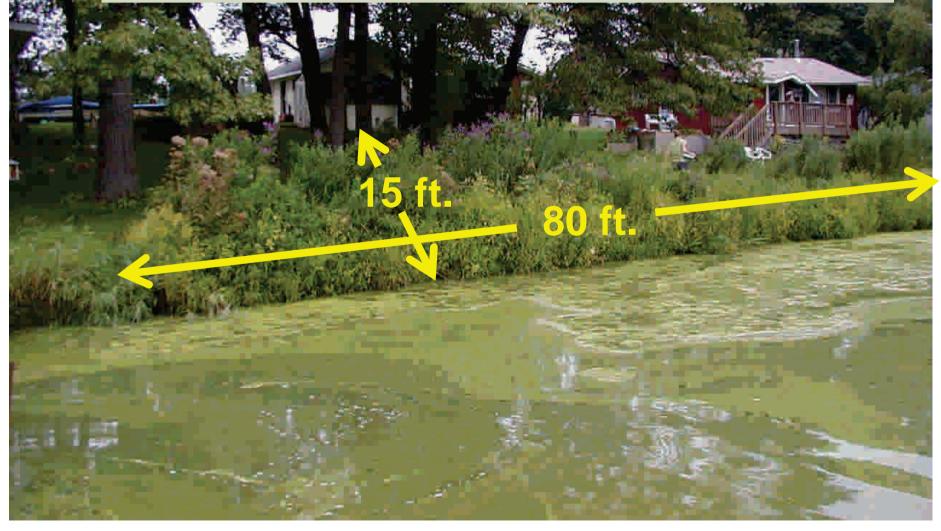
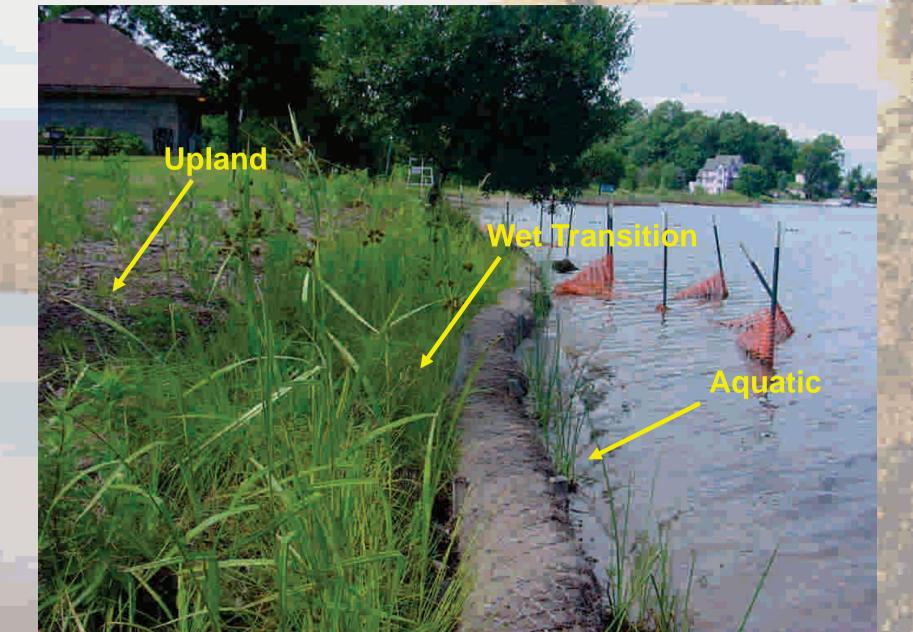
Buffer Size? Recommended size -But what fits?



PLANT SELECTION



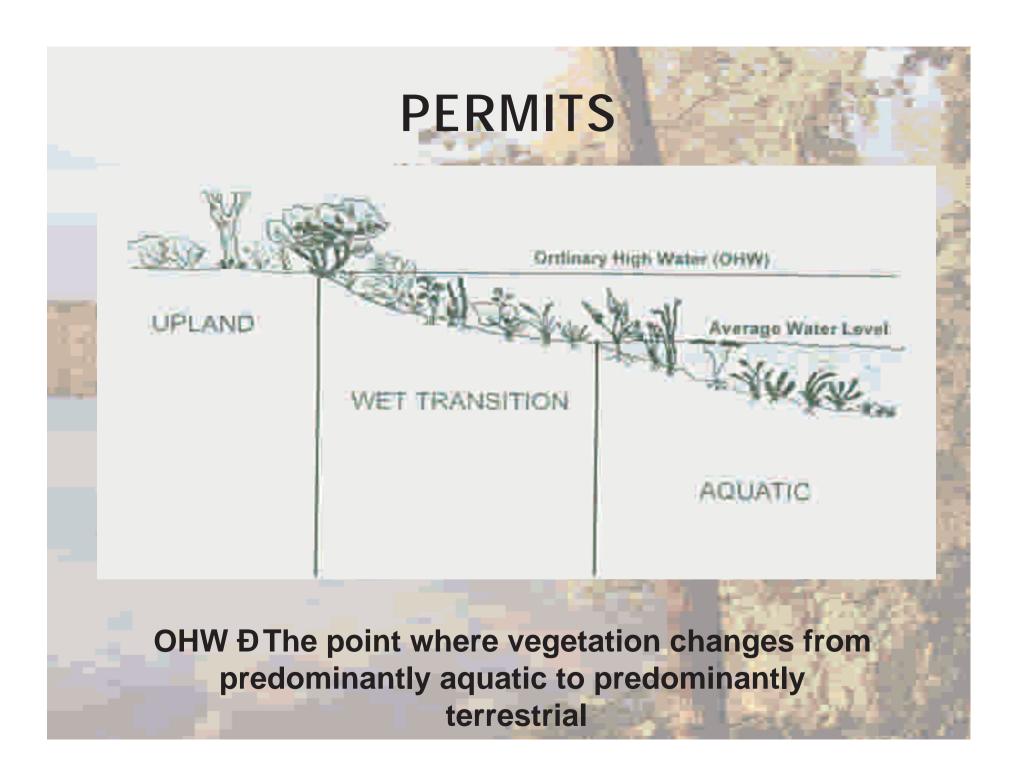
PLANT SELECTION

! A 50/50 mix of grasses/sedges and wildflowers
! Inventory the Lakeshore D what native plants are there?
! Woody plants should be considered





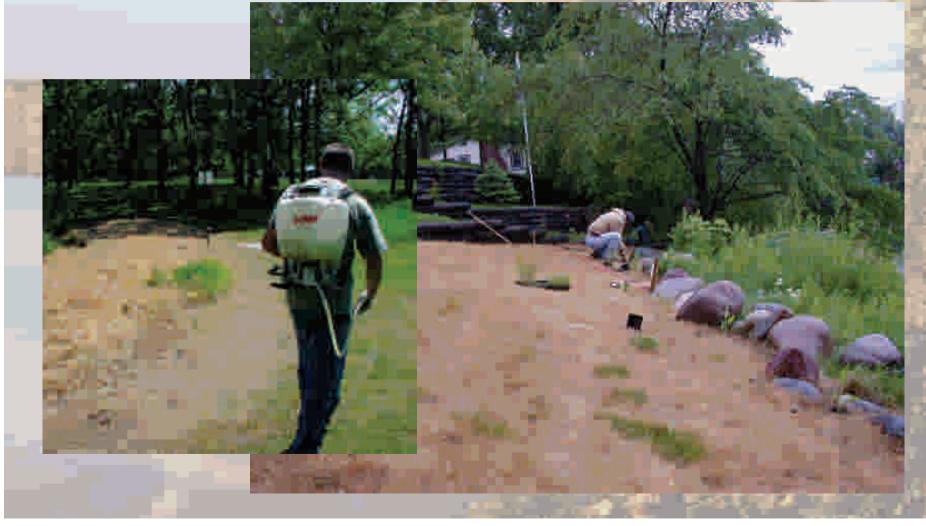


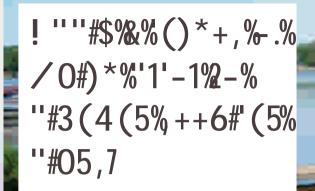


Site Preparation

Eliminate turf grass and non-native vegetation

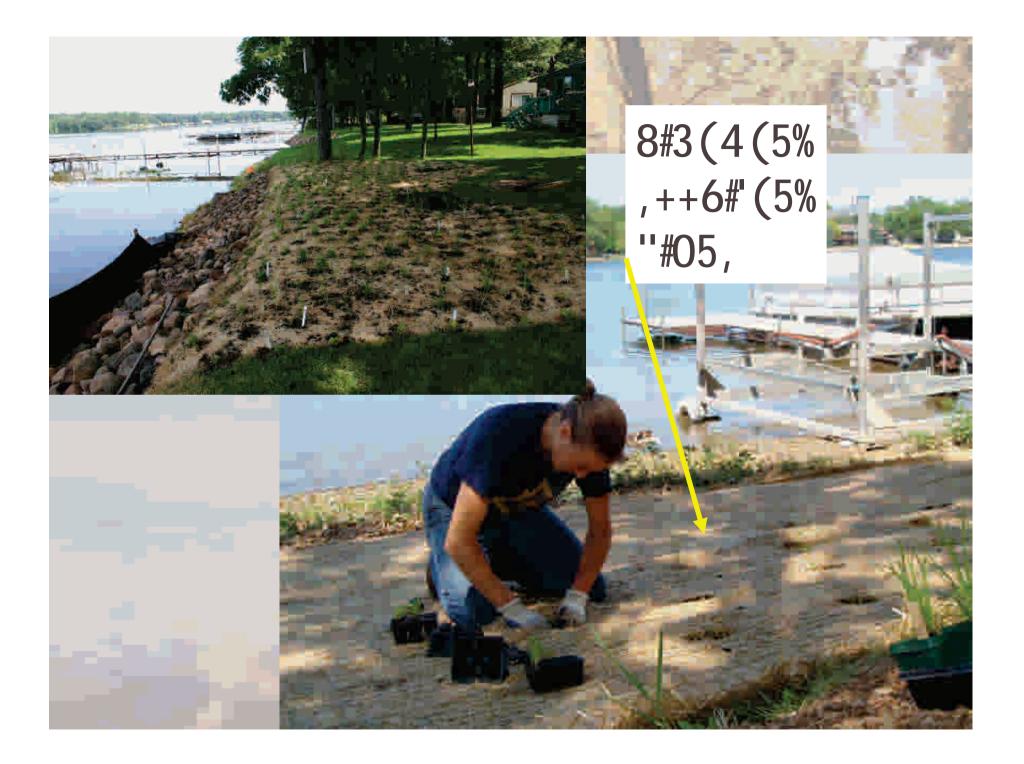
Glyphosate herbicide ĐRodeo required close to water





