

Sub-Surface Infiltration Basins

Benefits of Using Sub-Surface Infiltration Basins

- Recharges groundwater supply
- Reduces speed and amount of stormwater runoff to streams and storm sewer systems
- Lessens flooding and erosion downstream
- Reduces space required for stormwater detention/retention basins
- Moderate cost to install and maintain
- Space above infiltration bed is usable as lawn, landscaped area, courtyard, etc.
- Applicable to all types of sites (residential/commercial/industrial)
- Small tank units are easily adapted to most existing individual home sites
- Decreases export of pollutants such as phosphorus and solids



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For more information, please call
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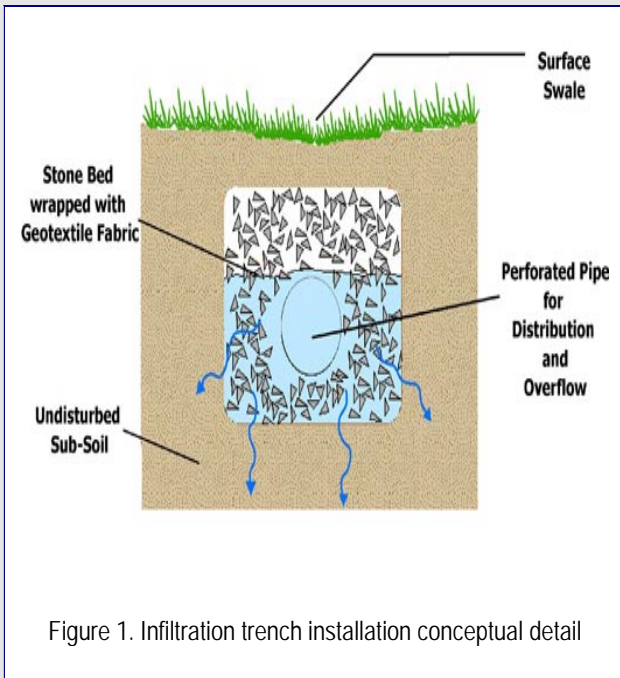
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Sub-Surface Infiltration Basins As Best Management Practice

What is the purpose of an infiltration basin?

Sub-surface infiltration areas reduce the volume of runoff leaving a site by capturing runoff for storage underground. Over a period of time, the stored runoff will seep through the soil to recharge the groundwater supply. (See Figure 1 below.) Infiltration trenches are ideal in tight locations where space is limited.



For more information on storm water runoff, please visit www.co.ramsey.mn.us/pw/stormwater.htm or Ramsey Washington Metro Watershed <http://www.rwmwd.org/>

Project Summary:

A sub-surface infiltration trench was installed in your area in conjunction with the Maryland and White Bear Avenue reconstruction project in 2007.

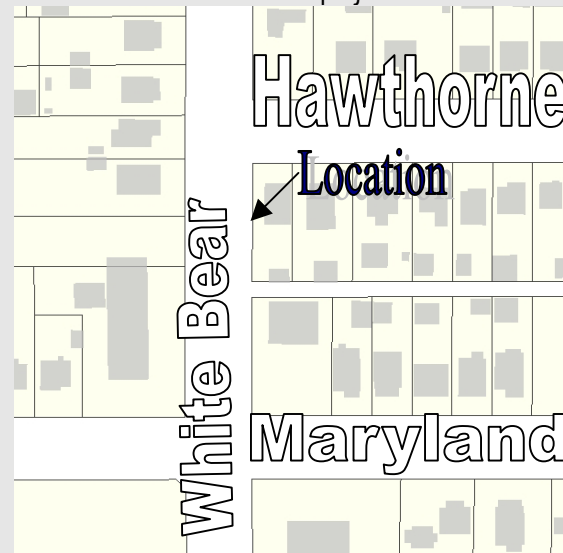


Figure 2. Site location

The infiltration trench is located at the southeast corner of White Bear Avenue and Hawthorne Avenues in St. Paul.

This particular trench basin is composed of a simple plastic pipe tank surrounded by gravel rock and vegetated surface cover. (See Figure 1 at left.) Infiltration rates will vary.

How Can You Help?

Don't dump waste oil—
recycle it properly for disposal.

Pick up after your pets—
bag their waste.

Use lawn chemicals carefully—
follow manufacturer's directions.

Help keep storm drains
clear of debris—
sweep driveways and sidewalks.