



Three Lakes Association

High School Internship

2013

3lakes.com facebook.com/3lakes

Three Lakes Association? (TLA)

TLA's mission is to provide leadership to preserve, protect, and improve the environmental quality of the Elk River Chain of Lakes Watershed for all generations, with emphasis on Lake Bellaire, Clam Lake, Torch Lake and their tributaries

OR, simply put:

TLA wishes to protect the Chain for the future.

TLA Summer Internship Program

Every summer since 2003, TLA has sponsored a student internship program.

The purpose of the program is twofold:

1. To enhance TLA's knowledge of Lake Bellaire, Clam Lake and Torch Lake and
2. To deepen the interns' appreciation of the extraordinary water resources of Antrim County.

TLA Summer Intern Program

Through a series of activities, the interns learn scientific field procedures and analyses while interacting with several scientists, agency representatives, and TLA volunteers.



2013 Program

- Marco Invertebrate Sampling and E.coli Monitoring throughout the Watershed.
- Creating a Natural Greenbelt on a Shoreline.
- Assessing the Clam River Plume.
- Fish Shocking.
- Evaluating Underwater Fish Shelters.
- Building/Manning a booth at the Antrim County Fair.
- Surveillance of Invasive Plant Species on Torch Lake

Marco Invertebrate Sampling and E. coli Monitoring

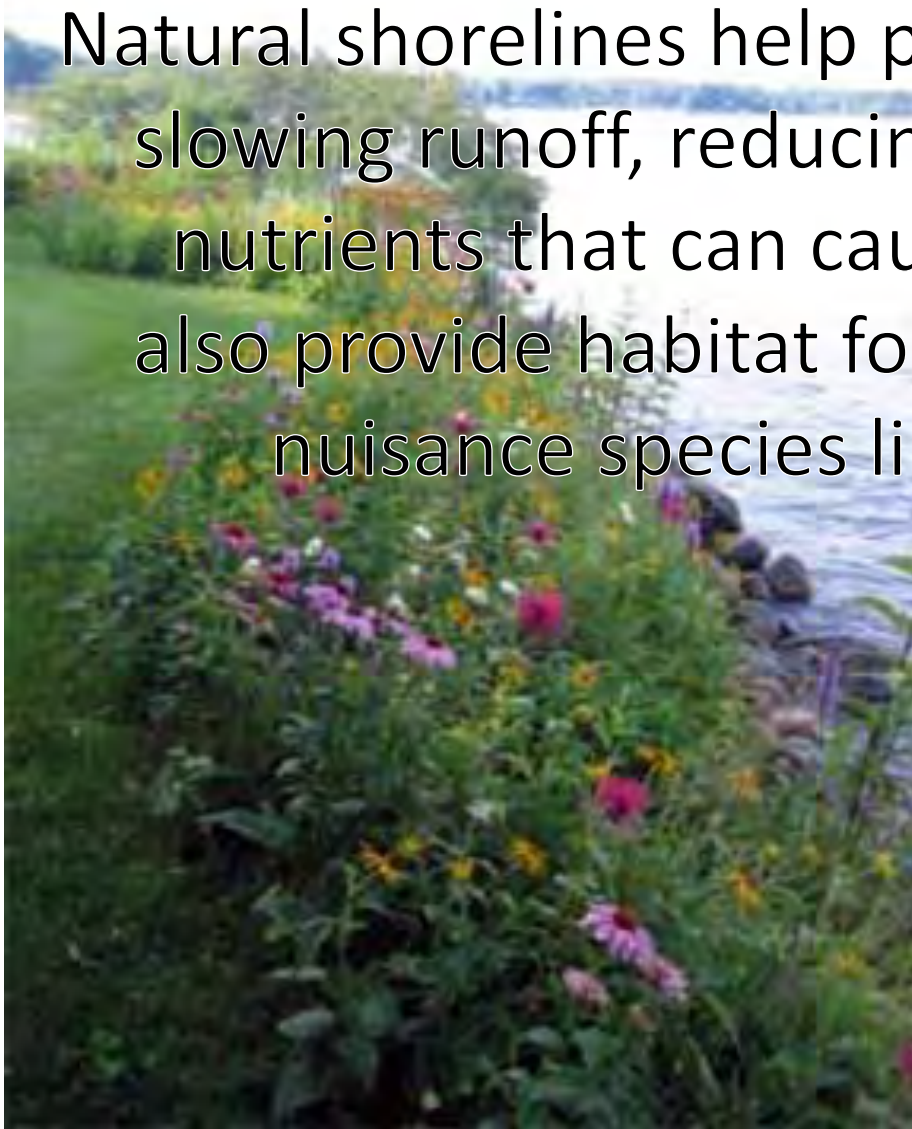
Studying Macro Invertebrates helps determine a water body's overall health.



