

# ZWIERS PROPERTY

River Bank Stabilization



## Pre-Stabilization Conditions

The Zwiwers property lies along the Rum River in Anoka. The site is on the outside of a bend with the deepest part of the channel adjacent to the bank.. Moderate erosion and bank undercutting had led to bank failure that would have continued to threaten the Zwiwers property if not addressed. For this site, the toe of the slope was first stabilized with riprap and the slope was vegetated using plants native to the area. Benefits of the project include:

- Improved wildlife habitat
- Stabilization of the toe of the slope, preventing future problems
- Providing a long-term erosion solution

## PROJECT SPECS

Installed ..... January 2005

Project Length ..... 80 ft

Bank Height ..... 20 ft

Bank Slope ..... 1:1

Cost-share Funding Provided ..... \$7,220.00



## Installation



◀ June 2004

January 2005 ▼



The Zwiers site had recently suffered a slope blow out and the toe of the slope showed signs of moderate erosion. A cedar tree revetment was installed to protect the toe until it could be further stabilized with riprap.

## After Installation



The project was designed by Barr Engineering and installed by a contractor. The newly installed riprap repaired the undercut banks and erosion already present. Additionally, the riprap stabilizes the toe of the slope and protects the slope from future erosion and bank failure resulting from river flow on the Rum River.