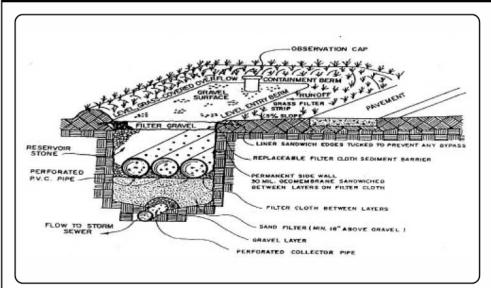
BMP: Trench Sand Filter System



DESCRIPTION:

An adaptation of the surface sand filter system. The trench sand filter system has two variations. One variation consists of a trench sand filter system with a stone reservoir. The other variation consists of a trench sand filter system with a small sedimentation pond.

APPLICATION:

► Townhouse developments or small commercial redevelopments

INSTALLATION/APPLICATION CRITERIA:

- Topography should offer sufficient relief to allow the system to function by gravity flow.
- ▶ Design for easy maintenance accessibility.
- Design for safety barriers which prevent children from entering the sedimentation pond.

LIMITATIONS:

- Sites with little or no gradient may prevent sufficient gravity flow through the systems.
- Not recommended for parking lots.

MAINTENANCE:

- Stone reservoirs will require periodic replacement of the upper filter cloth and gravel layer.
- ▶ Sedimentation ponds will require periodic removal of accumulated sediment.

CONSIDERATIONS

- Soils
- □ Area Required
- Slope
- □ Water Availability
- □ Aesthetics
- ☐ Hydraulic Head
- □ Environmental Side Effects



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TARGETED POLLUTANTS

- Sediment
- □ Nutrients
- Heavy Metals
- ☐ Toxic Materials
- ☑ Oxygen Demanding Substance
- ☐ Oil & Grease
- □ Floatable Materials
- □ Bacteria & Viruses
- High Impact
- Medium Impact
- □ Low or Unknown Impact

IMPLEMENTATION REQUIREMENTS

- Capital Costs
- O&M Costs
- Maintenance
- □ Training
- High
- Medium
- □ Low