

Shoreline Restoration and Bio-retention (Raingardens)

2011 Big Fish Lake



Practice :

Shoreline Restoration & Bio-retention (Raingardens)

Target Waters :

Big Fish Lake

Year Constructed :

2011

Components :

- Native Grass Planting
- Wildflower Planting
- Shrub Planting
- Hardwood Mulch
- Coconut Erosion Control Blanket

Benefits :

- Sediment Reduction
- Nutrient Reduction
- Natural Aesthetics
- Wildlife Habitat

Partners :

- Landowner
- West Central TSA
- Stearns County ESD

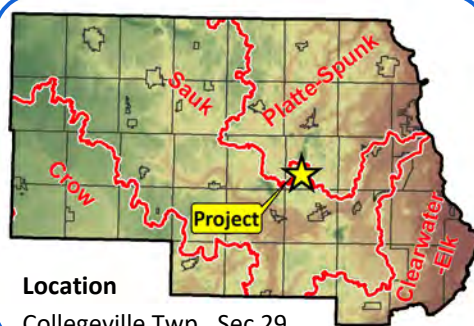
Watershed :

Sauk River Watershed

Project Description: This property on Big Fish Lake has a continuous slope from the road to the lake. Before the project was constructed, a concrete shoot existed to convey most of the water from the road and property directly into the lake. In addition, most of the shoreline had little to no buffer. As part of the project, three separate raingardens were constructed to treat the stormwater runoff from the road and impervious areas on the property. In conjunction with the raingardens being constructed, the landowner took the initiative to restore the entire shoreline on the property except for a small area to allow access to the dock and beach.

Pollution Reduction Estimates:

| | | |
|------------|-------|----------|
| Phosphorus | 0.49 | Lbs./Yr. |
| Nitrogen | 0.47 | Lbs./Yr. |
| Sediment | 23.22 | Lbs./Yr. |



Location

Collegeville Twp., Sec 29

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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Water Conveyance to the Lake

"The landowner had a vision for her property from the start. It was to create a more natural shoreline and treat as much runoff as possible from the property before entering the lake"

– Greg Berg, SWCD Shoreland Specialist



Before Shoreline Restoration



Raingarden During Construction



After Shoreline Restoration



Raingarden After Planting

Funding:

| | | |
|----------------------|----|-------|
| State Funds* | \$ | 9,416 |
| Landowner Investment | \$ | 3,138 |

* Administered by Stearns SWCD
BWSR Clean Water Fund and Native Buffer Cost Share