

# Inkster Wetlands Wayne County, MI

THE ROUGE RIVER PROJECT  
A WORLD CLASS EFFORT



BRINGING OUR RIVER BACK TO LIFE

*A publication of the Wayne County Rouge River National Wet Weather Demonstration Project*  
**Information Date: August 2002**

## Objective

The Inkster Wetlands project was designed to demonstrate control of nonpoint sources of pollution and wildlife habitat restoration in an urban setting. Some of the specific features of the wetlands project are:

- Control structure to moderate flow rate into wetland.
- Reduce suspended sediment load to Rouge River.
- Reduce pollutant load to Rouge River.
- Increase fish and wildlife habitat.
- Provide outdoor classroom



## Owner

Wayne County, Michigan

## Dates

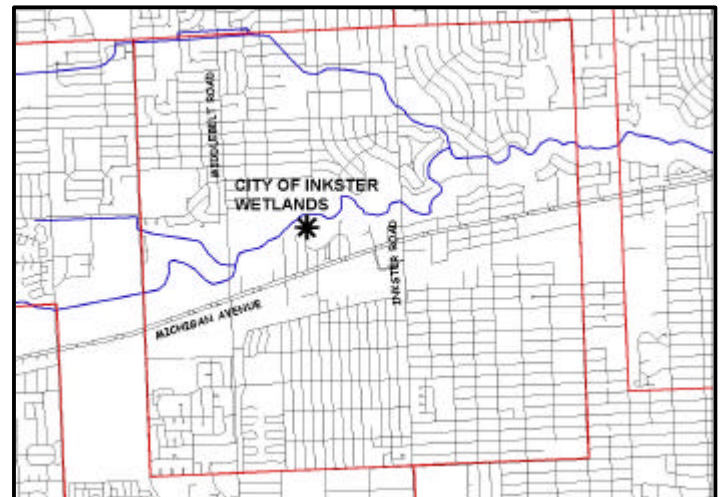
Planning Start Date: August 1995  
Design Start Date: September 1995  
Construction Start Date: February 1996  
Operation Start Date: December 1997

## Total Project Cost

\$464,826

## Location

Middlebelt Road



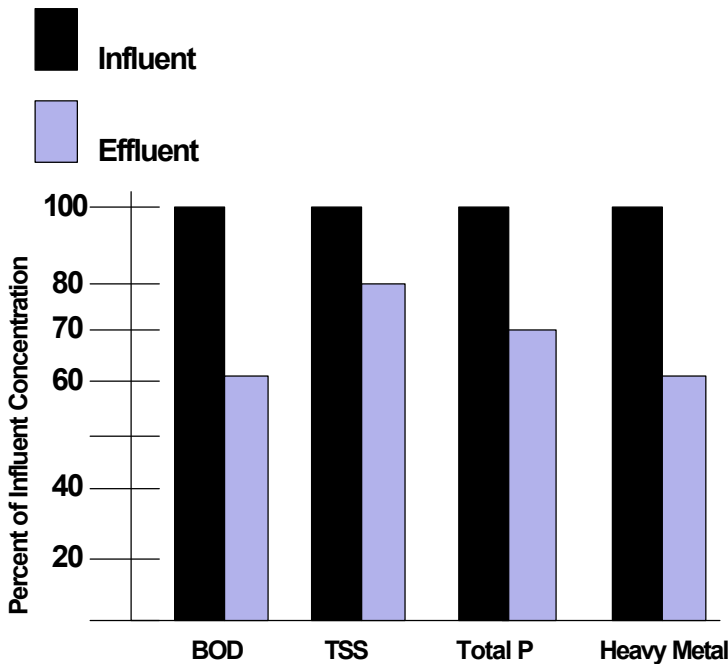
## Demonstration Aspects

- Integration of wetlands creation and recreation in an urbanized area.
- Water chemistry and biological monitoring of wetland performance in storm water management.
- Public-private partnership for environmental remediation and restoration.
- Use of wetlands for school-based environmental education.

## Project Highlights

- Fish and wildlife habitat have improved.
- Suspended solid removal averages 80 percent removal.
- Total phosphorus removal averages 70 percent.
- BOD removal averages 60 percent.
- Heavy metal removal averages 60 percent.
- Garden City High School uses the area for science and art classes.
- The Inkster Wetlands project began in January 1997.
- Wetland plant communities were established by June 1997.
- Wildlife use was observed in early spring.
- Aquatic insects have colonized the new wetland and provide food for fish and wildlife.

## Storm Water Pollution Control



## Major Elements

### Area 3 East

- Replacement of the 36-inch storm sewer with a new 48-inch storm sewer
- Sediment forebay with a perforated stand pipe
- Minor berming with a restricted outlet to contain storm water within the existing 4.7 acre forested wetland•

### Area 2

- Modifications to the existing 60-inch storm sewer
- A pump station and force main
- Sedimentation forebay with a perforated stand pipe
- Minor berming with a restricted outlet to contain storm water within the 3 acre forested wetland
- Erosion control seeding

To obtain further information on the Rouge Project, including documents, maps and general information, visit us at:

<http://www.rougeriver.com>

### *ACKNOWLEDGEMENT*

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