



NH Homeowner's Guide

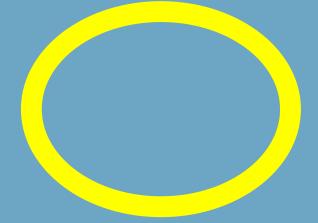
Soak Up the Rain NH

New Hampshire Homeowner's Guide to Stormwater Management

Do-It-Yourself Stormwater Solutions For Your Home nent



"Low Impact Development OR Green Infrastructure OR Stormwater BMPs"





This session:











Site-Scale Stormwater Solutions

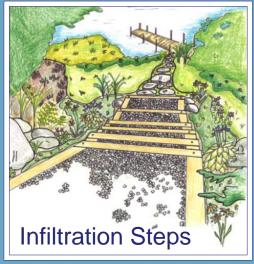
-structural
-good housekeeping



Infiltration Practices







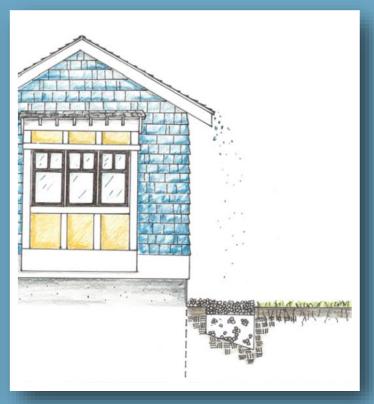






Dripline Infiltration Trench





A stone-filled trench around the perimeter of a building.



Driveway Infiltration Trench



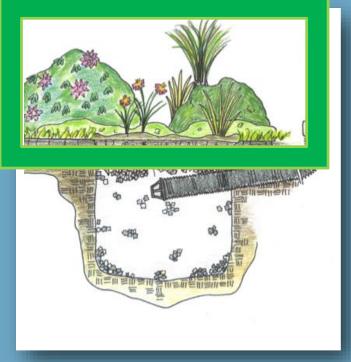




A stone-filled trench along the perimeter of your driveway.



Dry Well





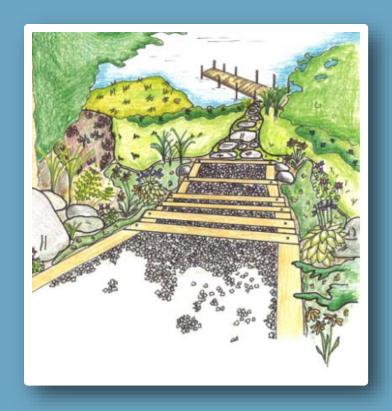
A hole in the ground filled with stone.



Infiltration Steps







Stabilize sloped paths, reduces erosion.



Porous Pavers





Stone reservoirs under pavers.





