EPA/DOJ MANDATING CONSENT DECREE REQUIREMENTS

- Initial Information Requests in 2004
- Federal Order and Penalty Ordered in Early 2005
- Negotiated Consent Decree Terms
 - Elimination of All SSO's in 7 to 12 years
 - Penalty Fine, with State Share Addressing specific abatement requirements
 - Major Increase in Operations Requirements
 - Final Document signing in March 2006

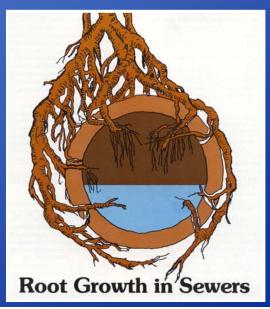
The District initiated an aggressive SSO elimination program in March 2005

- Flow monitoring of over 100 sites
- Review of previous studies & reports
- Building an infrastructure database from District records
- Any recommendations must be consistent with the District's Long Term CSO Control Plan
- Development of short and long term actions to address SSOs



Preliminary findings of Spring 2005 work

- West Hartford infiltration and inflow are a major problem
- Newington infiltration and inflow are a major problem
- Windsor river inundation is a major problem, previous District rehabilitation has been effective
- Rocky Hill inflow is a major problem
- Wethersfield inflow is a major problem



SSO Study Summary of Findings

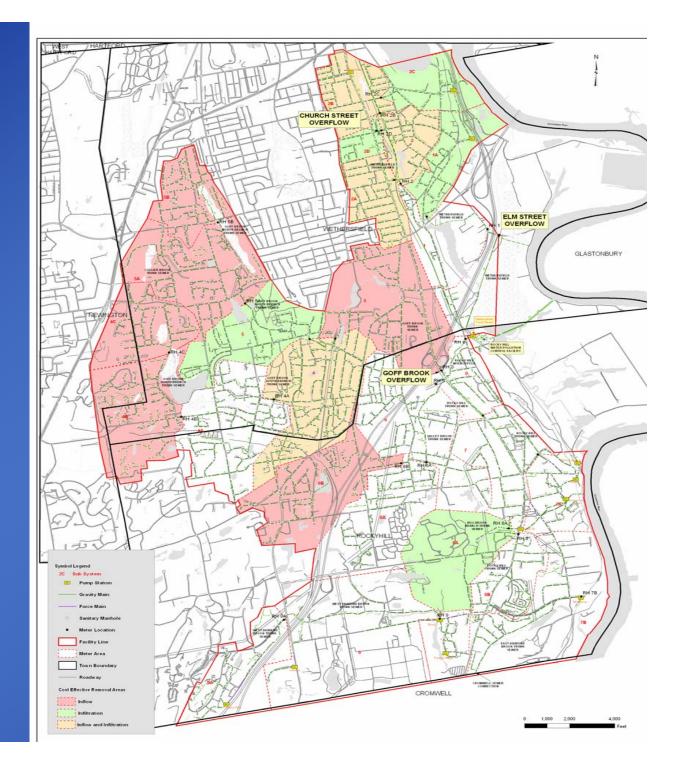
Town	Infilt	ration	Inf	low	F	RII	Waste	ewater	Total	Flow
	Avg.	Peak	Avg.	Peak	Avg.	Peak	Avg.	Peak	Avg.	Peak
West Hartford	9.62	14.27	3.36	45.65	0.76	10.33	4.43	8.37	18.17	57.49
Newington	3.33	4.49	1.13	15.30	0.36	4.82	2.35	8.39	7.13	23.90
Windsor	3.05	4.27	0.72	13.49	0.18	3.37	1.42	1.99	5.37	16.65
RH/ Wethfld	5.24	7.34	1.38	22.62	0.35	5.66	3.12	4.37	10.09	28.93

