

## R&D Subcommittee Glossary of Stormwater Industry Terms

Treatment Measures	Pollutants
Gross Pollutant Traps, Screens/Booms	Anthropogenic Litter, Debris, Vegetation, Limited To Medium Sand (>200um)
Sediment & Oil Arrestors (Hydrodynamic Separator)	Free Oils, Limited To Medium - Fine Sand, (>100um), Minimal Particulate Nutrients (i.e. <15% TP & <10% TN prior to decomp.)
Proprietary Filters	Debris, Vegetation, TSS, Settleable Solids, Nutrients (Dissolved and Particulate i.e. ≤60% TP & ≤40% TN), Heavy Metals
Sand Filters/Swales	Debris, Vegetation, Limited To Fine Sand, Settleable Solids, Nutrients (Dissolved and Particulate i.e. ≤60% TP & ≤40% TN), Heavy Metals
Wetland/Ponds	Limited To Fine Silt, Settleable Solids, Nutrients (Dissolved and Particulate i.e. ≥50% TP & ≥50% TN), Heavy Metals
Biofiltration/Raingardens	TSS, Settleable Solids, Nutrients (Dissolved and Particulate i.e. ≥50% TP & ≥50% TN), Heavy Metals
Rainwater tanks	Silts and Sands, Particulates
Permeable Pavers	TSS, Disolved and Particulate Nutrients and Heavy Metals

Soil Grades	Very Coarse Soils	BOULDERS		> 200 mm
		COBBLES		60 - 200 mm
	Coarse Soils	G GRAVEL	coarse	20 - 60 mm
			medium	6 - 20 mm
			fine	2 - 6 mm
		S SAND	coarse	0.6 - 2.0 mm
			medium	0.2 - 0.6 mm
			fine	0.06 - 0.2 mm
	Fine Soils	M SILT	coarse	0.02 - 0.06 mm
			medium	0.006 - 0.02 mm
fine			0.002 - 0.006 mm	
C CLAY		< 0.002 mm		

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<b>Pollutant Definitions</b>	
Gross Pollutants	Anthropogenic Litter, Debris, Vegetation (All >5mm)
Total Suspended Solids	Material within a water sample that can be filtered out (>0.45um) or classified as non-filterable solids, that cannot pass through a filter.
Heavy Metals	Typically Zinc, Cadmium, Copper, Lead, Chromium etc, in particulate or dissolved, attracting to sediment, but commonly produced by vehicles.
Total Phosphorus	Typically the sum of orthophosphate and organically bound phosphate.
Total Nitrogen	The sum of total Kjeldahl nitrogen (Organic & Ammonia NH <sub>3</sub> ), nitrate, and nitrite.
Sands, Silt, Sediment	Refer Chart
Hydrocarbons/Oils	Main components of petroleum and natural gas, generally produced by vehicles, devices with hydrocarbon based cooling fluids etc.
<b>Other Definitions</b>	
Dissolved	Filterable matter or matter smaller than 0.45um
Particulate	A small solid that is suspended in water
Nitrification	Conversion of nitrogen-containing organic compounds into nitrates and nitrites. Typically present as ammonium ions NH <sub>3</sub> <sup>+</sup>
De-nitrification	Bacteria reducing nitrates to nitrites. Denitrification can only be synthetised under anaerobic circumstances. This is the main reason why denitrification mostly occurs in areas of stagnant water.
Eutrophication	An excess level of nutrients which causes a large amount of, or thick, plant growth

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