

Attachment 1A
MEETING SUMMARY
DIRECTORS OF UTILITIES COMMITTEE
November 2, 2011
Newport News

The meeting agenda was amended to allow discussion of items in the order listed below.

1. Summary of the October 5, 2011 Meeting of the Directors of Utilities Committee

There were no comments on, or revisions to the summary of the October 5, 2011 Committee meeting.

ACTION: The summary of the October 5, 2011 meeting of the Directors of Utilities Committee meeting was approved.

2. Back-up Water Sources for Hospitals

Mr. Lonnie Byrd briefed the Committee on the current projects of the Eastern Region of Virginia Hospital Emergency Preparedness Coordinating Group to increase resiliency for hospitals. Hospitals throughout Virginia are using grant funding from the U.S. Department of Health and Human Services, Office of the Assistant Secretary for Preparedness and Response (ASPR), Hospital Preparedness Program to provide emergency potable water sources. Grant funding from the same program is also being used to harden hospital electrical systems and provide for back-up power supplies.

The Virginia Department of Health and Human Services and the Virginia Department of Health cooperate on the use of ASPR funds for the development of coordinated statewide health care emergency planning. For the last 10 years, each of the six health care planning regions in Virginia received \$1.3 million annually in ASPR grant funds for hospital emergency preparedness. It is anticipated that each region will continue to receive the same level of annual funding for hospital preparedness for the next two years. In the past, hospitals have focused on projects to provide for decontamination and isolation equipment for emergency rooms, personal protective equipment, antibiotics, training, and exercises. Hospitals are currently focusing on resiliency projects that will allow facilities to shelter patients in-place. Based on the experiences of hospitals impacted by Hurricane Katrina, loss of water and power supplies caused the most detrimental impacts to hospitals. Mr. Byrd provided handouts on the Eastern Region Hospital Emergency Preparedness Coordinating Group's water and power system projects and goals, as well as a list of hospitals and jurisdictions in the Eastern Region.

All acute hospitals in the state were surveyed for resiliency and given the option to accept grant funds for emergency water systems. As private corporations, hospitals were encouraged to consult with water utilities on the best emergency plan and the

potential implementation of a back-up water system. One hospital in the Eastern Region refused the grant funding. The hospital emergency water systems are designed to support the facility for 96 hours and are only to be used as a last resort. The typical system is comprised of a well, pumping system, filtration system, temporary storage capacity for 10,000 gallons, and a distribution system. Questions regarding the implementation of projects at specific hospitals may be directed to the hospital's facility engineer. The Committee discussion and comments are summarized below:

- Most water utilities have plans and provisions to keep the system operating during an emergency. Therefore, system failure is unlikely. Rather than on-site back-up sources and treatment systems, hospitals should consider multiple facility connections to the municipal system to provide redundancy in the event of an on-site break in the water line.
- As critical facilities, hospitals are the top priority for power and water utilities. The development of on-site back-ups at some facilities could potentially impact the prioritization of these facilities and change emergency response efforts.
- Well siting and permitting issues have been problematic at some hospitals.
- The sharing of information on these types of projects encourages coordination between sectors.

ACTION: No action.

3. Staff Reports

- **Final Regional Water Supply Plan:** The Hampton Roads Regional Water Supply Plan (WSP) and the accompanying WSP Local Program Adoption Documents were submitted to the Department of Environmental Quality (DEQ) prior to the November 2, 2011 deadline. Both electronic and hard copies were submitted. Copies of the WSP Local Program Adoption Documents will be mailed to Committee members. HRPDC staff will forward to Committee members a copy of the email from DEQ acknowledging the electronic submittal.
- **Data Call – Water Rates and Water Use:** The 2011 data call for water rates, taxes, and water use information was distributed to the Committee for review on October 4, 2011. Completed data sheets should be submitted to Tiffany Smith (tsmith@hrpdcva.gov).

ACTION: No action on Staff Reports.

4. Water and Wastewater Work Program and Budget

The Committee discussed the Water and Wastewater Work Program for the next fiscal year and provided input to staff regarding program priorities, projects, and budgets. Committee comments are summarized by program area below:

HR WET:

- The program message on the importance of tap water is appreciated.
- It is recommended that no increases be requested for next year's budget.
- HR GREEN website looks good; monthly statistics on web traffic are requested.

Groundwater Mitigation:

- HRPDC staff should research cost estimates for methods to measure subsidence, including installation/restoration of monitoring stations and remote sensing methods. Simulation of subsidence through expansion of the groundwater model is not recommended.

Water Priority Projects:

- The contact list for the Water Quality Response Plan remains valuable.

Water Quality Advertising:

- The on-line distribution of water quality consumer confidence reports (CCRs) should be considered. A one-stop-shop website for the region could provide links and contacts for individual CCRs.

