

THE ROUGE RIVER PROJECT
A WORLD CLASS EFFORT



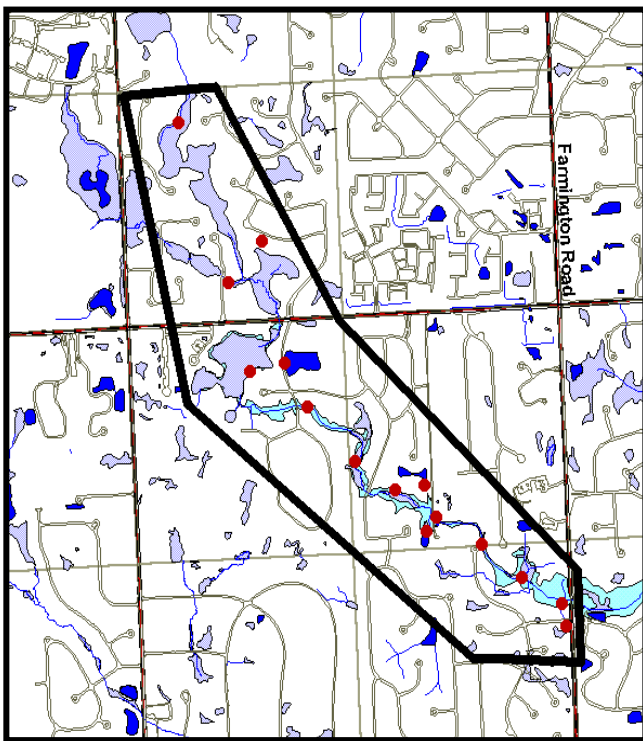
BRINGING OUR RIVER BACK TO LIFE

GIS Data for Water Quality Indices and Wetland Assessment West Bloomfield, Michigan

A publication of the Wayne County Rouge River National Wet Weather Demonstration Project
Information Date: September 2000

Objective

The purpose of the project was to expand two GIS capabilities necessary for planning and implementing programs to support the Michigan Department of Environmental Quality General Permit for Storm Water Discharge which supports the Rouge River restoration activities.



Study Area

Owner

West Bloomfield Township

Location

West Bloomfield Township, Michigan.

Dates

Start June 1998
Complete September 2000

Total Project Cost
\$55,000

Demonstration Aspects

- The Michigan Department of Environmental Quality General Permit for Storm Water Discharge which supports the Rouge River restoration activities requires the development of sub-watershed management plans to delineate the needed programs to restore the Rouge River.
- A watershed-wide, parcel based GIS system had been determined necessary to support the watershed management activities. This project demonstrates how West Bloomfield Township expanded and implemented two GIS data sets, water quality data and wetland delineation, into its Geographic Information System.

Project Highlights

- Developed the necessary GIS coordination links with other agencies in the Rouge River Watershed as part of the establishment of a watershed-wide compatible system.
- Developed the basic data to support the watershed application of GIS including data on water quality and a wetland inventory.

Major Elements

- Procurement of GIS consulting services to assist in the development of the expanded GIS elements.
- Updated and integrated the water quality data and entered it into the GIS database for use in watershed management programs.
- Developed data sets on a wetland inventory for the Township and entered them into the GIS database for use in watershed management programs.
- Developed a digital data base design for both data sets.

Project Results

The GIS system was supplemented with the additional water quality and wetland data, which is considered vital for effective watershed management under the watershed approach being used in the restoration of the Rouge River.

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

<http://www.rougeriver.com>

ACKNOWLEDGEMENT

The Rouge River National Wet Weather Demonstration Project is funded, in part, by the United States Environmental Protection Agency (EPA) Grant #X995743-01, 02, 03, 04, 05 and 06 and #C995743-01.