

CHISAGO LAKES MIDDLE SCHOOL

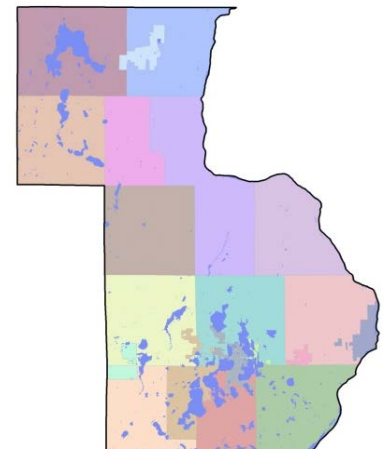
WATER SMART BMPs



In 2011, the Chisago Soil & Water Conservation District partnered with several classrooms at the Chisago Lakes Middle School to construct and plant a rain garden and a sand iron filter. The large rain garden treats the District Office parking lot on the southeast side of the building. The three cells cover about 1600 sq ft and was planted using native perennials and shrubs.



On the north and east side of the athletic fields, along Nystrom Lane, water used to flow down the ditch, through a culvert, and straight out to North Center Lake. To prevent the sediment, nutrients, and other pollutants from reaching the lake, a sand-iron filter was installed in the ditch area. Three cells were created to slow water down, allow some of it to infiltrate, and allow some of the sediment and phosphorus to be removed before the water enters the lake. Phosphorus bonds with iron filings mixed in with the sand. Therefore, the phosphorus stays in the swale instead of entering the lake, where it is food for algae.



Partners:

Chisago Lakes LID
Chisago Lakes Schools
Chisago SWCD

Pollution Reduction:

TSS: 1,170 lb/yr
TP: 2.18 lb/yr
Vol: 1.03 ac-ft/yr
(P8 model)

Targeted Water:

North Center Lake

Completion Date:

September 2011

May I Visit?

Yes – The gardens are located in the District Office parking lot and on the northwest side of the athletic fields