

*Hampton Roads Planning District
Commission Briefing
VDEQ Special Order by Consent*

Presentation to

Hampton Roads Planning District Commission

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Objectives of Today's Briefing

1. Overview of the Regional DEQ Consent Order
2. Review of Sanitary Sewer Evaluation Surveys (SSES) Basin Determination
3. Review of Potential Compliance Costs
4. Discussion of Budget and Rate Impacts

Overall Regulatory Status

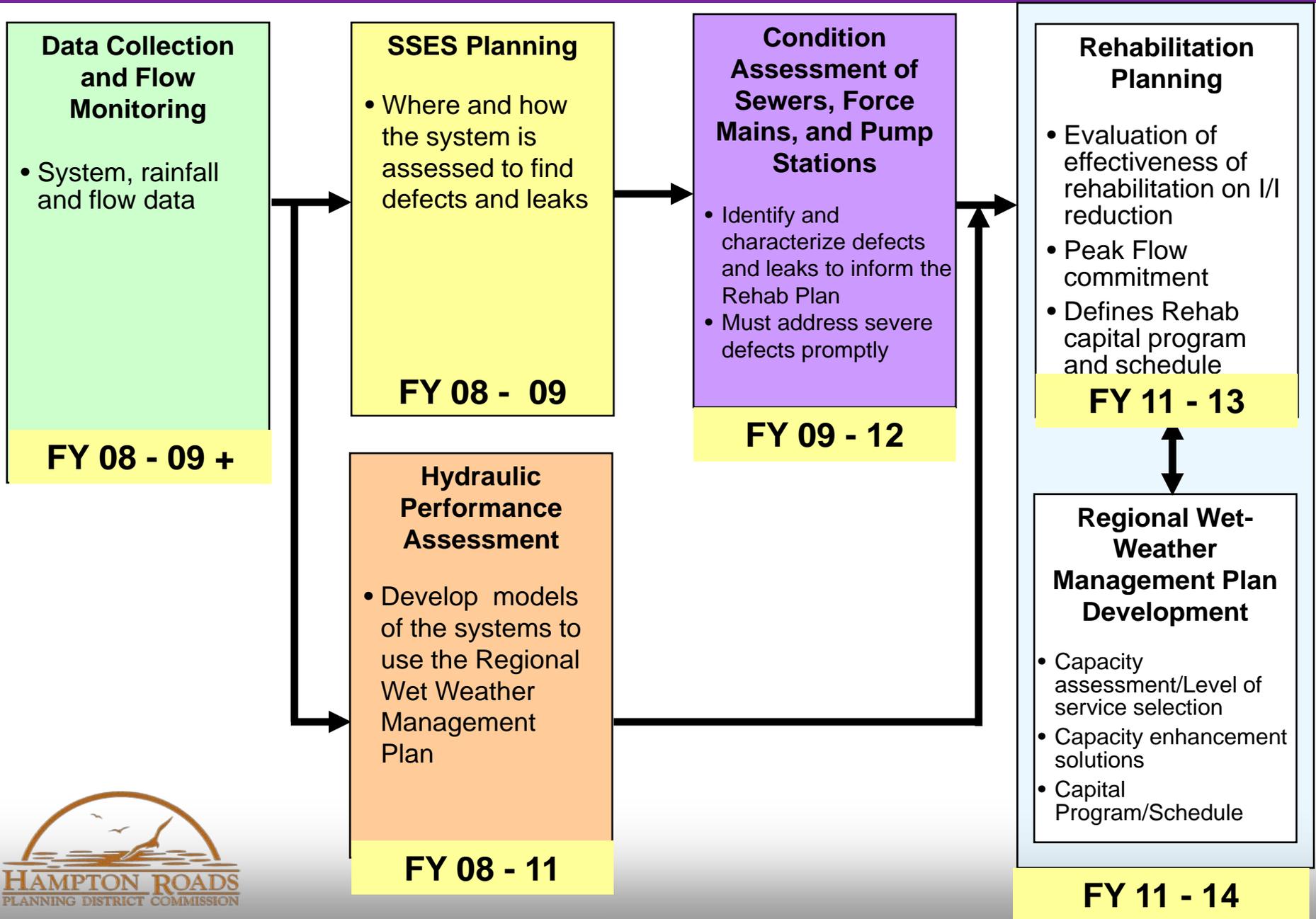
- Good compliance with Special Order by Consent.
- EPA/DOJ continue to engage HRSD in enforcement. Consent decree negotiations ongoing.
- EPA/DOJ paying close attention to activities in the region.
- The best defense for Localities to avoid EPA/DOJ enforcement is complete compliance with the SOC