Rain Garden

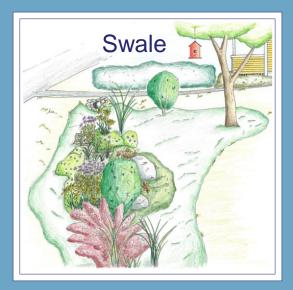


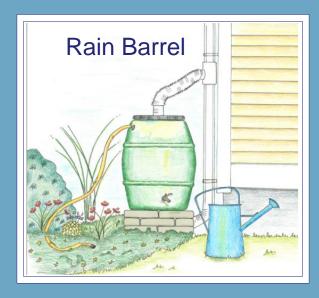
A sunken, flat-bottomed garden

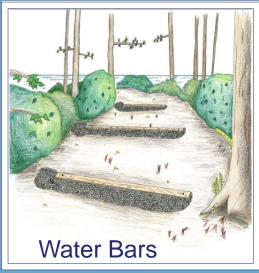


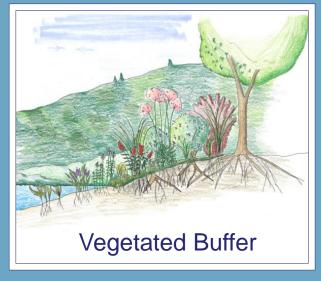


Additional Practices





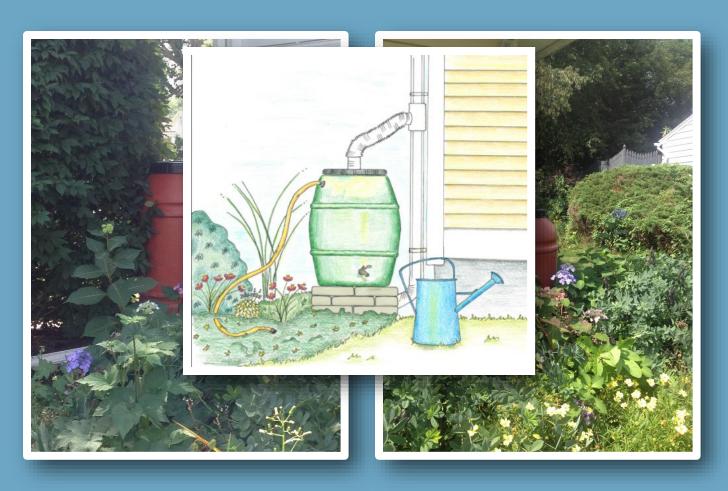






Rain Barrel

A container that captures and stores rainwater from a roof for later use.





Water Bar



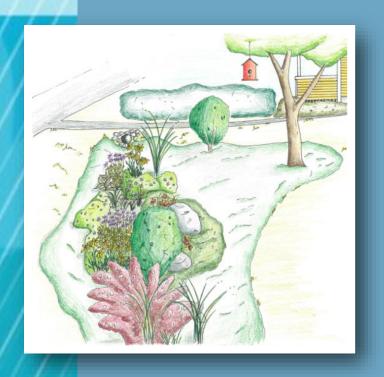
Intercepts and diverts water traveling down paths.







Vegetated Swale





A vegetated channel with or without checkdams.



Vegetated Buffer



A buffer is a vegetated area along a waterbody.



Questions? Comments?



Site Assessment

Impervious Surfaces:

- ✓ Roofs
- ✓ Driveways, Parking Areas
- ✓ Walkways
- ✓ Decks & Patios

Lawn & Landscaped Areas:

✓ Source or Sink?

Undisturbed Areas:

- ✓ Natural buffers
- ✓ Wooded Areas

Surrounding Areas

✓ What's it doing?





Site Assessment

Follow the Flow

- 1. Where does it come from?
- 2. Where does it end up?
- 3. Does it cause any problems along the way?