Rocky Hill/ Wethersfield Summary of Findings

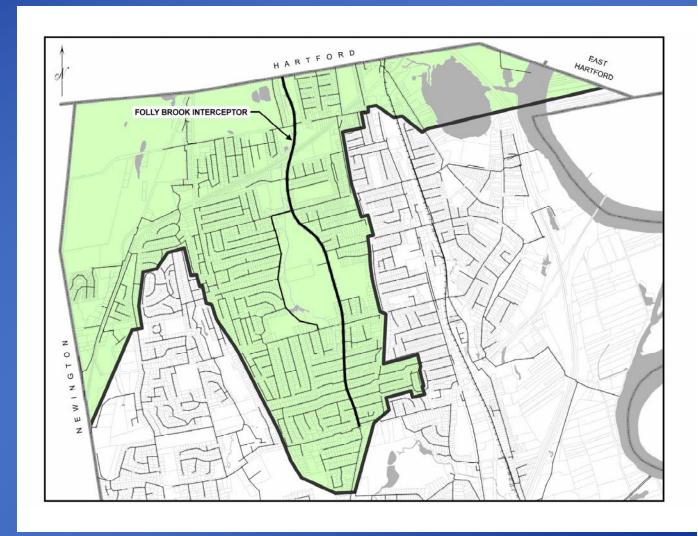




Inflow and Infiltration



Wethersfield's
Folly Brook
Area Inflow Is
A Major
Contributor to
the District's
Wethersfield
Cove Problem



Status of EPA SSO CD Negotiations

- MDC and EPA Finalizing a Consent Decree
- Consent Decree complete in early March 2006.
- SSO Elimination schedule
 - 7 years Windsor, Rocky Hill, Wethersfield
 - 12 years Newington, West Hartford
- Coordinate SSO removals with CSO LTCP solutions

SSO Program Continues

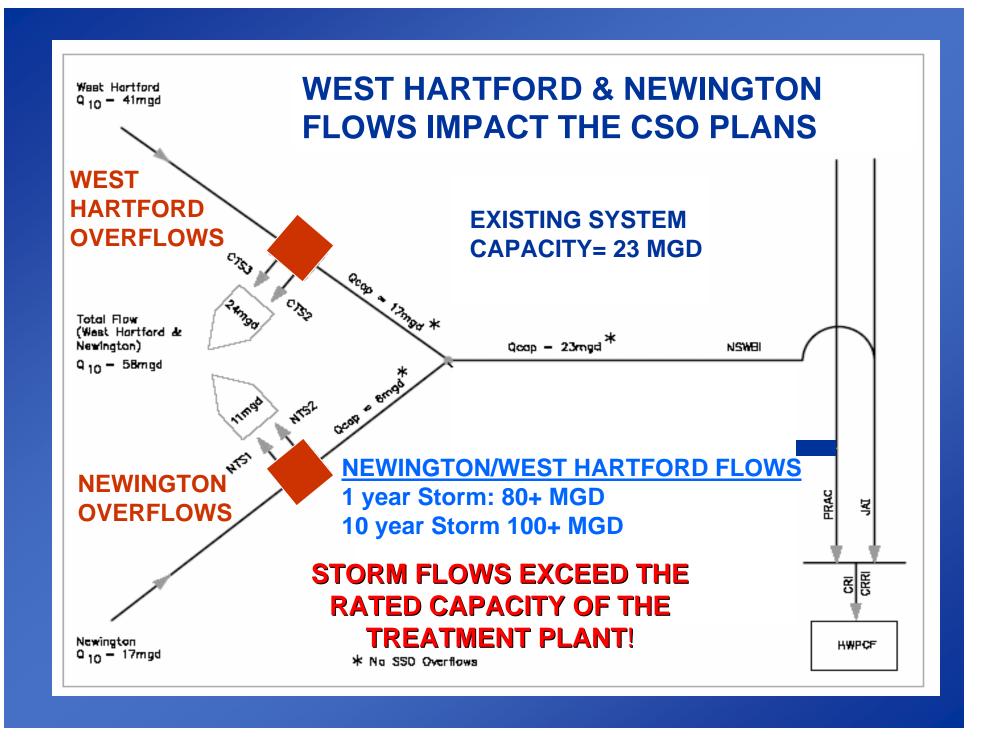
- Phase 2 SSES/SSO Elimination started August 2005
 - Smoke testing conducted in Newington completed 9/23/05
- Above ground survey for Newington, West Hartford,
 Windsor, Wethersfield, and Rocky Hill completed
 - Interceptors in Windsor, Wethersfield, and Rocky Hill are in low lying areas inundated by high groundwater condition and the CT River
 - Numerous manholes found to be significant inflow source
 - However, private inflow still a substantial source

