



## Wellhead Closure Checklist 2

Additional Attachments (Optional)	Flowline Closure
Site Name	HSR-Lillevand 10-3
Remediation Project #	30124
<b>Wellhead Information</b>	
Weather	50, sunny
Client	Oxy
Location	
Latitude	40.25163
Longitude	-104.76168
General Condition of Site	Good
USCS Soil Type	<i>Sandy Loam / Sandy Loam</i>
Estimated Depth to Groundwater	<20'
Hydrocarbon Impacted Soils / Spills	None observed
Salt Crusted Soils or Impacted Vegetation	None observed

### Soil Samples

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Olfactory	Equipment Name
R1	10/05/2023	10:07 AM	WH-B01@6'	0.9	N.S	N.O	Wellhead
R2	10/05/2023	10:07 AM	WH-N01@6'	2.3	N.S	N.O	Wellhead
R3	10/05/2023	10:08 AM	WH-S01@6'	1.8	N.S	N.O	Wellhead
R4	10/05/2023	10:09 AM	WH-E01@6'	1.3	N.S	N.O	Wellhead
R5	10/05/2023	10:10 AM	WH-W01@6'	1.5	N.S	N.O	Wellhead
R6	10/05/2023	10:10 AM	WHS-N01@3"	0.5	N.S	N.O	Wellhead Surface
R7	10/05/2023	10:11 AM	WHS-S01@3"	1.0	N.S	N.O	Wellhead Surface
R8	10/05/2023	10:11 AM	WHS-E01@3"	1.2	N.S	N.O	Wellhead Surface
R9	10/05/2023	10:12 AM	WHS-W01@3"	1.4	N.S	N.O	Wellhead Surface
R10	10/05/2023	10:12 AM	FL-B01@4'	0.7	N.S	N.O	Flowline at Wellhead
R11	10/05/2023	11:05 AM	FL-B02@3'	1.1	N.S	N.O	Flowline
R12	10/05/2023	11:10 AM	FL-B03@4'	0.7	N.S	N.O	Flowline Directional Change
R13	10/05/2023	11:16 AM	FL-B04@4'	0.1	N.S	N.O	Flowline
R14	10/05/2023	11:18 AM	FL-B05@3'	0.2	N.S	N.O	Flowline
R15	10/05/2023	11:40 AM	FL-B06@3'	1.4	N.S	N.O	Flowline
R16	10/05/2023	12:07 PM	FL-B07@3'	1.2	N.S	N.O	Flowline
R17	10/05/2023	12:08 PM	FL-B13@3'	30.9	N.S	N.O	Flowline
R18	10/05/2023	12:08 PM	FL-B14@3'	29.9	N.S	N.O	Flowline
R19	10/05/2023	12:10 PM	FL-B15@5'	0.6	N.S	N.O	Flowline

