

# Spectacle Lake Raingarden

## Near Shore Stormwater Project



### Project Summary

This project is located at the Spectacle Lake public swimming beach on property owned by Wyanett Township. The project includes a two tiered raingarden with a pre-treatment chamber. The goal of the project is to protect the health of Spectacle Lake by capturing and filtering rainwater runoff from Cobalt Circle before it reaches the lake.

This project was completed as part of a \$93,532 Clean Water Fund Grant. The grant goal was to protecting the health of Spectacle Lake, the “Gem” of Isanti County. The lake was identified by the DNR as “likely to see declines in water quality trends” as development and redevelopment occurs.

Wyanett Township is among several partners on Spectacle that have dedicated resources towards protecting lake health.

### Project Details

Target Water: Spectacle Lake

Date installed: June 2021

### Project Partners

Isanti SWCD

Wyanett Township

Spectacle Lake Association

### Project Funding

Clean Water Fund: \$18,436

Wyanett Township: \$6,000

Total Project Cost: \$24,436

### Pollution Reduction

Phosphorus: 11.36 pounds/yr

Sediment: 13.7 tons/yr

30-yr Average Cost/lb-TP: \$770

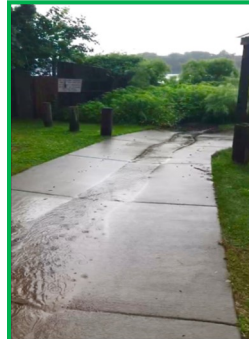
### Project Size

Basins: 450 sqft

### Before Installation-2020



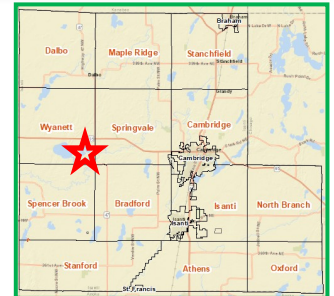
Direct path for runoff into lake.



Rain runoff into the lake.



Cobalt Circle draining towards the lake.



### After Installation - 2021



Rock inlet and overflow to slow water.



450 square-foot rain garden installed June 2021



Sediment captured in pre-treatment chamber after first 1” rain event.

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