

Tank Battery Closure Checklist 2

Additional Attachments (Optional)	Partially Buried Vault Closure
Site Name & COGCC Facility Number	Cooper 12-10A O SA
Remediation Project #	29312
Date	08/03/2023

Site Information

Associated Wells	
Location	
Latitude	40.239287
Longitude	-104.772483
General Condition of Site	Site in good condition
USCS Soil Type	Silt Loam / Silt Loam
Estimated Depth to Groundwater	<20'
Hydrocarbon Impacted Soils / Spills	Hydrocarbon impacts observed
Salt Crusted Soils or Impacted Vegetation	None observed

Soil Samples

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Olfactory	Equipment Type
R1	08/03/2023	08:42 AM	AST-B01@3"	1.5	N.S	N.O	Aboveground Storage Tank
R2	08/03/2023	08:44 AM	AST-B02@3"	2.1	N.S	N.O	Aboveground Storage Tank
R3	08/03/2023	08:46 AM	DL-B02@4'	150.3	N.S	N.O	Dump Line
R4	08/03/2023	08:48 AM	PW-B01@4'	1.6	N.S	N.O	Produced Water Tank
R5	08/03/2023	08:50 AM	PW-N01@2'	1.2	N.S	N.O	Produced Water Tank
R6	08/03/2023	08:52 AM	PW-S01@2'	0.6	N.S	N.O	Produced Water Tank
R7	08/03/2023	08:54 AM	PW-E01@2'	0.9	N.S	N.O	Produced Water Tank
R8	08/03/2023	08:56 AM	PW-W01@2'	1.7	N.S	N.O	Produced Water Tank
R9	08/03/2023	08:59 AM	PW-BG01@3'	0.2	N.S	N.O	Background
R10	08/03/2023	09:01 AM	PW-BG01@6'	0.6	N.S	N.O	Background
R11	08/03/2023	09:03 AM	PW-BG02@3'	1.1	N.S	N.O	Background

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Olfactory	Equipment Type
R12	08/03/2023	09:05 AM	PW-BG02@6'	2.0	N.S	N.O	Background
R13	08/03/2023	09:15 AM	DL-B01@4'	922.8	HC Staining	HC Odor	Dump Line
R14	08/03/2023	09:17 AM	SEP-B01@3'	1.9	N.S	N.O	Separator
R15	08/03/2023	09:19 AM	SEP-B02@5'	2.2	N.S	N.O	Separator
R16	08/03/2023	09:21 AM	MH-B01@3"	1.0	N.S	N.O	Meter House
R17	08/25/2023	01:51 PM	AST-B01-1@6"	1.3	N.S	N.O	Aboveground Storage Tank
R18	08/25/2023	01:57 PM	WH-BG03@3"	0.1	N.S	N.O	Background
R19	08/25/2023	01:59 PM	WH-BG04@3"	0.3	N.S	N.O	Background
R20	08/25/2023	02:01 PM	WH-BG05@3"	0.1	N.S	N.O	Background
R21	08/25/2023	02:03 PM	WH-BG06@3"	0.1	N.S	N.O	Background
R22	10/05/2023	03:40 PM	DL-B01@6'	1653	HC Staining	HC Odor	Dump Line
R23	10/05/2023	03:42 PM	DL-N01@4'	58.7	Slight HC Staining	Slight HC Odor	Dump Line
R24	10/05/2023	03:44 PM	DL-S01@4'	53.5	Slight HC Staining	Slight HC Odor	Dump Line
R25	10/05/2023	03:46 PM	DL-E01@4'	8.2	N.S	N.O	Dump Line
R26	10/05/2023	03:48 PM	DL-W01@4'	1734	HC Staining	HC Odor	Dump Line
R27	10/27/2023	11:40 AM	DL-B03@15'	0.0	N.S	N.O	Dump Line
R28	10/27/2023	11:42 AM	DL-B04@15'	0.0	N.S	N.O	Dump Line
R29	10/27/2023	11:44 AM	DL-B05@15'	1.3	N.S	N.O	Dump Line
R30	10/27/2023	11:46 AM	DL-B06@15'	37.7	HC Staining	N.O	Dump Line
R31	10/27/2023	11:48 AM	DL-N02@4'	794.3	HC Staining	HC Odor	Dump Line
R32	10/27/2023	11:50 AM	DL-N02@6'	427.4	HC Staining	HC Odor	Dump Line
R33	10/27/2023	11:52 AM	DL-E02@6'	79.2	HC Staining	HC Odor	Dump Line
R34	10/27/2023	11:54 AM	DL-E03@6'	49.7	HC Staining	HC Odor	Dump Line

