



D&B ENGINEERS AND ARCHITECTS, P.C.

Corporate Office:

330 Crossways Park Drive
Woodbury, NY 11797
Tel: 516-364-9890
718-460-3634
Fax: 516-364-9045

Regional Offices:

4 West Red Oak Lane
White Plains, NY 10604
Tel: 914-467-5300
Fax: 914-467-4658

11 Oval Drive, Suite 100
Islandia, NY 11749
Tel: 631-265-8921
Fax: 631-265-8961

5879 Fisher Road
East Syracuse, NY 13057
Tel: 315-437-1142
Fax: 315-437-1282

3000 Hadley Road
South Plainfield, NJ 07080
Tel: 908-668-4747
Fax: 908-668-4658

8 Neshaminy Interplex,
Suite 219
Trevose, PA 19053
Tel: 215-244-9972
Fax: 215-344-9977

11 N. Pearl Street, Suite 1106
Albany, NY 12207
Tel: 518-636-6912

Combined Sewer Overflow Management

SERVICES INCLUDE:

- Sewer Modeling*
- Water Quality Management Plans*
- Flow Optimization for Collection Systems*
- CSO Storage and Treatment Facilities*
- Sewer System Rehabilitation*
- Treatment Plant Modeling*
- Wet Weather Pollution Prevention Plans*
- Regulatory Compliance*
- Value Engineering*



What is USEPA Policy?

In 1994, the United States Environmental Protection Agency (USEPA) adopted a national Combined Sewer Overflow (CSO) Policy requiring the implementation of best management practices, known as the nine minimum controls, and long-term control plans to comply with water quality standards. The goal is to eliminate dry weather discharges and to cost-effectively control wet weather flows to eliminate use impairments. The most common impacts from CSO discharges are floatable and pathogens. Other impacts include dissolved oxygen in poorly flushed waters and toxics associated with combined sewage. The USEPA recently released a draft policy on blending of wet weather flows within wastewater treatment plants, which will help codify USEPA policy to maximize treatment at existing wastewater treatment plants and encourages the use of underutilized primary treatment capacity.

How Does CSO Policy Affect You?

You must implement the nine minimum controls if you own or operate a combined sewer system. In fact, the Association of Metropolitan Sewerage Agencies published a bulletin that USEPA is actively conducting municipal audits to verify that the nine minimum controls have been completed and failure to implement these controls may result in a consent order. If local receiving waters do not achieve state water quality standards, you must develop a long-term plan to eliminate use impairments.

How Can D&B Engineers and Architects, P.C. (D&B) Help?

The key to the development of a cost-effective CSO plan is a basic understanding of your combined sewer collection/treatment system, its impact on local waterways, and available CSO control technologies. D&B's approach is unique and the result of extensive design and practical operation experience with combined sewer/treatment systems. The highlights of our approach include:

- An informal kickoff meeting.
- Review of relevant state regulations, water quality impairments, prior studies of collection or treatment system, and existing permits or consent orders.
- Evaluation of the existing sewer system and wet weather operation of the wastewater treatment plant.
- Modeling of the collection system and wastewater treatment facility as appropriate.
- Development of a practical, cost-effective control plan that will be amenable to future regulatory requirements in this evolving environment.

This approach covers each aspect of your combined sewer system. Owner preferences are incorporated into alternatives and regulatory compliance milestones are factored into implementation schedules. The final product will provide cost-effective solutions to help you achieve water quality standards where impacts are due to combined sewer discharges.

www.db-eng.com