

# Soakage Trench BMP

Reduce Runoff from Landscape and Hardscape Areas

## Overview

Evacuated trenches filled with coarse stone and wrapped in geotextiles that receive runoff via a pipe and store it in the rock voids until it is able to infiltrate into surrounding soils.

The primary difference between a soakage trench and a vegetated facility is that water is injected underground via a pipe, rather than infiltrating through the soil surface.

## Siting

Runoff from any surface may be directed to a soakage trench, as long as hazardous materials, toxic substances, petroleum products are not used, stored, or handled in the area drained by the soakage trench.

Usually a soakage trench is shallow enough that it is not considered an underground injection control, but your soakage trench may require DEQ approval.

## Cost

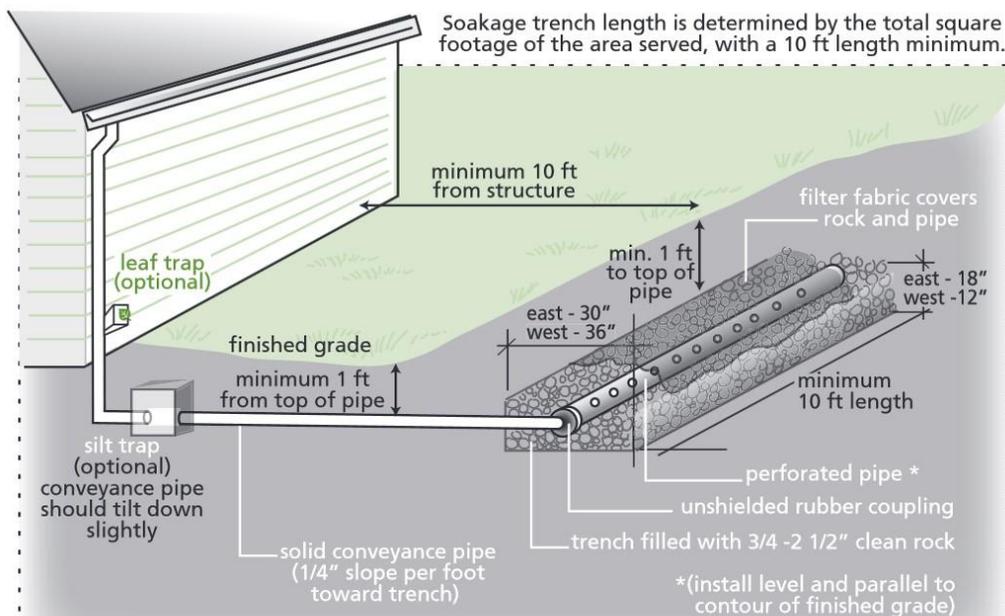
Medium/high cost, but very cost effective, particularly for small spaces.

## Maintenance

Maintain structures like silt basins, confirm proper infiltration, remove debris from pipe, and replace broken parts.



An example of a soakage trench in a multi-family residential project



## Design

There are four types:

- Soakage trench at the surface - Rock all the way to the existing grades
- Soakage Trench Beneath Landscaped Areas – cover of soil or vegetation
- Soakage Trench Beneath Porous Pavement – Additional rock under porous pavement
- Soakage Trench Beneath Impervious surface – must be installed as though it were porous pavement.