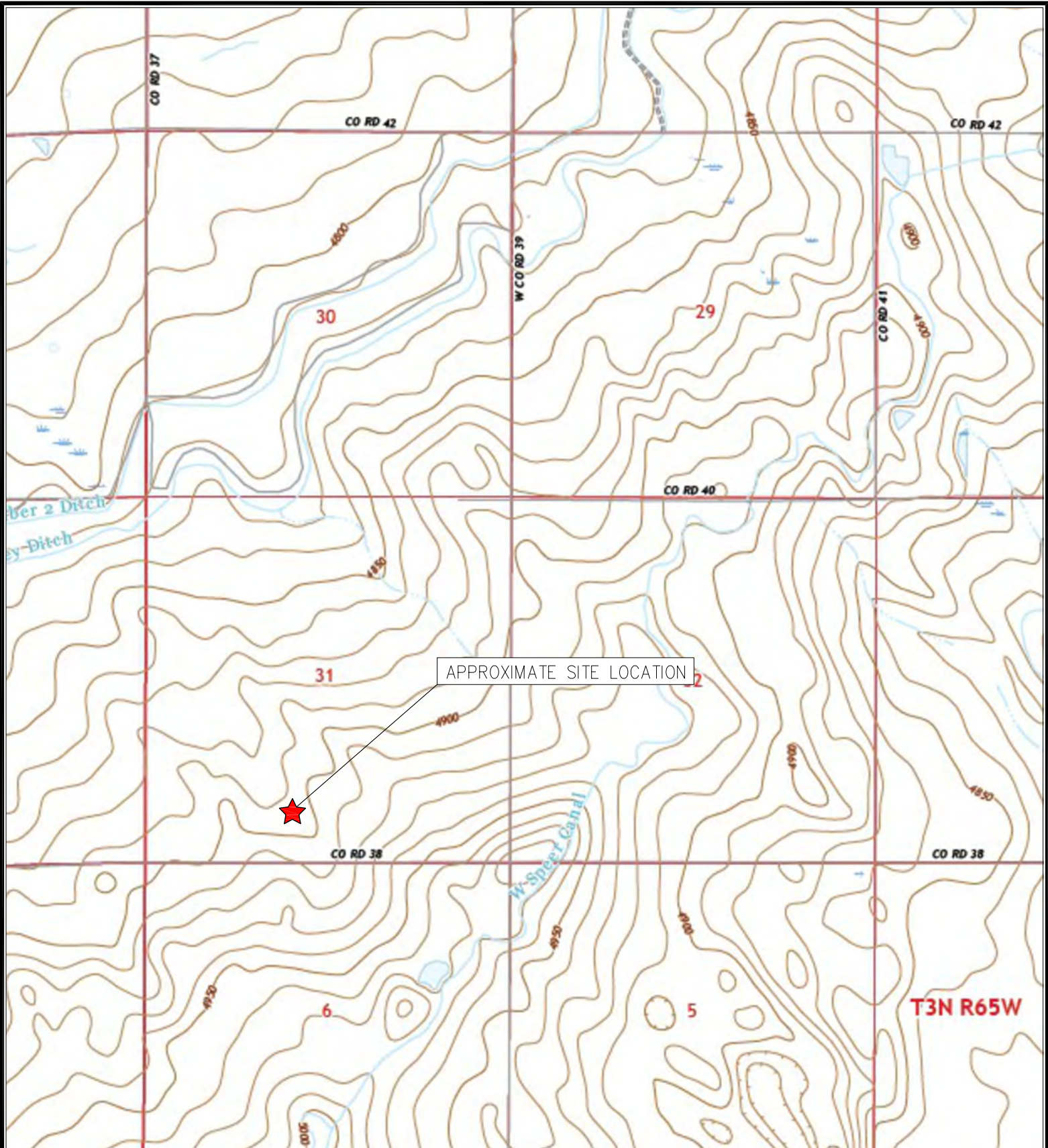
Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Map

Figure 5: Metals in Soil Map



TOPOGRAPHIC SITE LOCATION MAP
 HSR-CUTLER #14-31
 CLOSURE ASSESSMENT
 40.263460 / -104.708560
 SE 1/4 SW 1/4 SEC. 31 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-15168
 REMEDIATION # 27651



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

8000 W 44th Ave, Wheat Ridge, CO 80033
 Ph: 303-433-0479 • F: 303-325-5449

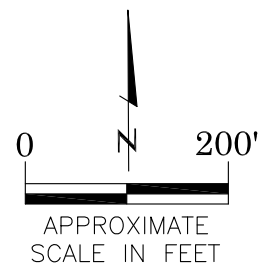
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP
 LA SALLE, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

- FORMER HSR-CUTLER #14-31 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE SAMPLE LOCATIONS - FIELD SCREENED
- APPROXIMATE FLOWLINE SAMPLE LOCATIONS - LAB SUBMITTED



AERIAL SITE LOCATION MAP

HSR-CUTLER #14-31
CLOSURE ASSESSMENT
40.263460 / -104.708560
SE¼ SW¼ SEC.31 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-15168
REMEDATION # 27651

FIGURE NO.

2

DRAWN BY:

BU



EAGLE
ENVIRONMENTAL
CONSULTING, LLC
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449

LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
R = TPH-RRO (mg/kg)
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)
Brn= BORON (mg/L)
EC = SPECIFIC CONDUCTANCE (mmhos/cm)
SAR= SODIUM ADSORPTION RATIO
pH = pH (pH UNITS)

mg/kg = MILLIGRAMS PER KILOGRAM
mg/L = MILLIGRAMS PER LITER
mmhos/cm = MILLIMHOS PER CENTIMETER

(BRL) = ALL VALUES BELOW REGULATORY LIMITS

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS
TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

NOTES:
VALUES/CONCENTRATIONS EXCEEDING REGULATORY LIMITS, ONLY, DISPLAYED.

VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

VALUES PRESENTED WITH ASTERISK (*) EXCEED ECMC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

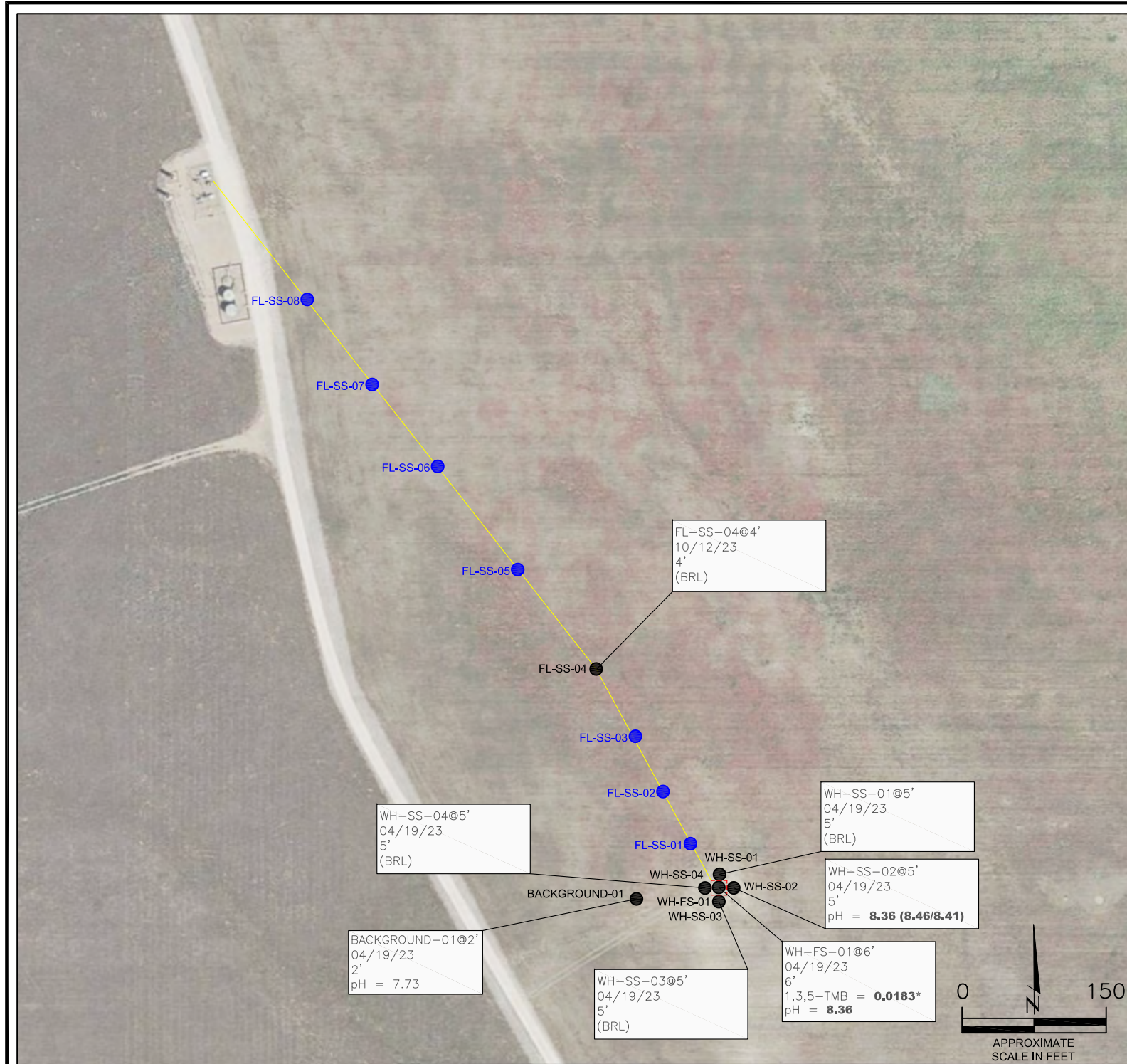
SOIL ANALYTICAL MAP
HSR-CUTLER #14-31
CLOSURE ASSESSMENT
40.263460 / -104.708560
SE¼ SW¼ SEC.31 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-15168
REMEDIAL # 27651

FIGURE NO.
3

DRAWN BY:
BU



EAGLE
ENVIRONMENTAL
CONSULTING, LLC
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449



LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

(BRL) = ALL VALUES BELOW REGULATORY LIMITS

NOTES:
VALUES/CONCENTRATIONS EXCEEDING REGULATORY LIMITS,
ONLY, DISPLAYED.

VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1
REGULATORY LIMITS.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

