

Lake St. Clair Clean Water Initiative State Revolving Fund Project

Macomb County, Michigan

Southeast Macomb Sanitary District (SEMSD) is a sewage disposal District that consists of the member municipalities of Eastpointe, Roseville, and St. Clair Shores and is located within Macomb County, Michigan.

The wastewater collection systems serving SEMSD are separated and combined systems. Wastewater from these systems is transported to Wayne County and then to the Detroit Water and Sewerage Department (DWSD) Wastewater Treatment Plant (WWTP). During wet weather storm events, the collection system surcharges due to excessive inflow and rainfall induced infiltration that resulted in basement flooding and combined and sanitary sewer overflow discharges into Lake St. Clair.

Spalding DeDecker Associates, Inc. (SDA) was contracted to develop the State Revolving Fund (SRF) Project Plan for the proposed improvements that would reduce the amount of combined and sanitary sewer overflow discharges into Lake St. Clair.

Using Michigan Department of Environmental Quality's (MDEQ) guidelines for Project Plans, SDA collected background information from all three cities as well as Macomb County, analyzed several alternatives for the CSO and SSO Control, and detailed the selected alternative including costs, schedule, environmental impacts, and criteria.

SDA worked closely with personnel from SEMSD, Macomb County, City of Eastpointe, City of Roseville, City of St. Clair Shores, and several consulting firms to successfully develop the required finance information and public hearing. SDA also contacted several state environmental and natural resource agencies for approval of the projects.

Funding for the SRF projects was received. The design phase of the proposed improvements has been completed. The improvements are currently in various stages of construction.

PROJECTS

- Over 30,000 lft of New Relief Sewer
- 50% Increase in Hoffman Pump Station Capacity to 25 cfs
- Improvements to 8.6 mgal and 28 mgal Retention Treatment Basins
- Elimination of Five Sanitary Sewer Overflow Pump Stations
- Martin Drain Outfall Rehabilitation
- New Control and Telemeter System

CLIENT

Office of Macomb County Public Works
Commissioner

PROJECT START - END

March 1999 - December 1999

SDA PROJECT NO.

OM98-025