Little Elk Lake Stormwater / Sediment Control Stormwater / Sediment **Baldwin Township**

Control Project

Baldwin

Livonia



Project Summary

The Sherburne SWCD received a request for assistance from Baldwin township to address an erosion and sedimentation problem on 142nd street, a residential gravel road on Little Elk Lake, after the township had unsuccessfully attempted to reduce sediment entering the lake by installing a rock chute and thin vegetative buffer. The attempt was continually challenged during heavy rain events which would carry sediment from the 300 liner foot stretch of road resulting in an overloaded, plugged rock chute and the formation of a small sediment delta in the lake. The township was looking for a less laborious and more effective sediment reduction practice.

In 2013, with assistance from the SWCD, the township, their engineer and local residents decided to re-surface the gravel road and install a sediment trap (SAFL baffle) above to the rock chute. The SAFL baffle, developed by the University of MN, was placed in a 48" sump manhole and reduces stormwater velocity so sediment from the road settles out prior to entering the rock chute, buffer and ultimately the lake. Sediment will be removed from the manhole with a vacuum pump as needed. This project was cost shared with 2011 Clean Water Funds through the Elk River Watershed Association.





Haven

Palmer

Project Details	Project Funding	Project Partners
Date Completed11/2013	2011 Clean Water Fund\$12,691.33	Elk River Watershed Association
Phosphorous Reduction 10 lbs./yr.	Baldwin Township\$23,068.67	Sherburne SWCD
Sediment Reduction29 T/yr.	Total Project Cost\$35,760.00	Baldwin Township
		MCD - NPEAP













Sherburne SWCD 14855 Highway 10 Elk River, MN 55330 (763) 241-1170 ext. 4 (763) 635-0037 Fax

www.sherburneswcd.org

The Sherburne County Soil & Water Conservation District is dedicated to working directly with landowners and agencies in order to promote the wise and sustainable use of our land and water related resources to educate and inform the public about these uses; to help solve the resource problems within the District and to serve as a county wide natural resource information and referral center.