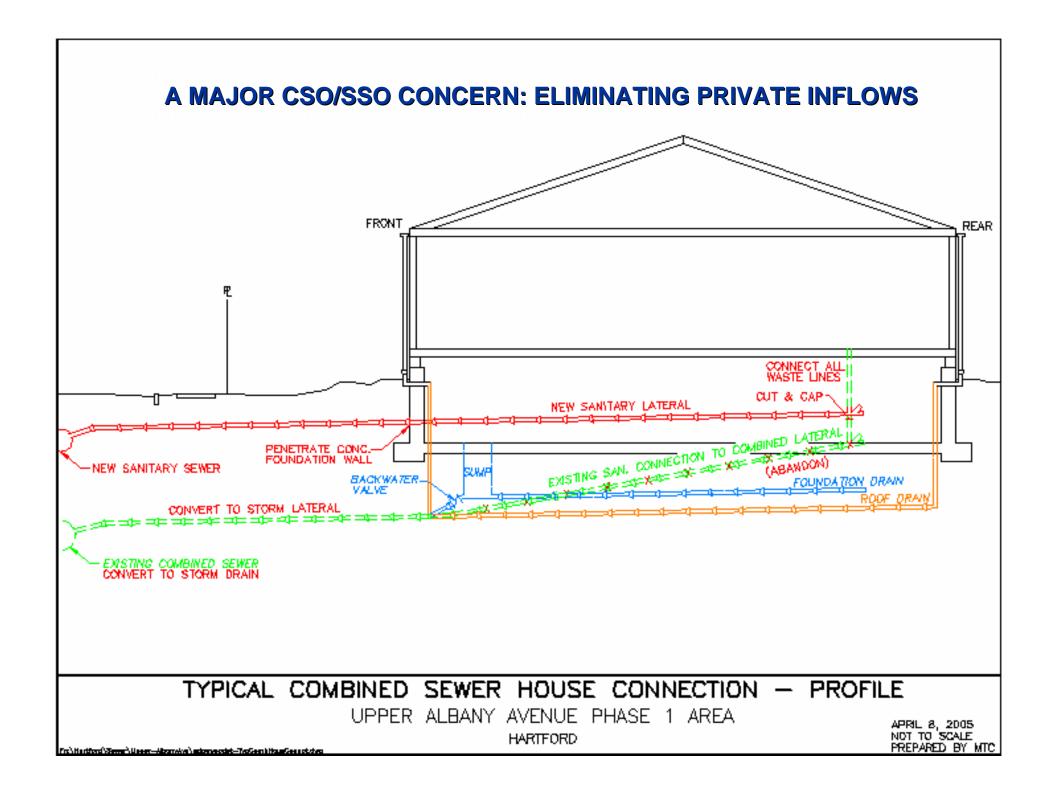
SSO Program Will Continue to 2007+

- Remaining work to be done for Phase 2
 - Smoke testing in West Hartford
 - Dye testing to find public inflow sources
 - Finalize construction contracts for Windsor, Rocky Hill, and Wethersfield
 - Prepare remaining construction contracts for Newington and West Hartford

Private Inflow Reduction is the Most Important Tactic To Reduce Program Costs

- Obtaining property owner and resident permission to implement sewer Re-plumbing
- Establish a MOU with Communities for Inhouse inspections
- Without Inflow Reduction, major CSO Facility Impacts





The Metropolitan District Capital Needs Are Significant

CSO Compliance \$671 Million

SSO Compliance 250 Million?

WPCF Nitrogen Upgrade 125 Million

TOTAL \$1.0+ Billion!

...in addition to the District's ongoing repair and replacement program.

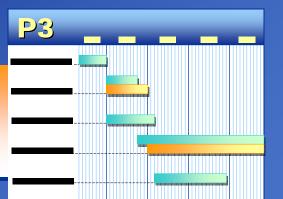
What Are MDC's Current Program Critical Success Factors?

