

# XP Software

## Case Study | Miami-Dade Water and Sewer Department



### Dade County and XP Software:

#### A Model Situation for the Local Economy and Citizens' Health

The United States Environmental Protection Agency (EPA) alleged that the wastewater infrastructure of Metropolitan Dade County endangered the health and welfare of citizens by illegally discharging untreated wastewater from the collection and transmission system. In 1995, the Miami-Dade Water and Sewer Department negotiated a Consent Decree settlement to install and maintain a computerized collection and transmission system that would reduce incidence of these illegal discharges and predict flow and pressures in conduits, wastewater over-flows and in-line storage capacity.



Developing and implementing such a system posed a significant challenge due to the complexity and size of the largest collection and transmission system in Florida. After careful researching technologies capable of predicting potential sanitary sewer overflows resulting from peak flow conditions, the department chose XP-SWMM2000 as the foundation for its new Virtual Dynamic Computer Model.

XP-SWMM2000 enabled engineers to model both pressure and gravity systems, as well as incorporate data from a variety of external sources. Additionally, XP-SWMM2000 was customized to meet the Department's specific needs, including improved stability for pumps, enhanced graphical output capabilities, special conduit features to include minor pump losses, and several output and simulation parameters for a variety of model requirements.

Estimates indicate that the Model has been used to eliminate more than \$20,000,000 in construction projects now deemed unnecessary or unneeded. Additionally, the Model has eliminated sewer system overflows and significantly contributed to improved water quality.

### For Additional Information

Please contact your local sales office for further information.

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