

Dry Detention Pond Maintenance Requirements

Important maintenance procedures:

- The drainage area will be managed to reduce the sediment load to the dry extended detention basin.
- Immediately after the dry extended detention basin is established, the vegetation will be watered twice weekly if needed until the plants become established (commonly six weeks).
- No portion of the dry extended detention pond will be fertilized after the first initial fertilization that is required to establish the vegetation.
- The vegetation in and around the basin will be maintained at a height of approximately six inches.
- If cracks, seepage, or woody vegetation is present, consult a dam safety expert for a dam inspection.

The measuring device used to determine the sediment elevation shall be such that it will give an accurate depth reading and not readily penetrate into accumulated sediments.

After the dry detention basin is established, it will be inspected **quarterly**. Inspection activities shall be performed as follows and any problems identified will be remediated immediately per the table below.

BMP element:	Potential problem:	How to remediate the problem:
The entire BMP	Trash/debris is present.	Remove the trash/debris.
The perimeter of the BMP	Areas of bare soil and/or erosive gullies have formed.	Regrade the soil if necessary to remove the gully, and then plant a ground cover and water until it is established. Provide lime and a one-time fertilizer application.
	Vegetation is too short or too long.	Maintain vegetation at a height of approximately six inches.
The inlet device	The pipe is clogged.	Unclog the pipe. Dispose of the sediment off-site.
	The pipe is cracked or otherwise damaged.	Replace the pipe.
	Erosion is occurring in the swale.	Regrade the swale if necessary to smooth it over and provide erosion control devices such as reinforced turf matting or riprap to avoid future problems with erosion.
	Stone verge is clogged or covered in sediment (if applicable).	Remove sediment and replace with clean stone.
The forebay	Trash/debris is present.	Remove the trash/debris.
	Erosion has occurred or riprap is displaced.	Provide additional erosion protection such as reinforced turf matting or riprap if needed to prevent future erosion problems.
	Weeds are present.	Remove the weeds, preferably by hand. If pesticides are used, wipe them on the plants rather than spraying.

Dry Detention Pond Maintenance Requirements (continued)

BMP element:	Potential problem:	How to remediate the problem:
The main treatment area	Sediment has accumulated and reduced the depth to 75% of the original design depth (per pond design data sheet)	Search for the source of the sediment and remedy the problem if possible. Remove the sediment and dispose of it in a location where it will not cause impacts to streams or the BMP. Revegetate disturbed areas immediately with sod (preferred) or seed protected with securely staked erosion mat.
	Water is standing more than 5 days after a storm event.	Check outlet structure for clogging. If it is a design issue, consult an appropriate professional.
	Weeds and noxious plants are growing in the main treatment area.	Remove the plants by hand or by wiping them with pesticide (do not spray).
The embankment	Shrubs or trees have started to grow on the embankment.	Remove shrubs or trees immediately.
	Grass cover is unhealthy or eroding.	Restore the health of the grass cover – consult a professional if necessary.
	Signs of seepage on the downstream face.	Consult a professional.
	Evidence of muskrat or beaver activity is present.	Use traps to remove muskrats and consult a professional to remove beavers.
	An annual inspection by an appropriate professional shows that the embankment needs repair.	Make all needed repairs.
The outlet device	Clogging has occurred.	Clean out the outlet device. Dispose of the sediment off-site.
	The outlet device is damaged	Repair or replace the outlet device.
The receiving water	Erosion or other signs of damage have occurred at the outlet.	Contact the local NC Department of Environment and Natural Resources Regional Office.

Dry Detention Pond Design Summary

DRY POND ID	FOREBAY	MAIN POND
<input style="width: 100%; height: 15px;" type="text"/>	Temporary Pool El: <input style="width: 50px; height: 15px;" type="text"/>	Temporary Pool El: <input style="width: 50px; height: 15px;" type="text"/>
Pretreatment <input style="width: 50px; height: 15px;" type="text"/>	Clean out depth: <input style="width: 50px; height: 15px;" type="text"/>	Clean out depth: <input style="width: 50px; height: 15px;" type="text"/>
Has Veg. Filter <input style="width: 50px; height: 15px;" type="text"/>	Sediment Storage El: <input style="width: 50px; height: 15px;" type="text"/>	Sediment Storage El: <input style="width: 50px; height: 15px;" type="text"/>
	Bottom El: <input style="width: 50px; height: 15px;" type="text"/>	Bottom El: <input style="width: 50px; height: 15px;" type="text"/>