STAKE EROSION BLANKET OVER MULCH IN FLOOD PRONE SHORELAND





OR STOP MOWING AND SEE WHAT COMES IN



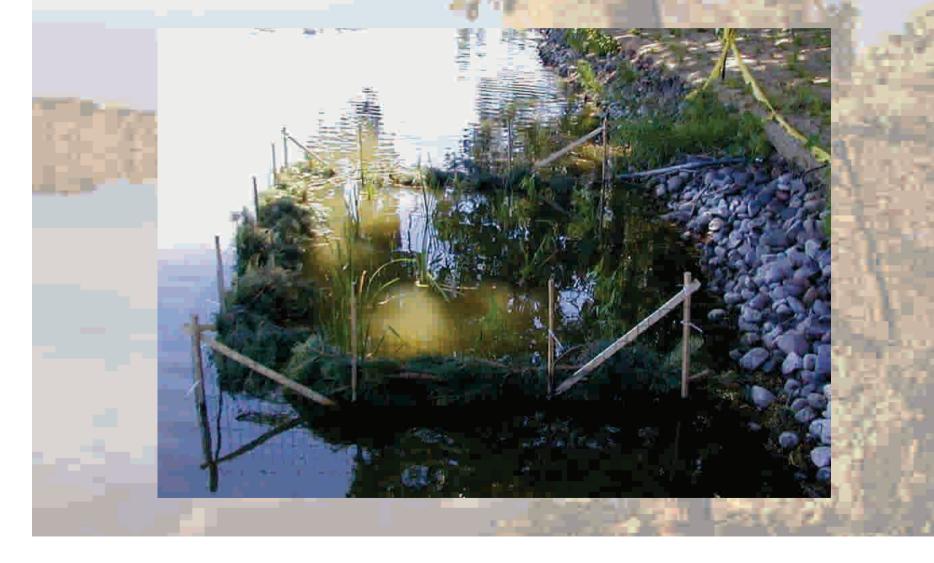
A FEW THINGS I KNOW

IN DAL

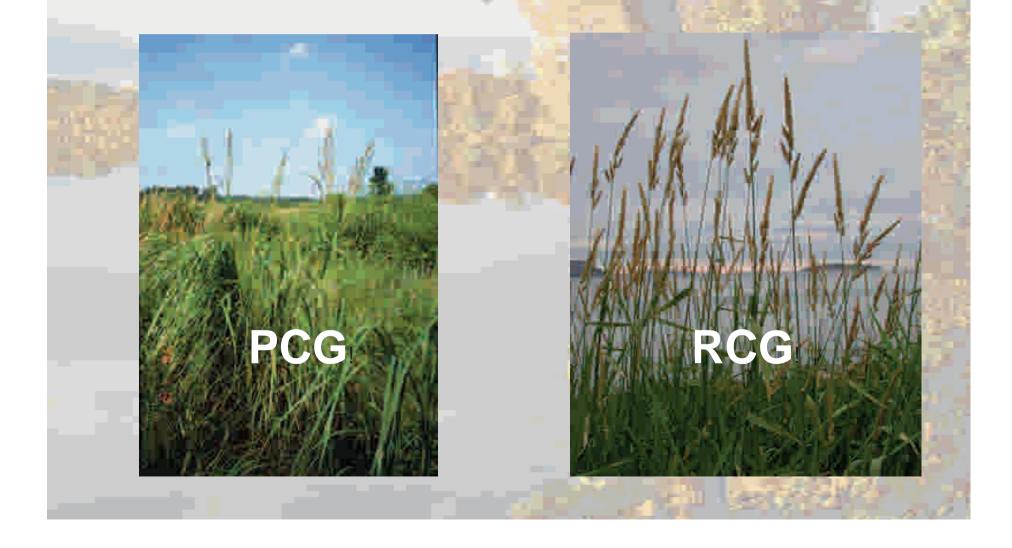




SO WILL MUSKRATS



Prairie Cord Grass vs. Reed Canary Grass





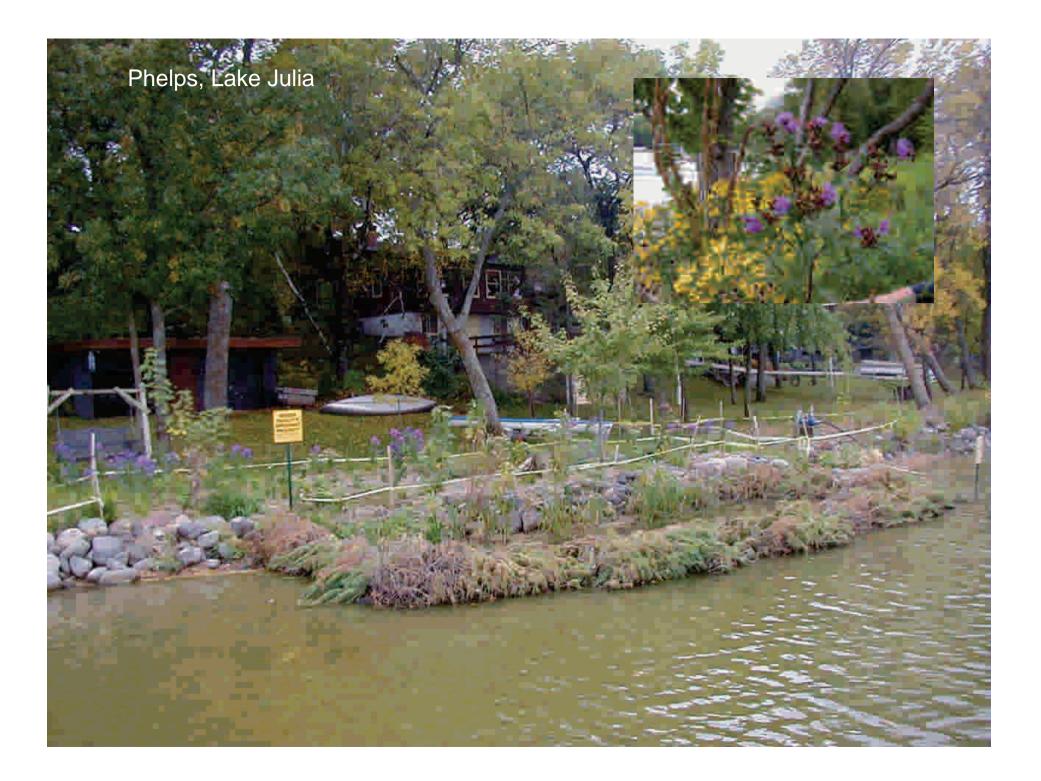
Brick Edging

ÒBulletÓEdging

Trench-Master (Edging Trencher)

