

Low Density Maintenance Requirements

Important maintenance procedures:

- The drainage area to the vegetated conveyance or vegetated receiving area will be carefully managed to reduce the sediment load to the vegetated conveyance or vegetated receiving area.
- After the initial fertilization to establish the grass in the vegetated conveyance or the vegetated receiving area, fertilizer will not be applied to the vegetated receiving areas.

The vegetated conveyance or vegetated receiving area will be inspected **quarterly**. Records of operation and maintenance will be kept in a known set location and will be available upon request.

Inspection activities shall be performed as follows. Any problems that are found shall be repaired immediately.

SCM element:	Potential problem:	How to remediate the problem:
Vegetation	Vegetation is too short or too long.	Maintain grassed vegetation such that the swale or vegetated area does not erode during the peak flow from the 10-year storm
Vegetated receiving areas	Trash/debris is present.	Remove the trash/debris.
	Areas of bare soil and/or erosive gullies have formed.	Regrade the soil if necessary to remove the gully, and then re-sod (or plant with other appropriate species) and water until established. Provide lime and a one-time fertilizer application.
	Trees and/or other woody vegetation are present in the swale.	Remove the trees and woody vegetation from the swale, regrade the swale if necessary and re-establish grass as shown on the approved plans.
Vegetated conveyances / swales / roadside ditches (other than curb outlet swales)	Trash/debris is present.	Remove the trash/debris.
	Areas of bare soil and/or erosive gullies have formed.	Regrade the soil if necessary to remove the gully, and then re-sod (or plant with other appropriate species) and water until established. Provide lime and a one-time fertilizer application.
	Sediment covers the grass at the bottom of the swale.	Remove sediment and dispose in an area that will not impact streams or SCMs. Re-sod if necessary.
	The side slope is steeper than the approved configuration.	Regrade the slopes to the permitted configuration per the approved plan and reestablish vegetation. If as-built or existing conditions do not allow the slopes to be regraded, contact Wake County Watershed Management.
	Grass is dead, diseased or dying.	Determine the source of the problem: soils, hydrology, disease, etc. Remedy the problem and replace plants. Provide a one-time fertilizer application to establish the ground cover if necessary.
	Trees and/or other woody vegetation are present in the vegetated conveyance.	Remove the trees and woody vegetation from the vegetated conveyance, regrade the vegetated conveyance if necessary and re-establish grass as shown on the approved plans.
Curb outlet swales or vegetated areas	The longitudinal slope exceeds 5%.	Regrade to meet the permitted longitudinal slope as shown on the approved plans.
	The swale profile does not match the approved detail.	Regrade the swale to the approved profile as shown on the approved plans.
	The length of the swale or vegetated area is less than 100 feet.	Extend the swale to achieve the 100-foot minimum length. If as-built or existing conditions do not allow the slopes to be regraded, contact the applicable permitting agency.

Low Density Maintenance Requirements (continued)

SCM element:	Potential problem:	How to remediate the problem:
The outlet device (if applicable)	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.	Repair the damage and improve the flow dissipation structure.
	Discharges from the site are causing erosion or sedimentation in the receiving water.	Contact Wake County Watershed Management and the NCDEQ Raleigh Regional Office.