



**Clean Michigan Initiative
Nonpoint Source Grant**
1999-0027

Gladwin County Road Commission

Telephone: (517) 426-7441

Fax: (517) 426-2735

Dundas Road Reconstruction

March 19, 2001 through September 1, 2002

Prior to implementation of this project, a 1.4 mile stretch of Dundas Road along Wixom Lake was being rapidly eroded due to wave action from watercraft on nearby Wixom Lake. Wixom Lake is an impoundment of the Tittabawasee River located in Gladwin County. Dundas Road is used by the public, including school buses, and also serves as access to Michigan D.N.R.'s public fishing and boat launch facility. The goal of the project was to stabilize 1.4 miles of Dundas Road to reduce sediment loads.



Grant Amount: \$ 150,000.00
Match Funds: \$ 329,342.00

Total Amount: \$ 479,342.00



Best Management Practices:

- 7,100 cubic yards 22A processed road gravel
- 2,654 tons asphalt pavement

Annual Load Reductions:
269 tons sediment per year



Partners involved:

- Northern Tittabawasee River Task Force
- Tobacco Township





Before:

This drainage outlet to Wixom Lake shows erosion of the embankment due to lack of bank armoring and an improperly designed structure.



After:

Following implementation of a new culvert, geotextile fabric and rock riprap, this drainage structure is much more environmentally friendly. Sediment loads have been reduced and the finished product is much more visually appealing as well.



Lake Shoreline Before:

This is the shoreline adjacent to Dundas Road prior to reconstruction. Wave action had been eroding the bank, contributing sediment to the watershed.



Lake Shoreline After:

Geotextile material has been added, followed by heavy rock riprap to secure the embankment.