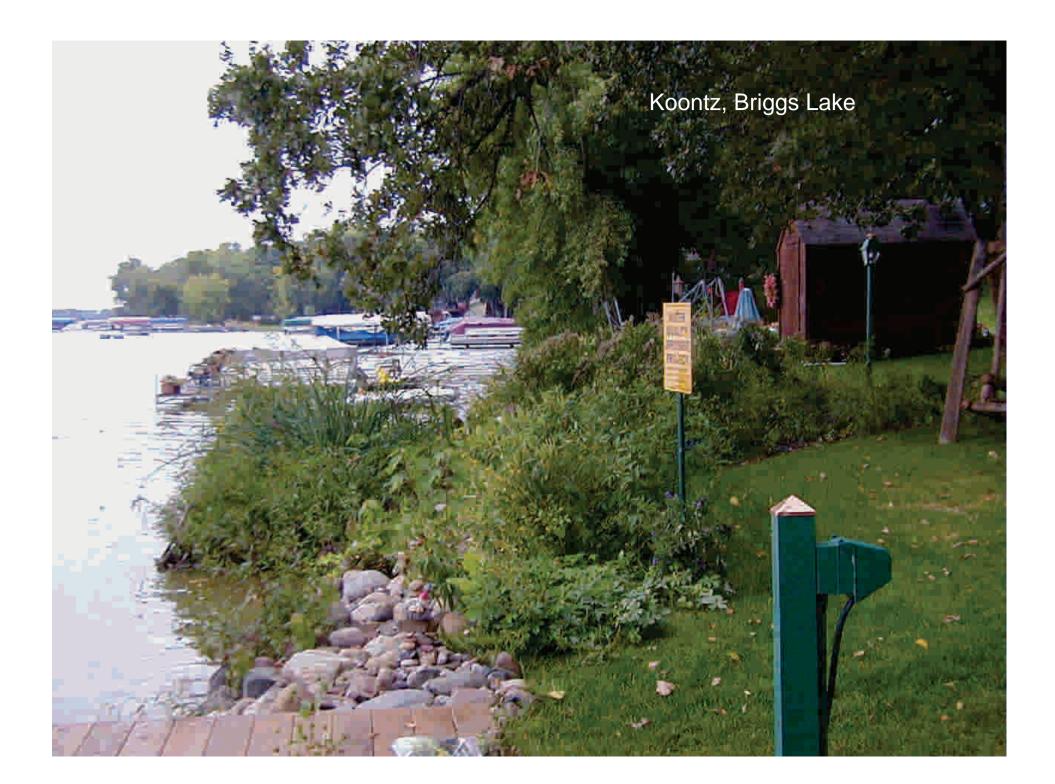
Designed & Installed by: Natural Shore Technologies