Why monitor for E. coli?
The presence of E. coli in water is a strong indication of recent sewage or animal waste contamination.

Creating a Natural Green Belt

Natural shorelines help protect water quality by slowing runoff, reducing erosion, and filtering nutrients that can cause algal blooms. They also provide habitat for wildlife and can deter nuisance species like Canadian geese.



An aerial photograph of a large body of water, likely a lake, with a prominent brownish-green plume extending from the left side. The plume originates from a narrow inlet, presumably the Clam River, and spreads across the lake's surface. The surrounding land is lush with green trees and includes several buildings, parking lots, and a marina with numerous boats. The sky is clear and blue, and the overall scene is captured from a high-angle perspective, possibly from an aircraft.

Clam River Plume

Ever wonder why the brown plume spills into Torch Lake from the Clam River? Find out.

Fish Shocking

This safe technique allows us to determine the number and types of fish in our creeks – another indicator of stream health



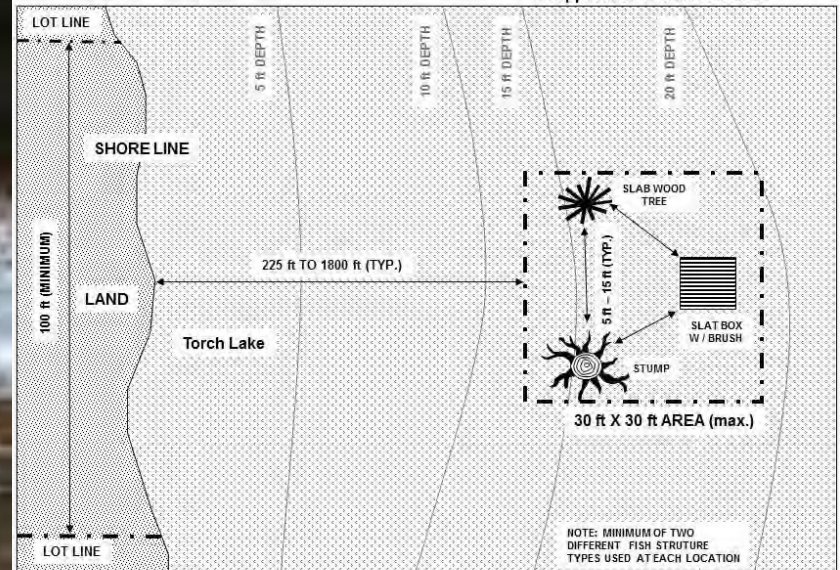
Fish Shelters

To date, TLA and partners have installed fish shelters in 22 locations throughout the chain. This year an additional 20 will be installed.



Water body: Torch Lake

The Watershed Center Grand Traverse Bay
Preapplication File 11-05-0045-P



Drawing 2: PLAN VIEW OF PROJECT
(NOT TO SCALE)

Antrim County Fair Booth

Last year, the Interns met Governor Snyder. We had over 2000 people stop in over the weekend.



EWM Surveillance

Invasive species threaten native plants and animals. We diligently monitor each year.



Added Bonus! A Plane Ride.



2013 TLA Internship Program

- Do you love the outdoors? Spending time on the lakes and rivers? Consider applying.
- The Internship runs throughout the summer – mid June to late August.
- Requires a commitment of 1 day per week (see attached schedule) and up to 3 hours homework each week.
- A final report will be generated. We use this report for determining future projects and as supporting documentation for grant applications. You can it to your portfolio.

The TLA Benefit Package

Upon completion of the Internship, you will receive:

1. \$300 stipend
2. ½ credit in Environmental Science
3. A greater understanding of the watershed
4. Community service credit
5. ONE GREAT EXPERIENCE!

Interested In More Information?

- Check out our website: 3lakes.com
- Like us on Facebook: facebook.com/3lakes
- Email our Executive Director Leslie:
lesliemeyers01@comcast.net
- The application can be found on our website

APPLICATION FOR THE THREE LAKES ASSOCIATION
INTERN PROGRAM

Date _____

Name _____ Age _____

Address _____

Phone _____ Email _____ GPA _____

List science classes completed:

Write a brief paragraph stating what you hope to gain from this experience.

Provide two letters of recommendation, one from a science teacher.

Signature of parent or legal guardian _____

Submit applications no later than May 31, 2013 to Leslie Meyers, Executive Director, Three Lakes Association, P.O. Box 689, Bellaire, MI 49615 or on line to lesliemeyers01@comcast.net.

If you have any questions concerning this application or the program please call 350-7234.
Successful applicants will be notified by June 8, 2013.