Permit Number:	

City of Kannapolis Wet Detention Basin Operation and Maintenance Agreement

I will keep a maintenance record on this 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 (<i>check one</i>): ☐ 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.

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	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.

SCM 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
	F 1 1	the SCM.
	Erosion has occurred.	Provide additional erosion
		protection such as reinforced turf
		matting or riprap if needed to
	Mondo and muscont	prevent future erosion problems.
	Weeds are present.	Remove the weeds, preferably by
		hand. If pesticide is used, wipe it on
The vegetated shelf	Best professional practices	the plants rather than spraying. Prune according to best professional
The vegetated shell	show that pruning is needed	practices
	to maintain optimal plant	practices
	health.	
	Plants are dead, diseased or	Determine the source of the
	dying.	problem: soils, hydrology, disease,
	17-18	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.
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 SCM.
	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.	

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 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 City of Kanapolis Engineering Department 704-920-4200.

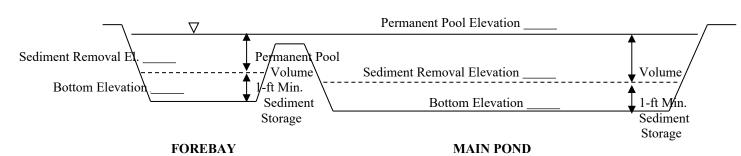
The measuring device used to determine the sediment elevation shall be such that it will give an accurate depth reading and not readily penetrate into accumulated sediments.

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)



Permit Number:	
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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 City of Kannapolis Engineering Department of any problems with the system or prior to any changes to the system or responsible party.

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_, a Notary Public for the State of
, do hereby certify that
personally appeared before me this
nowledge the due execution of the
irements. Witness my hand and official