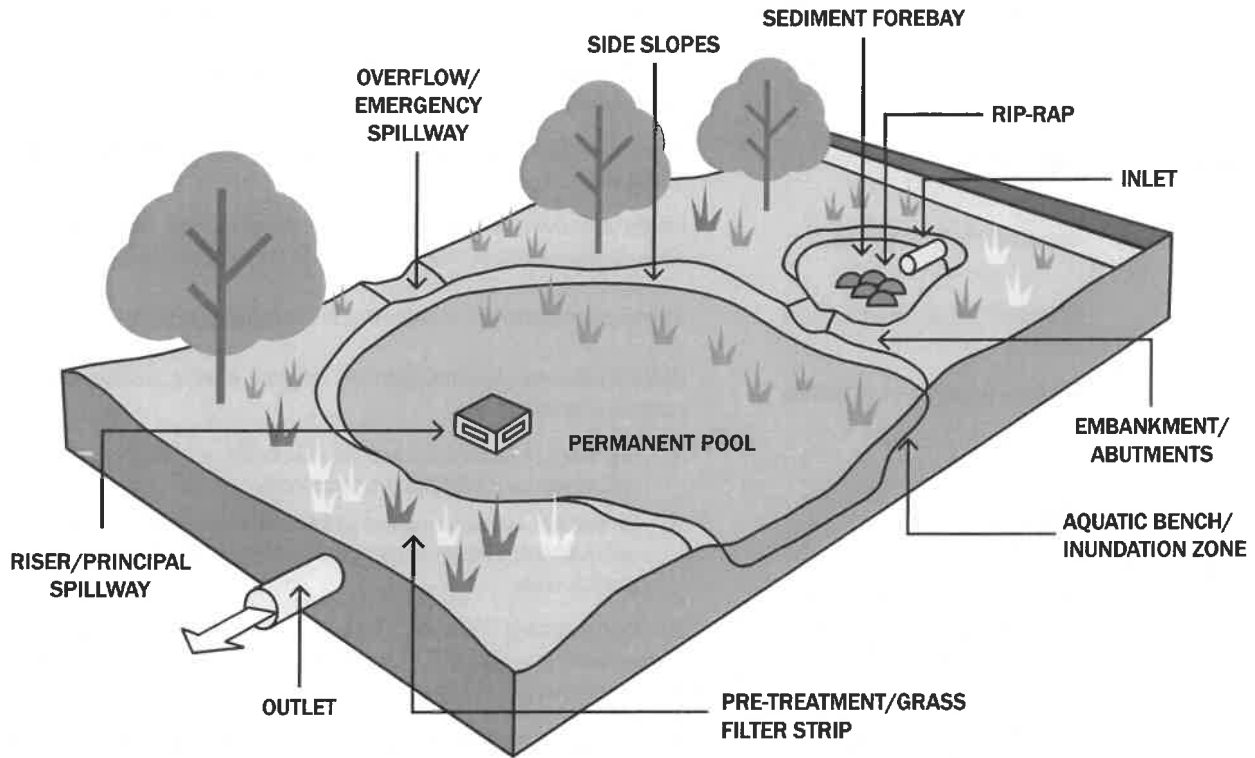




Wet Pond

SWMF ID# _____

OWNER _____



Maintenance

Wet ponds consist of a permanent pool of standing water that acts as a barrier to prevent re-suspension of solids and other pollutants deposited during storms. When designed and maintained properly, wet ponds have numerous pollutant removal mechanisms to protect the surrounding environment. Maintenance is needed so wet ponds operate as intended over a long-term basis. Routine maintenance, such as mowing and removing debris and trash, is needed annually. Inspection and repair of critical structure features (i.e., embankments and risers) should be performed by a qualified professional who has experience in the inspection, construction, and repair of these features.

Routine maintenance will take place on an annual or biennial schedule. The table below lists the frequency of maintenance, the specific actions that will take place during the routine maintenance, and which routine maintenance items will be addressed at that time.

FREQUENCY	ROUTINE MAINTENANCE GOAL	ROUTINE MAINTENANCE ACTIVITY
Annual	Trash and Debris Removal	<ul style="list-style-type: none"> Remove trash and debris, including the removal of leaves and woody debris
	Invasive Species Management	<ul style="list-style-type: none"> Control, reduce, or eliminate establishment and growth of invasive species (Wet Pond Level 2)
	Tree Management	<ul style="list-style-type: none"> Prune damaged tree limbs by cutting back to next lateral branch or parent stem Control brush or woody vegetation to maintain a clear channel
Biennial	Rodent and Pest Management	<ul style="list-style-type: none"> Backfill any burrows that may be problematic
	Side-Slope Protection / Stabilization	<ul style="list-style-type: none"> Replenish and amend soil where cavities and heavily eroded areas have developed along side-slopes Re-seed and mulch areas with soil exposed (add soil where more than two inches of soil loss is observed)
	Vegetation Management	<ul style="list-style-type: none"> Mow and control weeds Monitor and replant dead or dying plants Prevent large root systems from impacting structural components

Repair maintenance occurs when components of a facility are observed as degraded or severely impaired during a scheduled inspection. The table below lists the specific maintenance issue observed, each component type, and required maintenance activity to correct the maintenance issue.

ISSUE	COMPONENT	MAINTENANCE ACTIVITY
Sedimentation	Vegetated Channel (Emergency Spillway)	Remove excess sediment, as needed, to maintain a clear channel
	Riser and Outlet/Principal Spillway	Remove sediment and correct other problems contributing to blockage to maintain a clear channel
	Inlet and Outlet	Remove sediment and correct other problems contributing to blockage to maintain a clear channel
	Permanent Pool (Micro-Pool)	Dredge or remove excess sediment to restore design capacity. Re-evaluate current design for improvements, such as the addition of a sediment forebay
	Sediment Forebay / Pre-Treatment	Remove excess sediment, as needed, to maintain design function
Structural	Riser and Outlet/Principal Spillway	Repair or replace any fractured, corroded, defective, spalling, misaligned, or leaking riser/ weir components
	Inlet and Outlet	<ul style="list-style-type: none"> Repair or replace any fractured, corroded, defective, spalling, misaligned, or leaking inlet and outlet piping or components For seepage, contact a qualified professional engineer or soil scientist to inspect and recommend repairs (If possible, in the interim, reduce water level below problem area)
	Berm, Embankments, Side Slopes, or Abutments	For seepage, settling, or shearing issues, contact a qualified professional engineer or soil scientist to inspect and recommend repairs (If possible, in the interim, reduce water level below problem area)
	Sediment Forebay / Pre-Treatment	Repair or replace any fractured, corroded, defective, spalling, misaligned, or leaking components
Pollution	Riser and Outlet/Principal Spillway	Clean up pollutants using approved spill response procedures and determine source of pollutant using approved Illicit Discharge and Improper Disposal Response Plan to correct source
	Inlet and Outlet	
	Permanent Pool (Micro-Pool)	
	Sediment Forebay / Pre-Treatment	
Vegetation	Vegetated Channel (Emergency Spillway)	Control brush or woody vegetation to maintain a clear channel
	Inlet and Outlet	
	Sediment Forebay / Pre-Treatment	Control woody growth on or within five feet of berm, embankments, side slopes, or abutments
	Permanent Pool (Micro-Pool)	
	Berm, Embankments, Side Slopes, or Abutments	