STORMWATER OPERATION AND MAINTENANCE AGREEMENT

Project Name:			_
Town Project Number:_			-
PIN Number:			
Mail after recording to:	Town of Mooresville Engineering Departm Stormwater Program 2523 Charlotte Highw Mooresville, NC 2811	Specialist ay	
NORTH CAROLINA			
IREDELL COUNTY			
This STORMWATER	OPERATION AND I	MAINTENANCE	AGREEMENT,
made this day	_ of	, 20	_
by			
whose principal addr	ess is		
	enefit of the Town of		— unicipal corporation of the
State of North Carolin	na, whose address is	113 North Main St	treet, Mooresville, North
Carolina 28115			

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

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 for any dams that meet NCDENR criteria for high hazard dams.

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	Areas of bare soil and/or	Regrade the soil if necessary to
detention basin	erosive gullies have formed.	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	Maintain vegetation at a height of
	long.	approximately six inches.

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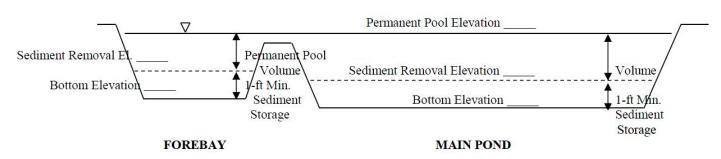
BMP element:	Potential problem:	How I will remediate the problem:
The inlet device: pipe or	The pipe is clogged.	Unclog the pipe. Dispose of the
swale		sediment off-site.
	The pipe is cracked or	Replace the pipe.
	otherwise damaged.	
	Erosion is occurring in the	Regrade the swale if necessary to
	swale.	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	Search for the source of the
	a depth greater than the	sediment and remedy the problem if
	original design depth for	possible. Remove the sediment and
	sediment storage.	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
	XA7 1	prevent future erosion problems.
	Weeds are present.	Remove the weeds, preferably by
		hand. If pesticide is used, wipe it on
The wegeteted shalf	Post mustassismal muschises	the plants rather than spraying.
The vegetated shelf	Best professional practices	Prune according to best professional
	show that pruning is needed	practices
	to maintain optimal plant health.	
	Plants are dead, diseased or	Determine the source of the
	dying.	problem: soils, hydrology, disease,
	dynig.	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
	1	hand. If pesticide is used, wipe it on
		the plants rather than spraying.
The main treatment area	Sediment has accumulated to	Search for the source of the
	a depth greater than the	sediment and remedy the problem if
	original design sediment	possible. Remove the sediment and
	storage depth.	dispose of it in a location where it
		will not cause impacts to streams or
		the BMP.
	Algal growth covers over	Consult a professional to remove
	50% of the area.	and control the algal growth.
	Cattails, phragmites or other	Remove the plants by wiping them
	invasive plants cover 50% of	with pesticide (do not spray).
	the basin surface.	

BMP 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 an 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 local NC Division of Water Quality Regional Office, or the 401 Oversight Unit at 919-733-1786.

BMP Number:	
This system (<i>check one</i>): ☐ does ☐ does not	incorporate a vegetated filter at the outlet.
This system (<i>check one</i>): ☐ does ☐ does not	incorporate pretreatment other than a forebay.
C	used to determine the sediment elevation shall be such that it epth reading and not readily penetrate into accumulated
When the permanent p shall be removed.	ool depth reads feet in the main pond, the sediment
When the permanent p shall be removed.	ool depth reads feet in the forebay, the sediment

BASIN DIAGRAM

(fill in the blanks)



Operation and Maintenance Agreement Additional Requirements as set forth by current Town of Mooresville Ordinances or Policies as applicable:

- 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. 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.
- 4. 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.
- 5. 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.

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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:
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