

Shoreline Stabilization Project

2001 Sauk Lake



Practice :

Shoreline Stabilization

Target Waters :

Sauk Lake

Year Constructed :

2001

Components :

- Cedar Tree Revetments
- Willow/Dogwood Stakes
- Willow/Dogwood Bundles
- Field Stone Riprap
- Erosion Control Blanket
- Planting of Trees, Shrubs, Native Grasses and Wildflowers

Benefits :

- Sediment Reduction
- Habitat Value
- Protect Property
- Water Quality Improvement

Partners :

- Landowner
- West Central TSA
- SRWD
- DNR
- Stearns County ESD

Watershed :

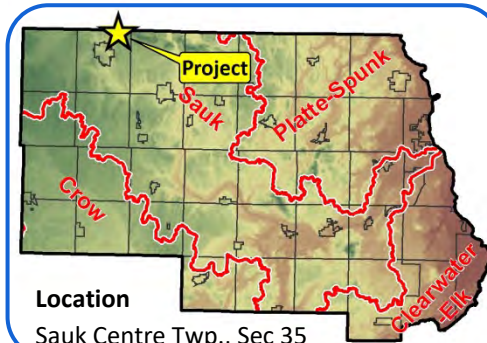
Sauk River Watershed

Project Description: This site is adjacent to the Sauk River, had a severely eroded slope approximately 30 feet in vertical elevation. The slope was re-graded and stabilized with a combination of field stone rock riprap, cedar tree revetments, willow/dogwood stakes, willow/dogwood brush bundles, native grass and wildflower seeding, as well as tree and shrub planting. These bio-engineering techniques were very successful in stabilizing and establishing the slope to a more naturalized state.

Pollution Reduction Estimates:

Phosphorus 37.6 Lbs./Yr.

Sediment 32.71 Tons/Yr.



Location

Sauk Centre Twp., Sec 35

Stearns County Soil and Water Conservation District
110 2nd Street South, Waite Park, MN 56387

Ph.: 320-251-7800 x3
www.stearnscountyswcd.net

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Before Project

"This was one of the first true bio-engineering projects the Stearns County SWCD implemented. What a great success with implementing a natural shoreline approach.

– Greg Berg, SWCD Shoreland Specialist



Project During Construction



Revetments, Blanket and Stakes



Willow/Dogwood Brush Bundle Installation



Project After Construction

Funding:

State Funds*	\$ 6,710
Landowner Investment	\$ 10,762
Other Funds**	\$ 17,473

* Administered by Stearns SWCD – MPCA 319 Funds

** Coordination assistance by Stearns SWCD