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**CITY OF LANSING, MICHIGAN  
COMBINED SEWER OVERFLOW (CSO) CONTROL PROGRAM  
Progress Update - November 2010**

**Schedule**

- Construction start: 1992
- End of construction: 2020

**Sewer Separation (uses updated GIS tributary areas)**

- Total 1991 combined sewer tributary area: 7,102 acres
- Combined sewer area separated or redirected from overflow since 1991: 4,929 acres
- Separation percent complete: 69% (4,929/7,102)
- Combined sewer area continuing construction in 2011 (015N): 80 acres
- Combined sewer area currently under design (15South and 034C): 209 acres
- New sanitary sewer constructed with CSO program: 65 miles
- New water main constructed with CSO program: 43 miles
- New roadway constructed with CSO program: 74 miles

**Benefits of CSO Control/Sewer Separation**

- Clean rivers (public health protection, aquatic habitat improvement, recreational opportunities, and increased property values)
- Basement flooding/SSO mitigation
- Streetscape and infrastructure enhancement (green space, tree preservation, road improvements, water main and other utility upgrades)
- Improved reliability / capacity of new Lansing Avenue Pump Station (LAPS)
- More efficient and reliable wastewater treatment plant operation
- Improvement sewage collection and transportation system
- Cost-effective and reliable sewer system maintenance
- Meets MDEQ/USEPA requirements

## **Combined Sewage Overflow Reduction**

- Estimated annual overflow before project: 1.65 billion gallons
- Average annual overflow removed to date: 952 million gallons
- Total number of CSO structures before 1992 start of CSO Control Program: 41
- Number of CSO regulator and overflow structures abandoned to date: 21 (51%): 007, 013, 018, 020, 023, 025, 028, 029, 030, 031, 035, 036, 037, 038, 039, 040, 041, 042, 043, 044, 045
- Previous CSO 007 at Harton Street Basin remains as a locked emergency SSO overflow for the Red Cedar Area

## **Facilities**

- Total number of facilities proposed: 6 (4 pump stations, 2 sanitary equalization basins)
- Number of facilities operational: 5 (4 pump stations, 1 sanitary equalization basin)
- Number of existing facilities decommissioned as a result of the new system: 4
  - Two (2) sanitary pump stations, including Lake Lansing Road and Shubel Street
  - Two (2) stormwater pump stations, including the old Clippert St. Stormwater Pump Station, and the Flood Control Pump Station, both near the Red Cedar River

## **Private Property Inflow Source Removal**

- Removed rainwater from sanitary sewers to help minimize basement flooding
- Number of properties inspected: 13,538
- Number of properties with inflow sources originally identified: 2,297 (17%)
- Percentage of these properties where inflow sources have been removed to date: 87%
- Percentage of total properties in compliance: 98%

## **Financing**

- Number of years of low-interest SRF financing to date: 19 (1992-10)
- Michigan Department of Environmental Quality (MDEQ) 2006 S-2 Grant: \$1 Million

## **Program Awards**

- 2006 APWA Region and State Awards for Capitol Loop Project
- 1994 USEPA National CSO Control Award
- 1993 P.A.C.E. Crystal Award – Community Relations

