POND AND WET BASIN MAINTENANCE GUIDANCE

Maintenance of ponds and wet basins focuses on the periodic removal of sediment and debris from pretreatment and storage areas and prevention of outlet control clogging.

General recommended maintenance activities for ponds and wet basins are summarized in Table 4.7-1.

The designer is referred to Section 4.10, Pretreatment, Section 4.11, Inlet Controls, Section 4.12, Outlet Controls, and Section 4.13, Landscaping, for information on maintenance guidance for pretreatment, inlet controls, outlet controls, and landscaping.

TABLE 4.7-1:
Pond and Wet Basin Maintenance Guidelines

	ACTIVITY	FREQUENCY
EARLY	Water vegetation at the beginning of each day for eight weeks after planting is completed.	*Daily for eight weeks after installation*
EARLY	Water vegetation regularly to ensure successful establishment.	*Every four days during periods of four or more days without rain, June through August for the 24 months after installation*
EARLY	Inspect vegetation for signs of disease or distress.	*Biweekly for the first year after installation*
EARLY	Inspect inlet controls, outlet structures, and storage areas for trash and sediment accumulation.	*Monthly for the first year after installation to determine ongoing maintenance frequency*
ONGOING	Remove trash and debris from forebay, pond, and outlet structure.	*As needed*
ONGOING	Remove non-target/invasive vegetation.	
ONGOING	Grassed areas require periodic prudent fertilizing, dethatching and soil conditioning.	
ONGOING	Trees, shrubs, and other vegetative cover will require periodic maintenance such as fertilizing, pruning and pest control.	
ONGOING	Mow/trim detention basin vegetation, excluding aquatic bench and buffer.	
ONGOING	Treat basin for mosquito larvae if stagnant water remains for longer than 72 hours.	
ONGOING	Dredge large volumes of sediment and organic debris from basin and forebay areas. Accumulated sediment must never occupy greater than 50% of the forebay volume.	*As Needed At least once every five to ten years**
ONGOING	Inspect outlet control structure for clogging.	*Quarterly and after every storm greater than one inch*
ONGOING	Inspect SMP for potential problems, including: subsidence, erosion, cracking, or tree growth on the embankment; damage to the emergency spillway; sediment accumulation around the outlet; inadequacy of the inlet/outlet channel erosion control measures; changes in the condition of the pilot channel; and erosion within the SMP and its banks.	*Annually*
ONGOING	Maintain records of all inspections and maintenance activity.	*Ongoing*

**The frequency of sediment removal depends on site conditions such as soil type and maintenance of site stabilization which influence the sediment load on the SMP.*