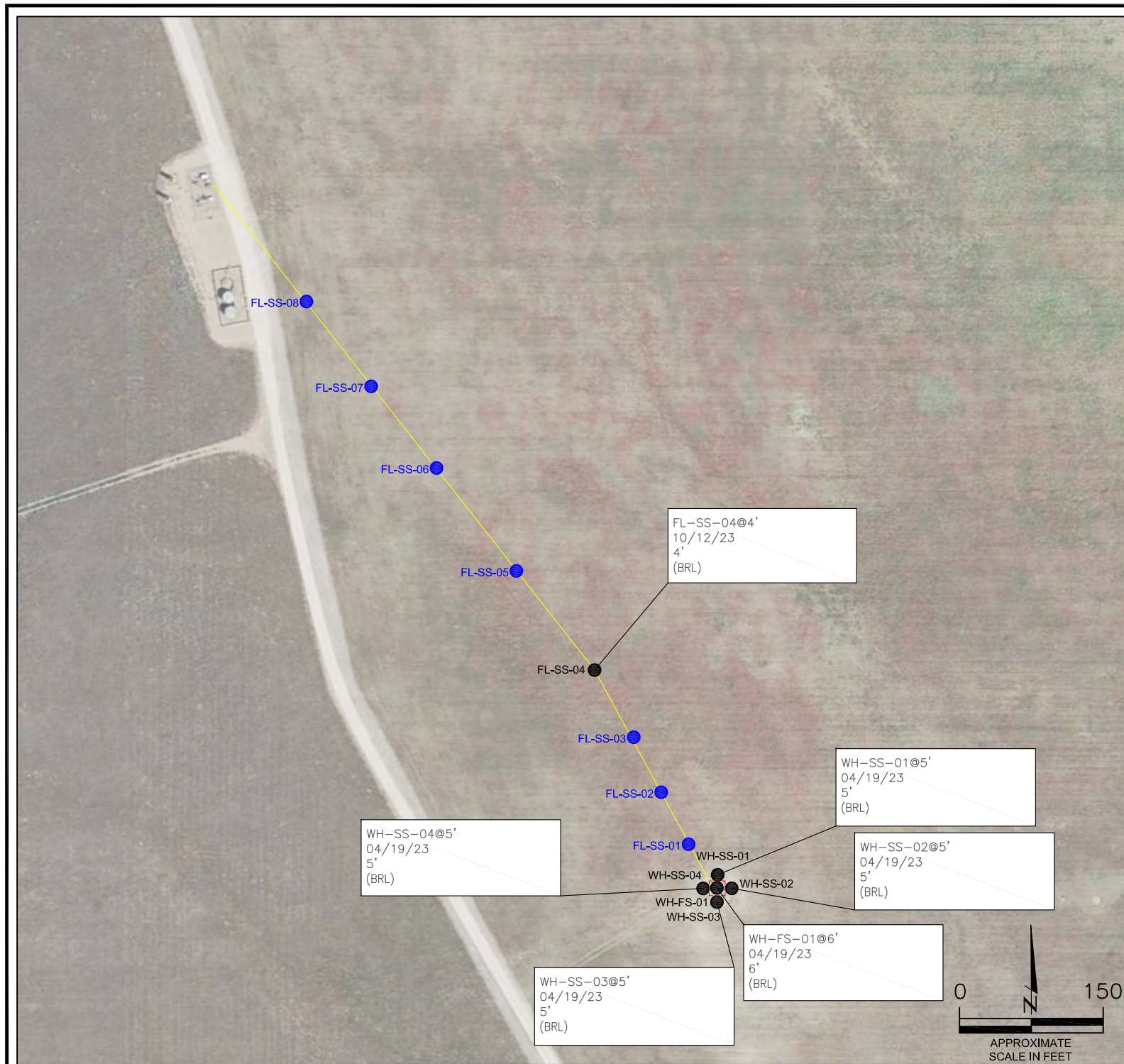
POLYCYCLIC AROMATIC HYDROCARBONS MAP
HSR-CUTLER #14-31
CLOSURE ASSESSMENT
40.263460 / -104.708560
SE¼ SW¼ SEC.31 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-15168
REMEDATION # 27651