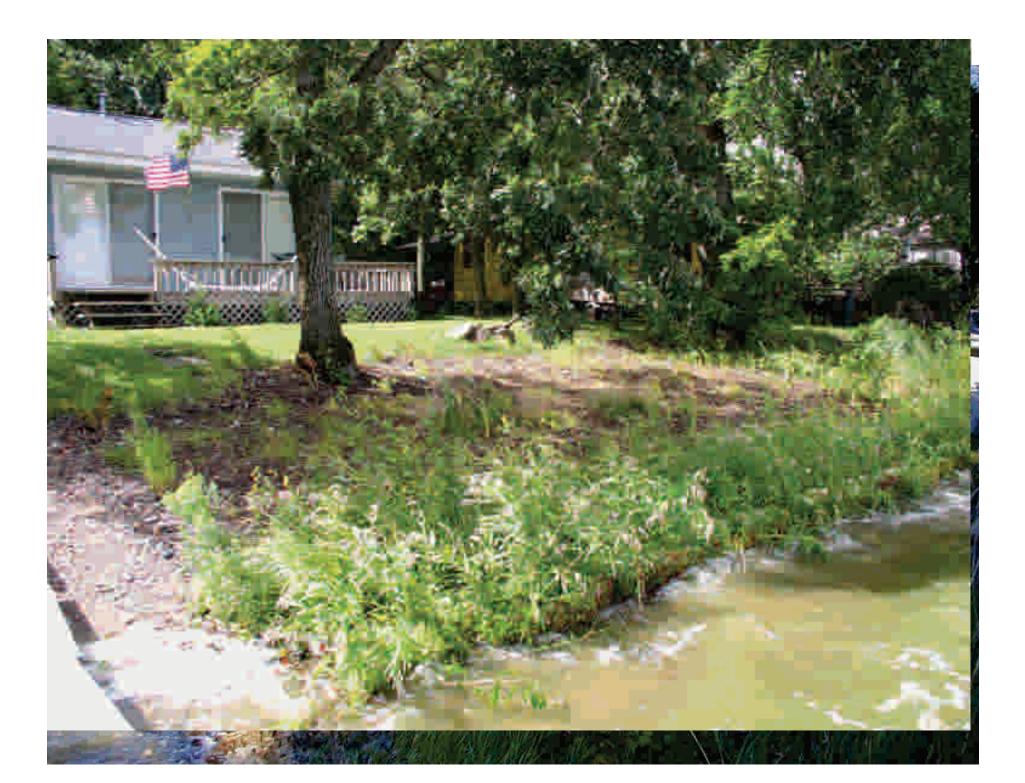


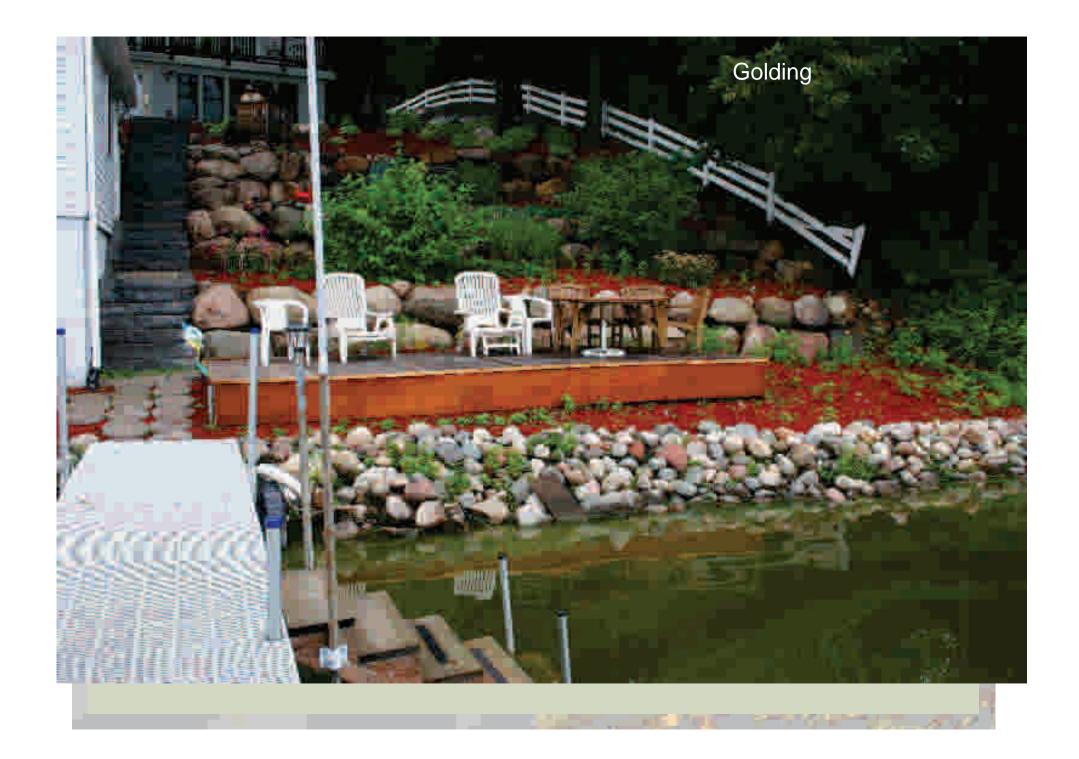








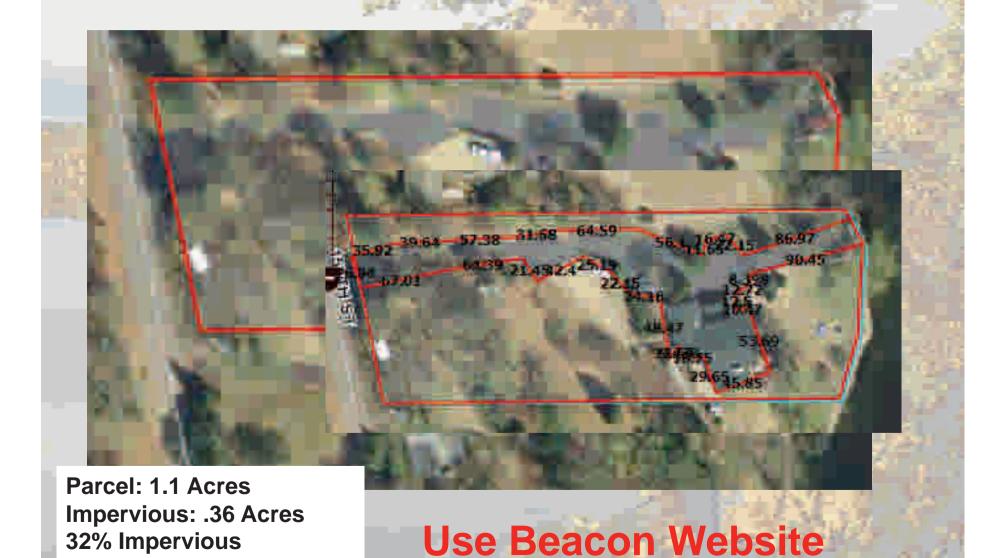








MINIMIZE IMPERVIOUS SURFACE



PERVIOUS PAVERS/ASPHALT



