

Wellhead Closure Checklist

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

Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: <u>Moonraker 4-27</u>		Date: <u>2/3/23</u>					Remediation Project #: <u>21023</u>	
Associated Wells:		Age of Site:					Number of Photos Attached:	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) <u>39.150730, -103.654100</u>							Estimated Facility Size (acres):	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) <u>Good condition</u>								
USCS Soil Type: <u>sm</u>				Estimated Depth to Groundwater: <u>720'</u>				
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <u>None observed</u>								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <u>None observed</u>								
Wellhead(s)								
Well API	<u>073-06757</u>							
Age								
Condition of surface around wellhead	<u>good</u>							
PID Readings								
Condition of subsurface (staining present)								
PID Readings	<u>0.0</u>	<u>0.3</u>	<u>0.6</u>	<u>0.4</u>	<u>1.2</u>	<u>2.9</u>		
Sample taken? Location/Sample ID#	<u>WH-B0120'</u>	<u>WH-N0125'</u>	<u>WH-S0125'</u>	<u>WH-E0125'</u>	<u>WH-W0125'</u>	<u>WH-S-N0123"</u>		
Photo Number(s)								
Other observations regarding wellheads: <u>see attached table for remaining field screenings.</u>								
Summary								
Was impacted soil identified? <u>No</u> Yes - less than 10 cubic yards Yes - more than 10 cubic yards								
Total number of samples field screened: <u>10</u>				Total number of samples collected: <u>10</u>				
Highest PID Reading: <u>2.9</u>				Total number of samples submitted to lab for analysis: <u>1</u>				
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? 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:				
Seen 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:								

Flowline Closure Checklist

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

Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: 481403		Date: 2/3/23				Remediation Project #: 21623		
Associated Wells: Moogracker 6-27		Age of Site:				Number of Photos Attached:		
Starting point: (GPS coordinates and descriptions) 39.15072, -103.6541								
End point: (GPS coordinates and descriptions) 39.14974, -103.65909								
USCS Soil Type: sm					Estimated Depth to Groundwater: 720'			
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								
Depth								
Age								
Length	1,628'							
Construction Material								
Were flowlines pulled?								
Visual Integrity of lines								
Visual impacts if trenched								
PID Readings if trenched	0.6	0.6	0.3	1.1				
Sample taken? Location/Sample ID#	FL-B01e4'	FL-B02e4'	FL-B03e4'	FL-B04e4'				
Photo Number(s)								
Other observations regarding on location flowlines:								
Summary								
Was impacted soil identified? <div style="display: flex; justify-content: space-between;"> <input checked="" type="radio"/> No <input type="radio"/> Yes - less than 10 cubic yards <input type="radio"/> Yes - more than 10 cubic yards </div>								
Total number of samples field screened: 4					Total number of samples collected: 4			
Highest PID Reading:					Total number of samples submitted to lab for analysis: 4			
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? <div style="display: flex; justify-content: space-between;"> <input checked="" type="radio"/> No <input type="radio"/> Yes - not impacted or in contact with impacted soils <input type="radio"/> Yes - groundwater impacted and/or in contact with impacted soils </div>								
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:								

Tank Battery Closure Checklist

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

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: 459718		Date: 2/3/23						Remediation Project #: 21423
Associated Wells:		Age of Site:						Number of Photos Attached:
Location: (GPS coordinates of southeaster berm) 39.149740, -109.659090								Estimated Facility Size (acres):

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)

Good condition

USCS Soil Type: **Sm**

Estimated Depth to Groundwater: **720'**

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

Tanks

Tank Contents	Produced Water		Aboveground Storage Tank					
Size (barrels)								
Age								
Construction Material								
Tank type								
Visual Integrity								
Condition of tank								
PID Readings								
Soil impacts present at valves or hatches?								
PID Readings	2.1		1.8	1.3				
Sample taken? Location/ Sample ID#	PW-B01 C3"		AST-B01 C3"	AST-B02 C3"				
Photo Number(s)								

Other observations regarding tanks:

Separators

Separator size								
Vertical or Horizontal								
Age								
Soil impacts								
PID Readings	1.5							
Sample taken? Location/ Sample ID#	SEP-B01 C3"							
Photo Number(s)								

Other observations regarding separators:

Third Party Equipment

Type								
Age								

Third Party														
Removal Date														
Sample taken?														
Location/Container														
PID Readings														
Photo Number(s)														
Other Facility Equipment														
Equipment type	Combustor													
Equipment Condition														
Age														
Soil impacts														
PID Readings	0.6			1.8										
Sample taken?	com-B01E3"			com-B02E3"										
Location/Container														
Photo Number(s)														
Other observations regarding other facility or third party equipment:														
Summary														
Was impacted soil identified?														
<input checked="" type="radio"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards														
Total number of samples field screened:					6									
Highest PID Reading:					2.1									
Total number of samples collected:					6									
Total number of samples submitted to lab for analysis:					6									
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="radio"/> 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?									
Date Groundwater was encountered:					Yes No									
Commencement date of removal:					Volume of groundwater removed prior to sampling:									
Sheen on groundwater?					Volume of groundwater removed post sampling:									
Yes No					Total Volume of groundwater removed:									
Total number of samples collected:														
Total number of samples submitted to lab for analysis:														