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Olfactory	Equipment Name
R20	10/05/2023	12:17 PM	FL-B16@5'	0.7	N.S	N.O	Flowline
R21	10/05/2023	12:18 PM	FL-B12@3'	1.5	N.S	N.O	Flowline
R22	10/05/2023	12:18 PM	FL-B11@4'	0.8	N.S	N.O	Flowline
R23	10/05/2023	12:18 PM	FL-B10@4'	1.6	N.S	N.O	Flowline Directional Change
R24	10/05/2023	12:19 PM	FL-B09@3'	1.6	N.S	N.O	Flowline
R25	10/05/2023	12:19 PM	FL-B08@4'	0.4	N.S	N.O	Flowline at Wellhead
R26	10/05/2023	03:34 PM	WH-BG01@3'	2.7	N.S	N.O	Wellhead Background
R27	10/05/2023	03:35 PM	WH-BG02@3'	2.4	N.S	N.O	Wellhead Background
R28	10/05/2023	03:36 PM	WH-BG02@6'	2.5	N.S	N.O	Wellhead Background
R29	10/05/2023	03:36 PM	WH-BG03@3'	2.0	N.S	N.O	Wellhead Background
R30	10/05/2023	03:37 PM	WH-BG03@6'	2.4	N.S	N.O	Wellhead Background
R31	10/05/2023	03:37 PM	WH-BG04@3'	2.5	N.S	N.O	Wellhead Background
R32	10/05/2023	03:38 PM	WH-BG04@6'	2.3	N.S	N.O	Wellhead Background
R33	10/06/2023	12:33 PM	FL-B17@3'	0.2	N.S	N.O	Flowline Directional Change
R34	10/06/2023	12:34 PM	FL-B18@3'	8.4	N.S	N.O	Flowline Directional Change
R35	10/06/2023	12:38 PM	FL-B19@3'	0.5	N.S	N.O	Flowline
R36	10/06/2023	12:38 PM	FL-B20@3'	0.5	N.S	N.O	Flowline
R37	10/06/2023	12:44 PM	FL-B21@3'	0.2	N.S	N.O	Flowline
R38	10/06/2023	12:45 PM	FL-B22@3'	0.3	N.S	N.O	Flowline
R39	10/06/2023	12:49 PM	FL-B23@3'	0.2		N.O	Flowline
R40	10/06/2023	12:49 PM	FL-B24@3'	0.1	N.S	N.O	Flowline
R41	10/06/2023	12:55 PM	FL-B25@3'	0.2		N.O	Flowline
R42	10/06/2023	12:55 PM	FL-B26@3'	0.2		N.O	
R43	10/06/2023	01:01 PM	FL-B27@3'	0.4	N.S	N.O	Flowline Directional Change
R44	10/06/2023	01:02 PM	FL-B28@3'	1.2	N.S	N.O	Flowline Directional Change
R45	10/06/2023	01:15 PM	FL-B29@3'	0.8	N.S	N.O	Flowline
R46	10/06/2023	01:16 PM	FL-B30@3'	0.5	N.S	N.O	Flowline
R47	10/06/2023	01:21 PM	FL-B31@3'	1.5	N.S	N.O	Flowline Directional Change
R48	10/06/2023	01:22 PM	FL-B32@3'	1.2	N.S	N.O	
R49	10/09/2023	12:09 PM	FL-B33@4'	2.7	N.S	N.O	Flowline
R50	10/09/2023	12:11 PM	FL-B34@4'	2.2	N.S	N.O	Flowline
R51	10/09/2023	12:13 PM	FL-B35@4'	3.1	N.S	N.O	Flowline
R52	10/09/2023	12:16 PM	FL-B36@4'	2.8	N.S	N.O	Flowline
R53	10/09/2023	12:20 PM	FL-B37@4'	2.3	N.S	N.O	Flowline
R54	10/09/2023	12:22 PM	FL-B38@4'	2.6	N.S	N.O	Flowline
R55	10/09/2023	12:25 PM	FL-B39@4'	1.9	N.S	N.O	Flowline
R56	10/09/2023	12:35 PM	FL-B40@4'	1.8	N.S	N.O	Flowline
R57	10/26/2023	11:30 AM	WH-B01-01@6'	0.6	N.S	N.O	Wellhead
R58	10/27/2023	03:00 PM	FL-B41@3'	1.3	N.S	N.O	Flowline
R59	10/27/2023	03:02 PM	FL-B42@3'	0.9	N.S	N.O	Flowline

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Olfactory	Equipment Name
R60	10/27/2023	03:04 PM	FL-B43@3'	1.0	N.S	N.O	Flowline
R61	10/27/2023	03:06 PM	FL-B44@3'	0.7	N.S	N.O	Flowline
R62	10/27/2023	03:08 PM	FL-B45@3'	0.8	N.S	N.O	Flowline
R63	10/27/2023	03:10 PM	FL-B46@3'	0.7	N.S	N.O	Flowline
R64	10/27/2023	03:12 PM	FL-B47@3'	1.4	N.S	N.O	Flowline
R65	10/27/2023	03:14 PM	FL-B48@3'	1.1	N.S	N.O	Flowline
R66	11/07/2023	10:55 AM	FL-B18-01@3'	1.1	N.S	N.O	Flowline
R67	07/18/2024	11:16 AM	FL-B49@3'	0.7	N.S	N.O	Flowline Directional Change
R68	07/18/2024	11:18 AM	FL-B50@3'	2.3	N.S	N.O	Flowline at Separator
R69	07/18/2024	11:20 AM	FL-BG01@3'	2.7	N.S	N.O	Wellhead Background
R70	07/18/2024	11:22 AM	FL-BG01@6'	2.1	N.S	N.O	Wellhead Background
R71	07/18/2024	11:24 AM	FL-BG02@3'	3.3	N.S	N.O	Wellhead Background
R72	07/18/2024	11:26 AM	FL-BG02@6'	1.3	N.S	N.O	Wellhead Background
R73	07/18/2024	11:28 AM	FL-BG03@3'	3.5	N.S	N.O	Wellhead Background
R74	07/18/2024	11:30 AM	FL-BG03@6'	3.3	N.S	N.O	Wellhead Background
R75	07/18/2024	11:32 AM	FL-BG04@3'	3.6	N.S	N.O	Wellhead Background
R76	07/18/2024	11:34 AM	FL-BG04@6'	2.7	N.S	N.O	Wellhead Background
R77	07/23/2024	10:34 AM	FL-B49-01@3'	0.0	N.S	N.O	Flowline
R78	10/05/2023	12:11 PM	WH-BG01@6'	2.5	N.S	N.O	Wellhead Background

