



U.S. ENVIRONMENTAL PROTECTION AGENCY

National Pollutant Discharge Elimination System (NPDES)

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Featured Case Studies, Fact Sheets, and Other Information

EPA's Office of Wastewater Management sponsored a series of community-based demonstration projects to find innovative solutions to capacity problems that cause overflows of sanitary sewers. These projects sought to demonstrate innovative use of Capacity, Management, Operation, and Maintenance (CMOM) techniques as well as system rehabilitation and diagnostic methods. These case studies should provide useful information to other communities developing SSO abatement programs.

Featured Case Studies

- [Wellington, New Zealand \(PDF\)](#) (11 pp, 464KB) - features the city's asset management approach.
- [Clearwater, Florida \(PDF\)](#) (7 pp, 678KB) - demonstrates use of EPA Region 4's MOM approach.
- [Greenwood County, South Carolina \(PDF\)](#) (17 pp, 257KB) - features CMOM.
- [Johnson County, Kansas \(PDF\)](#) (10 pp, 157KB) - features I/I reduction.
- [Oklahoma City, Oklahoma \(PDF\)](#) (12 pp, 286KB) - features an ongoing system capital improvement project.
- [Fairfax County, Virginia \(PDF\)](#) (27 pp, 517KB) - also features CMOM.

Featured Fact Sheets

- **Fact Sheet: Financing Capital Improvements For SSO Abatement**
Financing Sanitary Sewer Overflows Abatement Programs is based on a survey of available financing, including bonds, loans, SRF program, low-interest loans, grants, etc. This fact sheet provides useful information for communities to help them determine which financial mechanisms are best for them. To view this factsheet visit <http://www.epa.gov/npdes/sso/finance/index.htm>
- **Fact Sheet: Asset Management for Sewer Collection Systems**

Sanitary Sewer Overflows and Peak Flows Information

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This fact sheet describes the asset management approach and shows how it can be used to help public sewer utilities accomplish multiple goals of protecting and extending the life of sewer system assets, meeting new financial reporting requirements, and abating sanitary sewer overflows or wastewater treatment plant peak flow violations.

[\[Click here to view in PDF format - 896KB \]](#)

- **Fact Sheet: (OECA/Region 4) Evaluating POTW Capacity, Management, Operation, and Maintenance Programs**

EPA's Office of Compliance and Region 4 are developing tools to support an audit program that will evaluate compliance of all aspects of wastewater treatment plant and collection system capacity, management, operations, and maintenance (CMOM) programs.

[\[Click here to view in PDF format - 23KB \]](#)

- **Fact Sheet: Why Control Sanitary Sewer Overflows?**

Sanitary sewer overflows (SSOs) are releases of untreated sewage into the environment. They have always been illegal under the Clean Water Act, but EPA's proposed SSO Control Rule will clarify the prohibition and provide a program for helping municipalities track and report activities undertaken to control SSOs. To view this factsheet visit

<http://www.epa.gov/npdes/ssso/control/index.htm>

Other Information

- **Guide for Evaluating Capacity, Management, Operation, and Maintenance (CMOM) Programs at Sanitary Sewer Collection Systems**

This guide identifies some of the criteria used by EPA to evaluate a collection system's management, operation, and maintenance (CMOM) program activities. The guide is intended for use by EPA and state inspectors as well as the regulated community-- owners or operators of sewer systems collecting domestic sewage as well as consultants or other third-party evaluators or compliance assistance providers. Collection system owners or operators can review their own systems by following the checklist in Chapter 3 to reduce the occurrence of sewer overflows and improve or maintain compliance. This guide is applicable to small, medium, and large systems; both publicly and privately owned systems; and both regional and satellite collection systems. This publication was developed by [EPA's Office of Enforcement and Compliance Assurance](#) (EPA 305-B-05-002).

[\[Click here to view in PDF format - 2,863KB \]](#)

- **Optimizing Operation, Maintenance, and Rehabilitation of Sanitary Sewer Collection Systems**

This guidance document is designed to be used by

collection system owners, managers, and operators seeking to optimize the operation, maintenance, and rehabilitation of their systems. This document highlights areas of day-to-day operation and maintenance and long-term system planning that can be implemented, improved upon, or documented in order to optimize system performance, enhance program effectiveness, and reduce overall long-term costs. Developed by the New England Interstate Water Pollution Control Commission (NEIWPCC) through a grant from EPA.

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[\[Click here to view in PDF format - 1,299KB\]](#)

- **CMOM Program Self Assessment Checklist**
Screening-level tool that can help utilities evaluate Capacity, Management, Operations, and Maintenance (CMOM) programs and identify general areas of strength and weakness. Completing this CMOM assessment will allow the utility to flag CMOM program areas that need improvement and establish priorities for additional, more detailed assessments. In addition, the checklist will allow the utility to compare annual performance (e.g., percent of employees meeting training standards).
[\[Click here to view in PDF format - 166KB\]](#)

- **Optimization of Collection System Maintenance Frequencies and System Performance**
This project was the end product of a 1999 cooperative agreement between EPA and the American Society of Civil Engineers (ASCE). The objective of this project was to develop an optimized approach for maintenance of separate collection systems by focusing on reducing the frequent failures of collection systems.
[\[Click here to view in PDF format - 856KB\]](#)

- **Preparing Sewer Overflow Response Plans: A Guidebook For Local Governments**
This guidebook was prepared by the American Public Works Association (APWA) under Cooperative Assistance Agreement #CX825881-01 from U.S. EPA. It was designed to help local system owners and operators plan for sanitary sewer overflow response. The guidance contains a glossary, a suggested reading list, an example of a sewer overflow report, and a disk with Chapter III of the guidebook for developing your own site-specific plan. Copies are available from:
American Public Works Association (APWA)
2345 Grand Blvd, Suite 500
Kansas City, MO 64108-2641
Telephone: (816) 472-6100
Document: ISBN#0-917084-4

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