



Illicit Discharge Elimination in Warren and Center Line Project

January 1, 2005, through December 31, 2007

The goal of this project was to improve storm water quality in the Red Run Watershed by proactively identifying and eliminating any illicit connections to the storm water drainage system in the cities of Warren and Center Line. This was accomplished by dye testing and inspecting commercial, industrial, and institutional facilities within the project area. Residential areas were added to the project when deemed necessary 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, and illicit discharge elimination work previously performed in the project area. Facilities were inventoried and a list of 3,949 facilities was created. During the course of the grant, 2,258 facilities were inspected and dye tested, far exceeding the original agreement of 800 facilities. Of those facilities dye tested, 7% were found to have an illicit connection. Approximately 47% 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: \$438,174
Match Funds: \$236,010
Total Amount: \$674,184

Project Accomplishments:

- 2,258 facilities inspected and dye tested (57% of the facility inventory list)
- 166 illicit connections were found discharging to the storm drain:
 - 61 were all wastewater
 - 21 were partial wastewater
 - 47 were floor drains
 - 28 were truck bays
 - 5 were housekeeping issues
 - 4 were pools
- A sanitary sewer was located discharging to a storm drain.

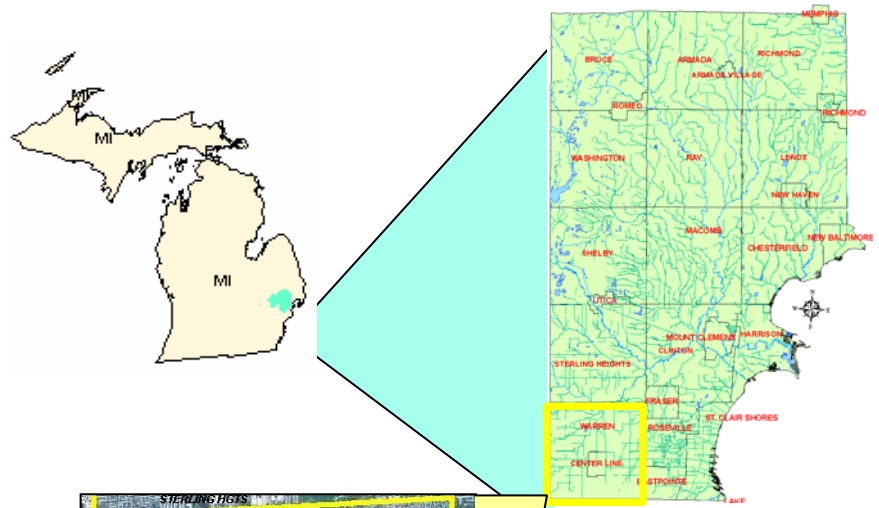


Annual Load Reductions:

- 10.2 million gallons per year of sewage have been removed from the storm drain system.
- An estimated 4.7 million gallons per year of more sewage will be eliminated from the storm drain system once the remaining corrections have been made.

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 Warren
- City of Center Line
- Macomb County Road Commission

