

# Blue Lake- Paulson Stormwater and Lakeshore Buffer- Phase I

After attending a Lake Health and Lakeshore Buffer Workshop, hosted by the Blue Lake Improvement District and Isanti SWCD, the Paulson's became interested in doing their part to help protect the health of Blue Lake.

The majority of the Paulson's property is sloped towards Blue Lake. Originally, rainwater runoff from the driveway, house, sidewalks and all other hard surfaces drained directly to the lake without any treatment to remove potential lake pollutants. Additionally, there was no habitat for pollinators and other critters that like to live near the waters edge.

Due to size and cost, their project was split into two phases. This phase consisted of the installation of a rain garden (400 sq ft) to capture rainwater runoff from the driveway and garage and a lakeshore buffer (650 square feet) planted with native plants. The lakeshore buffer is bordered by an iron-enhanced sand filter. The filter was designed to remove phosphorus from the rainwater runoff before it enters the lake. The filter is the first of it's kind in this area and was designed for Isanti SWCD by Washington SWCD engineers.

## Project Details

Target Water: Blue Lake  
Date Installed: Fall 2018

## Project Partners

Isanti SWCD  
Homeowner  
Washington SWCD (design)

## Project Funding

State Cost Share: \$2,160  
Landowner: \$1,920  
Total Project Cost: 4,080

## Pollution Reduction

Phosphorus: .7 pounds/yr  
Sediment: 35.5 pounds/yr  
Other:



## Before Installation-2017



## After Installation-2018



**Rain Garden**



**Iron-Enhanced Shoreline Buffer**

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