



Conservation Resource Alliance

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Red Creek Haze Road Crossing Project 2016

The Betsie River is a State Designated Natural River and is well known for its recreation opportunities including canoeing, kayaking, and fishing. The Betsie has a healthy steelhead and salmon fishery, and the reach involved in this project has a fair amount of gravel for spawning habitat. Red Creek is a tributary to the Betsie. Fish survey work completed by GTB showed a variety of fish species utilize the forested, coldwater habitat of Red Creek including brook trout, rainbow trout, and salmon. This road crossing site was the last needed project on Red Creek since the stream and surrounding land is primarily in state ownership.

Total Project Cost: \$70,000

Contributors:

- Environmental Quality Incentives Program (EQIP) through GTB & NRCS
- National Fish & Wildlife Foundation - Sustain Our Great Lakes Program
- Benzie County Road Commission
- CRA River Care Program
*DTE Energy Foundation

Location

Weldon Twp. Section 25/26
Benzie County, MI
N44.524119
W85.952089



Best Management Practices:

- Replacement of 2.5' diameter culvert, 39' long with an elliptical arch 10.7' wide x 6.9' high x 67' long
- 4 spillways to channel road runoff
- Placement of 25 cubic yards of rock riprap within the culvert for habitat & at the inlet
- 307 square yards of a combination of mulch, mulch/jute blanket
- 40 cu.yds. topsoil & 7,500 square feet of seeding
- Combination of shrub, tree & native plants were transplanted

Partners involved:

Betsie River Watershed Restoration Committee including the following partners – Conservation Resource Alliance, Grand Traverse Band of Ottawa & Chippewa Indians (GTB), Natural Resources Conservation Service (NRCS), Michigan Department of Natural Resources, and Michigan Department of Environmental Quality.

Project Benefits:

- Placed riffle, pool & woody debris habitat provides instream habitat for a variety of fish, aquatic wildlife & insect species
- Reduced erosion from roadbed and shoulders during snowmelt and rain events

Betsie River – Woody Debris & Bank Stabilization Sites

Inlet - Before



Fieldstone & woody debris were prescribed for the first site, mostly woody debris for the second site along with topsoil, terracing, planting the upper slopes



Conservation Resource Alliance – November 2016

Upper slope work involved log terracing, seeding & some topsoil. Plantings will happen in the spring 2016



Woody debris using cut red pines from nearby state land was secured with fieldstone placed in & around it at the toe.









