

DIBBLE WATER & SEDIMENT CONTROL BASIN

AGRICULTURAL BEST MANAGEMENT PRACTICES

Tom Dibble's farm includes a field at the top of the St. Croix River escarpment in the southern part of Chisago County. Runoff from the agricultural field was causing major erosion within the field itself, as well as on the steep slope of the escarpment. Large amounts of sediment were being washed off the field and ending up in the St. Croix River.

In 2015, Tom Dibble installed a water and sediment control basin to stabilize the erosion. A berm of soil was used to create a temporary ponding area to hold water back during a rain storm. A pipe was installed to slowly drain the ponded water so that the field will dry out within 1-2 days so crops are not damaged. The water will now slowly trickle out of the end of the pipe. With the reduced velocity of water, no erosion will occur at the pipe's outlet and the gully will no longer actively erode.



Partners:

Chisago SWCD
Landowners

Pollution Reduction:

Total Suspended Solids
(TSS): 16,000 lb/yr

Total Phosphorus (TP):
7 lb/yr

*(BWSR Pollution
Reduction Estimator)*

Targeted Water:

St. Croix River

Completion Date:

Fall 2015

May I Visit?

No, these practices are
located on private
property.