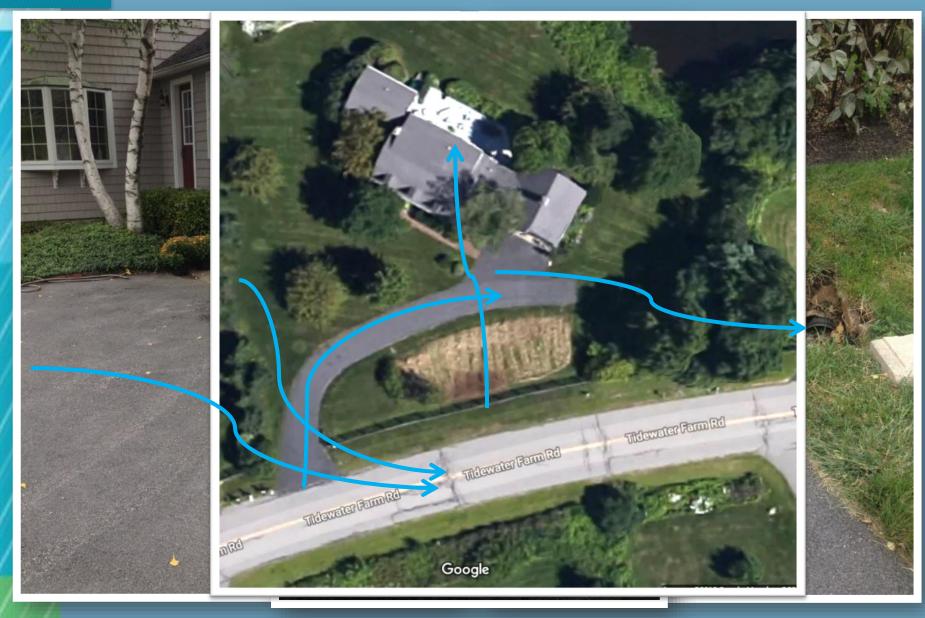


Site Assessment – Follow the Flow





Site Assessment – Follow the Flow





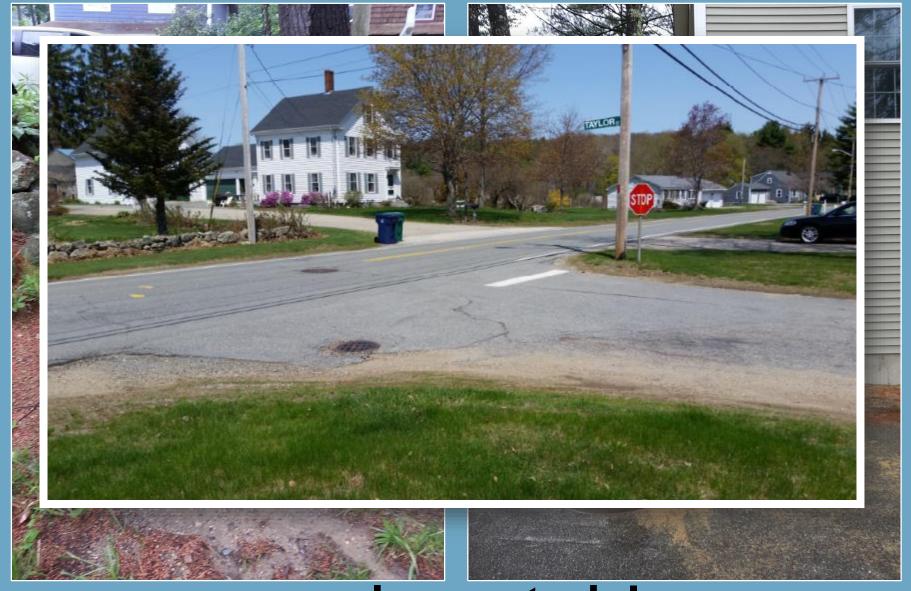
Site Assessment – Follow the Flow



Site Assessment - Problems



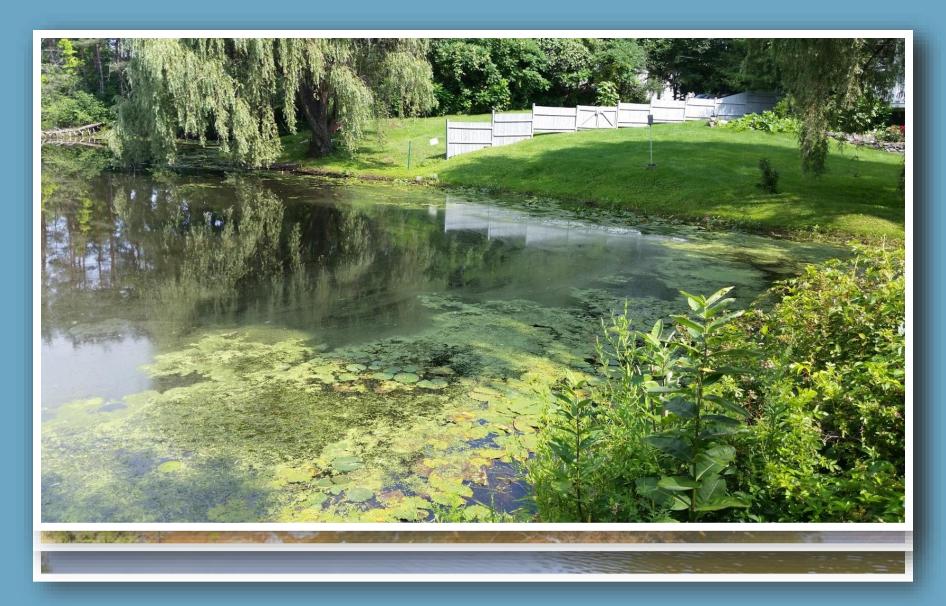
Site Assessment - Problems



moving material

Site Assessment - Problems

Signs of fertilizer reaching lake





Site Assessment – Soil Tests

Soil Infiltration Test

1. Dig a hole 12" deep.



2. Fill it with water. Let drain. Fill again.



3. Note water level & time.



Ideally want the hole to drain in 24 hours (or at least 0.5"/hr)



Site Assessment – Soil Tests

Soil Ribbon Test



Soil Type	Ribbon Length (inches)
sand	soil does not form a ribbon at all
silt	a weak ribbon <1.5" is formed before breaking
clay	a ribbon >1.5" is formed



Site Assessment - Soggy Test

Is it:

Spans?, then say "no" to Spanish practices Spongy?









Questions? Comments?



Project Considerations

- 1. Will the soils soak up the rain?
- 2. Are there special site constraints?
- 3. Will it "fit" the location
- 4. What does the property owner want?



Will the soils soak up the rain?

#1 Rule: Do the infiltration test!

Why do I have a puddle in my yard days after the rain has stopped? Will a rain garden help?







