



THE ROUGE RIVER PROJECT
A WORLD CLASS EFFORT



BRINGING OUR RIVER BACK TO LIFE

Fellows Creek Regional Detention and Public Education Programs, Charter Townships of Canton and Plymouth, Michigan

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

Objective

The objective of this project was to conduct an evaluation of storm water detention facilities located in residential, commercial, and industrial developments of the Charter Townships of Canton and Plymouth. The project included the following scope of work:

- Inventory the condition of existing detention ponds/basins;
- Assess the findings to determine if the facilities were functioning as planned;
- Evaluate the basins to determine maintenance responsibilities and the success of these efforts;
- Compile the findings for future use as a database tool;
- Provide recommendations based on findings for changes to determine basin design criteria; and
- Develop and implement an ordinance to fund maintenance activities for stormwater facilities.

Information on the ordinance is covered under another project profile titled "*Canton Township Stormwater Management Ordinance*".

Owner

Charter Township of Canton and Charter Township of Plymouth, Michigan

Location

Western Wayne County

Dates

October 1996 – April 1998

Total Project Cost

\$111,000



Wet Detention Basin

Demonstration Aspects

- The lessons learned from this pilot project will be shared with communities within the Rouge River Watershed as well as with communities from watersheds across the country.
- This project will allow both townships to effectively assist homeowners' associations to implement any specific maintenance recommendations for their detention basins within their respective residential subdivisions and implement any necessary retrofit recommendations to improve water quality.



Stormwater Detention Pond

Project Results

In Canton the storm water detention facility inventory included both a design plan review and a field assessment of each individual basin. A total of 127 detention basins were identified, evaluated and categorized from April to June 1997. Each basin was rated as excellent, good, fair or poor according to a variety of design and maintenance factors outlined on the Canton Township Detention Facility Checklist. Of those 127 detention basins, 4 were rated excellent, 66 were rated good, 46 were rated fair and 10 were rated poor. The study team provided maintenance and/or retrofitting recommendations for each basin depending on its individual condition. The most common problems found throughout the inventory included a lack of wetland vegetation, excessive sediment buildup in and around the pipes, lack of sufficient riprap and/or grates and evidence of erosion on the banks.

In Plymouth all detention facilities appeared to be functional for stormwater flow control. Major areas of concern were primarily related to poor maintenance and upkeep. 24 facilities were found to be in good condition; 27 facilities in fair condition and 13 in poor condition. An additional 19 facilities were also included in the inventory that were under construction, or still being used for sedimentation control purposes and not in final finished condition.

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 and 04 and #C995743-01.