



Tank Battery Closure Checklist 2

Additional Attachments (Optional)

Site Name & COGCC Facility Number	McKinstry 28N 21N 7C 2N O SA
Remediation Project #	30488
Date	06/07/2023

Site Information

Associated Wells	
Location	
Latitude	40.21801827
Longitude	-104.9812191
General Condition of Site	Good condition
USCS Soil Type	Silt Loam / Silt Loam
Estimated Depth to Groundwater	<20'
Hydrocarbon Impacted Soils / Spills	Yes - Active release
Salt Crusted Soils or Impacted Vegetation	None observed

Soil Samples

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Other Visual	Olfactory	Other Olfactory	Equipment Type	Other Equipment Type
R1	06/07/2023	12:43 PM	Initial Waste Characterization@3"	682.8	Slight HC Staining		Slight HC Odor		Separator	
R2	06/07/2023	12:45 PM	SEP-BG01@3"	2.1	N.S		N.O		Background	
R3	06/07/2023	12:49 PM	SEP-BG02@3"	3.6	N.S		N.O		Background	
R4	06/07/2023	12:51 PM	SEP-BG03@3"	1.9	N.S		N.O		Background	
R5	06/07/2023	12:53 PM	SEP-BG04@3"	2.3	N.S		N.O		Background	
R6	06/27/2023	09:10 AM	SEP-B01@6'	7.8	Slight HC Staining		Slight HC Odor		Separator	
R7	06/27/2023	09:12 AM	SEP-N01@3'	1.1	N.S		N.O		Separator	
R8	06/27/2023	09:14 AM	SEP-S01@3'	0.9	N.S		N.O		Separator	
R9	06/27/2023	09:16 AM	SEP-E01@3'	0.9	N.S		N.O		Separator	
R10	06/27/2023	04:18	SEP-W01@3'	0.7	N.S		N.O		Separator	

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Other Visual	Olfactory	Other Olfactory	Equipment Type	Other Equipment Type
	2023	AM								
R11	06/27/2023	09:28 PM	SEP-B02@3'	0.6	N.S		N.O		Separator	
R12	06/27/2023	09:30 PM	SEP-B02@6'	3.1	N.S		N.O		Separator	
R13	06/27/2023	09:32 PM	SEP-B03@3'	1.9	N.S		N.O		Separator	
R14	06/27/2023	09:36 PM	SEP-B03@6'	0.9	N.S		N.O		Separator	
R15	06/27/2023	09:38 PM	SEP-B04@3'	0.7	N.S		N.O		Separator	
R16	06/27/2023	09:40 PM	SEP-B04@6'	0.8	N.S		N.O		Separator	
R17	06/27/2023	09:45 PM	SEP-B05@3'	1.6	N.S		N.O		Separator	
R18	06/27/2023	09:50 PM	SEP-B05@6'	22.4	N.S		N.O		Separator	
R19	07/06/2023	10:15 AM	SEP-B06@9'	6.4	N.S		N.O		Separator	
R20	07/06/2023	10:17 AM	SEP-N02@8'	63.8	N.S		N.O		Separator	
R21	07/06/2023	10:19 AM	SEP-E02@8'	23.4	N.S		N.O		Separator	
R22	07/31/2023	08:02 AM	SEP-B07@3"	0.3	N.S		N.O		Separator	
R23	07/31/2023	08:04 AM	SEP-B08@3"	0.1	N.S		N.O		Separator	
R24	07/31/2023	08:06 AM	SEP-B09@3"	0.2	N.S		N.O		Separator	
R25	07/31/2023	08:08 AM	SEP-B10@3"	0.2	N.S		N.O		Separator	
R26	07/31/2023	08:10 AM	SEP-B11@3"	0.3	N.S		N.O		Separator	
R27	07/31/2023	08:12 AM	SEP-B12@3"	0.4	N.S		N.O		Separator	
R28	08/17/2023	11:30 AM	SEP-B13@4'	0.3	N.S		N.O		Separator	
R29	08/17/2023	11:32 AM	SEP-B14@4'	0.2	N.S		N.O		Separator	
R30	08/17/2023	11:34 AM	SEP-B15@4'	0.3	N.S		N.O		Separator	
R31	08/17/2023	11:36 AM	SEP-B16@4'	0.4	N.S		N.O		Separator	
R32	09/05/2023	01:27 PM	SEP-N03@3'	0.2	N.S		N.O		Separator	

