

Little Stewart Creek Abstract

This dissertation examines the processes taken to implement a stream restoration project on a historically trout rich stream in Northern Minnesota that was damaged by the 2013 flood event. Minnesota Trout Unlimited received grant funding to restore a highly impaired reach of the Little Stewart Creek just north of Two Harbors, MN. The main goals and objectives were to re-establish aquatic habitat through pattern, profile and dimension using “natural channel design” techniques. North State Environmental & Stantec Consulting submitted a design/build proposal as a team, to achieve the goals and objectives using onsite log material and imported boulders to construct log J-hooks, cross vanes and toe wood revetments to not only re-establish aquatic habitat, but also to maintain grade control and bank stability.