

NIELSEN REVETMENT



Pre-Revetment Conditions

Increased development upstream from the Nielsen property has resulted in high water flows scouring the banks of Trott Brook. Combined with a loss of deep-rooted vegetation along the banks, excessive erosion was occurring on site. This resulted in:

- Increased sedimentation in the stream
- A reduction in water quality
- A reduction in upland area



High flows along Trott Brook in Ramsey (October 2002)



The project is located on Halas St. just south of 181st Ave. Please be respectful of private property if looking at the site!



High, fast flows and removal of deep-rooted vegetation along the banks have begun eroding the banks (November 2002)

PROJECT SPECS

Date Installed December 2002
 Revetment Length 200 ft
 Cedars Installed 25
 Buffer Area 1,000 ft²



ANOKA
CONSERVATION
DISTRICT



Installation

8' - 12' cedar trees were harvested with permission from a local property. Branches from one side of the tree were removed so the tree trunks fit tight up against the bank. Enough cedars were harvested to allow for a 2' overlap of trees along both sides of the bank.

◀December 2002

Installation

The trees were placed in the stream with the tops facing downstream and a 2' overlap. 2 duckbill earth anchors are attached to each tree and pounded into the ground.

December 2002 ▶



Site Monitoring

The cedar revetment is holding up well after the spring melt. The high water is forced away from the bank into the center of the channel, protecting against erosion. The cedars will last another 6-10 years, giving newly planted vegetation time to establish extensive root systems to hold the bank together after the cedars are gone.

◀July 2003