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Olfactory	Equipment Type
R35	10/27/2023	11:56 AM	DL-E04@6'	5.4	N.S	N.O	Dump Line
R36	10/27/2023	11:58 AM	DL-S02@6'	5.9	N.S	N.O	Dump Line
R37	10/27/2023	12:00 PM	DL-S03@6'	4.8	N.S	N.O	Dump Line
R38	10/27/2023	12:02 PM	DL-W02@6'	14.6	N.S	N.O	Dump Line
R39	10/27/2023	12:04 PM	DL-W03@6'	442.1	HC Staining	HC Odor	Dump Line
R40	10/27/2023	12:06 PM	DL-W04@6'	1551	HC Staining	HC Odor	Dump Line
R41	12/04/2023	08:20 AM	DL-N03@6'	2.1	N.S	N.O	Dump Line
R42	12/04/2023	08:15 AM	DL-W05@6'	1.2	N.S	N.O	Dump Line
R43	12/04/2023	08:10 AM	DL-E05@6'	1.6	N.S	N.O	Dump Line
R44	12/04/2023	09:00 AM	DL-N04@5'	197.2	HC Staining	HC Odor	Dump Line
R45	12/04/2023	09:05 AM	DL-N05@5'	1.3	N.S	N.O	Dump Line
R46	12/04/2023	09:10 AM	DL-N06@5'	3.1	N.S	N.O	Dump Line
R47	12/04/2023	09:15 AM	DL-N07@5'	2.2	N.S	N.O	Dump Line
R48	12/04/2023	09:20 AM	DL-W06@5'	0.7	N.S	N.O	Dump Line
R49	12/04/2023	09:25 AM	DL-W07@5'	0.6	N.S	N.O	Dump Line
R50	12/04/2023	09:30 AM	DL-S04@5'	0.3	N.S	N.O	Dump Line
R51	12/04/2023	09:35 AM	DL-S05@5'	0.4	N.S	N.O	Dump Line
R52	12/04/2023	09:40 AM	DL-S06@5'	0.9	N.S	N.O	Dump Line
R53	12/04/2023	09:45 AM	DL-S07@5'	0.6	N.S	N.O	Dump Line
R54	12/04/2023	09:50 AM	DL-B07@15'	21.7	N.S	Slight HC Odor	Dump Line
R55	12/04/2023	09:55 AM	DL-B08@15'	17.1	N.S	Slight HC Odor	Dump Line
R56	12/04/2023	10:00 AM	DL-B09@15'	2.9	N.S	N.O	Dump Line
R57	12/04/2023	10:05 AM	DL-B10@15'	175.7	HC Staining	HC Odor	Dump Line

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Olfactory	Equipment Type
R58	12/04/2023	10:10 AM	DL-B11@15'	1.8	N.S	N.O	Dump Line
R59	12/04/2023	10:15 AM	DL-B12@15'	14.8	N.S	Slight HC Odor	Dump Line
R60	12/04/2023	10:20 AM	DL-B13@15'	16.4	N.S	Slight HC Odor	Dump Line
R61	12/04/2023	10:30 AM	PW-BG03@15'	2.1	N.S	N.O	Background
R62	12/04/2023	10:50 AM	PW-BG04@15'	1.4	N.S	N.O	Background
R63	02/29/2024	10:30 AM	DL-E06@6'	1.2	N.S	N.O	Dump Line

Photo(s)