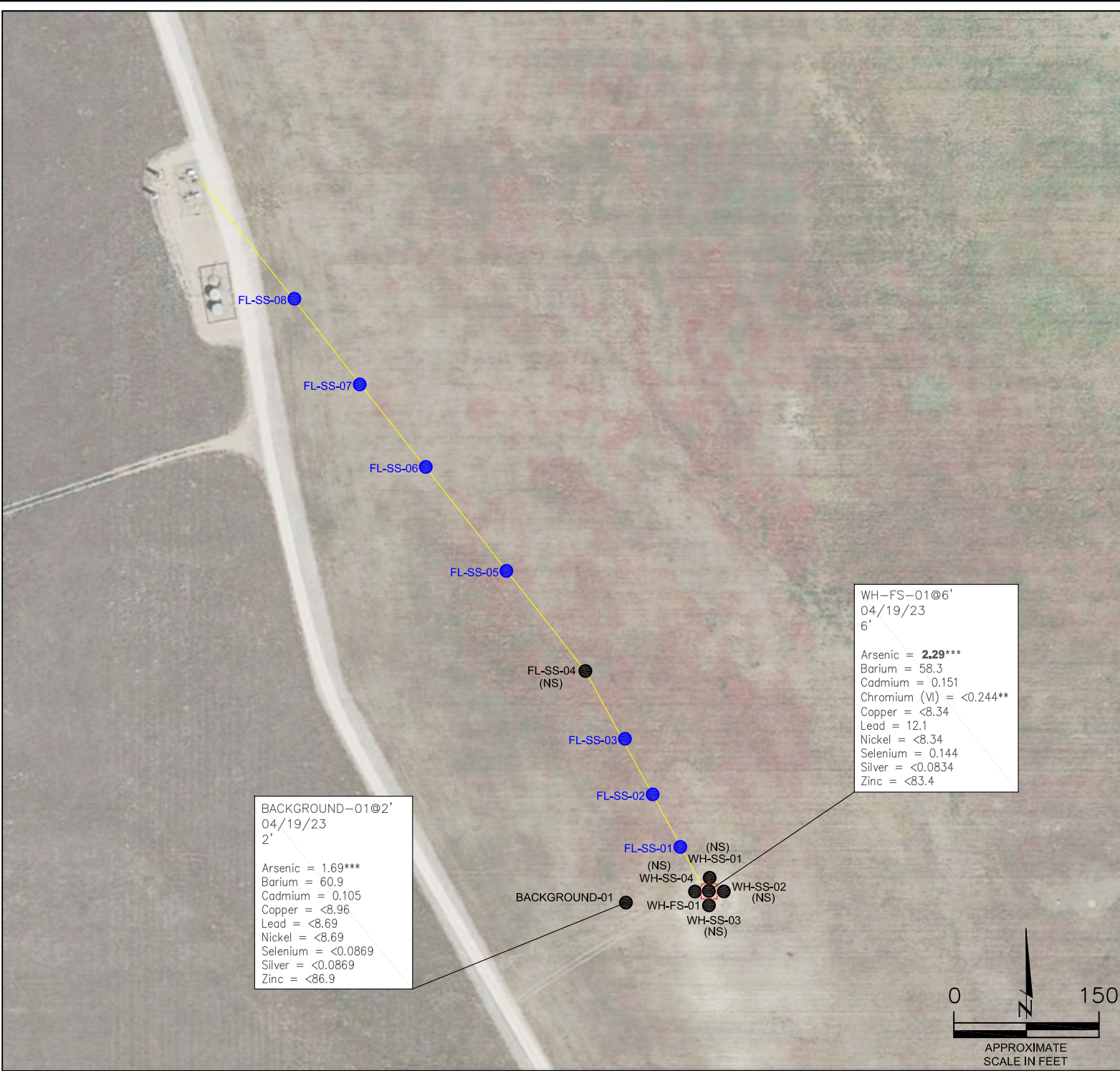
FIGURE NO.
4

DRAWN BY:
BU



EAGLE
ENVIRONMENTAL
CONSULTING, LLC
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449





LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH
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)

mg/kg = MILLIGRAMS PER KILOGRAM

(NS) - NOT SAMPLED

NOTES:

VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT/OR ABOVE LABORATORY REPORTING LIMITS AND/OR MINIMUM DETECTION LIMITS.

VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

*VALUES EXCEED ECMC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.

**ACHIEVABLE PRACTICAL QUANTITATIVE LIMITS FOR HEXAVALENT CHROMIUM (Cr VI) IN SOILS IS IN THE RANGE OF 0.1 TO 1 mg/kg.

***ARSENIC IS NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVEL (2.11 mg/kg) IS 1.25*BACKGROUND (1.69 mg/kg).

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

BACKGROUND-01@2'
04/19/23
2'
Arsenic = 1.69***
Barium = 60.9
Cadmium = 0.105
Copper = <8.96
Lead = <8.69
Nickel = <8.69
Selenium = <0.0869
Silver = <0.0869
Zinc = <86.9

WH-FS-01@6'
04/19/23
6'
Arsenic = **2.29*****
Barium = 58.3
Cadmium = 0.151
Chromium (VI) = <0.244**
Copper = <8.34
Lead = 12.1
Nickel = <8.34
Selenium = 0.144
Silver = <0.0834
Zinc = <83.4

FL-SS-01 (NS)
WH-SS-01 (NS)
WH-SS-04 (NS)
WH-SS-02 (NS)
WH-SS-03 (NS)
BACKGROUND-01

METALS IN SOIL MAP
HSR-CUTLER #14-31
CLOSURE ASSESSMENT
40.263460 / -104.708560
SE 1/4 SW 1/4 SEC. 31 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-15168
REMEDIAL # 27651

FIGURE NO.
5

DRAWN BY:
BU



EAGLE
ENVIRONMENTAL
CONSULTING, LLC
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449



TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
HSR - CUTLER #14-31
CLOSURE ASSESSMENT
40.263460 / -104.708560
SE¼ SW¼ SEC.31 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-15168
REMEDATION # 27651

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.263490 / -104.708569)	04/19/23	5	2.2	Y
WH-SS-02 @ 5' (40.263471 / -104.708547)	04/19/23	5	1.5	Y
WH-SS-03 @ 5' (40.263459 / -104.708569)	04/19/23	5	450.2	Y
WH-SS-04 @ 5' (40.263476 / -104.708589)	04/19/23	5	4.4	Y
WH-FS-01 @ 6' (40.263474 / -104.708567)	04/19/23	6	428.7	Y
Background-01 @ 2' (40.263462 / -104.708728)	04/19/23	2	3.1	Y
FL-SS-01 @ 4' (40.263613 / -104.708685)	10/12/23	4	3.0	N
FL-SS-02 @ 5' (40.263733 / -104.708779)	10/12/23	5	2.6	N
FL-SS-03 @ 5' (40.263955 / -104.708967)	10/12/23	5	2.7	N
FL-SS-04 @ 4' (40.264090 / -104.709055)	10/12/23	4	2.9	Y
FL-SS-05 @ 5' (40.264378 / -104.709339)	10/12/23	5	2.6	N
FL-SS-06 @ 5' (40.264702 / -104.709667)	10/13/23	5	0.7	N
FL-SS-07 @ 5' (40.264873 / -104.709838)	10/13/23	5	0.5	N
FL-SS-08 @ 5' (40.265132 / -104.710104)	10/13/23	5	0.1	N
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				



TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
HSR - CUTLER #14-31
CLOSURE ASSESSMENT
40.263460 / -104.708560
SE¼ SW¼ SEC.31 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-15168
REMEDATION # 27651

