

City of Ann Arbor Green Infrastructure

Mary Beth Doyle Park Wetland Preserve

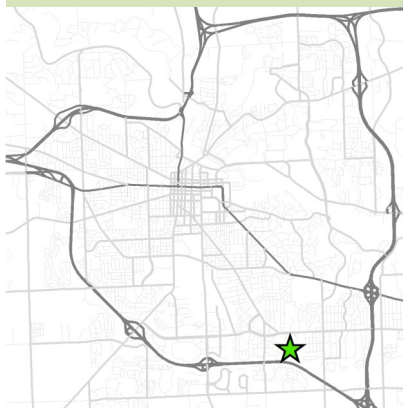
- **Completed:** 2008
- **Design Cost:** \$462,320
- **Construction Cost:** \$2,829,680
- **GI Funding Sources:** Stormwater Utility Fund, State Revolving Fund – Low Interest Loan
- **Partners:** Washtenaw County Water Resources Commissioner, Michigan Department of Environmental Quality

This project was the first non-point source project in Michigan to be financed with State Revolving Fund loans.



Green Infrastructure:

- Extended detention wetland
- Native landscaping
- Sediment forebay
- Wetland mitigation
- Natural on-site water treatment
- Sediment removal



The Washtenaw County Drain Commissioner initiated a project that redesigned the 4.5-acre stormwater control pond at Mary Beth Doyle Park (formerly Brown Park). The project design goals were 1.) Improve water quality and habitat; 2.) Protect Malletts Creek; 3.) Enhance aesthetics, recreation and education opportunities; and 4.) Maximize use of sustainable processes.

The total maximum daily load (TMDL) established for the downstream Ford and Belleville Lakes requires 50 percent nonpoint source phosphorus reduction from all contributing basins, including Malletts Creek. It was estimated that Malletts Creek delivers 3,900-pounds of phosphorus to the Huron River annually.

The 2000 Malletts Creek Restoration Plan recommended this project and estimated that a 25 percent phosphorus load

mitigation from the Malletts Creek watershed could be achieved by retrofitting the Mary Beth Doyle Park pond to enhance its water quality treatment capabilities.

The project included dredging and disposal of 25,000 cubic yards of sediment, as well as construction of an earthen embankment, extended detention wetland (approximately 6 acres), forebay, mitigation wetland (nearly 2 acres). Park enhancements include a new pedestrian path and pedestrian bridge, improved habitat via native landscaping (including the addition of numerous trees), parking lot expansion, and relocating an existing disc golf course.

Monitoring and reporting to MDEQ were included through 2013.