Site Constraints

Property setbacks and Right-of-Way.

Underground utilities.

Water well, septic tank, leach field

Roots and rocks
Steep slopes (<129
Sun/shade
High water table





Will the practice "fit"?





What does the homeowner want?

Preferences & Concerns





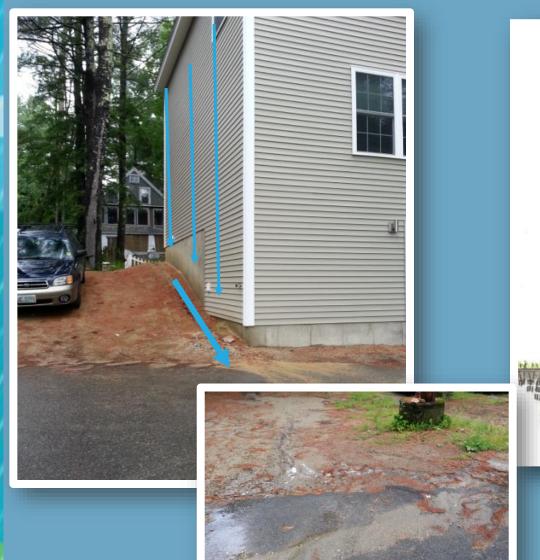


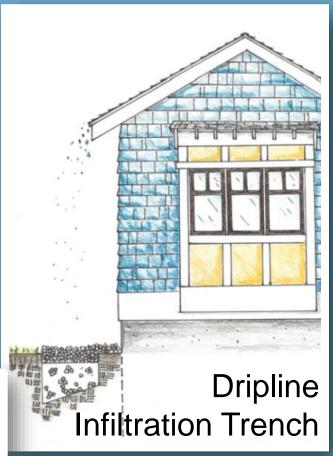
























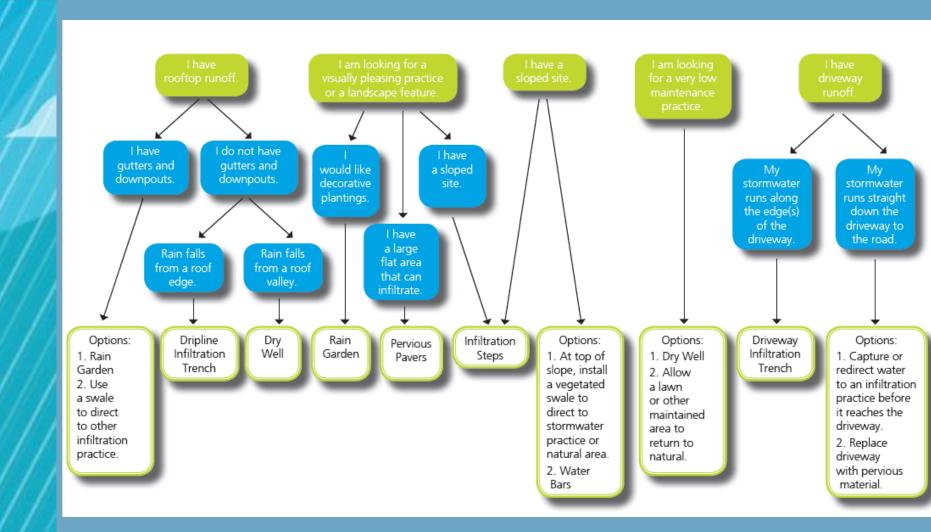








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Re Field Packet

This Field Packet contains the information needed to complete a screening and design assessment for Repotential SOAK projects including:

Pla

- 1. Instructions
- 2. Site Screening Field Sheet
 - 3. Design Field Sheet

Stori

Instructions

infilt Review these instructions before conducting SOAK field assessments.

Stora

with

with SITE SCREENING FIELD SHEET

 $\underline{\sf NHR}$ Purpose: Complete the Site Screening field sheet foots to determine if a property has potential for a poll SOAK project.

RECORDING TABLE

Use the Recording Table to track multiple stormwater issues on the site and information associated with each area as you work through the field packet.

COMMON STORMWATER PROBLEMS

- Flooding and/or persistent wet areas
- · Water in basement
- Erosion bare soil, exposed rocks, rill/gully formation along path of stormwater flow
- Large amount of stormwater runoff to drainage system or waterbody
- Known or suspected pollutants running off of property - fertilizer or lawn chemicals are applied or pet waste seen at the property



Questions? Comments?



Site Assessment this Afternoon



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