Shoreland Restoration Techniques, Bio-engineered Projects & Monitoring

2015
Wisconsin Lakes Partnership Convention

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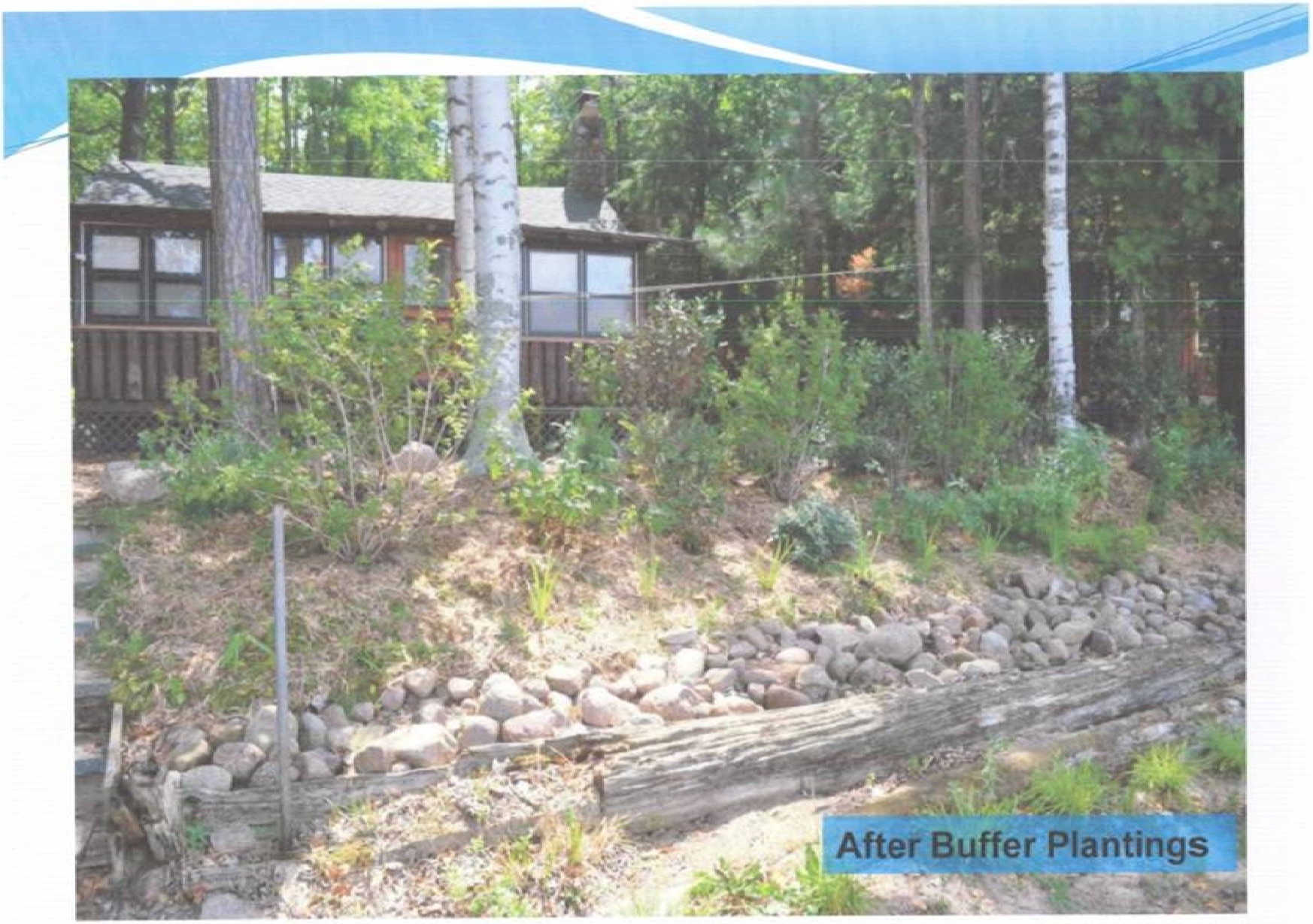
Project Examples
Before / After

15 foot Building Envelope Around Home
Before Buffer Plantings


After Buffer Plantings

AMNICON LAKE

BEFORE
Seawall Re
Rock Riprap
AFTER

BEFORE

AFTER

09/06/2012

09/06/2012

09/06/2012

JUN 19 2009
APR 25 2008

NOV 2 200

Before – Oct 2009

After - Oct 2012

After 5 months of growth (May 2010 to Oct 2010)

