



OPERATION AND MAINTENANCE
Water and Sediment Control Basin (638)

_____ Landowner _____ Service Center
_____ County _____ Date

A properly operated and maintained **Water and Sediment Control Basin (638)** is an asset, and with proper management, will protect the natural resources. A water and sediment control basin designed according to Conservation Practice Standard 638 operates during rainfall events without monitoring by the client. However, regular inspection and prompt post-storm maintenance is necessary to ensure the water and sediment control basin continues to fulfill its purpose economically and with minimum impact to downstream properties and streams. The estimated life span of the system is at least 10 years, but the life can normally be increased by carrying out consistent Operation and Maintenance (O&M) program.

The activities listed below, at a minimum, are required to operate and maintain the practice in good working order.

Following rainfall events greater than ½ -inch in any 24-hour period, inspect the following:

1. Check the embankment and excavated spillway slopes for erosion which has removed vegetation. Restore eroded soils and reseed and mulch damaged areas in the same manner as the original construction. Verify that the basin ridge height is restored to design elevation.
2. Check the outlet measures of the basin. Remove debris which will obstruct flow. Look for displaced outlet armoring and replace armoring to the as-built location and shape.
3. If the storm event caused flow through the auxiliary spillway, restore the auxiliary spillway profile to design grade and shape. Verify that the auxiliary spillway crest is restored to design elevation following maintenance.
4. Check the level of sediment captured in the basin.

Perform routine inspections of the sediment basin every 3 months throughout its use and promptly maintain its capacity and safety functions. In addition to the above items, inspect the following:

1. Check the integrity of fencing, safety warning signs, and any other safety measures. Promptly repair or replace these measures.
2. As applies, visually check the outlet riser for changes which may indicate unusual settlement. Examine the outlet pipe for leaks at pipe joints. Contact NRCS for technical assistance with structural spillway problems.
3. Maintain vigorous vegetative cover on the embankment, auxiliary spillway, and other disturbed areas with appropriate soil amendments and regular mowing to prevent growths of woody vegetation. For embankment areas planned for crop production, follow the farm conservation plan for soil erosion protection between harvest and planting periods.

4. When the sediment level reaches the design clean-out depth, perform a clean-out before the next predicted rainfall.
 - a. Note the depth of the sediment and excavate accordingly. Check the grade of the sediment during clean-out operations to avoid over-excavation and unnecessary disposal work.
 - b. Dispose of sediment at the location and in the manner as designed. Install erosion and sediment control measures at the disposal site immediately after placing sediments. Seed disposal area within 24 hours of placing sediment.
 - c. Repair the maintenance access grade and reseed as needed following each clean-out operation.

Other Specific Requirements: _____

<u>Inspection Date</u>	<u>Items to be Repaired and Corrective Action Taken</u>	<u>Repair Date</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Contact your local NRCS office for any additional technical assistance to implement this O&M plan.

This O&M Plan was discussed and a copy provided to the landowner/operator _____
 NRCS Staff Initials & Date