



# Federal Clean Water Act Section 319 Grant

Tracking code: 2004-0170



Huron River Watershed Council

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## Wildwood Subdivision Stormwater BMP Retrofit

January 2005 - June 2007

The Wildwood Subdivision is located north of Wixom, MI, draining to Norton Creek in the Huron River Watershed. High levels of nutrients, primarily phosphorus, in storm water runoff are causing water quality problems in the Huron River Watershed, including Kent Lake where a Total Maximum Daily Load (TMDL) has been established. This project demonstrated one way that existing infrastructure can be retrofitted, or modified, to improve water quality. The detention basin at Wildwood Subdivision appeared to be a dry pond, used primarily for flood attenuation. This project involved converting the detention basin into a storm water wet pond, which will hold storm water for longer periods and remove phosphorus from the storm water before it discharges to Norton Creek.

Grant Amount: \$78,300

Match Funds: \$27,100

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Total Amount: \$105,400



### Best Management Practice:

Detention basin retrofit:

- Sediment forebay
- Stormwater wet pond
- Bank stabilization



### Annual Load Reductions:

- 9 pounds of phosphorus
- 1 ton of sediment
- 38 pounds of nitrogen



### I&E Activities:

- Fact sheets
- Newsletter articles
- Project presentations
- BMP tours
- Neighborhood meetings
- Professional journal article



### Partners involved:

- Wildwood Homeowners Association
- City of Wixom
- Oakland County Drain Commission
- Limno-Tech, Inc.



Original detention basin with outlet structure in foreground.



Original detention pond in wet period showing algae growth and invasive species.



Storm water wet pond following construction with forebay separation indicated and showing erosion control.



Close-up of forebay-pond separation spillway prior to planting and erosion control.