Sample Location (Latitude / Longitude)		WH-SS-01 @ 5'	WH-SS-02 @ 5'	WH-SS-03 @ 5'	WH-SS-04 @ 5'	WH-FS-01 @ 6'
		(40.263490 / -104.708569)	(40.263471 / -104.708547)	(40.263459 / -104.708589)	(40.263476 / -104.708589)	(40.263474 / -104.708567)
Sample Date		4/19/2023	4/19/2023	4/19/2023	4/19/2023	4/19/2023
Sample Depth		5'	5'	5'	5'	6'
PID Reading (ppm-v)		2.2	1.5	450.2	4.4	428.7
Regulatory Limits						
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean- Up Level		
VOCs						
Benzene	mg/kg	1.2	0.0026	--	<0.00200	<0.00200
Toluene	mg/kg	490	0.69	--	<0.00200	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	<0.00200
Total Xylenes	mg/kg	58	9.9	--	<0.00200	<0.00200
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	<0.00200
TOTAL PETROLEUM HYDROCARBONS						
TPH-GRO	mg/kg	500	--	--	<0.200	<0.200
TPH-DRO	mg/kg	500	--	--	25.1	<25.0
TPH-RRO	mg/kg	500	--	--	<100	<100
POLYCYCLIC AROMATIC HYDROCARBONS						
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.00201	<0.00201
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.00201	<0.00201
Acenaphthene	mg/kg	360	0.55	--	<0.00067	<0.00067
Anthracene	mg/kg	1800	5.8	--	<0.00067	<0.00067
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.00067	<0.00067
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.00067	<0.00067
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.00067	<0.00067
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.00067	<0.00067
Chrysene	mg/kg	110	9	--	<0.00067	<0.00067
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.00067	<0.00067
Fluoranthene	mg/kg	240	8.9	--	<0.00067	<0.00067
Fluorene	mg/kg	240	0.54	--	<0.00067	0.000536
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.00067	0.000472
Naphthalene	mg/kg	2	0.0038	--	<0.00201	<0.00201
Pyrene	mg/kg	180	1.3	--	<0.00067	<0.00067
SOIL SUITABILITY (Inorganics)						
Boron	mg/L	2	--	--	0.242	0.214
pH	standard unit	6-8.3	--	--	7.79	8.36 (8.46/8.41)
Sodium Adsorption Ratio (SAR)	--	<6	--	--	2.74	1.95
Specific Conductance (EC)	mmhos/cm	<4	--	--	1.17	0.612
METALS						
Arsenic	mg/kg	0.68***	0.29***	2.11***	NA	NA
Barium	mg/kg	15000	82	--	NA	NA
Cadmium	mg/kg	71	0.38	--	NA	NA
Copper	mg/kg	3100	46	--	NA	NA
Lead	mg/kg	400	14	--	NA	NA
Nickel	mg/kg	1500	26	--	NA	NA
Selenium	mg/kg	390	0.26	--	NA	NA
Silver	mg/kg	390	0.8	--	NA	NA
Zinc	mg/kg	23000	370	--	NA	NA
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	NA	NA
ECMC = Energy & Carbon Management Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter PID = Photoionization Detector ppm-v = parts per million by volume mg/L = milligrams per liter SAR = Sodium Adsorption Ratio Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit. Values presented in BOLD exceed ECMC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed ECMC Table 915-1 GSSLs. Laboratory reruns were completed on samples with pH values outside ECMC Table 915-1 Regulatory Range. Results of the reruns are presented in parentheses. **Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg. ***Arsenic is naturally occurring in Colorado.						

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
HSR - CUTLER #14-31
CLOSURE ASSESSMENT
40.263460 / -104.708560
SE¼ SW¼ SEC.31 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-15168
REMEDIAION # 27651

Sample Location (Latitude / Longitude)				Background-01 @ 2'		FL-SS-04 @ 4'	
Sample Date				4/19/2023		10/12/2023	
Sample Depth				2'		4'	
PID Reading (ppm-v)				3.1		2.9	
Regulatory Limits							
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean- Up Level			
VOCs							
Benzene	mg/kg	1.2	0.0026	--	NA		<0.00200
Toluene	mg/kg	490	0.69	--	NA		<0.00200
Ethylbenzene	mg/kg	5.8	0.78	--	NA		<0.00200
Total Xylenes	mg/kg	58	9.9	--	NA		<0.00200
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	NA		<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	NA		<0.00200
TOTAL PETROLEUM HYDROCARBONS							
TPH-GRO	mg/kg	500	--	--	NA		<0.200
TPH-DRO	mg/kg	500	--	--	NA		<25.0
TPH-RRO	mg/kg	500	--	--	NA		<100
POLYCYCLIC AROMATIC HYDROCARBONS							
1-Methyl-naphthalene	mg/kg	18	0.006	--	NA		<0.002
2-Methyl-naphthalene	mg/kg	24	0.019	--	NA		<0.002
Acenaphthene	mg/kg	360	0.55	--	NA		<0.020
Anthracene	mg/kg	1800	5.8	--	NA		<0.020
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	NA		<0.005
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	NA		<0.020
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	NA		<0.020
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	NA		<0.020
Chrysene	mg/kg	110	9	--	NA		<0.020
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	NA		<0.020
Fluoranthene	mg/kg	240	8.9	--	NA		<0.020
Fluorene	mg/kg	240	0.54	--	NA		<0.020
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	NA		<0.020
Naphthalene	mg/kg	2	0.0038	--	NA		<0.020
Pyrene	mg/kg	180	1.3	--	NA		<0.020
SOIL SUITABILITY (Inorganics)							
Boron	mg/L	2	--	--	NA		<0.101
pH	standard unit	6-8.3	--	--	7.73		8.06
Sodium Adsorption Ratio (SAR)	--	<6	--	--	NA		0.0858
Specific Conductance (EC)	mmhos/cm	<4	--	--	NA		0.201
METALS							
Arsenic	mg/kg	0.68***	0.29***	2.11***	1.69***		NA
Barium	mg/kg	15000	82	--	60.9		NA
Cadmium	mg/kg	71	0.38	--	0.105		NA
Copper	mg/kg	3100	46	--	<8.69		NA
Lead	mg/kg	400	14	--	<8.69		NA
Nickel	mg/kg	1500	26	--	<8.69		NA
Selenium	mg/kg	390	0.26	--	<0.0869		NA
Silver	mg/kg	390	0.8	--	<0.0869		NA
Zinc	mg/kg	23000	370	--	<86.9		NA
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	NA		NA
ECMC = Energy & Carbon Management Commission NA - Not Analyzed VOCs - Volatile Organic Compounds							
mg/kg = milligrams per kilogram		RSSLs = Residential Soil Screening Levels					
mmhos/cm = millimhos per centimeter		GSSLs = Protection of Groundwater Soil Screening Levels					
PID = Photoionization Detector		TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics					
ppm-v = parts per million by volume		TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics					
mg/L = milligrams per liter		TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics					
SAR = Sodium Adsorption Ratio							
Notes:							
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit.							
Values presented in BOLD exceed ECMC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed ECMC Table 915-1 GSSLs.							
Laboratory reruns were completed on samples with pH values outside ECMC Table 915-1 Regulatory Range. Results of the reruns are presented in parentheses.							
**Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg.							
***Arsenic is naturally occurring in Colorado.							



