

# Inspection and Maintenance Requirements for Control Structure/ Flow Restrictor



## Maintenance Checklist

Maintenance Component	Defect	Conditions When Maintenance is Needed	Results Expected When Maintenance Is Performed	Satisfactory	Unsatisfactory	Comments
General	Trash and debris (includes sediment)	<ul style="list-style-type: none"> <li>Material exceeds 25% of sump depth or 1 foot below orifice plate.</li> </ul>	<ul style="list-style-type: none"> <li>Control structure orifice is not blocked.</li> <li>All trash and debris removed.</li> </ul>			
	Structural damage	<ul style="list-style-type: none"> <li>Structure is not securely attached to manhole wall.</li> </ul>	<ul style="list-style-type: none"> <li>Structure securely attached to wall and outlet pipe.</li> </ul>			
		<ul style="list-style-type: none"> <li>Structure is not in upright position (allow up to 10% from plumb).</li> </ul>	<ul style="list-style-type: none"> <li>Structure in correct position.</li> </ul>			
		<ul style="list-style-type: none"> <li>Connections to outlet pipe are not watertight and show signs of rust.</li> </ul>	<ul style="list-style-type: none"> <li>Connections to outlet pipe are water tight.</li> <li>Structure repaired or replaced and works as designed.</li> </ul>			
		<ul style="list-style-type: none"> <li>Any holes--other than designed holes--in the structure.</li> </ul>	<ul style="list-style-type: none"> <li>Structure has no holes other than designed holes.</li> </ul>			

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Cleanout gate	Damaged or missing cleanout gate	<ul style="list-style-type: none"> <li>Cleanout gate is not watertight or is missing.</li> </ul>	<ul style="list-style-type: none"> <li>Gate is watertight and works as designed.</li> </ul>			
		<ul style="list-style-type: none"> <li>Gate cannot be moved up and down by one maintenance person.</li> </ul>	<ul style="list-style-type: none"> <li>Gate moves up and down easily and is watertight.</li> </ul>			
		<ul style="list-style-type: none"> <li>Chain/rod leading to gate is missing or damaged.</li> </ul>	<ul style="list-style-type: none"> <li>Chain is in place and works as designed.</li> </ul>			
		<ul style="list-style-type: none"> <li>Gate is rusted over 50% of its surface area.</li> </ul>	<ul style="list-style-type: none"> <li>Gate is repaired or replaced to meet design standards.</li> </ul>			
Orifice plate	Damaged or missing orifice plate	<ul style="list-style-type: none"> <li>Control device is not working properly due to missing, out of place, or bent orifice plate.</li> </ul>	<ul style="list-style-type: none"> <li>Plate is in place and works as designed.</li> </ul>			
	Obstructions to orifice plate	<ul style="list-style-type: none"> <li>Any trash, debris, sediment, or vegetation blocking the plate.</li> </ul>	<ul style="list-style-type: none"> <li>Plate is free of all obstructions and works as designed.</li> </ul>			
Overflow pipe	Obstructions to overflow pipe	<ul style="list-style-type: none"> <li>Any trash or debris blocking (or having the potential of blocking) the overflow pipe.</li> </ul>	<ul style="list-style-type: none"> <li>Pipe is free of all obstructions and works as designed.</li> </ul>			
Manhole	Refer to Closed Detention Systems (Tanks/Vaults) maintenance checklist					
Catch basin	Refer to Catch Basin maintenance checklist					