

**WET DETENTION BASIN
OPERATION AND MAINTENANCE AGREEMENT**

Project Name: _____

Project Location: _____

SCM as Identified on Approved Plans: _____

PIN Number: _____

Mail after recording to: City of Burlington
Stormwater Division
P.O. Box 1358
Burlington, NC 27216

NORTH CAROLINA

ALAMANCE COUNTY

This STORMWATER OPERATION AND MAINTENANCE AGREEMENT,
made this day _____ of _____, 20 _____

by _____ whose principal address is
_____ with, to, and for the
benefit of the City of Burlington, a municipal corporation of the State of North Carolina, whose
address is P.O. Box 1358, Burlington, North Carolina 27216.



Wet Detention Basin Operation and Maintenance Agreement

I will keep a maintenance record on this Stormwater Control Measure (SCM). This maintenance record will be kept in a log in a known set location. Any deficient SCM elements noted in the inspection will be corrected, repaired or replaced immediately. These deficiencies can affect the integrity of structures, safety of the public, and the removal efficiency of the SCM.

The wet detention basin system is defined as the wet detention basin, pretreatment including forebays and the vegetated filter if one is provided.

This system (check one):

does does not **incorporate a vegetated filter at the outlet.**

This system (check one):

does does not **incorporate pretreatment other than a forebay.**

Important maintenance procedures:

- Immediately after the wet detention basin is established, the plants on the vegetated shelf and perimeter of the basin should be watered twice weekly if needed, until the plants become established (commonly six weeks).
- No portion of the wet detention pond should be fertilized after the first initial fertilization that is required to establish the plants on the vegetated shelf.
- Stable groundcover should be maintained in the drainage area to reduce the sediment load to the wet detention basin.
- If the basin must be drained for an emergency or to perform maintenance, the flushing of sediment through the emergency drain should be minimized to the maximum extent practical.
- Once a year, a dam safety expert should inspect the embankment.

After the wet detention pond is established, it should be inspected **once a month and within 24 hours after every storm event greater than 1.0 inches**. Records of operation and maintenance should be kept in a known set location and must be available upon request.

Annually, by May 31, an inspection shall be completed by a qualified professional and submitted to the City of Burlington.

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

| SCM element: | Potential problem: | How I will remediate the problem: |
|---|--|---|
| The entire SCM | Trash/debris is present. | Remove the trash/debris. |
| The perimeter of the wet detention basin | 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. |

| SCM element: | Potential problem: | How I will remediate the problem: |
|--|--|---|
| The inlet device: pipe or swale | 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. |
| The forebay | Sediment has accumulated to a depth greater than the original design depth for sediment storage. | 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 SCM. |
| | Erosion has occurred. | 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 herbicide is used, wipe it on the plants rather than spraying. |
| The vegetated shelf | Best professional practices show that pruning is needed to maintain optimal plant health. | Prune according to best professional practices |
| | Plants are 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 a soil test indicates it is necessary. |
| | Weeds are present. | Remove the weeds, preferably by hand. If herbicide is used, wipe it on the plants rather than spraying. |
| The main treatment area | Sediment has accumulated to a depth greater than the original design sediment storage depth. | 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 SCM. |
| | Algal growth covers over 50% of the area. | Consult a professional to remove and control the algal growth. |
| | Cattails, phragmites or other invasive plants cover 10% of the basin surface. | Remove the plants by wiping them with herbicide (do not spray). |

| SCM element: | Potential problem: | How I will remediate the problem: |
|----------------------------|--|---|
| The embankment | Shrubs have started to grow on the embankment. | Remove shrubs immediately. |
| | Evidence of muskrat or beaver activity is present. | Use traps to remove muskrats and consult a professional to remove beavers. |
| | A tree has started to grow on the embankment. | Consult a dam safety specialist to remove the tree. |
| | An annual inspection by appropriate professional shows that the embankment needs repair. (if applicable) | 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 City of Burlington Water Resources Stormwater Division at 336-222-5140. |

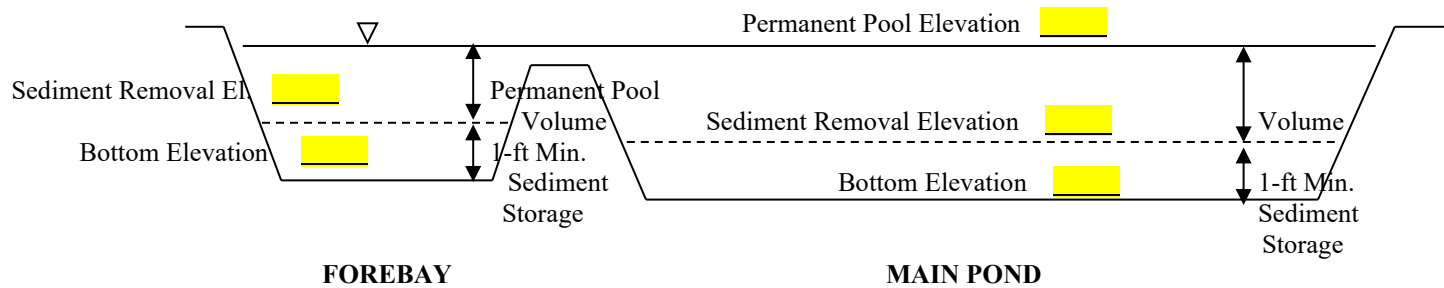
The measuring device used to determine the sediment elevation shall be such that it will give an accurate depth reading and not readily penetrate into accumulated sediments.

When the permanent pool depth reads [redacted] feet in the main pond, the sediment shall be removed.

When the permanent pool depth reads [redacted] feet in the forebay, the sediment shall be removed.

BASIN DIAGRAM

(fill in the blanks)



I acknowledge and agree by my signature below that I am responsible for the performance of the maintenance procedures listed above. I agree to notify the City of Burlington of any problems with the system or prior to any changes to the system or responsible party.

This Agreement shall be binding upon the undersigned and its successors and assigns and all current and future owners thereof, and their respective heirs, successors and assigns, in perpetuity, and shall be appurtenant to, run with, and burden the parcels of land referred to herein.

Project name: _____

SCM as identified on approved plans: _____

Print name: _____

Title: _____

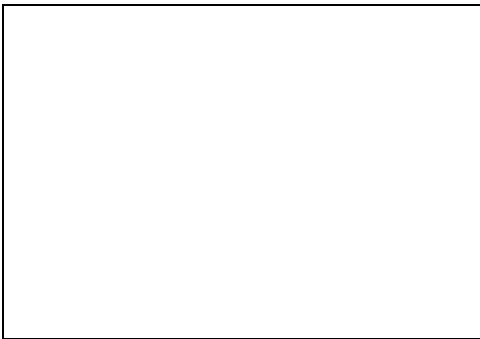
Address: _____

Phone: _____

Signature: _____

Date: _____

I, _____, a Notary Public for the State of _____, County of _____, do hereby certify that _____ personally appeared before me this _____ day of _____, _____, and acknowledge the due execution of the forgoing wet detention basin maintenance requirements. Witness my hand and official seal,



SEAL

My commission expires _____