



Facility and Residential Dye Testing Project Phase II

September 1, 2005 through June 30, 2009

The goal of this project was to improve storm water quality in the Lake St. Clair Direct Watershed and the Clinton River East Watershed, and continue improvement in the Red Run Watershed, by proactively identifying and eliminating any illicit connections to the storm water drainage system in the Cities of Center Line, Eastpointe, Fraser, Roseville, St. Clair Shores and Warren. This was accomplished by dye testing and inspecting commercial, industrial, institutional and residential facilities within the project area. Residential areas were selected for the project through *E. coli* samples collected, and/or observations of a possible illicit connection in the storm water drainage system. The criteria used for choosing facilities to dye test were the age of the facility, the use of the facility, previous *E. coli* sampling done and illicit discharge elimination work previously done in the project area. Facilities were inventoried and a list containing 3,730 facilities was created. During the course of the grant 1,736 facilities were inspected and dye tested. Of those facilities dye tested, 4% were found to have an illicit connection. Approximately 78% of the illicit connections had been corrected at the close of this grant. Macomb County's Surface Water Improvement and Monitoring (SWIM) team will continue to monitor correction status and handle enforcement of corrections.



Grant Amount: \$246,483
Match Funds: \$330,288

Total Amount: \$576,771

Project Accomplishments:

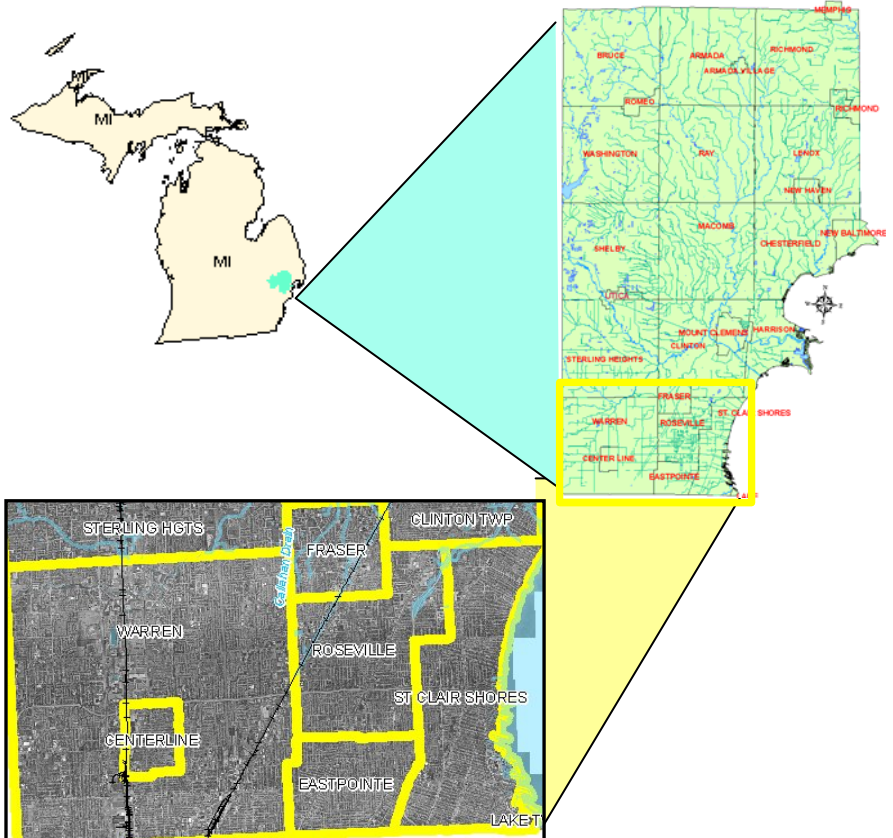
- 1,736 facilities inspected and dye tested (43% of the facility inventory list)
- 125 residential structures
- 72 illicit connections were found discharging to the storm drain:
 - 9 were all wastewater
 - 17 were partial wastewater
 - 43 were floor drains
 - 3 were truck bays

Annual Load Reductions:

- 1.7 million gallons per year of sewage have been removed from the storm drain system.

I&E Activities (concurrent with but outside the scope of the grant):

- Display posters created to educate the public on the project and storm water quality issues.

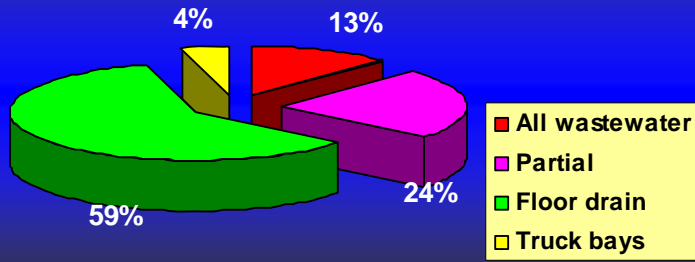


Partners involved:

- City of Center Line
- City of Eastpointe
- City of Fraser
- City of Roseville
- City of St. Clair Shores
- City of Warren
- Macomb County Road Commission



Categories of Problems Found



Marina found discharging sewage to Lake St. Clair.



Recently installed bathrooms at institutional facility found discharging to storm drain



Opening manhole to inspect for tracing dye.



Employees of business found disposing of wash water and waste oil in storm catch basin.

DYE TESTS BY FACILITY TYPE

