



## Wellhead Closure Checklist

### Additional Attachments (Optional)

Well Name	Strong P 28-2
Remediation Project #	24758
Date	09/07/2022

### Wellhead Information

Client	Occidental Petroleum
Weather	88, sunny
Field Personnel	AM, MB
Location	
Latitude	40.200392
Longitude	-104.891293
General Condition of Site	Site in good condition
USCS Soil Type	<i>Sandy Clay / Sandy Clay</i>
Estimated Depth to Groundwater	<20'
Hydrocarbon Impacted Soils / Spills	Impacted soils observed at WH
Salt Crusted Soils or Impacted Vegetation	None observed

### Soil Samples

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Olfactory	Equipment Name
R1	09/07/2022	01:15 PM	FL-B02@3'	0.9	N.S	N.O	Flowline
R2	09/07/2022	01:38 PM	WH-BG01@3'	1.8	N.S	N.O	Background
R3	09/07/2022	01:40 PM	WH-BG01@6'	2.3	N.S	N.O	Background
R4	09/07/2022	01:41 PM	WH-BG02@3'	0.5	N.S	N.O	Background
R5	09/07/2022	01:42 PM	WH-BG02@6'	0.6	N.S	N.O	Background
R6	09/07/2022	02:51 PM	FL-B01@2'	0.9	N.S	N.O	Flowline
R7	09/07/2022	02:53 PM	FL-B03@4'	2.3	N.S	N.O	Flowline
R8	09/07/2022	02:54 PM	Initial Waste Characterization@4'	339.0	Black staining	HC odor	Wellhead
R9	09/08/2022	02:05 PM	WH-B01@6'	1181	black staining	HC odor	Wellhead
R10	09/08/	02:06 PM	WH-N01@5'	7.1	N.S	N.O	Wellhead

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Olfactory	Equipment Name
	2022						
R11	09/08/2022	02:09 PM	WH-S01@5'	8.9	N.S	N.O	Wellhead
R12	09/08/2022	02:10 PM	WH-E01@5'	2.2	N.S	N.O	Wellhead
R13	09/08/2022	02:11 PM	WH-W01@5'	31.5	N.S	Slight HC odor	Wellhead
R14	09/08/2022	02:13 PM	WHS-N01@3"	3.4	N.S	N.O	Wellhead
R15	09/08/2022	02:14 PM	WHS-S01@3"	2.8	N.S	N.O	Wellhead
R16	09/08/2022	02:15 PM	WHS-E01@3"	2.7	N.S	N.O	Wellhead
R17	09/08/2022	02:16 PM	WHS-W01@3"	260.1	N.S	HC odor	Wellhead
R18	09/09/2022	11:26 AM	FL-B04@3'	0.1	N.S	N.O	Abandoned Flowline
R19	09/15/2022	02:20 PM	DL-B01@5'	31.6	HC staining	Slight HC odor	DCP dump line
R20	11/01/2022	12:43 PM	WH-B02@11'	2.8	N.S	N.O	Wellhead Excavation
R21	11/01/2022	12:44 PM	WH-N02@6'	0.3	N.S	N.O	Wellhead Excavation
R22	11/01/2022	12:45 PM	WH-N03@6'	0.2	N.S	N.O	Wellhead Excavation
R23	11/01/2022	12:46 PM	WH-S02@6'	0.4	N.S	N.O	Wellhead Excavation
R24	11/01/2022	12:47 PM	WH-S03@6'	0.3	N.S	N.O	Wellhead Excavation
R25	11/01/2022	12:48 PM	WH-E02@6'	0.2	N.S	Slight HC odor	Wellhead Excavation
R26	11/01/2022	12:50 PM	WH-W02@1'	0.1	N.S	Slight HC odor	Wellhead Excavation
R27	11/01/2022	12:53 PM	WH-W02@6'	0.2	N.S	N.O	Wellhead Excavation
R28	11/01/2022	01:28 PM	WH-BG03@10'	0.8	N.S	N.O	Wellhead background
R29	11/01/2022	01:41 PM	WH-BG04@10'	0.5	N.S	N.O	Wellhead background
R30	03/18/2024	08:45 AM	WH-BG05@6'	0.2	N.S	N.O	Background
R31	03/18/2024	08:50 AM	WH-BG05@8'	0.4	N.S	N.O	Background
R32	03/18/2024	08:55 AM	WH-BG06@6'	0.2	N.S	N.O	Background
R33	03/18/2024	09:00 AM	WH-BG06@8'	0.2	N.S	N.O	Background