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Other Visual	Olfactory	Other Olfactory	Equipment Type	Other Equipment Type
R33	09/05/2023	01:30 PM	SEP-N03@9'	2.2	N.S		N.O		Separator	
R34	09/05/2023	01:32 PM	SEP-N04@3'	13.2	N.S		Slight HC Odor		Separator	
R35	09/05/2023	01:34 PM	SEP-N04@9'	2.8	N.S		N.O			
R36	09/05/2023	02:55 PM	SEP-N05@3'	1.3	N.S		N.O		Separator	
R37	09/05/2023	02:57 AM	SEP-N05@9'	1.1	N.S		N.O		Separator	
R38	09/01/2023	08:56 AM	SEP-B17@10'	1.3	N.S		N.O		Separator	
R39	09/01/2023	08:57 AM	SEP-B187@13'	3.7	N.S		N.O		Separator	
R40	09/01/2023	08:58 AM	SEP-S02@3'	2.6	HC Staining		HC Odor		Separator	
R41	09/01/2023	08:59 AM	SEP-S02@9'	4.9	N.S		N.O		Separator	
R42	09/01/2023	09:00 AM	SEP-S03@3'	3.3	N.S		HC Odor		Separator	
R43	09/01/2023	09:01 AM	SEP-S03@9'	19.5	N.S		N.O		Separator	
R44	09/01/2023	09:02 AM	SEP-S04@3'	4.5	N.S		N.O		Separator	
R45	09/01/2023	09:04 AM	SEP-S04@9'	4.0	N.S		N.O		Separator	
R46	09/01/2023	09:05 AM	SEP-E03@3'	7.3	N.S		N.O		Separator	
R47	09/01/2023	09:06 AM	SEP-E03@9'	6.8	N.S		N.O		Separator	
R48	09/01/2023	09:07 AM	SEP-W03@3'	5.9	N.S		N.O		Separator	
R49	09/01/2023	09:08 AM	SEP-W03@9'	2.1	N.S		N.O		Separator	
R50	09/08/2023	02:14 PM	SEP-N06@9'	2.9	N.S		N.O		Separator	
R51	09/08/2023	02:16 PM	SEP-B18@14'	7.4	N.S		N.O		Separator	
R52	10/03/2023	10:00 AM	SEP-B19@14'	5.2	N.S		N.O		Separator	
R53	10/03/2023	09:45 AM	SEP-B20@14'	1.1	N.S		N.O		Separator	
R54	10/05/2023	12:26 PM	SEP-B21@18'	1.6	N.S		N.O		Separator	

Photo(s)

R1 - P1



Looking north

R2 - P1



R3 - P1



R4 - P1



R5 - P1



R6 - P1



Looking north

R8 - P1



Looking south

R9 - P1



Looking east

R10 - P1



Looking west

R11 - P1



R13 - P1



R15 - P1



R17 - P1

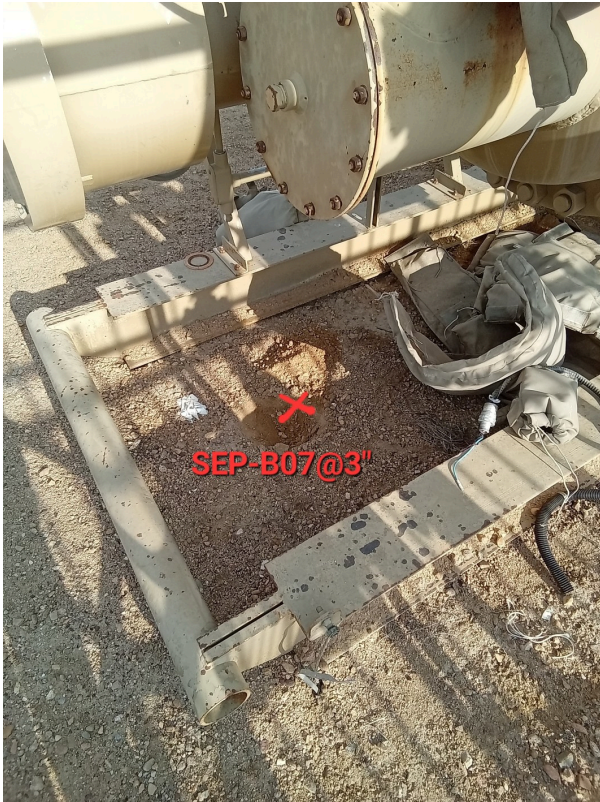


R19 - P1



Looking north east

R22 - P1



Looking west

R23 - P1



Looking east

R24 - P1



Looking east

R25 - P1



Looking east

R26 - P1



Looking east

R27 - P1



Looking east

R28 - P1



Looking west

R29 - P1



Looking west

R30 - P1



Looking west

R31 - P1

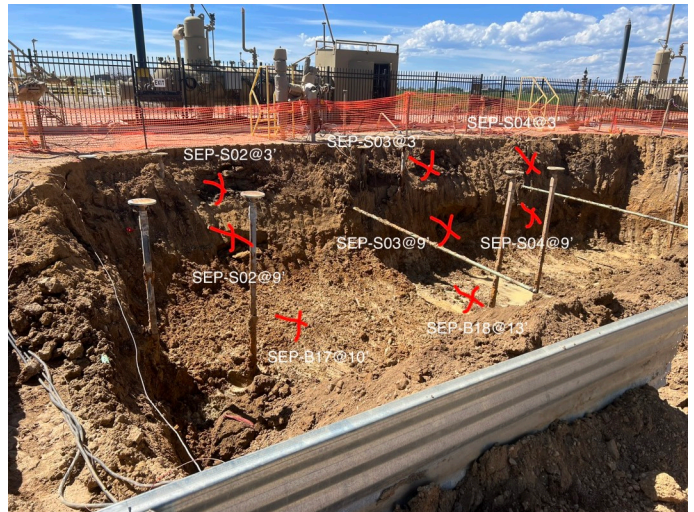


Looking south

R32 - P1



R38 - P1



Facing southwest

R46 - P1



Facing north

R48 - P1



Facing west

R50 - P1



Facing West

R52 - P1



Facing West

Other observations regarding tanks

Summary	
Was impacted soil identified?	Yes - more than 10 cubic yards
Total number of soil samples field screened	54
Total number of soil samples collected	54
Highest PID Reading	682.8
Total number of soil samples submitted to lab for analysis	54
Vertical Extent	

Lateral Extent	
Estimated spill volume	
Volume of soil removed	
Is additional investigation required?	
Was groundwater encountered during the investigation?	Yes - groundwater impacted and/or in contact with impacted soils
Measured depth to groundwater	13'
Was remedial groundwater removal conducted?	No
Date Groundwater was encountered	09/05/2023
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	1
Total number of groundwater samples submitted to lab for analysis	1