

How Turfgrass Aids in Stormwater Management and Eliminates Need for Stormwater Ponds

By Mike Kelly, Glenn Rehbein Companies

CumminsNPower, located in White Bear Lake, has tried a unique system for storm water management using a system that should be familiar to you - "perched water system."

Glenn Rehbein Companies, an MGCSA affiliate member, has worked for a number of years on stormwater issues using turf and other porous materials.

By using the right sand, additives and growing material, the system retains water when it is "at field saturation." The system drains approximately 10-20 inches per hour.

What Does This Do For Us?

1. Grass cleans the water.
2. Grass cools the water like an evaporative cooler in a greenhouse or in the southern desert area.
3. Grass creates a beautiful area that can be used as overflow parking.
4. Grass cools the air (8 average size lawns produce 70 tons of air conditioning



Lawn and landscaping used for infiltrate and filter stormwater runoff from adjacent hard surfaces.



Before and after installation of the Netlon Advanced Turf rootzone. Profile consists of the right rock, sand, and amendments (peat and mesh) to provide maximum infiltration and stability.

capacity).

5. Grass reduces the noise pollution in urban areas.

This is one of the solutions to stormwater management that we can do that does not involve a pond or that can reduce the size of a pond. This means fewer geese - the nuisance of our courses.

If you are interested in a stormwater management project visit CumminsNPower in White Bear Lake and see how effective this system is.