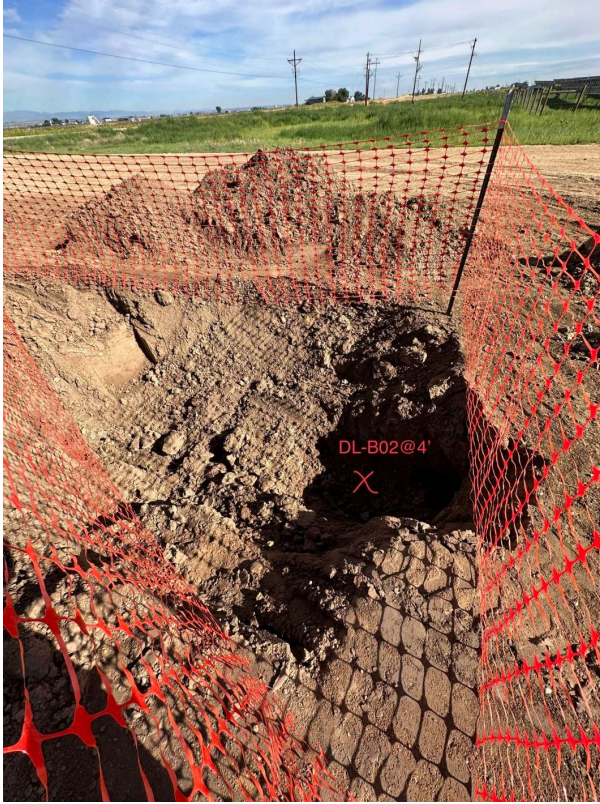
R1 - P1



R2 - P1



R3 - P1



Facing North

R4 - P1



Facing North

R13 - P1



Facing east

R14 - P1



Facing South

R15 - P1



Facing East

R16 - P1



R17 - P1



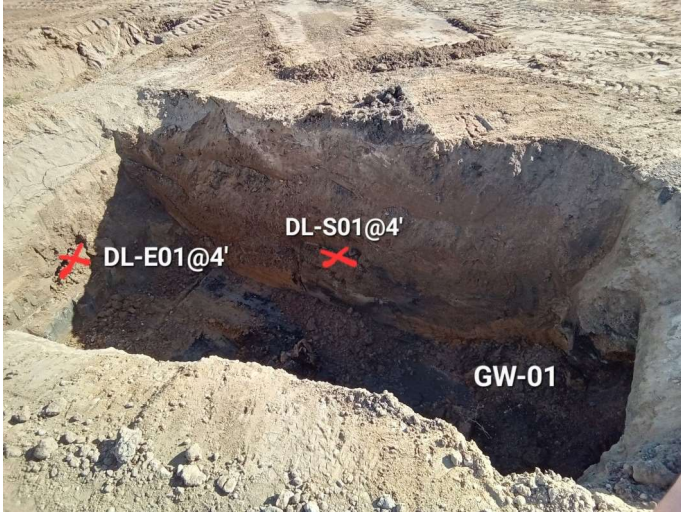
Facing East

R22 - P1



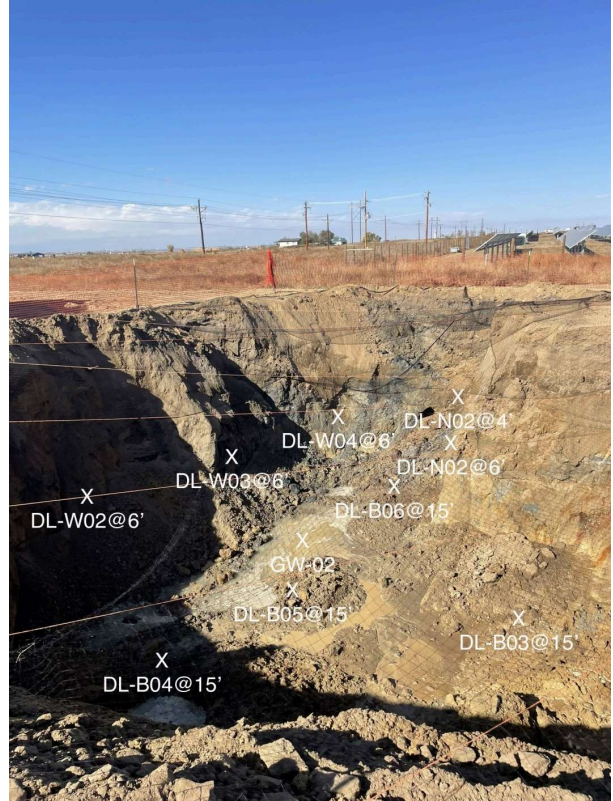
Looking North

R24 - P1



Looking South

R27 - P1



Facing Northwest

R33 - P1



Facing East

R36 - P1



Facing South

R41 - P1



Facing Northwest

R43 - P1



Facing East

R44 - P1



Facing North

R46 - P1



Facing North

R48 - P1



Facing West

R50 - P1



Facing South

R52 - P1



Facing South

R61 - P1



Facing East

R62 - P1



Facing North

R63 - P1



Looking east

Other observations regarding tanks

Summary

Was impacted soil identified?	Yes - less than 10 cubic yards
Total number of soil samples field screened	63
Total number of soil samples collected	63
Highest PID Reading	1734
Total number of soil samples submitted to lab for analysis	58
Was groundwater encountered during the investigation?	Yes - not impacted or in contact with impacted soils
Measured depth to groundwater	10'
Was remedial groundwater removal conducted?	No
Date Groundwater was encountered	10/05/2023
Commencement date of removal	
Sheen on groundwater?	No
Free product observed?	No
Volume of groundwater removed prior to sampling	
Volume of groundwater removed post sampling	
Total volume of groundwater removed	
Total number of groundwater samples collected	
Total number of groundwater samples submitted to lab for analysis	