- Developing and Maintaining Community Support
- Creating A Success-Driven, "Can-Do" Image
- Controlling the EPA and DOJ
- Showing "Austere" Financial Acumen
- Getting Referendum Approval
- Developing a Sense of Project "Legacy"
- Managing Organization Change

State Of the Art Program Management For the CSO/SSO Infrastructure Investment

- Maintain owner control and supervision of the \$1+ Billion CSO/SSO Plus Nitrogen Projects
- Project Values From \$5 to \$150 million
- More than 400 Contracts—Consultants, Contractors, others
- **■** Consent Order Deadlines of 7, 12 and 15 years
- Annual Project Investments Greater Than Total of 1992 Referendum

- Managing critical tasks
- Controlling the budget



- Communicating with all interested parties
- Documenting the project



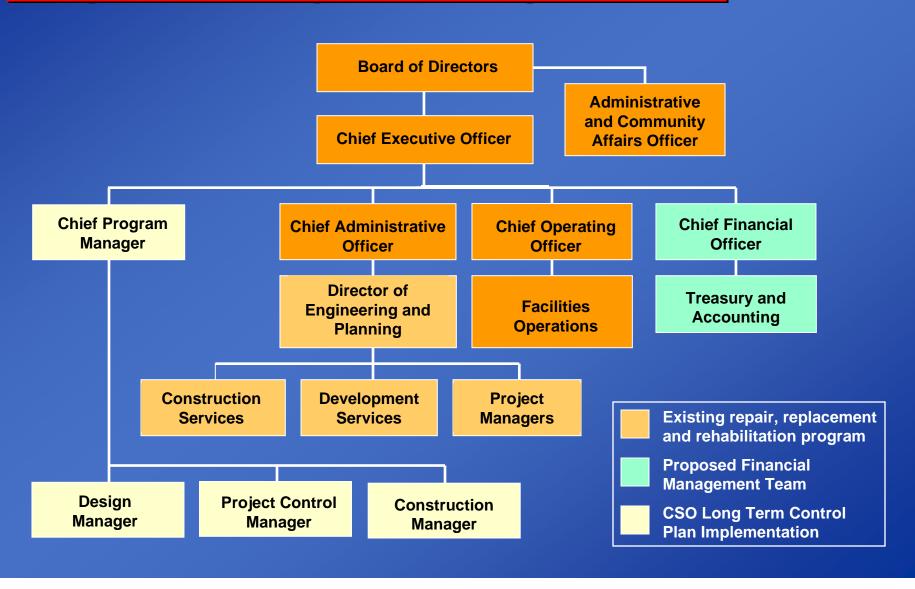
Tablet PC

Supporting timely decisions



Collecting and managing data

The Metropolitan District Clean Water Program Program Management Organization



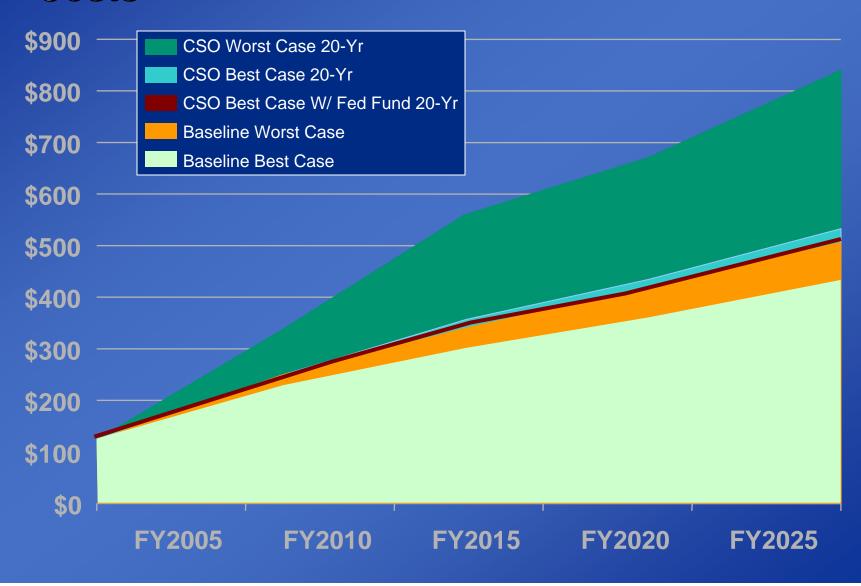
The District's Clean Water Program Organization Will Rely On Consultants

