

AQUIFER PROTECTION AREA GUIDANCE INFORMATION

CONSIDERATIONS FOR REQUIRING REGISTRANTS TO PREPARE STORMWATER MANAGEMENT PLANS

When deemed necessary to protect the aquifer protection area well, the Agency may require, by written notice, any registrant to submit a Storm Water Management Plan (SWMP) prepared in accordance with the Best Management Practices (BMPs) section of the Aquifer Protection Area (APA) Regulations. The SWMP shall consider measures to prevent or mitigate water quality impacts to the groundwater aquifer and shall meet the requirements of the Connecticut Department of Environmental Protection's (DEP) Commercial Stormwater General Permit. Measures include facility information, stormwater discharge type & conveyance, stormwater pollution prevention, pavement sweeping, outdoor storage and washing restriction, spill control/response, and maintenance and inspection of storm water structures.

The following should be considered when deciding if a plan is necessary:

1. A stormwater management plan already exists for the site.
2. A Material Management Plan has already minimized materials exposed to precipitation, contact with stormwater, or releases to groundwater.
3. Site proximity to the well field.
4. Size and intensity of the site.
5. Potential for illicit discharges to stormwater (wastewater, fuel, chemicals).
6. The presence of "storm water hot spots" such as: intense outdoor storage and loading areas, fueling areas, uncovered dumpsters materials, exposed raw materials, products or machinery, or large intensive parking areas and roadways.
7. Lack of necessary impervious pavement in high potential pollutant release areas.
8. The presence of subsurface stormwater infiltration structures such as dry wells, galleries, or leaching trenches in paved areas. These structures may not adequately allow for attenuation of chemicals, fuels, salts or other soluble compounds in groundwater that may be contained in runoff.
9. Use of hazardous deicing chemicals.
10. Site maintenance and oversight of storm water structures.

Stormwater principals for Aquifer Protection Areas (and other groundwater drinking supply areas) are to:

- prevent inadvertent pollution discharges/releases to Stormwater
- provide necessary impervious pavement in high potential pollutant release areas

- direct paved surface runoff to aboveground type land treatment structures- sheet flow, surface swales, depressed grass islands, detention/retention and infiltration basins, and wet basins, and
- to the extent possible recharge stormwater where it does not endanger groundwater quality.

The DEP 2004 Connecticut Stormwater Quality Manual provides comprehensive stormwater guidance and is available on the DEP's website at www.ct.gov/dep/stormwater.