

## **Monitoring Change in the Waters of Leelanau**

<http://naturechange.org/2017/08/17/monitoring-change-in-the-waters-of-leelanau/>

### **Summary:**

Our natural resources are always changing and human activities accelerate those changes. With more and more development, the arrival of invasive species like zebra mussels and the rapidly changing climate – what’s happening to the water? Are small changes starting to add up? How shall we manage these changes?

Freshwater ecologist and limnologist, Dr. Tim Keilty says the only way to answer these questions is through long-term monitoring. And that’s why he helped the Leelanau Conservancy and volunteers from local lake associations design and launch a water monitoring program for Leelanau County over 25 years ago. As a volunteer and county resident, Keilty headed the lake water sampling effort for 20 years.

### **Topics Covered**

Water Quality; Ecology; Benthic organisms

### **Next Generation Science Standards**

- **HS-LS2-7. Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity.\***
- **HS-LS4-6. Create or revise a simulation to test a solution to mitigate adverse impacts of human activity on biodiversity.\***