Objective 1 - State Consent Order Overview

Major Consent Order Activities

- MOM Program
 - Rainfall & Flow Monitoring
 - SSES Plan
 - SSES Field Activities
 - Flow Evaluation Reports
 - Hydraulic Modeling/Input Hydrographs
 - Find and Fix Severe Defects
 - Rehabilitation Planning
 - Regional Wet-Weather Management Plan
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- Submitted**
- Starts Not Later than Spring 2009**
- Due May 26, 2009**
- Should be Underway**
- Starts When SSES Field Activities Start**

Consent Order Overview



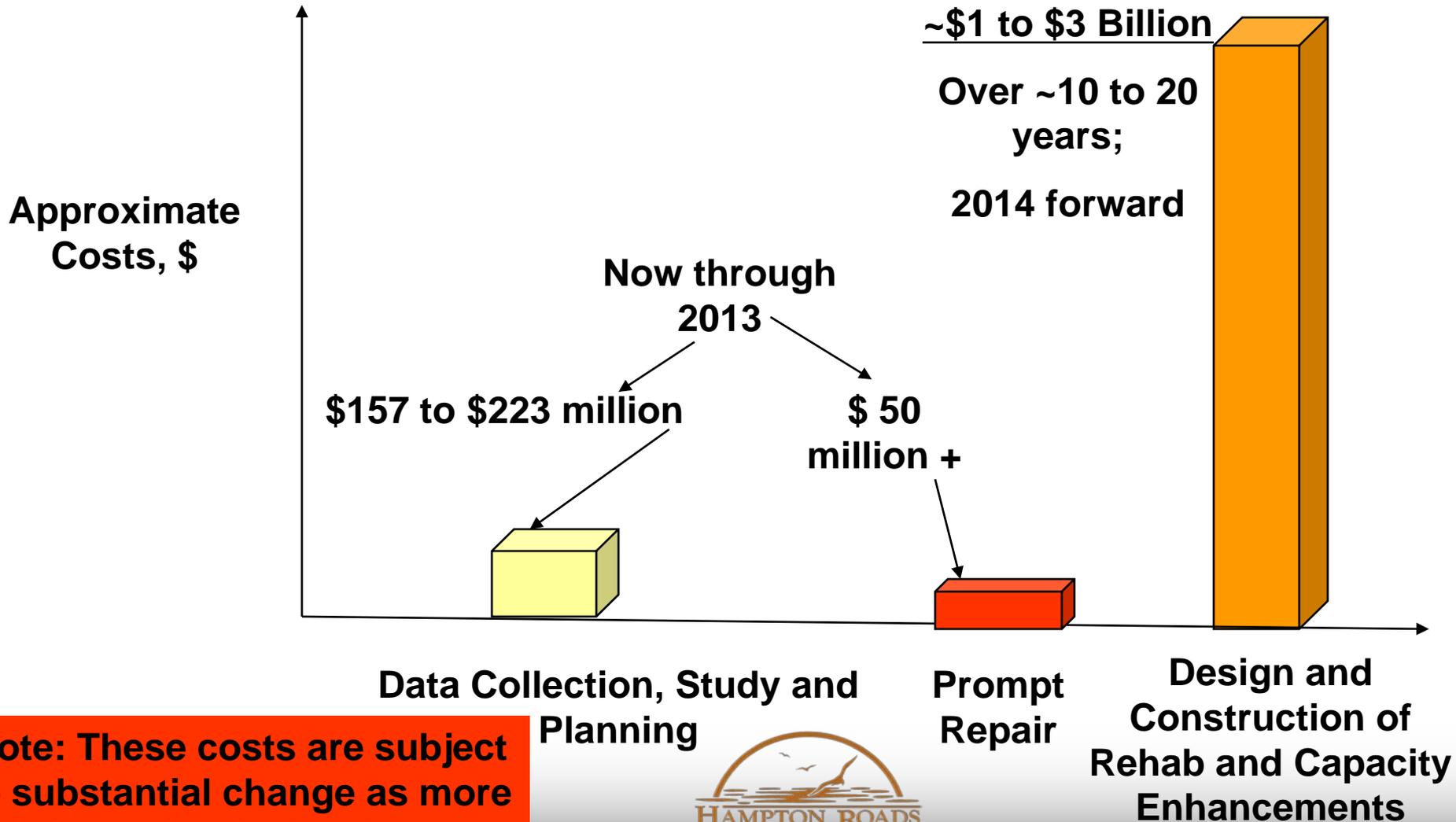
Approximate Regional Costs

<i>Activity</i>	<i>Approximate Cost, \$ millions</i>	<i>Timeframe, FY</i>
<i>Data Collection/Flow Monitoring</i>	\$35 - \$40	2008 – 2009 +
<i>SSES Planning</i>	\$2 - \$3	2008 – 2009
<i>Hydraulic Performance Assessment</i>	\$20 - \$30	2008 – 2011
<i>Condition Assessment</i>	\$80 - \$120	2009 -2012
<i>Prompt Repairs</i>	\$50 +	2009 – 2013
<i>Rehabilitation Plan/Regional Wet Weather Management Plan</i>	\$20 - \$30	2011 - 2014
<i>TOTAL</i>	<i>\$207- \$273</i>	

NOTE: All costs are approximate and subject to change. These estimates are intended to show the general magnitude of projected costs.



Approximate Regional SOC Compliance Costs



Note: These costs are subject to substantial change as more information is developed



SSES Goals

- Develop Data to Prepare a Prioritized Rehabilitation Program to Address Deficiencies
- Develop the Data Necessary to **Determine Whether Basins With Estimated Peak Flows Exceeding the Peak Flow Threshold Can be Rehabbed to Achieve the Threshold**

Will Rehabilitation Reduce the Wet Weather Peak Flow to the Target

Objective 3- Regional Results of SSES Basin Identification

Jurisdiction	# of SSES Basins	% SSES Basins
