

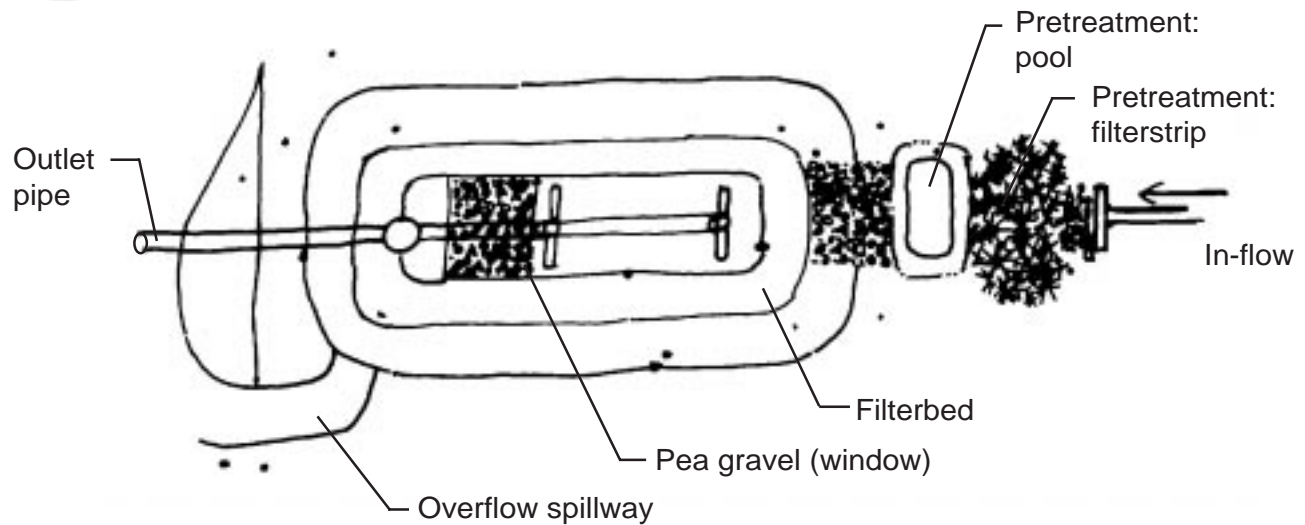
**PRIMARY USE:** A simplified and low cost filter for treating stormwater on smaller sites.  
**ADDITIONAL USES:**

## POCKET SAND FILTER

**What is it?** This simplified and low cost design diverts runoff from the water quality volume (WQV) into the filter by pipe where pretreatment is by means of a concrete flow spreader, a grass filter strip and a plunge pool. The filter bed is also a simple design and is comprised of a shallow basin containing the sand filter medium. The filter surface is a layer of soil and a grass cover. Should clogging occur, the filter has a pea gravel "window" which directs runoff into the sand and a cleanout and observation well.

### Purpose

The low cost and simple nature of this structure as well as its applicability to smaller sites makes it an attractive BMP for the right situation. Part of the simple design allows for exfiltration into the underlying soils where permeability is good.



**Pocket Sand Filter  
Plan View**

### Limitations

Impermeable soils require the use of underdrains to allow for adequate exfiltration.

### Materials

Pea gravel, sand, appropriate piping for inflow and dispersion, concrete (suitable for flow spreader), filter fabric, topsoil, grass.

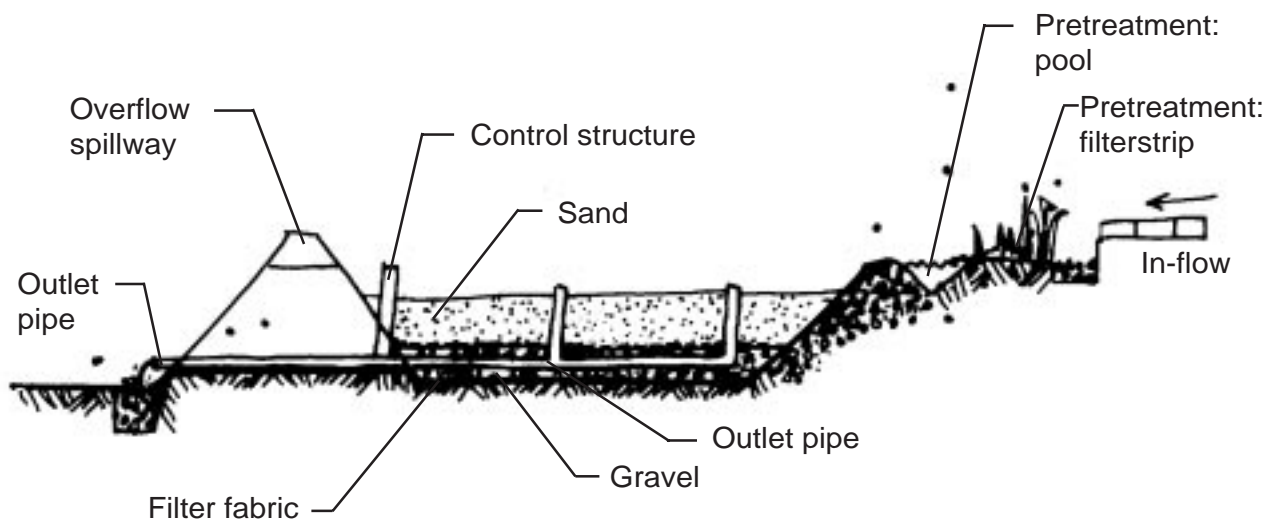
### Installation

Check for adequate soil permeability; ensure that flow spreaders are adequately secured.

**Source:** Design for Stormwater Filtering Systems, Center for Watershed Protection.

## POCKET SAND FILTER

### Additional Drawings:



**Pocket Sand Filter  
Section View**