BARCHENGER PROPERTY

Shoreline Water Quality Buffer & Erosion Control

COMFORT LAKE - WATERSHED DISTRICT - FOREST LAKE

Protecting Your Water Resources

PROJECT SPECS

Date Planted...September 2011

Water Quality Buffer Length…….~90 ft

Buffer Area……...~600 sq ft

Natives Planted…….~310

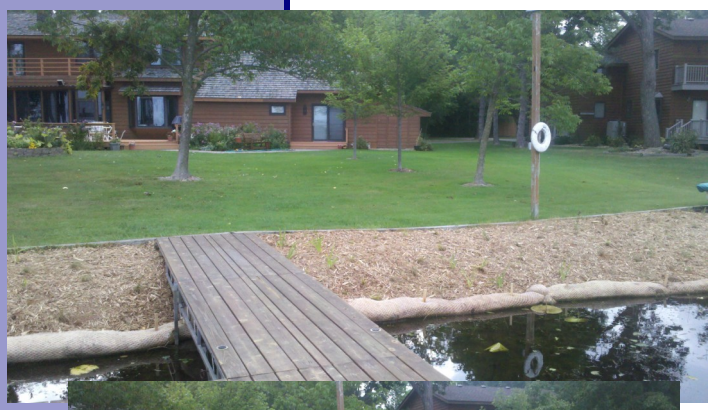
Cost Share Funding 50% of project expenses up to $3,000.00

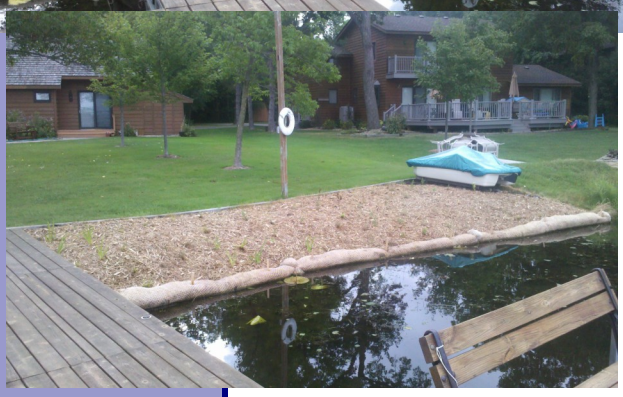
Pre-Restoration Conditions

The Barchenger property lies on the northwestern shore of Forest Lake (Lake 1). The site was dominated by mown turf grass down to the existing shoreline resulting in:

- Direct conveyance of nutrients and pollution from the property was going directly into the lake untreated, contributing to increased algae and unwanted vegetation blooms in the lake.
- Limited near shore plant diversity
- Limited wildlife habitat
- Erosion of the shoreline

Before: April 2011





After: September 2011

After Restoration

Mown turf grass was replaced with a water quality upland buffer planting using a variety of native plants and mulch along lakeshore designed to intercept and treat stormwater runoff from the yard prior to getting into the lake. To control shoreline erosion a system of bio-logs and erosion control fabric was used along with the buffer planting. The project consisted in the establishment of 600 sq. ft. of new buffer, 90 linear feet of shoreline protection.

310 native grasses and flowers were planted. The native plantings and vegetated shoreline protection provide multiple benefits, including;

- Stormwater is slowed and retained increasing infiltration and decreasing input of nutrients and pollutants to Forest Lake
- Plant diversity is dramatically increased.
- Upland wildlife habitat is increased.
- Elimination of eroded sediment getting into the lake.