

# DALEY — Shoreline Restoration



## PROJECT SPECS

Date Constructed ...  
Summer 2013

Shoreline Protection...100 ft

Buffer Area.....100 ft<sup>2</sup>

TP Reduction.....0.01 lbs/yr

TSS Reduction....3.38 lbs/yr

Cost Share Provided:  
\$3,000.00

## Pre-Project Conditions

The Daley property lies on the north shore of Forest Lake, Lake 1. Ongoing ice and wave action at the shoreline has resulted in a large, eroding ice ridge. Mowing of turf grass close to the edge of the shoreline was also resulting in increased shoreline instability. Issues identified by the District during the initial site visit included:

- Active shoreline erosion, undercutting of the shore
- Actively eroding, large ice ridge
- Mowing of turf grass to the lake edge
- Limited plant diversity
- Limited wildlife habitat.



**Before  
Spring 2013**

## Post Project Conditions

Ice and wave action along with mowing of turf grass to near the waters edge was causing undercutting of the bank and shoreline instability. To address the issue, the Daley's worked with Cold Stone Shorelines & Retaining Walls, Inc. to install a 100 square foot buffer planting as well as rock rip-rap and erosion control fabric to stop undercutting of the shoreline and prevent future ice push. Additionally, the Daley's removed non-native and undesirable species including turf grass and replaced them with a fescue planting. Coconut fiber blanket was also placed to prevent erosion while the seeded area establishes. Issues addressed through the project:

- Prevented further undercutting of the shoreline and future ice-push through the installation rock rip rap.
- Non-native plant species and turf have been eradicated from the shoreline and replaced with a fescue planting which will slow and filter runoff generated from the property before it reaches Forest Lake, Lake 1.
- Total phosphorus reduction achieved is 0.01 lbs/year, long term reduction goal for Forest Lake, Lake 1 is 79 pounds/year.



**After  
Summer 2013**