Photo(s)

R1 - P1



Looking south

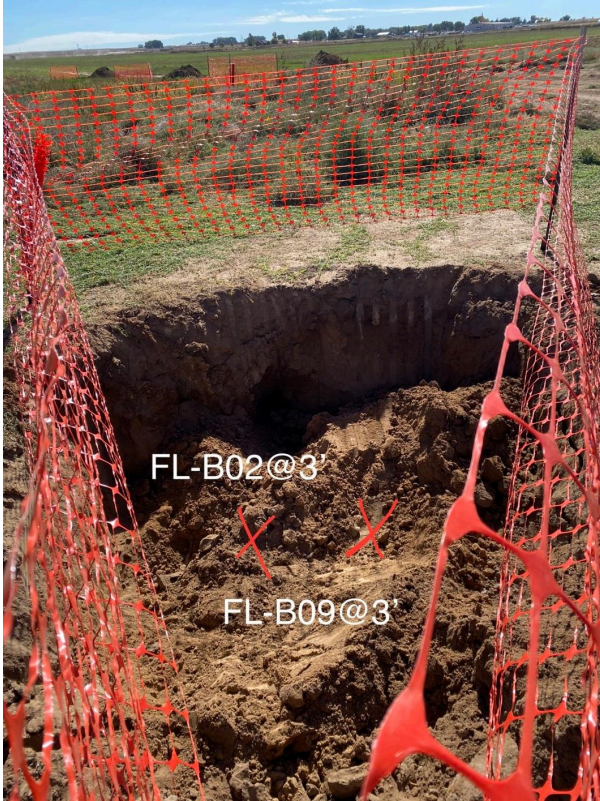
R6 - P1



Looking west

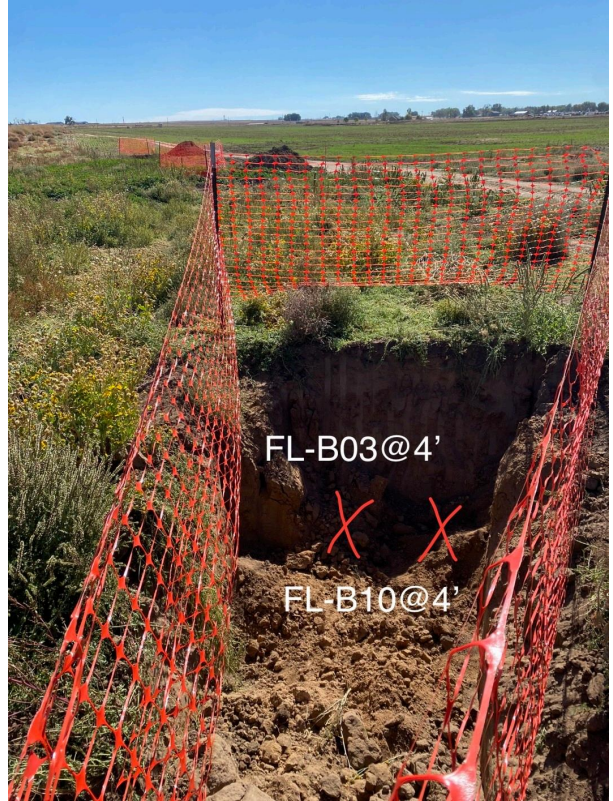


R11 - P1



Looking east

R12 - P1



Looking east

R13 - P1



Looking east

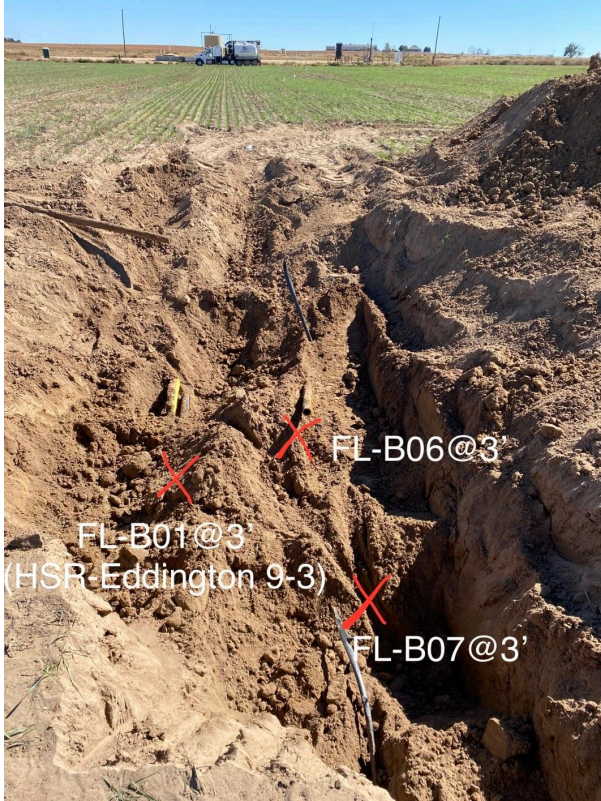
R14 - P1



Looking east

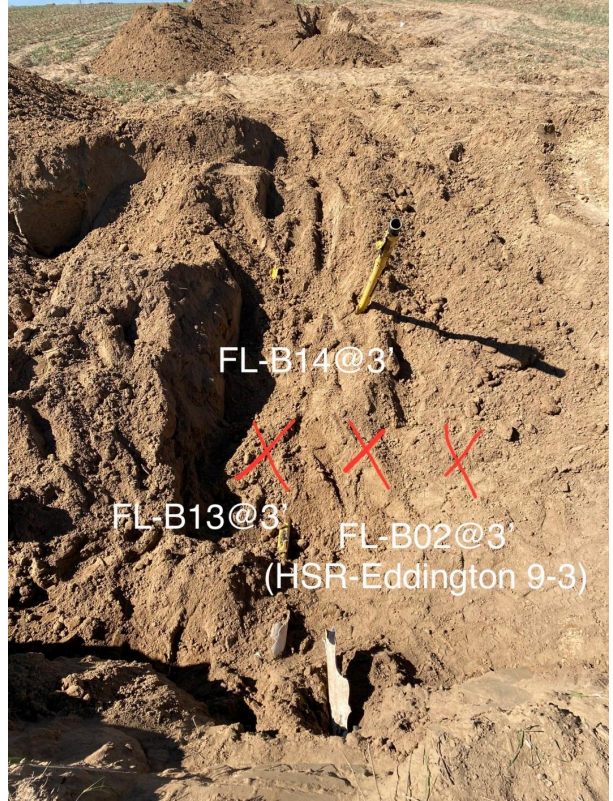


R15 - P1



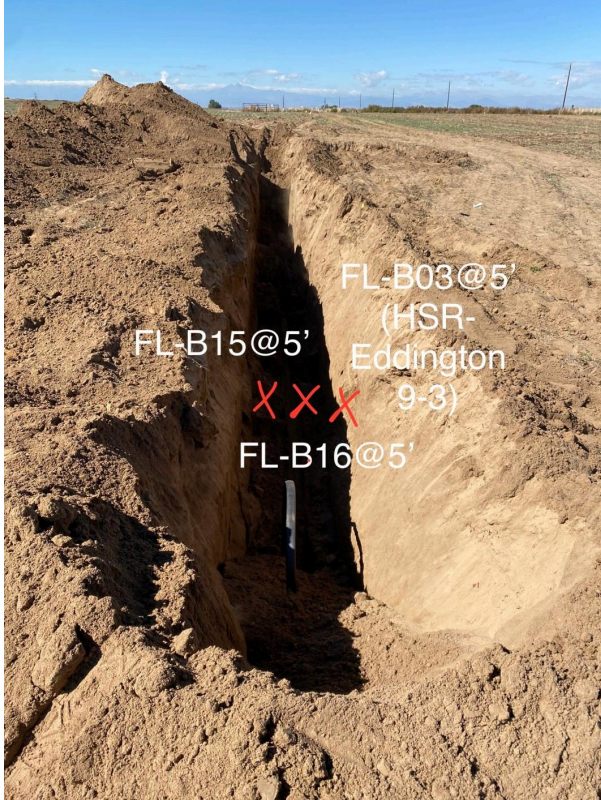
Looking east

R17 - P1



Looking west

R19 - P1



Looking west

R26 - P1



Looking south