- Utilize Professional Service Firms to Finalize Project Concept and Budgets
- Establish Lead Design and Program
 Management Consultant To Handle Initial
 Peak Loads
- Develop Local Consultant Support Team, including DBE/MBE/WBE
- Bring On Construction Oversight Services as Needed to Support Construction Activity

What Can The District Do To Control Costs?

- Standardized Design
- Prequalification of Engineers and Contractors
- Negotiate MOU's with District Communities
- Program Management Organization

District Average Annual Household Sewer Costs



The District Is Seeking State/Federal Funding Sources

Federal Grants

0 - 10%

State Loans SRF

10-70%

State Grants

20-30%

(up to 100%)

Bonds

10-50%

Pre-Referendum Schedule

ACTIVITY

COMPLETION DATE

Obtain State DEP Approval	Winter, 2006
Develop "Communications" System	Winter, 2006
Confirm CSO/SSO Concepts	Mar, 2006
Formalize Project Cost Estimate	May, 2006
Address Public Concerns	Jun-Nov 2006
Submit Final Referendum	July 1, 2006
Finalize 2007 Final Design Doc's	Oct, 2006
Referendum Vote	Nov, 2006

The Metropolitan District Clean Water Program Schedule

2007—2018: SSO Abatement Programs

2007—2010: PRAC Reuse?

2007—2012: Wastewater Treatment Plant

2007—2022: Separation Projects

2010—2020: Relief, Consolidation Conduits

2015—2022: Storage Tunnel

General Referendum Campaign

- **■** Develop Consistent Themes, Messages
- Focus Group Polling to Evaluate Message
- Encourage "Established Group" Advocacy
- **Educate Local Activist Groups**
- Develop "Local Editorial" Image
- Actively Inform Political Campaigns
- **■** Educate...Educate...Educate

Integrate Community And Utility Projects

- 1. Request District Community CIP and General Planning Scopes and Dates
- 2. Coordinate Utility CIP Programs
- 3. Improve GIS System Capabilities
- 4. Empower CAC To Identify Local Needs
- 5. Compile District-wide CIP Report

Develop Environmental Sensitivity Plan

- 1. Empower CAC To Identify Local Needs
- 2. Select Project Opportunities For FY 06/07
- 3. Estimate Project Design Impacts
- 4. Estimate Project Cost Impacts, and Potential Revenue Sources
- 5. Recommend Project Opportunities To District Board

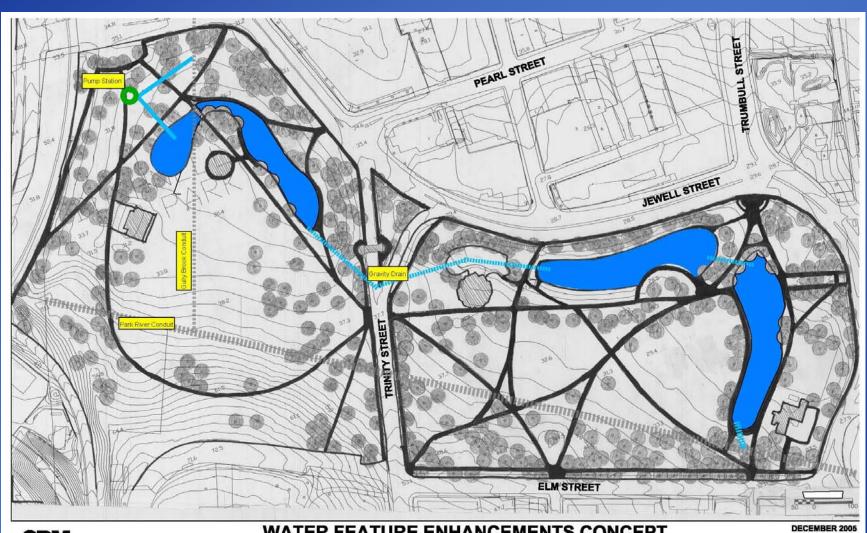
Develop Communication Systems

- Public Information Website
- Stakeholder Newsletters
- Press Releases, News Articles
- Public Service Announcements