Source Water Protection:

- As it is unlikely that large self-supplied users will be able to quantify future demands, HRPDC staff should not proceed with outreach to such users for data collection. Historical water use data should be used to estimate future demands.
- More information is needed to develop trend data for residential per capita and per connection water demand. There is a need to assess demand decay. An estimate of the number of homes retrofitted with conservation fixtures and general conclusions for the region would be helpful. Other sources of information include billing records or new studies using surveys, polls, statistical modeling. HRPDC staff will develop options for consideration by the Committee.
- Some water sources experience impacts from extreme weather events. It would be helpful to assess mitigation options. Current study efforts by Old Dominion University and the Virginia Institute of Marine Science on subsidence and sea level rise may yield useful information. Partnering with ODU and/or VIMS is possible, but such an effort is not a funding priority.
- There is no current need to update the Source Water Protection Plans.

Legislative Concepts:

- Support a beverage container deposit law (bottle bill).

The Committee requested that HRPDC provide tallies of current fiscal year spending and carry-over spending. Draft program budgets will be considered by the Committee in January.

ACTION: No action.

5. Chesapeake Bay TMDL and Sanitary Sewer Overflows

As many localities have advocated for including sanitary sewer overflow (SSO) reductions as a nutrient management strategy for the Bay TMDL, HRPDC staff asked HRSD to develop an order of magnitude estimate of the pounds of nitrogen and phosphorus attributable to past overflows. Mr. Ted Henifin reviewed the assumptions

that contributed to a conservative estimate of 15,000 pounds of nitrogen per year associated with SSOs. This translates to approximately 10% of the total required urban load nutrient reduction. The information will be presented at the Chesapeake Bay TMDL Regional Steering Committee meeting on November 3, 2011.

ACTION: No action.

6. Other Business

- **Special Order of Consent (SOC):** The Directors of Utilities that are party to the SOC and the Joint Defense Agreement discussed the status of planning efforts and the feasibility of amending the Regional Technical Standards (RTS). The Committee agreed to proceed with SOC work in accordance with the RTS as written. It is anticipated that locality rehabilitation plans developed under the existing RTS will result in increased flows to the regional system and associated increases to regional rates.

ACTION: Withdraw the proposed amendment to Section 7 of the RTS and associated amendments to related sections.

- **Change in HRSD Billing and Remittance:** HRSD is distributing new billing statements this month and implementing new remittance procedures. HRSD will be sending correspondence to localities explaining the changes.

ACTION: No action.

Committee Meeting Sign-In Sheet
November 2, 2011

Attachment 1B

Locality/Agency	Representative	Representative	Representative	Representative
HRSD	Ted Henifin	Phil Hubbard		
Chesapeake	Jim Walski			
Franklin				
Gloucester	Martin Schlesinger			
Hampton	Jason Mitchell			
Isle of Wight	Frank Haltom			
James City County	Larry Foster			
Newport News	Reed Fowler	Everett Skipper		
Newport News	Brian Ramaley	Eileen Leininger		
Norfolk	Eric Tucker			
Poquoson	Bob Speechley	Ellen Roberts		
Portsmouth				
Smithfield				
Southampton				
Suffolk	Craig Zieseimer			
Surry				
Virginia Beach	Tom Leahy			
Williamsburg				
Windsor				
York	Brian Woodward			
HRPDC	Whitney Katchmark	Julia Hillegass	Tiffany Smith	
HRPDC				
New Kent				
DEQ				
EPA				
USGS				
VDH				
VDH				
VDH				
AECOM				
AquaLaw				
Brown & Caldwell	Richard Stahr			
CH2M-Hill				
Christian Barton				
CNA	Joel Silverman			
Hurt & Proffitt, Inc.				
McGuire Woods				
REMSA	Joe Duffy			
Troutman Sanders				
URS				
Watermark Risk Management				
Woolpert				
Eastern Region Hospital Preparedness Coordinator		Lonnie Byrd		



Purpose:

Hardening Hospital Emergency Preparedness, Assuming Loss of Supply and/or Quality