ATTACHMENT A

Photo Log

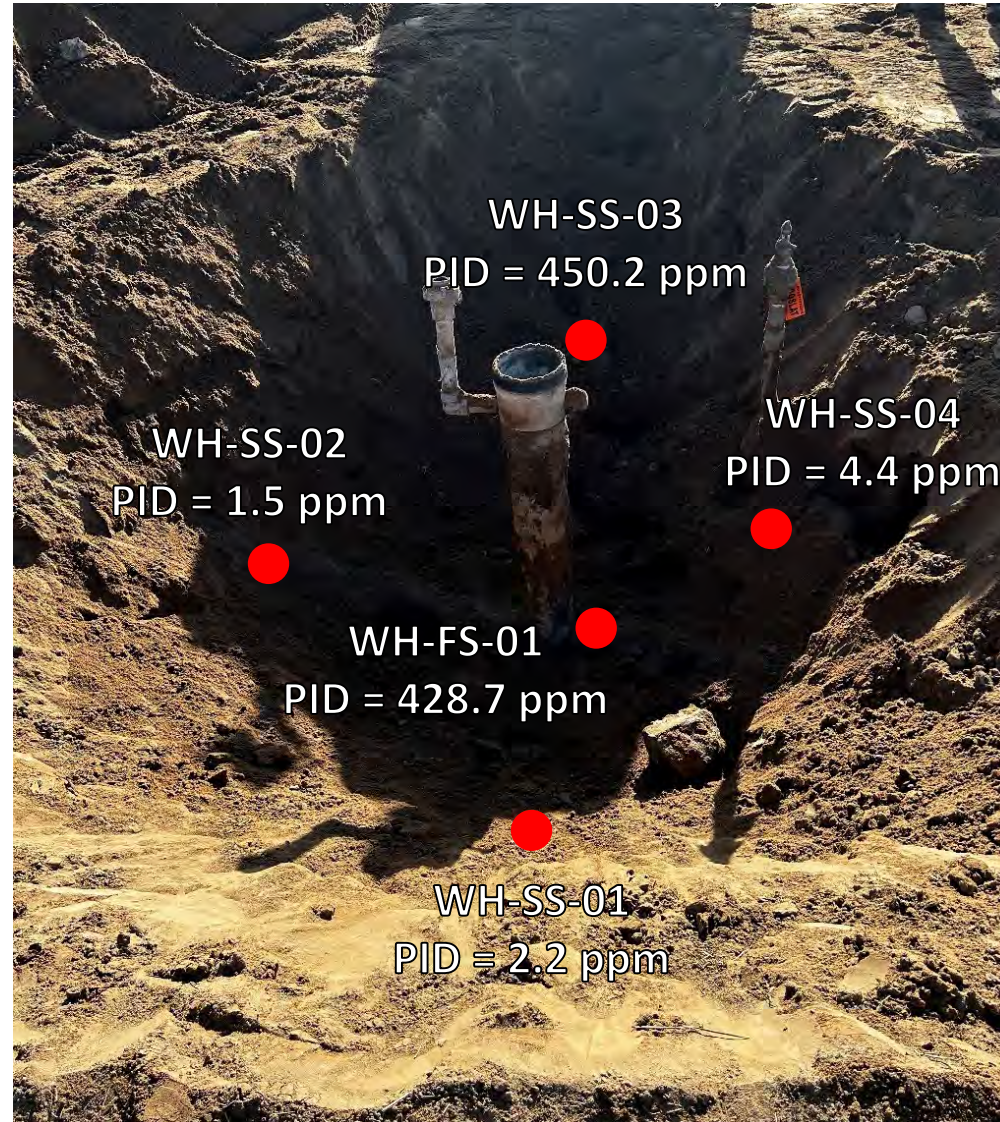
HSR – Cutler #14-31
API # 05-123-15168
Remediation # 27651