Win-Win Benefits: Legacy Actions

- Park Improvements—eg, Bushnell Park
- Roadway Improvements—City Coordination
- **Potential Derelict Property Restoration?**
- Integrate City Streetscape Enhancements
- **■** Coordinate with Other Projects

The District's Program Will Spawn Opportunities For Other Improvements.



CDM

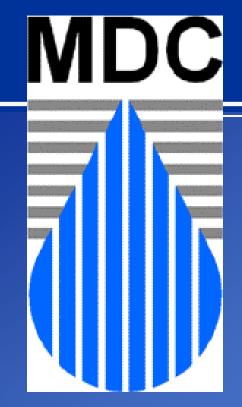
WATER FEATURE ENHANCEMENTS CONCEPT BUSHNELL PARK

Stakeholder Involvement

- Develop District Community DPW Advisory Committee
- Restore Citizen Advisory Committee
- Establish Community Executive Committee
- Citizen Polling, "Concern" Assessments

Coordination With Hartford Is Essential To Program Success.

- "Do No Harm" Approach
- Hartford's Support for the Program Referendum
- District Effort To Minimize Impact to City's Populous and Business Communities
- Effective Coordination With City Agencies
- Streamlining Approval Processes
- Establishing Design Standards
- Facilitating City-wide Revitalization Efforts



QUESTIONS?

Communication Plan Goals

- Demonstrate District's "go to" capability to implement large sophisticated projects
- Publicly demonstrate basis for need, scope and cost of CSO LTCP
- Prove Program's District-wide values
- Effectively demonstrate project success
- Referendum Campaign Program

District Affordability Worst Case with CSO Program 20 – Year Plan

	FY2005	FY2010	FY2015	FY2020	FY2025
Estimated Household Sewer Cost	\$119	\$332	\$556	\$666	\$826
% of MHI (MDC Average)	0.23%	0.62%	0.99%	1.12%	1.30%
% of MHI (Hartford)	0.42%	1.11%	1.77%	2.01%	2.34%

EPA Household Affordability Criteria Worst Case Projection 20- Year Plan



Typical Household Sewer Cost

Median Household Income

District Affordability Best Case with CSO Program 20 – Year Plan

	FY2005	FY2010	FY2015	FY2020	FY2025
Estimated Household Sewer Cost	\$119	\$254	\$358	\$428	\$523
% of MHI (MDC Average)	0.23%	0.47%	0.64%	0.72%	0.81%
% of MHI (Hartford)	0.42%	0.85%	1.14%	1.29%	1.45%

EPA Household Affordability Criteria Best Case Projection 20 – Year Plan



Typical Household Sewer Cost

Median Household Income

District Affordability Best Case with CSO Program + Federal Funding 20 – Year Plan

	FY2005	FY2010	FY2015	FY2020	FY2025
Estimated Household Sewer Cost	\$119	\$249	\$347	\$412	\$500
% of MHI (MDC Average)	0.23%	0.46%	0.62%	0.70%	0.77%
% of MHI (Hartford)	0.42%	0.83%	1.10%	1.24%	1.39%

EPA Household Affordability Criteria Best Case Projection + Federal Funding 20 – Year Plan



Typical Household Sewer Cost

Median Household Income

SSO Requirements for 2006-2007

- Capacity, Management, Operation and Maintenance CMOM compliance Report
- **Long-Term Preventative Maintenance Program**
- Hydraulic Model and Model Report of SSO Communities
- Sanitary Collection System Capacity Assessment
- Assessment of Voluntary I/I Removal Incentive Programs
- Additional Extraneous Flow Investigations
- SSES field activities: Smoke testing, Dye testing, Manhole Inspections (inflow/infiltration), Flow isolation Groundwater TV inspections Building inspections (locate private inflow sources), evaluate cost effective methods of sewer rehabilitation and new sewer facilities.