R29 - P1



Looking south

R31 - P1



Looking north

R36 - P1



Looking east

R38 - P1



Looking east

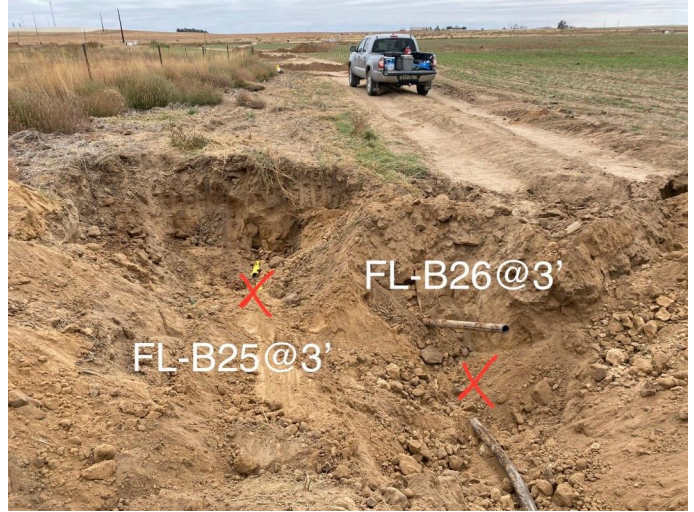


R40 - P1



Looking east

R42 - P1



Looking east

R44 - P1



Looking east

R46 - P1



Looking east

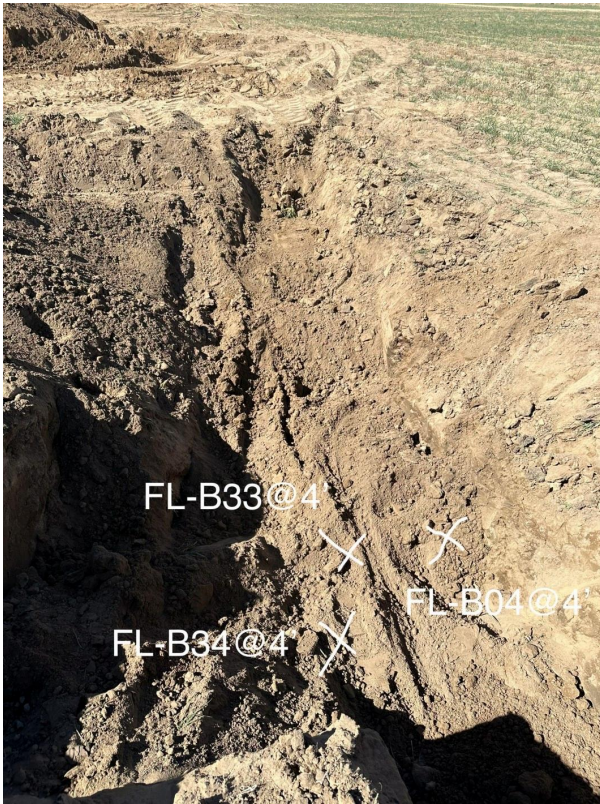
R48 - P1



Looking east



R49 - P1



Facing West

R51 - P1



Facing East

R53 - P1



Facing East



R55 - P1



Facing East

R57 - P1



Looking south

R58 - P1



