

Chapter 3 - OVERVIEW OF EROSION, SEDIMENT, AND STORMWATER CONTROL PRACTICES (BMPs)

STORMWATER RETENTION BASINS

This practice pertains to the construction of infiltration reservoirs or basins (usually dry) to provide complete on-site storage and treatment of a specific volume of stormwater runoff. For pollution control purposes, these facilities are usually designed and constructed to divert and percolate runoff volume associated with the first flush of stormwater pollutants leaving the site. Such facilities are practical wherever soil permeability is sufficient to allow rapid percolation between storms. If soil permeability is insufficient, an underdrain or stormwater filtration system may need to be incorporated.

These systems may also be used for groundwater recharge. Potential groundwater contamination may be a problem associated with these systems and must always be considered in their design.

Typically used to treat parking lot and rooftop runoff.



Retention basin treats runoff on site through infiltration.