

**STORMWATER OPERATION AND MAINTENANCE  
AGREEMENT**

Project Name: \_\_\_\_\_

Town Project Number: \_\_\_\_\_

PIN Number: \_\_\_\_\_

Mail after recording to: Town of Mooresville  
Engineering Department  
Stormwater Program Specialist  
2523 Charlotte Highway  
Mooresville, NC 28117

NORTH CAROLINA

IREDELL 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 Town of Mooresville, a municipal corporation  
of the State of North Carolina, whose address is 413 North Main Street,  
Mooresville, North Carolina 28115.

## Wet Pond Operation and Maintenance Agreement

I will keep a maintenance record on this BMP. This maintenance record will be kept in a log in a known set location. Any deficient BMP 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 BMP.

The wet pond system is defined as the wet pond, 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 pond 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 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 pond.
- If the pond must be drained for an emergency or to perform maintenance, the flushing of sediment through the emergency drain should be minimized as much as possible.
- 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.

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

BMP element:	Potential problem:	How I will remediate the problem:
The entire BMP	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.

<b>BMP element:</b>	<b>Potential problem:</b>	<b>How I will remediate the problem:</b>
<b>The inlet device: pipe or swale</b>	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.
<b>The forebay</b>	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 BMP.
	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 pesticide is used, wipe it on the plants rather than spraying.
<b>The vegetated shelf</b>	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 pesticide is used, wipe it on the plants rather than spraying.
<b>The main treatment area</b>	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 BMP.
	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 50% of the basin surface.	Remove the plants by wiping them with pesticide (do not spray).

<b>BMP element:</b>	<b>Potential problem:</b>	<b>How I will remediate the problem:</b>
<b>The embankment</b>	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 an appropriate professional shows that the embankment needs repair.	Make all needed repairs.
<b>The outlet device</b>	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.
<b>The receiving water</b>	Erosion or other signs of damage have occurred at the outlet.	Contact the local NC Division of Water Quality Regional Office, or the 401 Oversight Unit at 919-733-1786.
<b>Floating wetland island (if applicable)</b>	Weeds or volunteer trees are growing on the mat.	Remove the weeds or trees
	The anchor cable is damaged, disconnected or missing.	Restore the anchor cable to its design state.

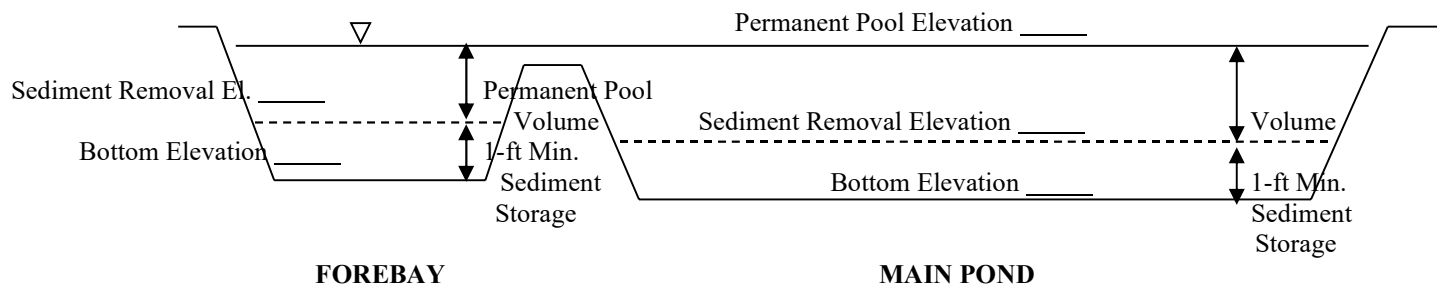
The measuring device used to determine the sediment elevation shall be such that it will give an accurate depth reading and not readily penetrate into accumulated sediments.

When the permanent pool depth reads \_\_\_\_\_ feet in the main pond, the sediment shall be removed.

When the permanent pool depth reads \_\_\_\_\_ feet in the forebay, the sediment shall be removed.

### BASIN DIAGRAM

*(fill in the blanks)*



**Operation and Maintenance Agreement Additional Requirements as set forth by the Town of Mooresville Phase II Post Construction and Illicit Discharge & Connection Ordinance  
Section 25-20:**

1. The owner or owners shall continuously operate and maintain the stormwater control and management facilities.
2. The Town of Mooresville is granted a right of entry to inspect, monitor, maintain, repair, and reconstruct structural BMPs.
3. The Town of Mooresville will recover from the owner or owners any and all costs the Town of Mooresville expends to maintain or repair the structural BMPs, pursuant to Article 6, Enforcement and Violations, as set forth in the Town of Mooresville Phase II Post Construction and Illicit Discharge & Connection Ordinance.
4. This Operation and Maintenance Agreement shall not obligate the Town of Mooresville to maintain or repair any structural BMPs, and the Town of Mooresville shall not be liable to any person for the condition or operation of structural BMPs.
5. This Operation and Maintenance Agreement shall not in any way diminish, limit, or restrict the right of the Town of Mooresville to enforce any of its ordinances as authorized by law.
6. The Town of Mooresville is indemnified and held harmless for any costs and injuries arising from or related to the structural BMP, unless the Town of Mooresville has agreed in writing to assume the maintenance responsibility for the BMP and has accepted dedication of any and all rights necessary to carry out that maintenance.

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 Town of Mooresville of any problems with the system or prior to any changes to the system or responsible party. I agree to notify the Town of Mooresville of any subsequent conveyance of the property to a new owner, and agree to provide updated contact information for any subsequent owner.

This maintenance agreement runs with the land, and is binding upon any and all subsequent owners of the hereinabove described property.

Project name: \_\_\_\_\_

BMP drainage area number: \_\_\_\_\_

Print name: \_\_\_\_\_

Title: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Note: The legally responsible party should not be a homeowners association unless more than 50% of the lots have been sold and a resident of the subdivision has been named the president.

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 \_\_\_\_\_ Notary Signature \_\_\_\_\_