



Green Residential Stormwater Management Fact Sheet



*The value of green building construction starts
exceeds*

*\$12 billion in 2008 and is projected to increase to \$60 billion by 2010. (Source: McGraw-Hill
Construction Analytics, SmartMarket Trends Report 2008)*

*The construction market accounts for 14.2%
of the \$10 trillion U.S. GDP (Source: 2006 DOE Buildings Energy Data Book).*

*By 2009, 80% of corporate America is expected to be engaged in green at least 16% of the
time, and 20% will be engaged in green 60% of the time (Source: McGraw Hill Construction,
Greening of Corporate America SmartMarket Report, 2007).*

Free Tour

Visit
website to
schedule it!

[www.stormwater.
ucf.edu/](http://www.stormwater.ucf.edu/)

Gray Water System

FSGE installed **Florida's first** 'whole house' gray water reuse system with an 85-gallon cistern. Gray water refers to any household wastewater excluding toilet wastes and garbage disposal waste, which can be used for irrigation and other water conservation applications. In FSGE's case potable water used in showers, bathroom sinks and clothes washers is routed to the gray water cistern in the garage where it is treated according to Florida Building Code.

"A Brevard County Approved System,"

Brevard County Building, Code & Permitting
Department www.brevardcounty.us/permits/.

Then this treated gray water is used to flush all of the toilets throughout the home. Water from faucets, showers and washing machines not contaminated by human waste, can be filtered and used to irrigate landscaping and flush toilets.

When the gray water exceeds the 85-gallon cistern capacity, it is diverted to the underground 5,178 gallon cistern outside the house for irrigating one of the five green roofs and native landscape. So in total, FSGE's gray water system uses potable water up to three times for pennies a month!

Stormwater

Stormwater is generated from the "built environments" and in specific from impervious surfaces where it picks up particles and dissolved materials in addition to gross solids before ending up in local surface waters.

Green Roofs

Green roof construction in the United States has grown by 80% between 2004 and 2005. A green roof stormwater treatment system is a vegetated roof with a cistern.

- Reduce Stormwater runoff, pollution control, volume reduction, and peak flow reduction
- Roof will treat its own runoff not allowing it to transport the nutrients into our waterways
- Increase land area available for building
- Insulate buildings leading to lower energy use (can reduce monthly bills up to 25%)
- Clean the air, reduce global warming, control local climate
- Irrigated with recycled green roof filtrate water
- Can last 50 to 100 years opposed to a 15yr roof
- Plant Palette, plant absorption of CO₂, with spatial and aesthetic benefit

Replenish our Aquifer

Porous pavement used as a driveway, patio, and decking around your Pool!

Ask about 'Black & Gold™' tires?