Vegetated Retaining Walls - Geotextile Bags (Install)

Vegetated Retaining Walls - Geotextile Bags (After)

One growing season later – Summer 2012

(left side of stairs)

- Native plants are growing successfully

- Bags are camouflaged and will break down in time (biodegradable)

June 2010 Before

June 2011

June 2012
06/27/2012 13:44

After After

After After

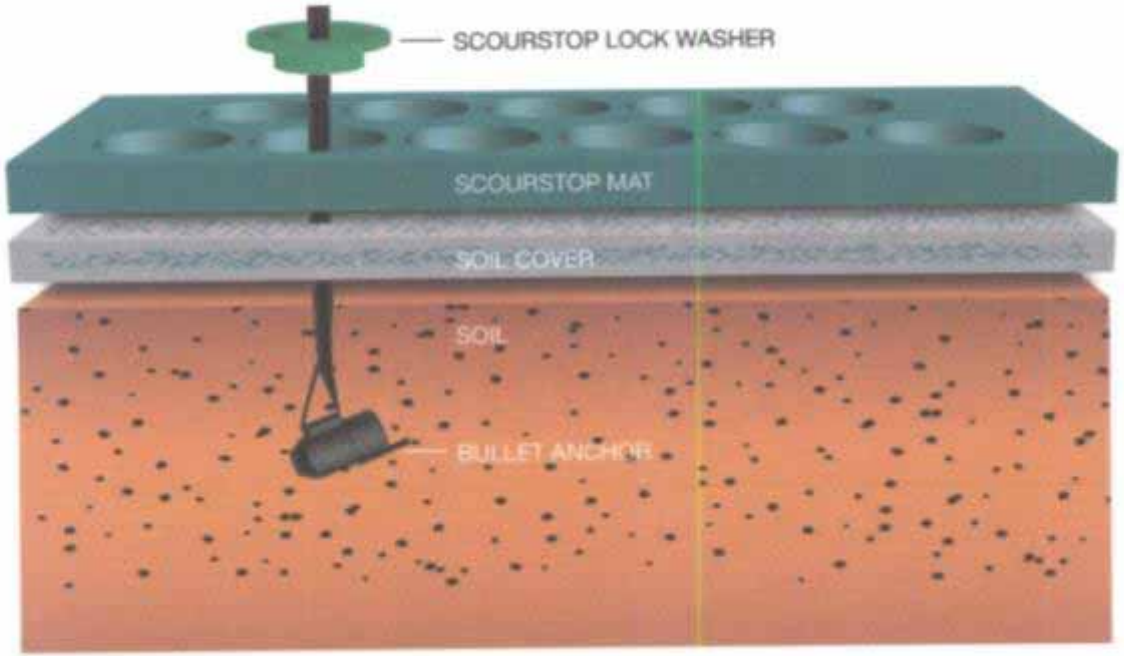
ShoreMax Product

After After

Scourstop™

Literature ▼

culvert outlets



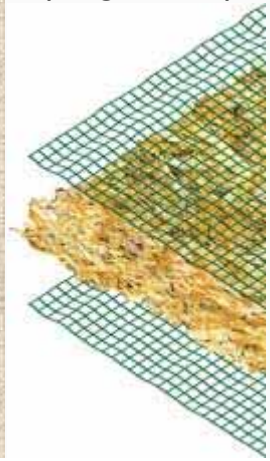
Flexamat is a "Tied Concrete Block Mat".

(Tied Concrete Block Mat is a generic term for Flexamat.)

Flexamat consists of concrete shapes, locked together with a high strength, polypropylene geogrid. There are openings around each concrete block that give Flexamat the flexibility and enable it to be packaged in rolls. The openings also allow vegetation to grow through the mat. Eventually, vegetation will completely cover Flexamat. It can be manufactured with various backings such as non-woven fabric to stop vegetation growth or a TRM (turf re-enforcement mat) depending on the soil conditions and other factors.

There's a wide range of applications where Flexamat is utilized, but it is most commonly used for erosion control. Flexamat is used to control erosion in channels, outlet protection, on slopes, for shoreline protection and many other applications.

Flexamat offers permanent, hard armor protection, with a natural vegetated appearance. Flexamat may be mowed over with commercial mowing equipment or left to grow wild. Besides grass, there are many other types of native plant species that can be planted to grow within the mat. For example, Willow Saplings were planted through Flexamat for a streambank re-vegetation project.



Not Advised!

Questions?

Thank you for your interest in Shoreland Restoration and Bioengineering Techniques!