Closure Assessment

March 2023



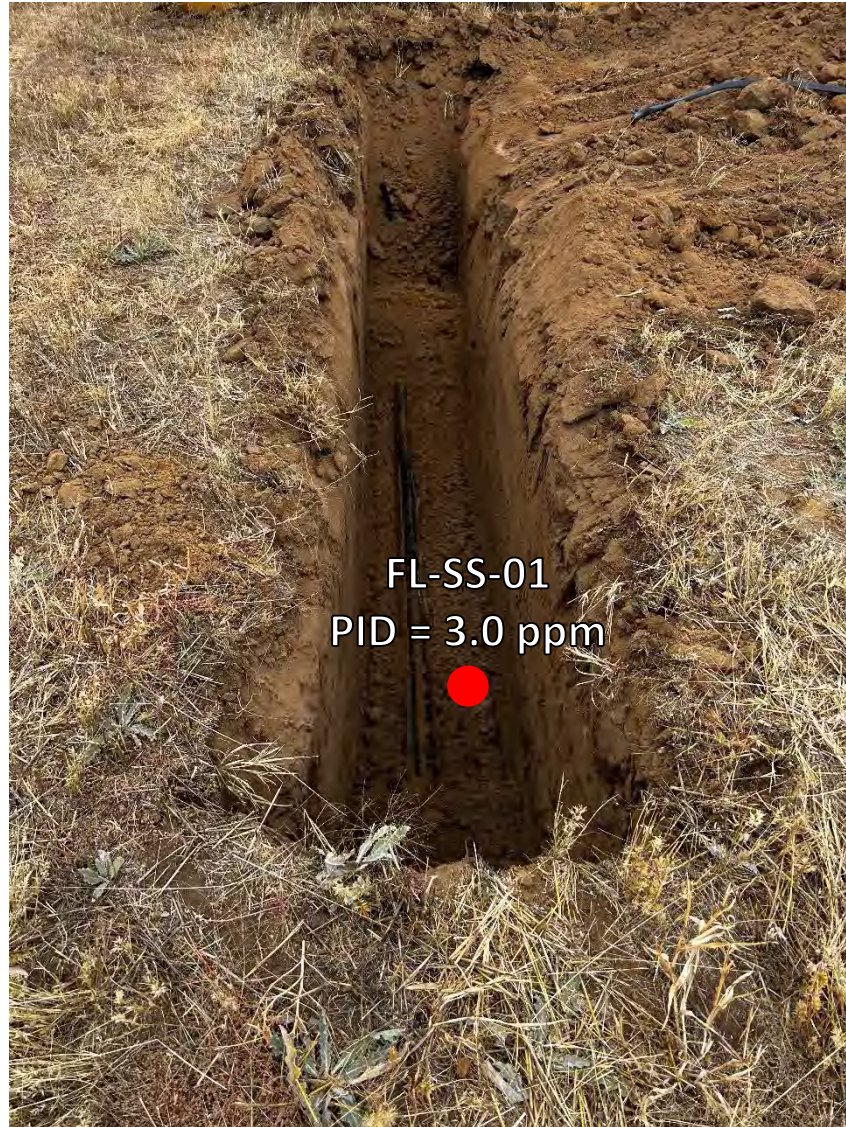
Wellhead Excavation – 04/19/23



Looking south

Slight petroleum hydrocarbon odor observed; no staining observed

Flowline Removal/Assessment – 10/12/23

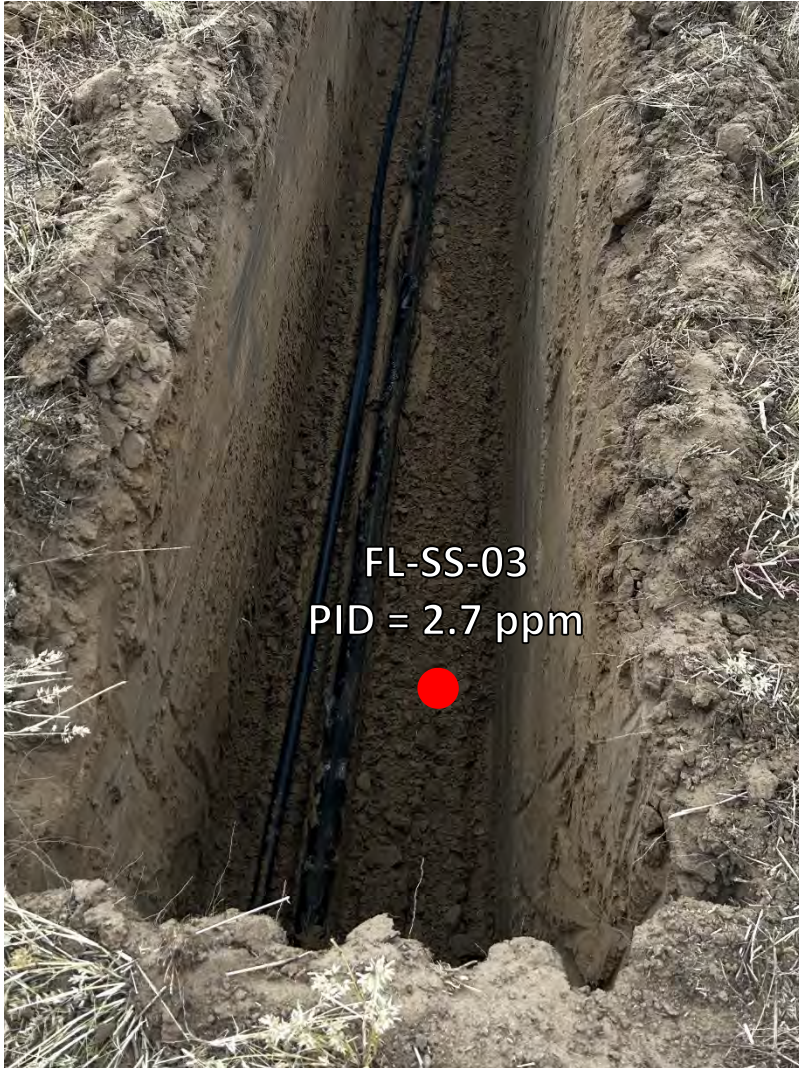


Looking northwest at bellhole/cutpoint
No petroleum hydrocarbon staining or odor observed

