



Clean Michigan Initiative

Clean Water Fund

Tracking code: 2002-0263

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Hamilton Creek Watershed High Quality Waters Project

September 15, 2004, through March 31, 2008

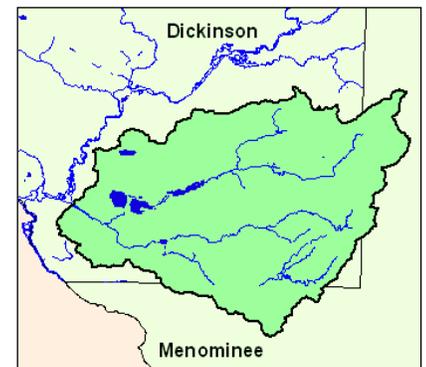
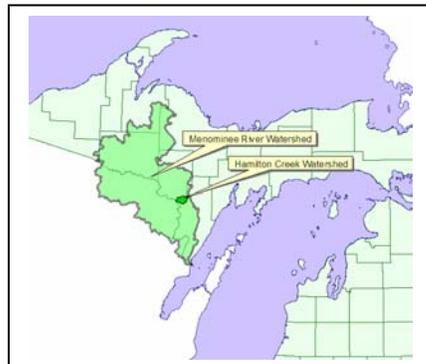
The goal of the Hamilton Creek Watershed Project was to reduce nonpoint source pollution in this 18,500 acre watershed in south central Upper Peninsula. The watershed includes three major lakes and 107,500 feet of streams, 60% of which is designated as high quality trout stream. Hamilton Creek Watershed is a subwatershed of the Menominee River, listed as an area of concern in the 1987 amendments to the Great Lakes Water Quality Agreement. Best Management Practices (BMPs) were installed at 10 sites to reduce sediment and nutrients entering Hamilton Creek. The sources addressed include shoreline erosion, channel erosion, road crossings, forest harvest road crossings and recreational trail crossings. This Hamilton Creek High Quality Waters grant was awarded simultaneously with a Hamilton Creek Clean Michigan Initiative Nonpoint Source grant (#2002-0076), thereby broadening the scope and number of sites addressed in the watershed.



Grant Amount: \$ 80,491.99

Match Funds: \$ 36,424.92

Total Amount: \$ 116,916.91



Hamilton Creek Watershed shown as a subwatershed of the Menominee River Watershed and enlarged subwatershed map.

Best Management Practices:

- 1 Road Stream Crossing Replacement
- 2 Forest Harvest Road Crossings
- 1 Recreational Trail Crossing
- 5 Stream Bank/Shoreline Stabilization sites totaling 395 linear feet
- 280 linear feet of Channel Erosion Stabilization

Annual Load Reductions:

- 32 tons/year Sediment
- 28 pounds/year Phosphorus
- 58 pounds/year Nitrogen



Partners involved:

- Hamilton Creek Watershed Council
- Hamilton Lakes Association
- Dickinson Co Road Commission
- Turner Lands, Inc.
- Natural Resources Conservation Service
- Dickinson County
- Waucedah Township
- Seven Private Land Owners
- Sally Ann Construction
- International Paper (Verso)
- Iron Mountain Daily News
- The Advertiser
- Three independent contractors

I&E Activities:

- Annual watershed  of BMPs
- Six Hamilton Watershed Newsletters- inserts to Dickinson CD's "The Landscape"
- Three annual reports
- Dickinson County Fair Display
- Hamilton Watershed Council



Hamilton Lakes "Volunteer Barge" during H-L Channel Stabilization.



Habammer Road Crossing consisted of a short and undersized culvert in a gravel road crossing. This site also lacked adequate cover and side slopes. The result: direct sedimentation of Hamilton Creek. The gravel road crossing frequently overtopped, carrying sediment into the stream. Excessive stream velocities caused upstream and downstream bank erosion, as evidenced by stream widening and braiding and bottom sediment deposition.



Installed to prevent sediment from entering Fitzgerald Creek at this location were: a properly sized culvert crossing; stabilized inlet/outlets; 90 linear feet of rock-lined conveyance; and two overflow cross culverts. BMPs were chosen to control direct input of road sediment to the creek while avoiding fill in the surrounding wetland.



The channel between Hamilton Lake and Lake Louise on the Hamilton Lakes chain was dug during the CCC days. Loose sand spoils were piled steeply along the channel. Wave action, undercutting and erosion from deer crossings contributed sediment to significant stretches of the channel.



Stabilization included 140 linear feet along both north and south banks of the channel with a combination of log revetments, vegetated geoweb (north), and modified bank slopes. All areas were seeded, mulched, and live-staked with willow. A "No-Wake" ordinance was also passed for the channel.