#	Sample Date	Sample Time	Soil Sample ID	PID Readings	Visual	Olfactory	Equipment Name
	2024						
R34	03/18/2024	09:05 AM	WH-BG07@6'	0.1	N.S	N.O	Background
R35	03/18/2024	09:10 AM	WH-BG07@8'	0.2	N.S	N.O	Background
R36	03/18/2024	09:15 AM	WH-BG08@6'	0.3	N.S	N.O	Background
R37	05/02/2024	01:16 PM	WH-N04@6'	2.0	N.S	N.O	Wellhead
R38	05/02/2024	01:18 PM	WH-S04@6'	1.1	N.S	N.O	Wellhead
R39	05/02/2024	01:20 PM	WH-W03@6'	3.5	N.S	N.O	Wellhead
R40	05/10/2024	02:40 PM	WH-B05@6'	3.8	None	None	Wellhead
R41	06/06/2024	11:00 AM	WH-N06@6'	8.6	Stain	NA	Wellhead
R42	06/06/2024	11:02 AM	WH-N07@6'	4.8	Stain	None	wellhead
R43	06/06/2024	11:04 AM	WH-W03@6'	3.8	stain	none	wellhead
R44	06/06/2024	11:06 AM	WH-W04@6'	6.5	stain	none	wellhead
R45	06/06/2024	11:08 AM	WH-S05@6'	6.4	stain	none	wellhead
R46	06/06/2024	11:10 AM	WH-S06@6'	1.9	stain	none	wellhead
R47	06/06/2024	11:12 AM	WH-BG09@4'	12.6	none	none	Background
R48	06/06/2024	11:14 AM	WH-BG09@8'	12.4	none	none	background
R49	06/06/2024	11:16 AM	WH-BG10@4'	13.0	none	none	background
R50	06/06/2024	11:18 AM	WH-BG11@4'	12.7	none	none	background
R51	06/06/2024	11:20 AM	WH-BG11@8'	12.6	none	none	background

Photo(s)

R1 - P1



Looking south

R2 - P1



Looking west

R4 - P1



Looking east

R6 - P1



Looking Southwest

R7 - P1



FL-B03@4'

Looking West

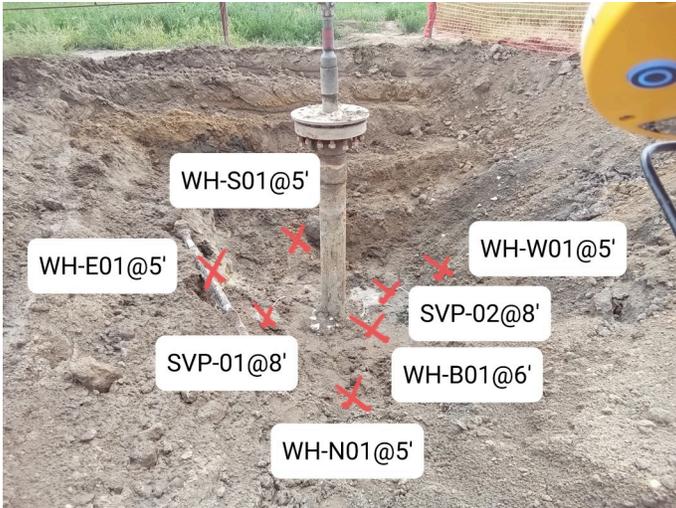
R8 - P1



Initial Waste Characterization @4'

Looking Northwest

R9 - P1



WH-S01@5'

WH-E01@5'

WH-W01@5'

SVP-02@8'

SVP-01@8'

WH-B01@6'

WH-N01@5'

Looking South

R14 - P1

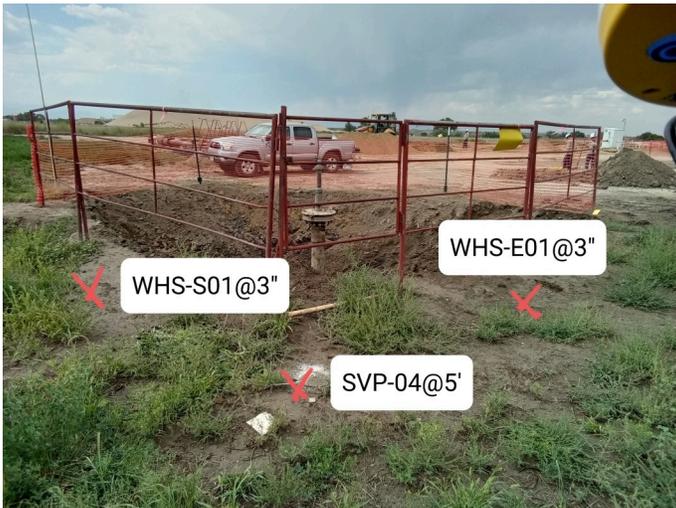


SVP-03@5'

WHS-N01@3"

Looking South

R15 - P1



WHS-S01@3"

WHS-E01@3"

SVP-04@5'

Looking Northwest

R17 - P1



WHS-W01@3"

SVP-05@5'

Looking Southeast

R18 - P1



Looking Northwest

R20 - P1



Looking East

R26 - P1



Looking North

R28 - P1



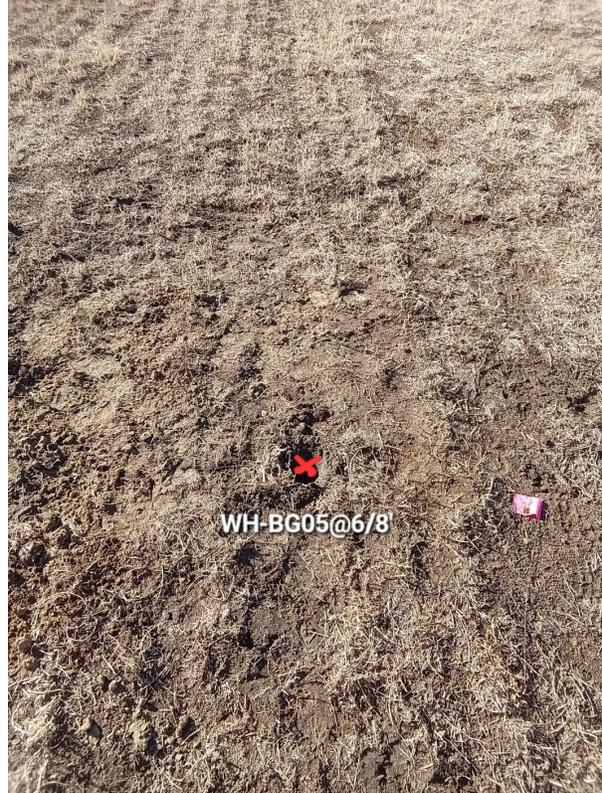
Looking South

R29 - P1



Looking East

R30 - P1



Looking south

R32 - P1



Looking south

R34 - P1



Looking south

R36 - P1



Looking south

R37 - P1



looking west

R40 - P1



Facing south

R41 - P1



Facing north

R47 - P1



Facing south

R49 - P1



Facing north

R50 - P1



Facing southwest

Other observations regarding wellheads

**Summary**

Was impacted soil identified?	Yes - less than 10 cubic yards
Total number of soil samples field screened	53
Total number of soil samples collected	53
Highest PID Reading	1181
Total number of soil samples submitted to lab for analysis	42
Was groundwater encountered during the investigation?	Yes - groundwater impacted and/or in contact with impacted soils
Measured depth to groundwater	10'
Was remedial groundwater removal conducted?	No
Date Groundwater was encountered	11/01/2022
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