Clean Michigan Initiative
Nonpoint Source Grant
1999-0026

City of Novi
Brian Coburn
Telephone: (248) 347-0454
Fax: (248) 735-5683
Email: Bcoborn@ci.novi.mi.us

City of Novi Outfall And Stream Bank Stabilization

July 15th 2002 – June 30th 2004

The Novi CMI Outfall & Stream Bank Stabilization Project used traditional BMPs and modern, innovative storm water management and stream bank stabilization techniques to control erosion at 4 storm sewer outfalls, one stream bank erosion site, and a road-slope erosion site. Bioengineering practices were incorporated into most of the designs to establish permanent native vegetation that provides long-term soil stability and reduced maintenance requirements. A sediment chamber was used at the road site to collect and treat storm water, thereby reducing road slope erosion and pollutant loads to Bishop Creek, which is a tributary of the Middle Rouge River.

Grant Amount: $ 50,000
Match Funds: $ 89,378

Total Amount: $ 139,378

Best Management Practices:

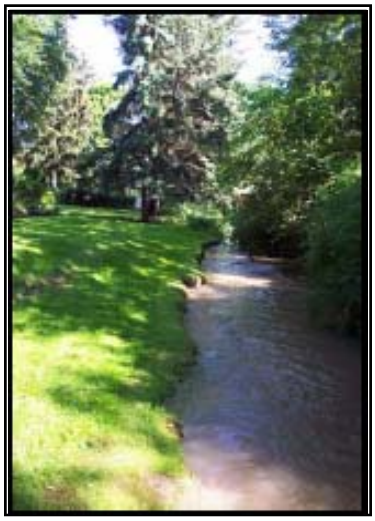
- 75 linear feet stream bank stabilization
- 4 stabilized outlets
- 1 sediment chamber

Annual Load Reductions:

- 6 tons of sediment annually
- 6 lbs of phosphorous annually
- 11 lbs of nitrogen annually

Partners involved:

- The City conducted this project independently, providing all of the matching the local funds. Cooperation and coordination with local riparian landowners and homeowners associations was required.



I&E Activities:

- Public education and involvement activities were not part of the CMI grant contract. However, the City plans to use the project in its Phase II public education programming.

Site SS1 Before: Looking downstream from Upstream of Site (7-03).

Site SS1 After: Looking upstream from Downstream end of Site (5/04).

Site OS4 Before: View of outfall showing Undercutting and Erosion (7/03).

Site OS4 After:Similar view showing installed Riprap apron and slope revegetation (5/04).

Site OS2 Before: Looking south toward Road-side ditch and asphalt spillway (8/03).

Site OS2 After: Looking south, showing new curb, and sediment chamber that traps sediment.