Water Systems - AquaPura®

Industrial Process Water

Potable Water

Goals

Redundancy in Main Connections

Emergency Water Delivery and Storage

Alternate Emergency Water Sources

Water Storage, Connection, and Treatment

Emergency Water for 96 Hours Maximum

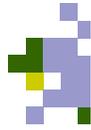
Electrical Systems – PowerSecure®

QuickPower® Switchgear on-site

Generator Evaluation

Goals

Uninterrupted Power



Hospitals

633rd Medical Group, Langley AFB, VA
Bon Secours – DePaul Medical Center
Bon Secours – Mary Immaculate Hospital
Bon Secours – Maryview Medical Center
Chesapeake Regional Medical Center
Children's Hospital of the King's Daughters
Hampton Roads Specialty Hospital
McDonald Army Community Hospital
Naval Medical Center
Rappahannock General Hospital
Riverside Doctors Hospital of Williamsburg
Riverside Regional Medical Center
Riverside Tappahannock Hospital
Riverside Walter Reed Hospital
Sentara CarePlex Hospital
Sentara Leigh Hospital
Sentara Norfolk General Hospital
Sentara Obici Hospital
Sentara Princess Anne Hospital
Sentara Virginia Beach General Hospital
Sentara Williamsburg Regional Medical Center
Shore Memorial Hospital
Southampton Memorial Hospital
Veterans Affairs Medical Center – Hampton

Jurisdictions

Accomack
Chesapeake City
Essex
Franklin City
Gloucester
Hampton City
Isle of Wight
James City
King and Queen
King William
Lancaster
Mathews
Middlesex
Newport News City
Norfolk City
Northampton
Northumberland
Poquoson City
Portsmouth City
Richmond County
Southampton
Suffolk City
Virginia Beach City
Westmoreland
Williamsburg City
York

Current Affordability Snapshot

Locality	Current Costs, \$	Percent Residential, %	# of Households	MHI, \$	Current Cost, % MHI
Suffolk	\$9,923,624	73	20,066	\$63,657	0.57
Hampton	\$7,149,113	64	58,648	\$48,844	0.16
JCSA	\$5,364,050	78	27,323	\$73,168	0.21
York	\$6,176,395	78	21,349	\$79,189	0.29
Virginia Beach	\$38,064,442	85	174,133	\$62,802	0.30
Chesapeake	\$13,740,731	94	68,377	64,410	0.29
Poquoson	\$1,211,505	91	4,662	\$84,688	0.28
Newport News	\$17,372,837	84	70,664	\$48,124	0.43
Smithfield	\$1,090,000	85	2967	\$59,872	0.52
Gloucester	\$606,517	62	1088	\$46,170	0.75
HRSD	\$164,266,000	75	455,000	\$57,315	0.47

Virginia Precedent = 1.25%

EPA High Burden = 2%

Attachment 2A
JOINT MEETING SUMMARY
DIRECTORS OF UTILITIES COMMITTEE
DIRECTORS OF HEALTH
June 1, 2011
HRPDC - Chesapeake

1. Summary of May 4, 2011 Meeting of the Directors of Utilities Committee

The Summary of the May 4, 2011 meeting of the Directors of Utilities Committee was approved.

2. Summary of December 1, 2010 Joint Meeting of the Directors of Utilities Committee and Directors of Health

The summary of the December 1, 2010 joint meeting of the Directors of Utilities Committee and Health Directors was approved.

3. Regulatory Update

Mr. Dan Horne, VDH, provided a summary of the status of regulatory actions including:

- Implementation of the Ground Water Rule (effective December 2009);
- Long Term 2 Enhanced Surface Water Treatment Rule; and
- Stage II Disinfection/Disinfection By-Products Rule.

A copy of the summary from Mr. Horne is attached.

ACTION: No action.

4. Regulations for Alternative Onsite Sewage Systems

Mr. Dwayne Roadcap, Program Manager, VDH Division of Onsite Sewage, Water Services, Environmental Engineering, and Marina Programs briefed the Committee on the draft proposed regulations for Alternative Onsite Sewage Systems (AOSS), scheduled for presentation at the June 9, 2011 Board of Health meeting.

Mr. Roadcap provided a summary of the development of the draft regulations, beginning with the legislation that resulted from the 2008 House Bill 1166, which allowed the design of AOSS using standard engineering practices to meet horizontal setback requirements and performance requirements. Emergency Regulations effective in April 2010 to April 2011 were extended 6 months and will expire October 7, 2011. Significant comments were received during the 60-day comment period that ended February 2011, prompting the formation of a third technical advisory committee (TAC) and the drafting of the current proposed regulations.

Mr. Roadcap summarized the major issues addressed during the TAC meetings:

- Wetlands and agency permitting authority: The potential impacts to wetlands associated with AOSS-supported development led to the examination of VDH's authority and DEQ's Clean Water Act authority. The draft regulations will apply in wetland areas where DEQ cannot issue an NPDES permit (e.g., isolated wetlands).
- Septic tank effluent disbursement: For large systems, the prohibition has been removed in the draft regulations.
- Chesapeake Bay TMDL: The nutrient limits on the treatment process for large systems (8 milligrams per liter at the treatment plant and 5 milligrams per liter at the project boundary) were revised because such limits encourage development of single-family homes with individual systems instead of planned communities with larger systems. The draft regulations require large systems to reduce nitrogen by 50 percent with BMPs and to demonstrate 20 milligrams per liter at the treatment plant and 5 milligrams per liter at the project boundary.
- Engineering comments: The emergency regulations were too prescriptive. The draft regulations provide more flexibility with performance-based requirements. Also, some members of the engineering community wanted compliance monitoring in the field rather than at the end of the treatment process.
- Enforcement of operation and maintenance requirements: The draft regulations are written so that an out-of-compliance sample alone does not constitute a violation. Such a sample must be coupled with a report of non-functioning system.

Mr. Roadcap accepted questions from the Committee. He described VDH's approach to achieve compliance and noted the need for agency infrastructure and capability for follow-up action. VDH is initially seeking to educate the public on expectations and will be sending letters to homeowners to encourage voluntary compliance. VDH will have to deal with non-compliance using different measures. VDH's existing database system can alert staff of overdue submittals, and the agency hopes to implement a civil penalty system of fines rather than criminal penalties.

The proposed draft regulations are designed so that homeowners will work with private sector contractors who complete monitoring and reporting to VDH. For large systems, monitoring requirements are intended to mimic sewage treatment plant regulations and will be based on flow volumes.

VDH intends to retain a consultant to create GIS data for AOSS.

Localities may develop and enforce ordinances that are more restrictive than the State regulations. It is possible for VDH to work with localities to notify applicants when proposed projects may be in compliance with the State regulations but fail to meet local regulations.

ACTION: No action.

5. Water Reclamation and Reuse Regulations

The Committee discussed proposed amendments to the Water Reclamation and Reuse Regulation (9VAC25-740). It was noted that the TAC discussed potential public health concerns related the conversion of existing potable water distribution systems or existing sewer and wastewater collection systems for distribution of reclaimed water. The Committee noted that the regulatory process is so onerous that it discourages reuse projects, specifically conversion projects where pipe marking requirements are cost prohibitive.

It was noted that DEQ's first priority is to protect the environment, followed by public health. Encouraging reuse is not an agency priority; however there is some pressure from the Legislature to encourage reuse projects. There is also pressure to reduce surface water discharges.

Regarding the reclaimed water supplier's responsibility to ensure user compliance, it was noted that service contracts and end user agreements are not uncommon in areas with more reuse history. In California, Arizona, and Florida the regulatory agency looks to the water service provider to ensure end user compliance. This idea is relatively new to Virginia and does have additional costs to the service provider. Virginia is relatively water rich and in most cases, potable water is relatively inexpensive, removing the cost-related drivers for reuse.

The comment was also made that, relative to TMDLs, nutrient reduction credits should be sought for reuse projects, although the State is not pushing to receive such credits.

ACTION: No action.

6. UASI Water Supply Assessment and Emergency Response Training Project

Mr. Matt Branigan, Watermark Risk Management International, Inc. introduced the UASI Water Supply Assessment and Emergency Response Training project and briefed the Committee on the project approach, deliverables, and timeline. A copy of Mr. Branigan's presentation and contact information is attached.

Mr. Branigan emphasized that the final deliverable will be a regional plan to serve as a roadmap for future improvement and that information will be represented at the aggregate level to demonstrate trends. Appropriate procedures will be applied to

handle sensitive security information (SSI). The project team intends to commence data collection in June and outreach to localities in July 2011. Throughout the project, the Committee is encouraged to direct questions to Whitney Katchmark, HRPDC, or Mr. Branigan. His contact information is as follows:

Matt Branigan
Watermark Risk Management International, LLC
804-467-1958
matt.branigan@wrmi-llc.com

The Committee noted that some project information presented at future Directors of Utilities Committee meetings may include SSI and should be handled during closed sessions appropriately noticed in the meeting agenda.

ACTION: HRPDC staff will coordinate project tasks with the Committee.

7. Roundtable Discussion

It was noted that mosquito season is here and that localities may want to begin preparing for appropriate control/response measures.

ACTION: No action.

BREAK (10 minutes)

The Joint Directors meeting concluded. Following the break, the meeting reconvened for topics pertaining to the Utility Directors.

8. Regional Water Supply Plan

HRPDC staff summarized the status of the Regional Water Supply Plan (WSP), indicating that the Commission briefing will be planned for July 21. Several localities have not provided comments to date. All localities must approve the same document and it would be preferable to incorporate any changes prior to beginning the local program adoption process, which could potentially be delayed if one locality requires changes to the plan after other localities have already adopted the document. Localities are encouraged to begin planning for scheduling city manager and governing body briefings, with the goal of plan adoption following July/August public hearings.

It was clarified that every local government must adopt the plan to be in compliance with the regulation; however, acceptance by the Commission is per the HRPDC process and is not a regulatory requirement. Public hearings must occur in each locality per the local government's public hearing process. Counties must adopt the plan via a resolution; however, cities and towns should use their established process for adopting an ordinance and the meeting minutes will serve to document the plan adoption. Written comments received through the local program adoption process and subsequent response letters will be included in the plan documentation. HRPDC staff

can assist in drafting response letters. HRPDC staff will compile the resolutions, meeting minutes, and written comments and responses from each local program adoption and submit these materials with the Regional WSP to DEQ by the November 2, 2011 deadline.

HRPDC staff will provide the Committee with a summary of the requirements for local program adoption. During the month of June, HRPDC staff will be contacting the localities who have not commented on the plan to seek input and advise as to local program adoption requirements. The Committee recommended the HRPDC send correspondence outlining the regulatory requirements, deadlines, and recommended actions.

In general, comments received thus far on the pre-final draft of the plan are not anticipated to result in significant changes. However, the summary of Section 7 is being revised and will be sent to the Committee for review and comment. HRPDC provided a handout summarizing locality comments received on section review drafts and the pre-final draft. The Committee indicated the status of their pre-final draft comments as follows:

- Newport News Waterworks: Comments pending.
- Chesapeake: No further comments.
- Norfolk: No further comments on Sections 1 to 6; review of Section 7 pending receipt of revised draft.
- Portsmouth: Comments pending.
- Suffolk: Comments pending.
- Virginia Beach: Comments may be pending.
- Isle of Wight: Comments pending.
- Windsor: Comments pending.

After all comments are incorporated, HRPDC staff will distribute an electronic copy of the final plan. The document must go to print by June 30, 2011 for distribution in the Commission's July agenda packet. Hard copies will be provided to the Committee as well.

It was noted that the next steps as far as the State Water Supply Plan are pending development by the advisory committee. Also, HRPDC staff has developed significant amounts of GIS data to support the plan. Pending completion of metadata documentation, staff will distribute the GIS shapefiles to localities.

ACTION: Committee members will submit comments on the pre-final draft and begin coordinating the local program adoption process. HRPDC staff will provide the Committee with a summary of local program adoption requirements, conduct outreach, incorporate all comments, and distribute the final document.

9. Staff Reports

- **Rehabilitation Guidelines, Standards and Tools (RGST) Business Rules:** The Committee discussed the Capacity Team's May 23, 2011 meeting with the Department of Environmental Quality (DEQ) to review the RGST Business Rules and application of the rules to rehabilitation plan development. DEQ had indicated that the Business Rules describe a different approach from the structure of the SOC and that staff would have to discuss whether DEQ would be amenable to this approach. DEQ had also anticipated a greater focus on basin-level cost and feasibility analysis.

The Capacity Team acknowledged that the performance-based Business Rules present a different concept from the scope-driven approach anticipated by DEQ; the Capacity Team emphasized that performance-based commitments established through the Business Rules will enable coordination of locality and HRSD rehabilitation work such that concurrently-planned Regional Wet Weather Management Plan (RWWMP) capacity improvements are appropriately sized.

The Committee discussed the budgeting component of the Business Rules. DEQ had expressed concern that the Business Rules do not result in scope and cost commitments. It was noted that DEQ's model evaluates program effectiveness based on financial commitments. The Capacity Team had emphasized that the Business Rules will result in a commitment to a budgeting process, but allows the locality flexibility in obligating spending, which benefits the customer base. The Business Rules are designed to provide rehabilitation plans developed with reasonable budgets and expectations of work. Localities should look at how the Business Rules would translate to rehabilitation plans and budgets for their system. The larger affordability discussion will be included in the development of the RWWMP and level of service.

The Business Rules will facilitate regional acceptance of plans and should streamline DEQ's plan review. It is important that DEQ understand the Business Rules and acknowledge that plans based on the Business Rules are acceptable. Further DEQ feedback is pending. A small group of Capacity Team members will be meeting with DEQ to discuss sample plans and walk through examples.

- **Private Property Infiltration and Inflow (I/I) Abatement Program:** On May 19, 2011, the HRPDC Executive Committee approved the development of a Regional Private Property I/I Abatement Program. The general concept of the program is included in the RGST Business Rules. The Capacity Team will develop program details.

- **Sanitary Sewer Overflow Reporting System (SSORS):** It was clarified that the current year budget is \$25,000 and that next year's approved budget is slightly more. HRPDC staff is coordinating with the consultant to finalize the scope of work based on the approved budget.

ACTION: No action.

10. Other Business

The Committee discussed the following items:

- **DEQ Ground Water Withdrawal Permit - International Paper Franklin Paper Mill:** DEQ staff had indicated their availability to brief the Committee on the status of the permit. This may be included in the July Committee meeting agenda.
- **Irrigation meters:** Newport News Waterworks is evaluating the potential 2013 implementation of irrigation meters and may desire to brief the Committee on findings in August/September. It was noted that a regional consensus on the implementation of irrigation meters and treatment of related issues, including sewer meters and private community water systems, may be desirable.
- **2030 Population Data Call:** HRSD is seeking population estimates to support modeling activities. It was noted that information beyond population may be necessary to more accurately project the number of sewer connections.
- **Safe Store for Utility Assets:** Newport News is moving forward with exploring the use of Maritime Administration ships to provide shelter for equipment in the event of a Category 3 storm surge. Norfolk has already made arrangements to utilize the vessels. This topic will not be included on the July Committee agenda. Localities interested in more information may contact HRPDC staff. The Committee may choose to re-engage this topic as the UASI Water Supply Assessment and Emergency Response project progresses.

Locality/Agency	Representative	Representative	Representative	Representative
HRSD	Ted Henifin			
Chesapeake	Craig Maples			
Franklin				
Gloucester				
Hampton	Lynn E. Allsbrook	Jason Mitchell		
Isle of Wight	Frank Haltom			
James City County				
Newport News	Eileen Leininger	Reed Fowler		
Norfolk	Kristen Lentz			
Poquoson				
Portsmouth	Bryan Foster			
Smithfield				
Southampton				
Suffolk	Craig Ziesemer			
Surry				
Virginia Beach	Tom Leahy	Bob Montague		
Williamsburg				
Windsor	Michael Stallings			
York				
HRPDC	John Carlock	Julia Hillegass	Whitney Katchmark	Tiffany Smith
New Kent				
DEQ				
EPA				
USGS				
VDH	Venita Newby Owens	David Trump	Jay Duell	
VDH	Dan Horne			
VDH	Dwayne Roadcap	Robert Hicks	Allen Knapp	
AECOM				
AquaLaw				
Brown & Caldwell				
CH2M-Hill	Shelly Frie	Mary Beth Jacques		
Christian Barton				
CNA	Joel Silverman			
Hurt & Proffitt, Inc.				
McGuire Woods				
REMSA	Joe Duffy			
Troutman Sanders				
URS				
Watermark Risk Management	Matt Branigan	Kurt Klingenberger		

**VDH – Office of Drinking Water
Update Items for HRPDC Meeting
1 June 2011**

1. Regulations Status Update

- **Long Term 2 Enhanced Surface Water Treatment Rule – interim primacy granted 16 Nov 2010**
 - Fewer than five VA water plants classified as Bin 2 – all others classified as Bin 1 (no additional treatment required)
 - Next round of *Cryptosporidium* monitoring not due until 2015
- **Stage 2 Disinfectants/Disinfection By-Products Rule – interim primacy granted 16 Nov 2010**
 - **Waterworks with potential problems meeting ST2 LRAAs identified**
 - 30 such potential waterworks in VA – perhaps as many as five Schedule 1 systems
 - VDH will be contacting individually concerning potential extensions
 - VDH is still defining the procedures & mechanism to use (probably a formal Exemption)
 - **Preparing for implementation of ST2 compliance monitoring**
 - Schedule 1 systems start compliance monitoring 1 Apr 2012
 - VDH will provide monitoring plan templates by this fall
 - EPA has not yet answered questions about compliance calculations during the period between 1 Apr 2012 and 1 Jan 2013
- **Ground Water Rule being implemented – regulations drafted, given tentative OK by EPA – starting APA process for adoption**
 - Implementation going smoothly



Water Supply Assessment and Emergency Response Training

Kickoff Presentation to the Directors of Utilities Committee
1 June 2011



TEAM WATERMARK



Dynamic small firm, making an impact in Critical Infrastructure Protection; National Security; Preparedness, Continuity, Resiliency. Developed the **POHR** Port Risk Management/Risk Mitigation Plan – DHS “Benchmark”



Global, full service engineering firm with local expertise in water and wastewater engineering. The leading provider of **water related work in this area** for over 30 years. Two offices, 98 employees in the Hampton Roads Region



National leader in supporting Critical Infrastructure Protection, homeland security, emergency response at all levels. Prime contractor working **with HRPDC** supporting the Hampton Roads Homeland Security Strategy



2

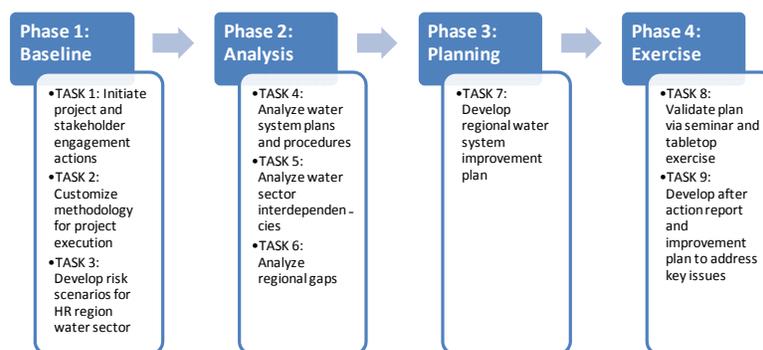
Objectives

- Assessment of current state
 - Identification of risk scenarios
 - Evaluation of existing response plans
 - Analysis of water sector critical infrastructure interdependencies
 - Gap analysis of emergency response and recovery capabilities

- Regional plan to improve emergency response and recovery
 - “Roadmap” to desired end state
 - Introduce and evaluate plan with two HSEEP compliant exercises



OUR APPROACH



Successful execution across all phases demands our unique blend of skills and expertise:

*Security Operations | Risk Analysis | Engineering | Water Sector
 Homeland Security Policy | Emergency Management | Exercise Design | Project Management*



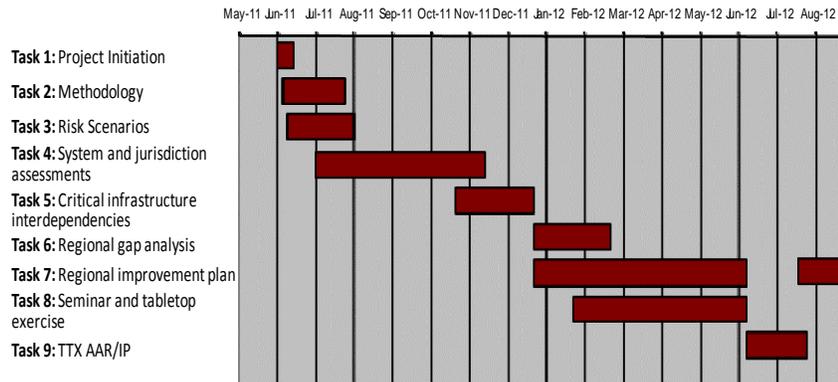
Process

- Visit/interview major water systems
 - Review security/vulnerability assessments and emergency response/management plans
 - Not an evaluation – aggregate level data collection
- Visit/interview representative smaller systems
- Visit/interview all jurisdiction's emergency management offices
- Research, benchmarking
- Deliverables ~ one week prior to committee meetings, discussions at the meeting
- Monthly updates at DUC meetings

Challenges

- Complexity of the region
- Scheduling
- Information sharing
 - Variety of formats and level of detail
 - NOT an evaluation
 - Sensitive to information security requirements
- Stakeholder review requirements
- We will do our best to be as efficient as possible and limit the impact on your time

Project Timeline



7

Phase One - June

- Methodology under development
 - Outline interview requirements, data collection protocols, etc
 - Will visit major water systems, representative sampling of smaller systems
 - Will visit each jurisdiction's emergency management offices/programs
 - Draft methodology will be provided 22 June for review and comment
 - Discuss during 6 July meeting
- Risk scenarios under development
 - ~ 8 representative scenarios
 - Outline of risk scenarios with top recommendations also provided 22 June
 - Discussions during 6 July meeting



8

THE END GAME – WHAT DO YOU RECEIVE?

- Your emergency preparedness and management **program** for continual improvement for the region's water systems
 - *Improvement Plan* with Goals, Objectives, Strategies and Initiatives
 - A *useable* roadmap to improvement with metrics and checkpoints to track progress
 - *Inclusive and comprehensive* representing all stakeholders
 - *Synergy* between systems stakeholders and emergency management officials
 - *Validated* through HSEEP compliant exercises



Contact Information

Watermark Risk Management International, LLC
Matt Branigan
804-467-1958
Matt.Branigan@wrmi-llc.com

TEAM WATERMARK



Subregion	Locality	Section 1			Section 2			Section 3			Section 4		
		Comment	Edit	Text Rev	Comment	Edit	Text Rev	Comment	Edit	Text Rev	Comment	Edit	Text Rev
Peninsula													
City of Hampton	NNWW	---	---	---	NNWW	---	---	NNWW	---	---	NNWW	---	---
City of Newport News	12/13/10	12/21/10	12/22/10	12/13/10	2/7/11	3/30/11	2/7/11	2/7/11	3/14/11	4/19/11	5/13/11	5/13/11	
City of Poquoson	NNWW	---	---	NNWW	---	---	NNWW	---	---	NNWW	---	---	
City of Williamsburg	1/20/11	(via phone)	1/28/11	3/3/11	3/4/11	3/30/11	3/3/11	3/4/11	3/14/11				
County of Gloucester	12/16/10	map rev	pre-final										
James City County	12/13/10	12/14/10	12/16/10	1/21/11	None	None	1/21/11	None	None	3/8/11	5/13/11	5/13/11	
York County	NNWW	---	---	NNWW	---	---	NNWW	---	---	NNWW	---	---	
South Side													
City of Chesapeake	12/16/10	12/20/10	12/20/10	5/31/11	None	None	5/31/11	None	None	5/31/11	None	None	
City of Norfolk	12/30/10	1/28/11	1/28/11	2/3/11	2/3/11	3/30/11	2/3/11	2/3/11	3/14/11	4/13/11	5/15/11	5/15/11	
City of Portsmouth	12/22/10	None	None	2/9/11	None	None	2/9/11	None	None	3/3/11	None	None	
City of Suffolk	12/20/10	12/21/10	MAP Rev: pre-final	3/28/11	3/29/11	3/30/11	3/7/11	3/8/11	3/14/11	3/28/11	5/13/11	5/13/11	
City of Virginia Beach	12/24/10	12/21/10	12/21/10	1/31/11	None	None	1/13/11	None	None				
Western Tidewater													
City of Franklin	12/17/10	map rev	pre-final	2/9/11	None	None	2/9/11	None	None	3/2/11	None	None	
County of Isle of Wight	12/15/10	12/15/10	12/20/10										
Town of Smithfield	12/13/10	12/14/10	12/16/10										
Town of Windsor													
County of Southampton													
Town of Capron													
Town of Courland													
Town of Ivor													
County of Surry													
Town of Clarendon													
Town of Dendron													
Town of Surry													

Subregion	Locality	Section 5			Section 6/7			Pre-Final Draft			Local Program Adoption			DEQ Submittal	
		Comment	Edit	Text Rev	Comment	Edit	Text Rev	Comment	Edit	Text Rev	Scheduled for Agenda	Public Hearing Date	Approved	Resolution Number	Date Rec'd
Peninsula															
	City of Hampton	NNWW	---	---	NNWW	---	---	NNWW	---	---					
	City of Newport News	4/19/11	5/16/11	5/16/11	5/16/11	5/16/11	5/18/11								
	City of Poquoson	NNWW	---	---	NNWW	---	---	NNWW	---	---					
	City of Williamsburg				5/25/11	None	None								
	County of Gloucester														
	James City County	3/8/11	None	None	5/10/11	5/16/11	5/17/11	5/19/11	pending	pending					
	York County	NNWW	---	---	NNWW	---	---	NNWW	---	---					
	South Side														
	City of Chesapeake	5/31/11	None	None	5/31/11	None	None								
	City of Norfolk	4/13/11	5/16/11	5/16/11	5/16/11	5/17/11	5/18/11								
	City of Portsmouth	3/3/11	5/16/11	5/16/11	5/10/11	5/17/11	5/17/11								
	City of Suffolk	3/28/11	5/16/11	5/16/11	5/16/11	5/17/11	5/18/11								
	City of Virginia Beach														
	Western Tidewater														
	City of Franklin	3/2/11	None	None	5/10/11	None	None	5/19/11	None	None					
	County of Isle of Wight														
	Town of Smithfield														
	Town of Windsor														
	County of Southampton														
	Town of Capron														
	Town of Courland														
	Town of Ivor														
	County of Surry														
	Town of Claremont														
	Town of Dendron														
	Town of Surry														

Locality	Response Received	Information Received			
		Rates	Fees	Sales	Water Use
Peninsula					
1. City of Hampton (sewer)	10/13/11	Yes	Yes	NA	NA
2. City of Newport News	10/27/11(w) 10/14/11 (ww)	Yes	Yes	NA	Yes
3. City of Poquoson (sewer)	11/4/11	Yes	Yes	NA	NA
4. City of Williamsburg	11/3/11	Yes	Yes	NA	Yes
5. County of Gloucester				NA	
6. James City County	10/21/11	Yes	Yes	NA	Yes
7. York County (sewer)	11/4/11	Yes	Yes	NA	NA
Southside					
8. City of Chesapeake	10/28/11	Yes	Yes	Yes (purchase)	Yes
9. City of Norfolk	10/31/11	Yes	Yes	Yes (sales)	Yes
10. City of Portsmouth				(sales)	
11. City of Suffolk	10/14/11	Yes	Yes	No (WTWA)	No
12. City of Virginia Beach	10/19/11	Yes	Yes	Yes (purchase)	Yes
Western Tidewater					
13. City of Franklin	10/5/11	Yes	Yes	Yes	Yes
14. County of Isle of Wight	11/8/11	Yes	Yes	No (purchase)	No
15. Town of Smithfield	10/26/11	Yes	Yes	Yes	Yes
16. Town of Windsor (water)				(sales)	
17. County of Southampton	10/24/11	Yes	Yes	NA	No
18. County of Surry	NA	NA	NA	NA	NA