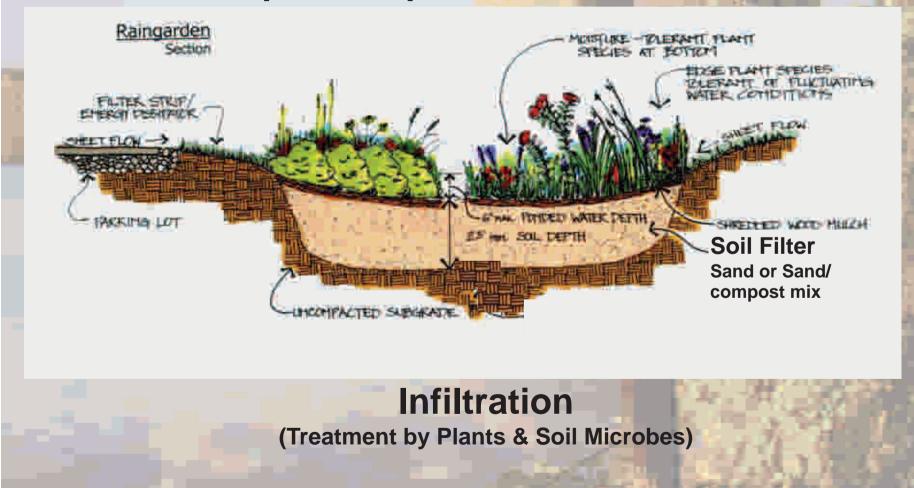
RAIN GARDENS

Natural Landscape Features
Captures runoff from impervious surfaces

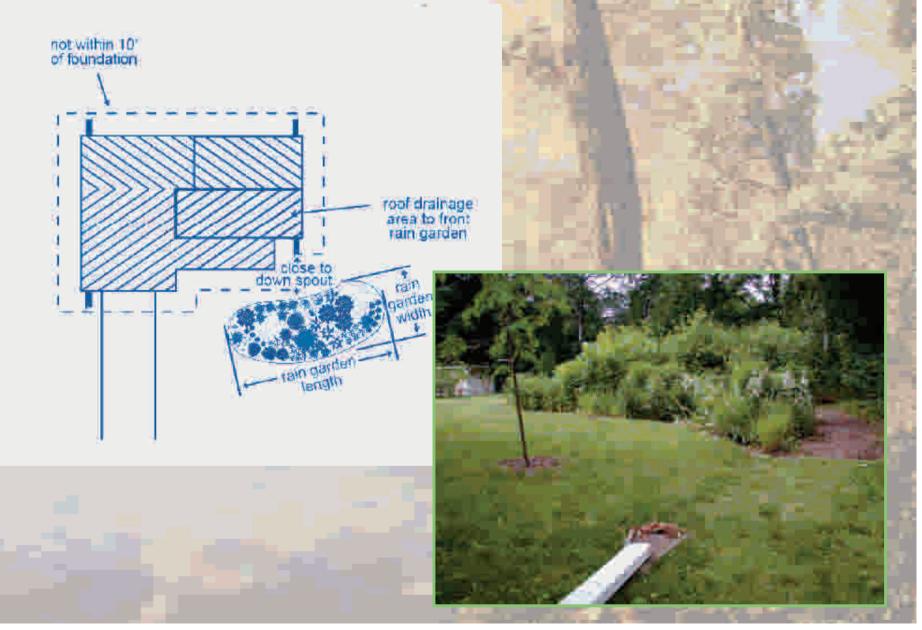
Protects and preserves nearby lakes, streams and wetlands