Facing East

R59 - P1



Facing East

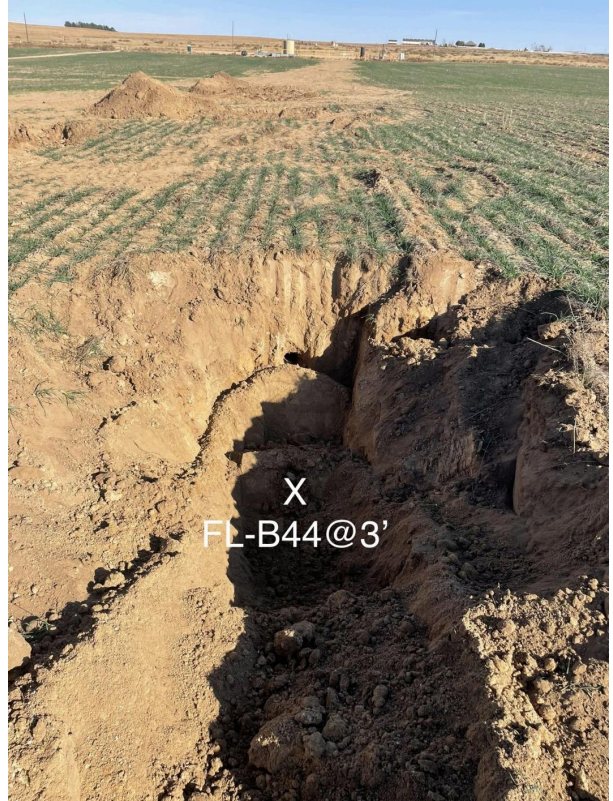


R60 - P1



Facing East

R61 - P1



Facing East

R62 - P1



Facing East

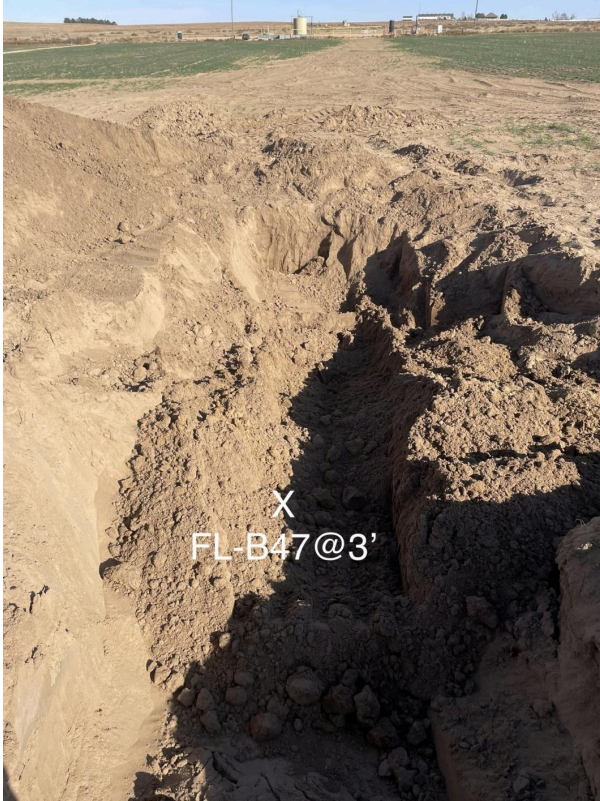
R63 - P1



Facing East



R64 - P1



Facing East

R66 - P1



Facing west

R67 - P1



facing west

R68 - P1



facing west



R69 - P1



facing west

R71 - P1



facing west

R73 - P1



facing west

R75 - P1



facing west



R77 - P1



FL-B49-01 @3'

Facing west

Other observations regarding wellheads

#### Summary

Was impacted soil identified?	No
Total number of soil samples field screened	78
Total number of soil samples collected	78
Highest PID Reading	30.9
Total number of soil samples submitted to lab for analysis	32
Was groundwater encountered during the investigation?	No
Measured depth to groundwater	
Was remedial groundwater removal conducted?	No
Date Groundwater was encountered	
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	