

NAME: Pond, Wet

DEFINITION: A wet pond is a stormwater management facility, which includes: a) a permanent pool of water for enhancing water quality and b) additional capacity above the permanent pool for detaining stormwater runoff.

PURPOSE: Wet ponds fill with stormwater and release most of it over a period of a few days, slowly returning the pond to its normal depth. Wet ponds improve water quality by two mechanisms. Water contained in the permanent pool mixes with and dilutes the initial runoff from storm events. Runoff generated during the early phases of a storm usually has the highest concentrations of sediment and dissolved pollutants. Therefore, the concentration of pollutants in runoff released to downstream drainages is reduced. Following storm events, pollutants are removed from water retained in the pond. Several mechanisms that remove pollutants in wet ponds include settling of suspended particulates and biological uptake, or consumption of pollutants by plants, algae, and bacteria in the water. Therefore, the total mass of pollutants released to downstream areas also can be substantially reduced by using wet ponds.

- PERMANENT**
- COMPANION BMPS:
 - OUTLET STABILIZATION STRUCTURE
 - GRASS SWALE
 - FILTER STRIP
 - PERMANENT VEGETATIVE STABILIZATION
 - ALTERNATIVE BMPS:
 - DRY POND
 - CONSTRUCTED TREATMENT WETLAND
 - BIORETENTION