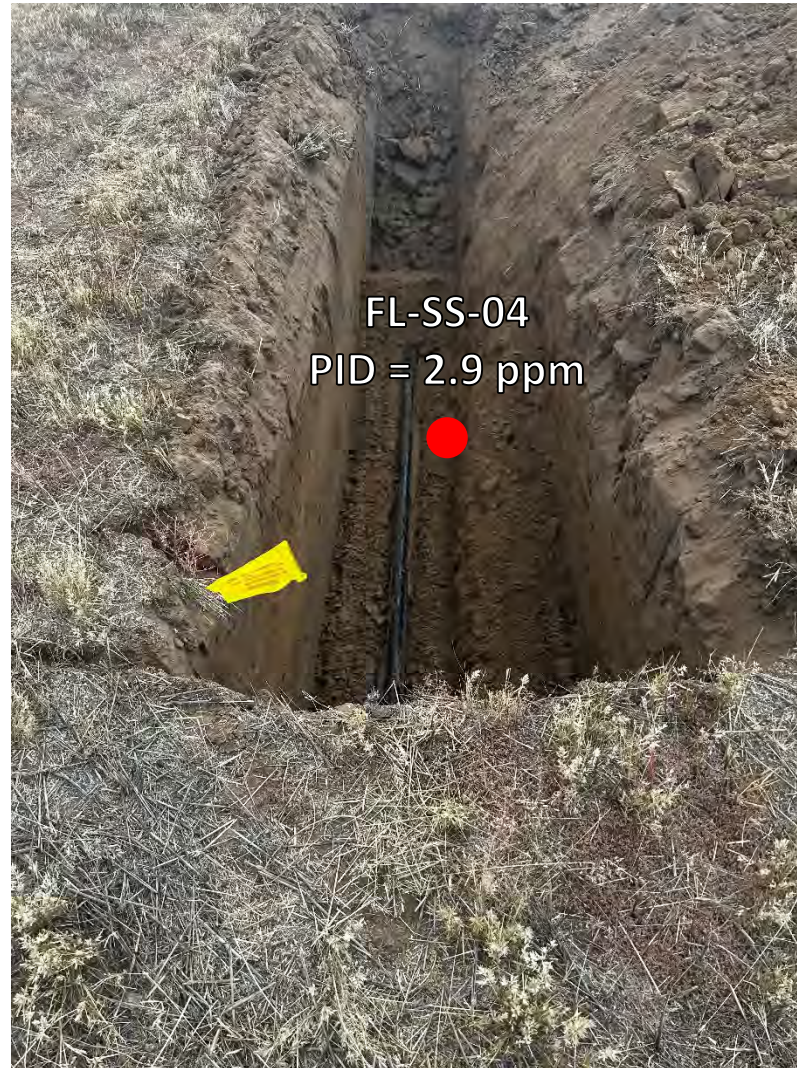


Looking northwest at bellhole/cutpoint
No petroleum hydrocarbon staining or odor observed

Flowline Removal/Assessment – 10/12/23



Looking northwest at bellhole/cutpoint
No petroleum hydrocarbon staining or odor observed



Looking northwest at bellhole/cutpoint
No petroleum hydrocarbon staining or odor observed



Looking northwest at bellhole/cutpoint
No petroleum hydrocarbon staining or odor observed

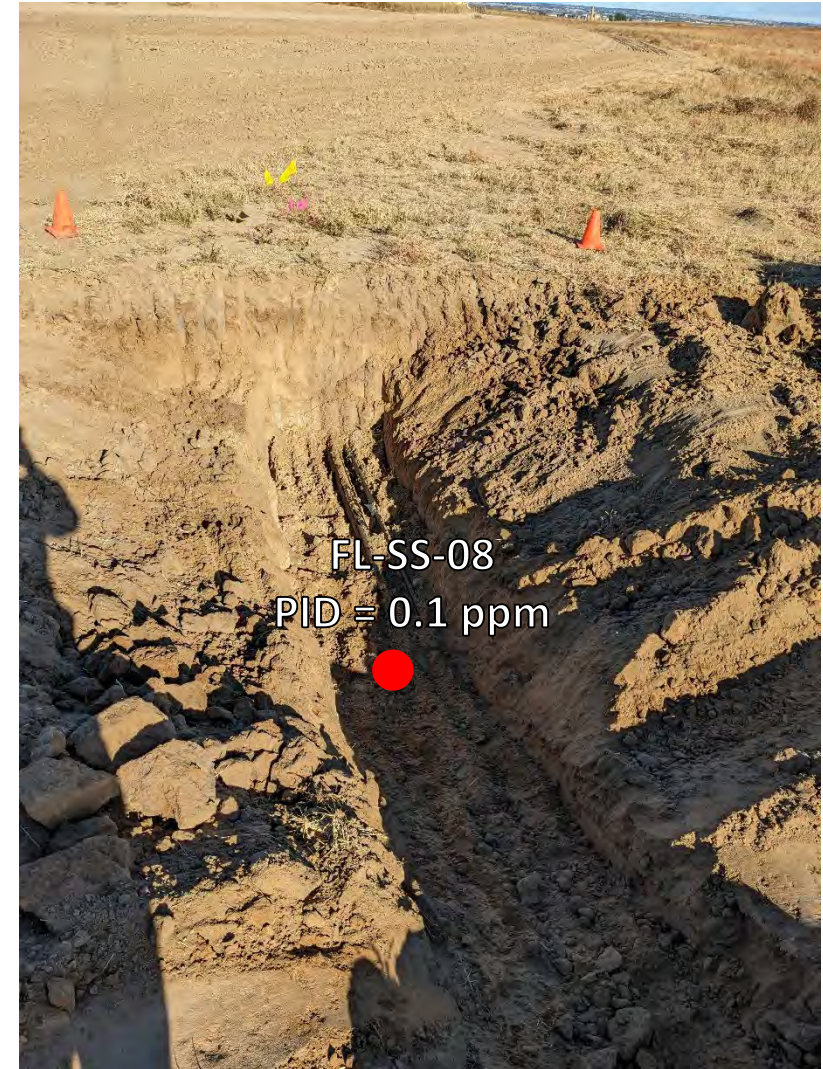
Flowline Removal/Assessment – 10/13/23



Looking southeast at bellhole/cutpoint
No petroleum hydrocarbon staining or odor observed



Looking northwest at bellhole/cutpoint
No petroleum hydrocarbon staining or odor observed



Looking northwest at bellhole/cutpoint
No petroleum hydrocarbon staining or odor observed