

# Quarterly Update

October 2008

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- Related news articles
- Public presentations and
- Other related information

## Inside this issue:

Help Protect Our Waterways 2

Capacity Team Members 2

## Regional Collaboration Addresses Modeling Approach

By Richard Stahr, Brown & Caldwell

Hampton Roads Sanitation District (HRSD), the Virginia Department of Environmental Quality (DEQ) and the thirteen localities that are part of the Special Order by Consent (SOC) met on June 3, 2008 along with their engineering consultants to begin a dialogue on modeling of the sanitary sewer system. The meeting was sponsored by the Hampton Roads Planning District Commission (HRPDC). The SOC requires that each locality model its system and that HRSD, in collaboration with the localities, model the regional system.

The regional sanitary sewer system in Hampton Roads consists of local collector lines serving homes and businesses, locality-owned pump stations and force mains and regional pump stations and large diameter pipes owned by HRSD. Overall, there are approximately 1100 points of connection into the HRSD system, primarily through the locality pump stations. The pipes in the system extend for more than 2000 miles across the region.

The SOC requires that the system be

modeled to understand where there are capacity challenges in the sewer network. The system currently conveys wastewater without major issues during dry weather conditions. When there is substantial rain, some places in the system are challenged to convey the wastewater. The model will be used to identify these locations, test scenarios, and evaluate options.

The meeting included a discussion of modeling techniques and how the efforts of localities and HRSD will be coordinated throughout the process. Development of the model will take several years and requires the collection of huge amounts of information regarding sewer flows, rainfall and the physical attributes of the pipes and pumps in the system.

This meeting will be the first in a series of technical discussions on the modeling approach. One outcome of the meeting was the formation of a Regional Hydraulic Model Users Group that will meet periodically to collaborate on the technical approaches to modeling. This process will promote a regionally consistent approach and address issues as they arise.

## Regional Wet Weather Management Plan

### Quarterly Update

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# Help Protect Our Waterways by Reporting Suspected Sanitary Sewer Overflows (SSO)

Please call the number listed for your locality if you observe an SSO.

Locality	During Business Hours	After Business Hours
Chesapeake Public Utilities	757-382-CITY	757-382-3550
Gloucester Public Utilities	804-693-4044	804-693-3890
Hampton Public Works	757-727-8311	757-727-8311
Isle of Wight Public Utilities	757-365-6284	757-357-2151
James City Service Authority	757-229-7421	757-566-0112
Newport News Public Works	757-269-2750	757-247-2500
Norfolk Public Utilities	757-823-1000	757-823-1000
Poquoson Public Works	757-868-3590	757-868-3501
Portsmouth Public Utilities	757-393-8524	757-393-8561
Suffolk Public Utilities	757-514-7000	757-514-7034
Town of Smithfield	757-365-4272	757-357-2151
Virginia Beach Public Utilities	757-385-1400	757-385-3111
Williamsburg Public Works	757-220-6140	757-220-6196
York Environmental & Development Services	757-890-3773	757-890-3773

## Capacity Team Members

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