Rain garden - Runoff Treatment

Evapo-transpiration (Treatment by Plants)

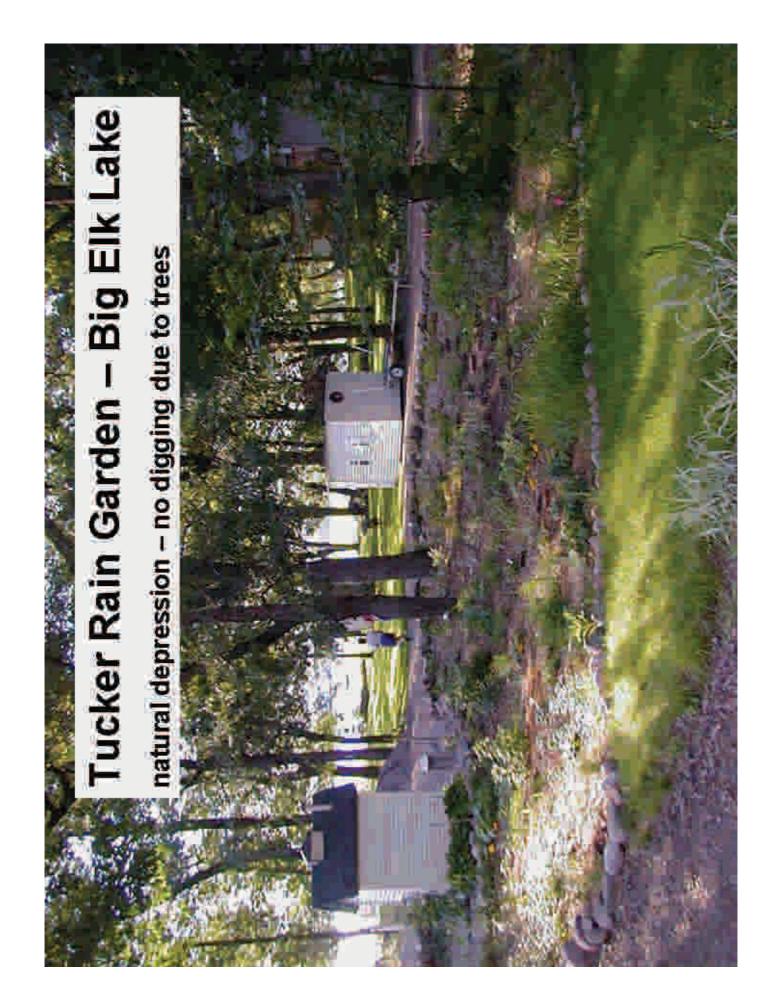


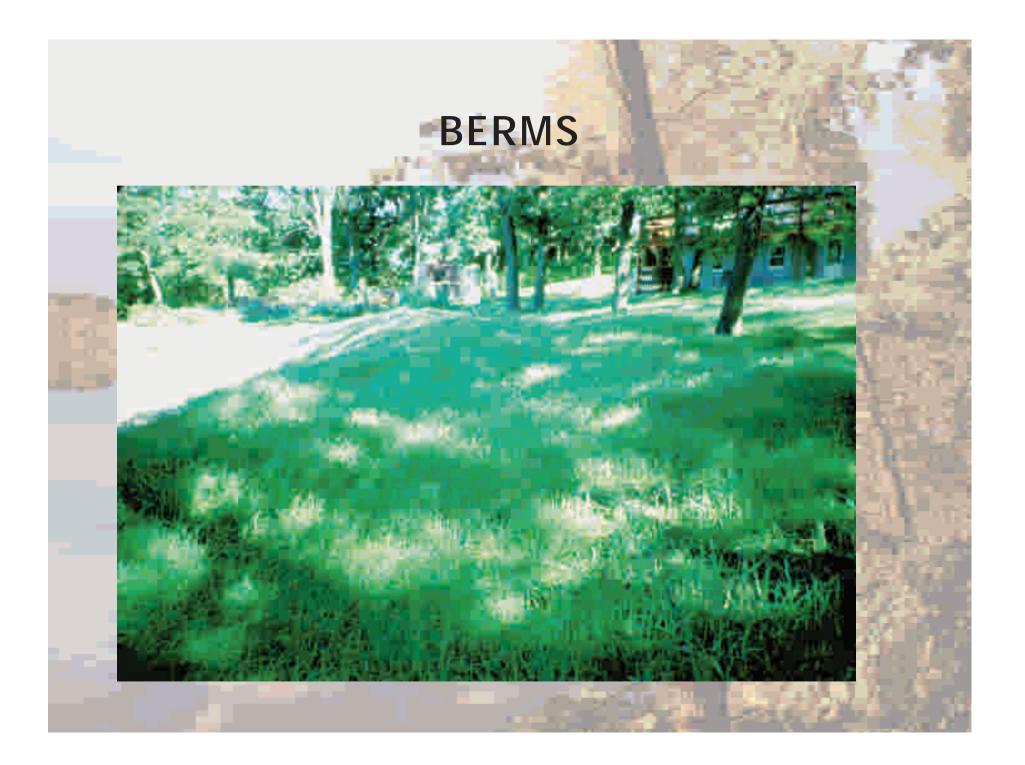
Rain Garden Guidelines

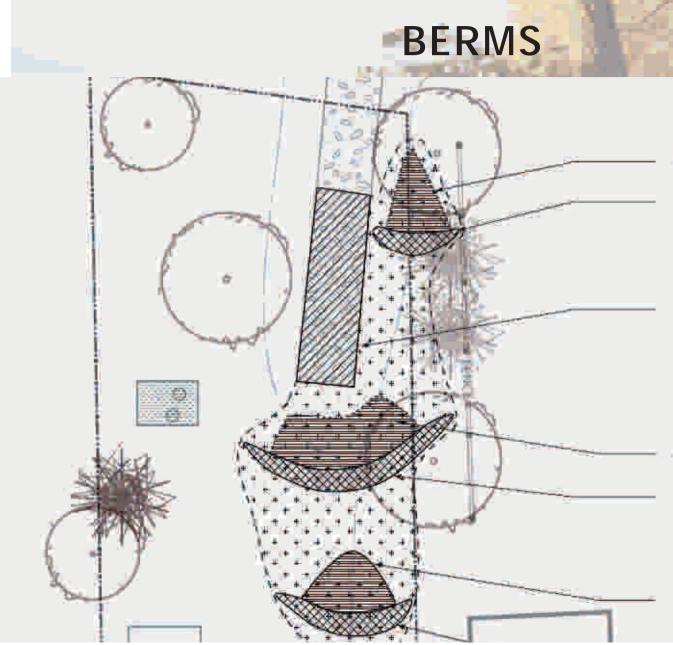


Filtering sediment - flow over turf









TEMPORARY PONDING AREA 1

GRASS BERM 1 LENGTH = 11' MAX WIDTH = 3' MAX HEIGHT = 8" TBEILM OVERFLOW LOCATION SHOWN IN GRAY)

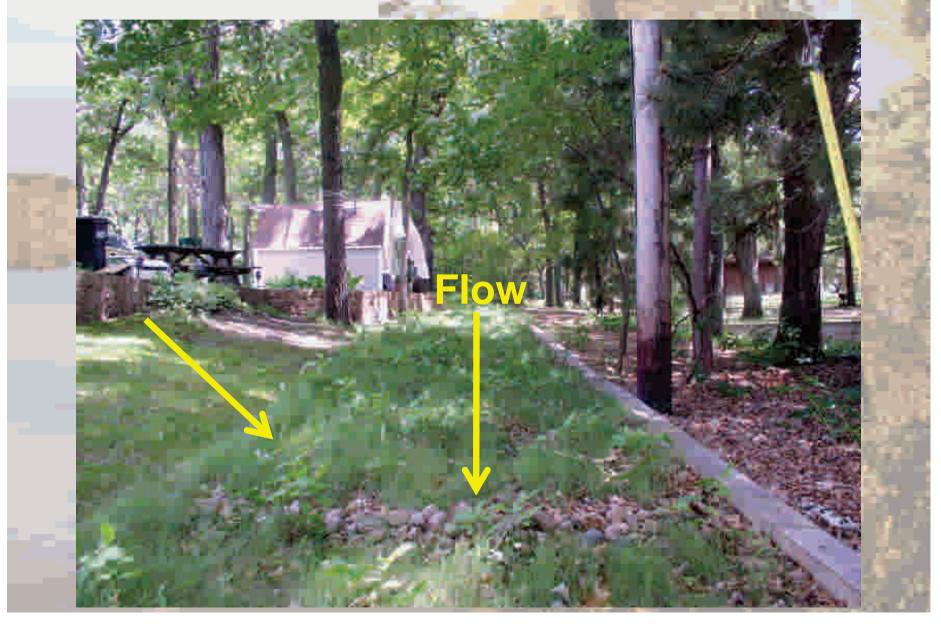
ADDITIONAL GRAVEL TO EXISTING ENTRANCE DRIVE AUD APPROXIMATELY 4" OF GRAVEL (COMPACTED) TO PORTION OF DRIVEWAY (HATCHED AREA) SO RUNGFF WILL TRAVEL AROUND DRIVEWAY INSTEAD OF ERODING THE SOUTH EDGE OF THE DRIVE

TEMPORARY PONDING AREA 2

GRASS BERM 2. LENGTH = 30 MAX WIDTH = 3' MAX HEIGHT = 8" IBEIIM OVERELOW LOCATION SHOWN IN GRAY)

