

Fish Habitat Project

Elk River Chain of Lakes

**Watershed Protection Plan Implementation Team Workshop
Camp Hayo-Went-Ha**

Steve Young and Fred Sittel

November 9, 2011



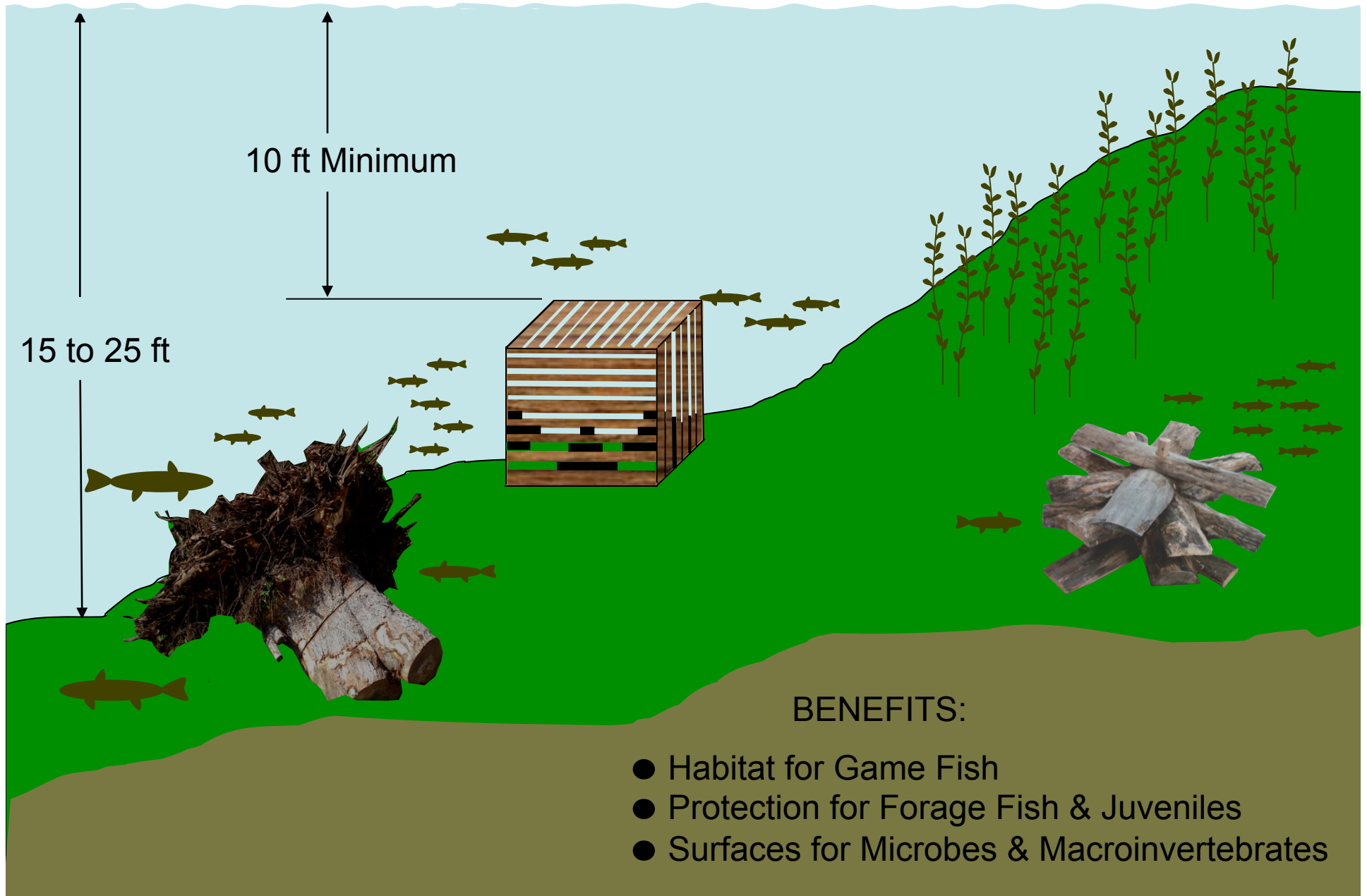
Fish Habitat Project

Elk River Chain of Lakes

- **Maintain Sport Fishing Quality & Improve Habitat**
- **Compensate for Lack of Woody Debris & Vegetation**
- **Intermediate, Bellaire, Clam, Torch and Elk Lakes**
- **Permit Application Target Date is March 2012**
- **Installation Start Target Date is June 2012**

