

# NELSON COURT SHORELINE

## SHORELINE STABILIZATION & PERVIOUS PAVEMENT



On the tiny strip of land that separates Pioneer and North Center Lakes, there was an eroding shoreline that deposited tons of sediment into Pioneer Lake. Pioneer Lake is impaired, meaning it does not meet water quality goals set by the State of Minnesota. Wave action and runoff accelerate the shoreline erosion. To stabilize the shoreline, brush bundles were created by the Minnesota Conservation Corps from buckthorn that was removed from the site. These brush bundles were anchored to the shoreline to break the waves. Behind the bundles and on the slope, the area was hydroseeded with grass species.

At the end of the road, there was a gully that carried the road runoff directly to the lake. This area was treated with pervious pavement and a new outlet structure. These projects will save over 5 pounds of phosphorus from entering the lake each year.



### Partners:

Center City  
Landowners  
Chisago Lakes Lake  
Improvement District  
Chisago Soil & Water  
Conservation District

### Pollution Reduction:

Total Suspended  
Solids: 5.6 tons/year  
Total Phosphorus:  
5.61 lbs./yr  
(BWSR Spreadsheet)

### Targeted Water:

Pioneer Lake

### Completion Date:

August 2016

### May I Visit?

Yes – The majority of this project is on City property, however, the bluff is very steep, do not climb.