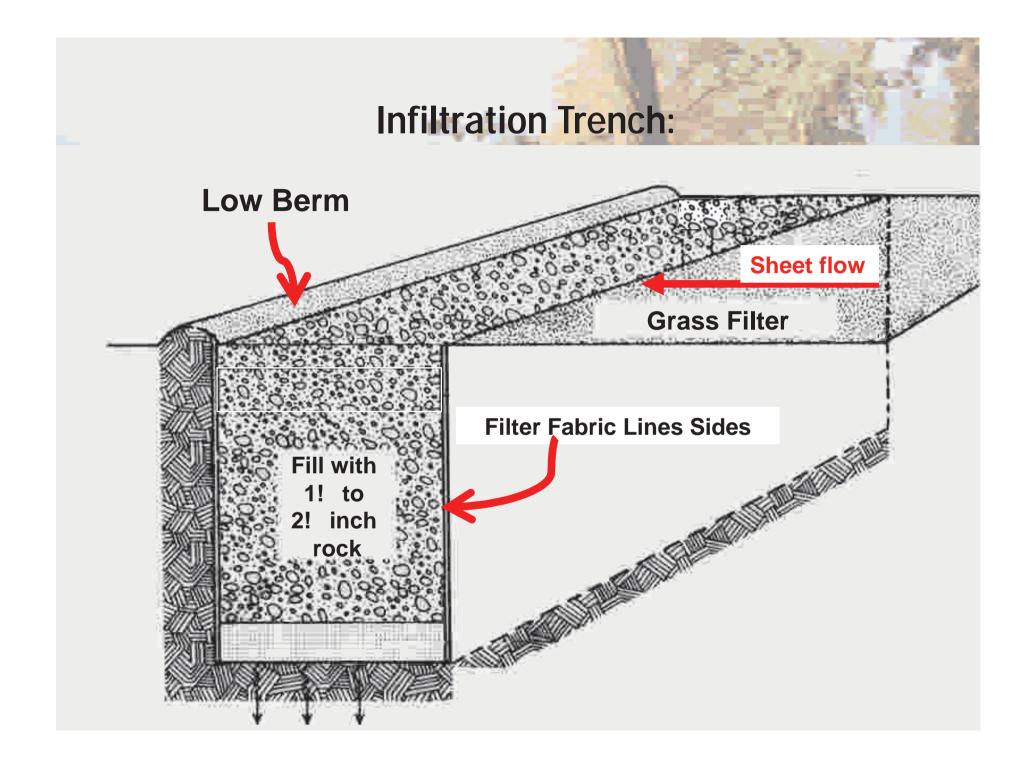
TEMPORARY PONDING AREA 3

VEGETATED WATERWAY



Filter Strip

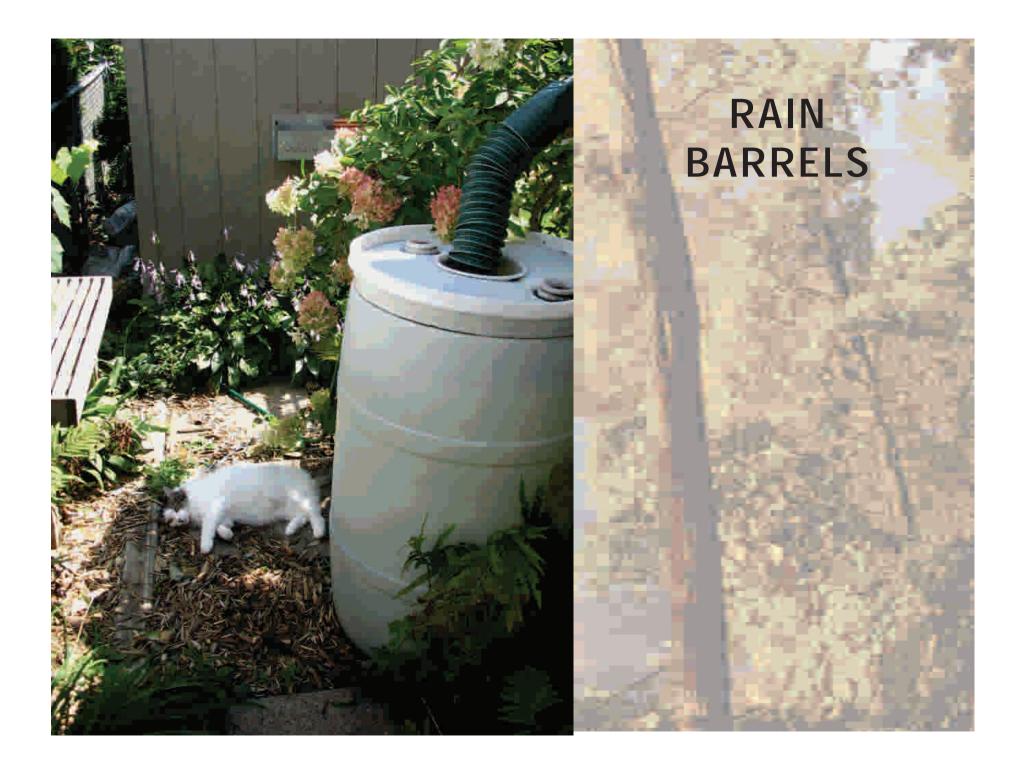




Cistern Example



Plastic Drum – Bottom removed !Perforated sides !Rock filled



SEPTIC SYSTEM MAINTENANCE/UPGRADE





Owner's Guide

Contraction of the local division of the loc





LOW IMPACT BOATING

- !!Keep your boat properly trimmed- an engine in the water makes much less noise and creates less wake.
- !!Keep your engine well-tuned, it will run more efficiently, pollute less and be quieter.
- ITry an electric motor- it is almost silent and virtually pollutionfree.
- !!Observe state regulations and be aware of individual, lake specific restrictions
- !!What0s the hurry? Boating slowly makes less wake, less noise, reduces pollution and is less disruptive to wildlife and other people-plus you0ll see more and enjoy the lake longer.
- !!When using a motor, stay out of shallow areas where a churned bottom can adversely affect water quality and disrupt vegetation and fish spawning groundsÉ..

U of M Extension: Shoreland Education http://www.extension.umn.edu/Shoreland/ factsheets.html (Lake Home and Cabin Kit) Tips & Ideas on developing your property /ww.lakesuperiorstreams.org Minnesota Shoreland Management Resource Guide www.shorelandmanagem **Restore Your Shore** ww.dnr.state.mn.us/



Cost Share Available!!!!

Cost share funds can be used by public or private landowners within Sherburne County to implement projects that assist in one or all of the following:

Protect or restore quality of lakes and rivers
Innovative approaches to treat stormwater at the source

Funding:

75% match of eligible expenses with a maximum level of \$1,000 per project. In-kind labor done by the home owner can be sued for 25% match at a rate of \$15.00 per hour.



Eligible Expenses:

Raingardens Shoreline restoration Native buffers Innovative Stormwater BMPs

Contact Information

¥ Sherburne Soil and Water Conservation District ¥14855 Hwy 10 ¥ Elk River, MN 55330 ¥763-241-1170 ext. 3 ¥tdeterman@sherburneswcd.org ¥www.sherburneswcd.org

IF YOU THINK YOU'RE TOO SMALL TO BE EFFECTIVE, YOU HAVE NEVER BEEN IN BED WITH A MOSQUITO.

- Betty Reese

Keeping Our Shores: Shoreland Best Management Practices

1000

http://www.extension.umn.edu/distribution/naturalresources/components/ 08307a.html#1