Chesapeake	140	52
Gloucester	10	63
Hampton	59	56
Isle of Wight	17	100
JCSA	55	72
Newport News	130	68
Poquoson	15	52
Portsmouth	54	79
Smithfield	6	43
Suffolk	89	89
Virginia Beach	174	62
Williamsburg	9	69
York	45	66
HRSD	NA	100 gravity, FM @ Material Risk of Failure

Region 3 - Benchmarking Comparison

Location	Pipe Length, ft	SSES Cost, \$	SSES Unit Cost, \$/ft
Herring Run, Baltimore	1,700,000	\$12,650,000	\$7.44
Gwynn Falls, Baltimore	1,050,000	\$ 8,500,000	\$8.10
Northeast Sewershed, WSSC	462,000	\$ 2,461,000	\$5.33
Outfall, Baltimore	388,000	\$ 2,810,000	\$7.25

SSES Results are Critical to Rehab Plan

- Rehab Plan must assess the feasibility and cost effectiveness of reaching the peak flow threshold
- Rehab Plan will provide an affirmative commitment from each locality to the regional system
- These commitments will affect the sizing and performance of improvements
- EPA/DOJ are requiring a Post Implementation Performance Assessment

Other Related Costs to Consider

- MOM commitments to enhanced O&M practices and reinvestment and ongoing condition assessment in the parts of the system not considered for SSES
- SCADA and Flow Monitoring Upgrades at Pump Stations
- Upgrade costs to meet Regional Design Guidelines for Projects in Process

Conclusions

- Work under the SOC is proceeding
- SSES costs are higher than was anticipated
- **SOC costs will have a significant impact on budgets and rates for years to come**
- Estimating future costs is challenging and funding plans must be flexible
- Maintaining SOC compliance is the best defense to avoiding further EPA/DOJ involvement
- Compliance costs are in addition to usual capital, operations and maintenance costs

Recommendations

- Accept the Briefing
- Refer information to localities and HRSD for consideration