

US EPA ARCHIVE DOCUMENT

EPA Greenscapes: Building Sustainable
Sites from the Ground Up.
Engineered Soils for Retaining
Stormwater on the Landscape.
Project Retrofit.

2006 ASLA Annual Meeting
Minneapolis, MN
October 7, 2006
Forum Sat-A1
Dwayne Stenlund, MS, CPESC, CPRM
Department of Transportation











Turfgrass Compost

- Capture storm water/reduce runoff
 - Reduce watering
 - Moderate yearly climate extremes
- Lower soil compaction at surface
- Reduce chemical inputs
 - Retain phosphorus
 - Retain other nutrients
- Phytoremediate urban pollutants
- Facilitate disease competitive bacteria and fungi

Is this Safe?

Compacted play area

Mosquito breeding grounds

Exposed water child trap

Low infiltration





Is this Functional?



Is this much better?

Urban Stormwater Opinion

- All turf areas should have a minimum 1 % organic matter content to a 6 inch depth minimum (135 yd³/ac), with an additional 1 inch (135 yd³/ac) topdressing of compost prior to seeding or sodding.
- Adds ~\$4000 per acre costs, applied and incorporated
- All houses should have a Water Use 'Truth in Energy Label' for turf







Sod did not last 8 months



Landscape Erosion Control









6402427