Typical Fish Shelter Placement

GROUPS OF THREE OR MORE STRUCTURES MADE OF WOOD AND OTHER NATURAL MATERIALS PLACED BEYOND THE PRIMARY DROP OFF



DNR Fish Shelter Guidelines

● **Water Body Criteria**

Healthy Fish Population not Stunted or Overharvested
Lack of Natural Structure and Aquatic Vegetation

● **Design Guidelines**

Hubbard Lake & Lake Charlevoix Designs and Stumps OK' d
Hardwoods & Cedar Preferred over Pine
Must be Anchored or Weighted
Multiple Designs at Each Location Preferred

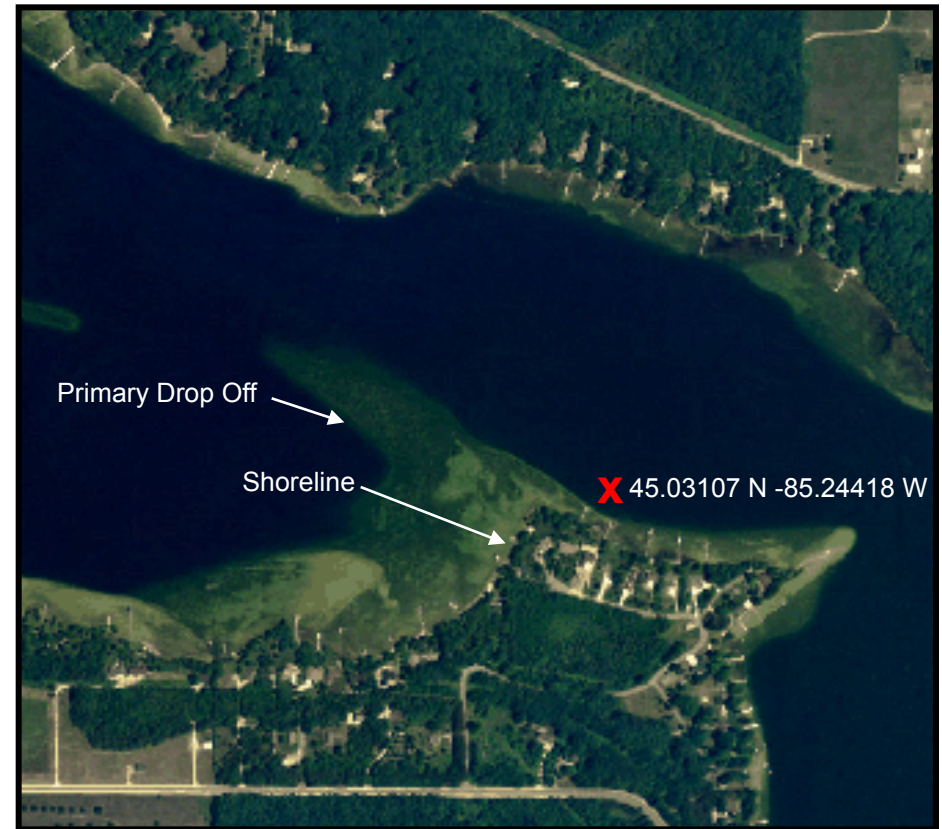
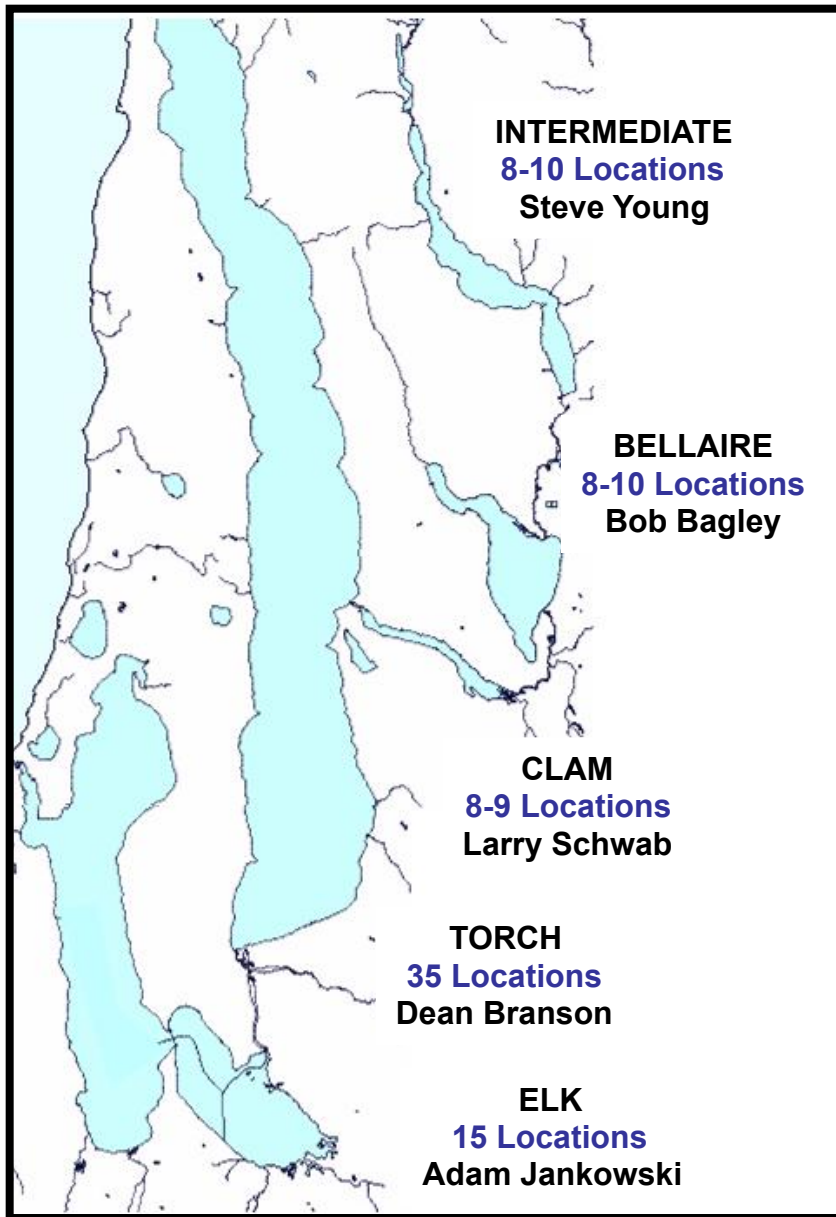
● **Construction & Placement**

No Nails or Cinderblocks
Place Above Thermocline or Near Shoreline
Avoid Navigational Hazards

MDEQ Permit Application Process

- **Five DEQ Permit Applications, One for Each Lake**
- **\$250 Combined Application Fee for Five Lakes**
- **One Applicant, The Watershed Center**
- **Permits Valid for Five Years**
- **Project Support from DNR Fisheries Biologist**
- **Riparian Owner Permissions on Application**

Placement & Information for Fishermen



X Shelter Location & GPS Coordinates

Help Wanted

- **Materials & Volunteers**
- **Participating Riparian Property Owners**
- **Township Parks & Road Ends**
- **Outreach**



Economics

- **Benefits Entire Community & Tourism**
- **Individual, Business & Organization Support**
- **Tax Deductible Contributions**
- **Potential Grant Applications**
- **Fundraising Events**