



DEQ
Michigan's
Nonpoint Source
Program

**Federal Clean Water
Act Grant**
Tracking Code #2012-0016



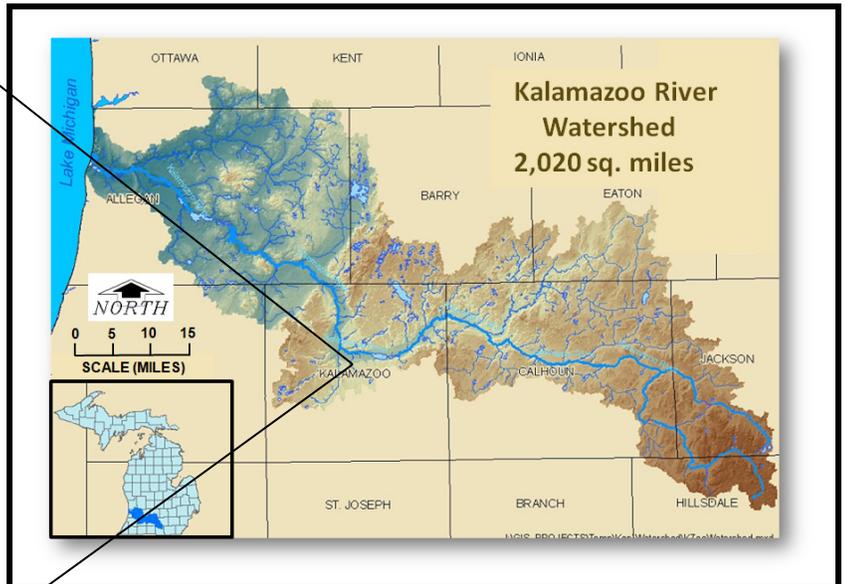
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Davis Creek Stream Stabilization Project

October 2012 to September 2015

Davis Creek is an urban Kalamazoo County Drain and major urban tributary to the Kalamazoo River and downstream impoundment, Lake Allegan. A 2011 TMDL Study completed by the Drain Office confirmed sediment erosion and stream stabilization problems within Davis Creek. The study prioritized the seven most highly impaired areas where in-stream and stream bank stabilization measures would reduce sediment and total phosphorus loads from entering the Kalamazoo River. This project implemented three of the seven recommended best management practices by completing final design plans and specifications and constructing stable channel patterns and in-stream structures for these sites. Specific measurable goals achieved during this project include: 1) correcting three erosion sites that were identified in the 2011 TMDL study, 2) establishing no-mow and native plant buffers, and 3) reducing sediment and TP loading to the Kalamazoo River from inputs originating in Davis Creek.



Grant Amount: \$ 117,703
Match Funds: \$ 42,924

Total Amount: \$ 160,627

Partners involved:

- MDEQ • MDOT • Kalamazoo County
- Cities of Kalamazoo and Portage
- Townships of Kalamazoo, Comstock, Pavilion
- Kalamazoo River Watershed Council
- Kalamazoo County Road Commission
- Kieser & Associates, LLC

Project Benefits:

Streambank stabilization efforts for this project resulted in the following benefits:

- Native seeding/vegetation = 0.5 acres
- Streambank erosion repairs = 270 feet
- Permanent educational signs to describe BMPs
- Reduction of 45 pounds total phosphorus/year
- Reduction of 30 tons sediment/year
- Reduction of 50 pounds total nitrogen/year

I&E Activities:

- Press release May 9, 2014
Kalamazoo Gazette
- Press release May 18, 2014
WMUK - 102.1
- Michigan Chapter - Soil & Water
Conservation Society - Summer
Tour - August 28, 2015
- Permanent education signs (3)



Photos
Before & After

Site #5:



Site #6:



Site #7:

