



BMP	Description	Application	Effectiveness	Cost
www.duluthstreams.ogr	Bioswale A bioswale is a broad, shallow channel with a dense stand of vegetation covering the side slopes and bottom. Bioswales are designed to treat stormwater primarily through filtration, and plant uptake before conveying the flow to a downstream discharge location. The vegetation helps in reducing flow velocity to prevent erosion.	Can be planted with either grass or native vegetation, bioswales are best served in residential, industrial, and commercial landuse with smaller tributary drainage areas.		
www.estormwater.com	Planter Boxes Planter boxes provide stormwater treatment through filtration and adsorption. Stormwater is captured and treated via filtration through the soil media and root zone and evapotranspiration through the planted vegetation before discharging back to storm drain system.	Planter boxes are typically used in urban areas adjacent to buildings and along sidewalks		





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	Infiltration Trench			
	An infiltration trench is a long,			
	narrow, rock-filled trench bordered on each side by a grass or vegetated			
	buffer. Runoff is stored in the void			
www.ricecreek.org	space between the stones and			
	infiltrates through the bottom into the			
	soil matrix. The buffer strips provide			
	pretreatment to limit the amounts of			
	coarse sediments entering the trench			
	which can cause clogging.			
	Bioretention/Infiltration Curb	Bioretention/Infiltration		
10000000000000000000000000000000000000	Inlets	Curb Inlets are great for		
		uses in urban		
	They provide stormwater treatment	environments and offer		
	as well as peak flow attenuation	green spaces in highly		
	through storage and	urbanized areas.		
	filtration/infiltration, and adsorption.			
	Stormwater is captured and treated			
	via filtration/infiltration through the			
	soil media and evapotranspiration			
	through the planted vegetation.			





BMP	Description	Application	Effectiveness	Cost
BMP www.stormh2o.com	Biotreatment Curb Inlet Biotreatment curb inlets are well suited for the urban environment. They add green space while providing stormwater runoff treatment. Unlike end-of-line treatment systems, it treats smaller drainage areas closer to the source of pollutants. This BMP can be used in retrofit project using existing catch basins and provides a natural approach to address high levels of fecal coliform and enterococcus bacteria, as well as other pollutants	Application	Effectiveness	Cost
	found in stormwater.			





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	Curb Extension	•		
	Curb extensions have historically			
	been used to slow traffic and			
	improve pedestrian safety. A			
	landscaped curb extension version			
	are now being increasingly used to			
	treat stormwater runoff and provide			
	green space. Essentially similar to			
	rain gardens, they treat stormwater			
	through filtration, infiltration, and			
Portland Bur of Env Services	evapotranspiration.			
	Pervious Concrete Pavement			
	Pervious concrete is an open void			
	material designed to allow rainwater			
1 1	to filter through the paved surface			
	into the ground or a storage container			
10000000000000000000000000000000000000	rather than settling on the surface.			
	It's two main objectives are runoff			
	peak flow attenuation while provide			
	stormwater treatment. Site specific			
www.concretenetwork.com	design of the retention/recharge area			
	include an initial soils site survey,			
	and site specific storm water			
	calculations for volume and duration			

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BMP	Description	Application	Effectiveness	Cost
	Porous Concrete Pavers			
The state of the s	Similar to the porous concrete			
1/1/11	pavement, unit pavers provide a			
	hardscape alternative to stormwater			
	treatment BMPs. Unit pavers, or			
blogspot.com	paving stones, are impermeable			
	blocks made of brick, stone, or			
	concrete, set on a prepared sand base.			
	The joints between the blocks are filled with sand or stone dust to allow			
	water to percolate downward.			
	Grass Pavers			
picasaweb.google.com	Similar in concept and function to the porous concrete pavements and unit pavers, the grass pavers are "landscapted" alternatives designed to allow infiltration of stormwater runoff to the underlaying soil media. Grass pavers, or turf blocks, are a type of open-cell unit paver whereby the cells are filled with soil and planted with turf. The cell matrix are typically made of concrete or synthetic material.			
	Recycled Rubber Sidewalk			

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BMP	Description	Application	Effectiveness	Cost
www.rubbersidewalks.com	Originally used as alternatives to cracked sidewalks from protruding tree roots, rubber sidewalks are considered as another form of porous pavers to infiltrate runoff. Typically made of recycled rubber from waste tires,			