

The TRUEGRID® System and Storm Water Run-Off

How does TRUEGRID help fight storm water run-off and other pollutants?

One of the many benefits of the TRUEGRID system is to reduce pollutants that are running off into rivers, lakes and oceans. TRUEGRID’s highly permeable surface and base aggregate temporarily detain storm water runoff and mimic the natural ground by allowing infiltration into the subsoil with high flows out-flowing into external stormwater systems.

TRUEGRID allows rainwater that would normally runoff into rivers and streams, to be detained below the surface and receive water quality treatment by filtering through the base aggregate and filtering through soils below when conditions allow.

Hydrocarbons from cars, pet waste, nitrogen, and other pollutants are filtered and removed by bioremediation, before they reach the ground water. Asphalt, concrete or other impermeable surfaces concentrate and otherwise carry these pollutants direct from the surface to storm sewers, streams, and dams.

TRUEGRID Permeable Pavers allows for filtered water seepage for point outflow release or groundwater recharge while preventing stream erosion problems. It captures the heavy metals that fall, preventing them from washing downstream and accumulating inadvertently in the environment. In the void spaces, naturally occurring micro-organisms digest car oils, leaving little but carbon dioxide and water.

Structural BMP Expected Pollutant Removal Efficiency BMP (Best Management Practices)

Typical Pollutant Removal (percent)					
BMP Type	Suspended Solids	Nitrogen	Phosphorous	Pathogens	Metals
TRUEGRID	65 – 95	65-82	30 – 65	65 – 95	65 - 99
Dry Retention Basins	30 - 65	15 – 45	15 – 45	< 30	15 - 45
Retention Basins	50 – 80	30 - 65	30 - 65	< 30	50 – 80
Constructed Wetlands	50 – 80	< 30	15 - 45	< 30	50 – 80
Infiltration Basins	50 – 80	50 - 80	50 - 80	65-100	50 – 80
Infiltration Trenches / Dry Wells	50 – 80	50 - 80	15 - 45	65-100	50 – 80
Grassed Swales	30 – 65	15 – 45	15 – 45	< 30	15 – 45
Vegetated Filter Strips	50 – 80	50 – 80	50 – 80	< 30	30 – 65
Surface Sand Filters	50 - 80	< 30	50 – 80	< 30	50 – 80

Source: Adapted from US EPA. Note: TRUEGRID represents permeable paving in the chart above.



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