

2011 VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM GRANT

Project Title: Land & Water Quality Protection in Hampton Roads

I. LEGAL APPLICANT

Name: Dwight L. Farmer, Executive Director/Secretary
Organization: Hampton Roads Planning District Commission
Street Address: 723 Woodlake Drive
City, State, Zip: Chesapeake, Virginia 23320

Project Manager: Jimontanae McBride Title: Principal Regional Planner
Phone: 757-420-8300
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II. PROJECT DETAILS

Geographic Area of Impact: Hampton Roads Planning District
Congressional District(s): 1, 2, 3, 4
Start Date: 10/01/2011 End Date: 09/30/2012

Project continuing from previous year? (yes or no) No

III. PROJECT SUMMARY *(4000 Character Limit)*

Growth and development in Virginia's coastal zone continues to increase at a rate that is disproportionate with the rest of the Commonwealth. Water quality impacts associated with urban growth are further magnified by development trends characterized by increasing impervious cover. To address these impacts, recent regulatory changes and program developments, specifically the Chesapeake Bay TMDL and revised Virginia stormwater management regulations, have resulted in the creation of nutrient reduction goals for Virginia localities. These developments require new land use approaches and development policies that will help localities reduce the impacts of land development on water quality. HRPDC staff will analyze the local consequences of these water quality requirements for urban and transitional communities and develop tools to enable localities to meet these requirements while avoiding negative impacts on natural resources. This project will utilize a pilot program approach, identifying one or two localities for each type of locality (urban or transitional) to serve as research and testing grounds. Pilot localities will be determined through HRPDC's existing regional coordination and committee processes. HRPDC staff will evaluate existing Comprehensive Plans and other documents for compatibility with new regulatory requirements and develop policy recommendations as needed. HRPDC staff will also identify potential water quality retrofits and redevelopment opportunities, including projects that will protect and/or restore blue and green infrastructure. This project will also explore the need for enabling legislation that allows localities to achieve water quality goals, including increases in the allowable tree canopy requirement. HRPDC will work with VNEMO to determine the best strategy for coordinating assistance to local governments.

Should additional funding be available for FY12, HRPDC staff will research best management practices for water quality retrofits and identify retrofit types that are appropriate to environmental conditions in Hampton Roads, with a specific focus on the selected pilot localities.

This research will be based on the results of Products 1, 2, & 3. This product will begin identifying and describing retrofits, including cost estimates and estimates of pollutant removal effectiveness, and will assess their potential for use in Hampton Roads localities.

IV. BUDGET

(This table automatically calculates totals. However, be sure to double check all figures before submitting to the Coastal Program. Double click inside the table to enter figures or other information. Please save entire file as a Word document, .doc, or .docx, not an .xls, or .xlsx.)

	Federal	Match	Total	Budget Narrative
Personnel	\$52,975		\$52,975	from personnel sheet
Fringe	\$13,244		\$13,244	HRPDC fringe rate of 25%
Equipment			\$0	
Travel	\$204		\$204	Trips to Richmond and within the Region
Supplies			\$0	
Contractual			\$0	
Construction			\$0	
Other	\$400		\$400	printing, postage, and supplies
TOTAL DIRECT	\$66,823	\$0	\$66,823	
INDIRECT	\$23,177	\$0	\$23,177	Indirect costs are estimated at 35% of direct personnel cost, in accordance with HRPDC Indirect Cost Allocation Plan, which is on file with DEQ.
TOTAL	\$90,000	\$0	\$90,000	

The following staff members have been selected to work on this project. This list may change during the duration of the project if warranted.

John Carlock, HRPDC Deputy Executive Director
Jimontanae McBride, Principal Regional Planner
Sara Kidd, Senior Regional Planner
Jennifer Tribo, Senior Water Resources Planner
Benjamin McFarlane, Regional Planner
Frances Hughey, Administrative Assistant

V. DELIVERABLES/PRODUCTS

Product #1

Title: Assessment of Water Quality Regulations Impacts

Percent of total project budget: 30%

Description (4000 Character Limit):

Product 1 will be a detailed assessment of the potential impacts of new water quality regulations resulting from the Chesapeake Bay TMDL and Virginia state stormwater management regulations on Hampton Roads localities. This will include a detailed analysis of the impacts these regulations may have on new development and redevelopment, land use policies and regulations, and local utility programs. This product will incorporate both the Phase I and Phase II Watershed Implementation Plans.

Product Format: One hard copy of written report and digital copy in Adobe Acrobat format.

Timeframe: Start: October 1, 2011

End: September 30, 2012

Product #2

Title: Tool Development: Plan Evaluation Methodology

Percent of total project budget: 30%

Description (4000 Character Limit):

Product 2 will involve research into various methods for evaluating plans for their compatibility with new water quality regulations. HRPDC staff will develop a methodology, such as a checklist, for identifying incompatibilities between localities comprehensive plans, site development regulations (such as parking, floor-area ratio, or open space requirements), other plans or locality requirements, and the new water quality regulations. This product will also include tests of this methodology with the urban and suburban localities selected as pilots for this project.

Product Format: One hard copy of written report and digital copy in Adobe Acrobat format.

Timeframe: Start: October 1, 2011
End: September 30, 2012

Product #3

Title: Tool Evaluation for Modeling Development Impacts

Percent of total project budget: 40%

Description (4000 Character Limit):

Product 3 will involve research into various methods for analyzing the environmental impacts of different development and redevelopment scenarios, including simulated changes to development regulations, land use plans, and zoning ordinances. These scenarios will simulate new development as well as retrofits and redevelopment. HRPDC staff will, in consultation with regional local government staff committees, develop a list of potential methodologies and techniques for modeling growth impacts and determine or develop an appropriate methodology for use in Hampton Roads. This product will mostly focus on existing tools, but may include some modification of those tools or development of new tools if necessary. Included in the evaluation will be Geographic Information Systems (GIS) tools and data needs. This product will result in the selection of a methodology for modeling development impacts in Hampton Roads localities.

Product Format: One hard copy of written report and digital copy in Adobe Acrobat format.

Timeframe: Start: October 1, 2011
End: September 30, 2012

VI. PROJECT TIMELINE

October 2011:	Meet with regional local government staff to review project scope and schedule.
October-11/November-11:	Analyze Final Stormwater Regulations for local government requirements.
November-11/December-11:	Research plan evaluation methodologies and modeling tools
December 1, 2011:	Project update meeting with local government staff
December-11/January-12:	Review Draft Phase II WIP for local government requirements
February 2, 2012:	Project status meeting with local government staff and pilot selection
March 2012:	Review Final Phase II WIP
April 5, 2012:	Project status meeting with local government staff
April 15, 2012:	Submit semi-annual progress & financial reports to CZM
April 30, 2012:	Draft Product 1 for local government Review
April-12/May-12:	Test plan evaluation methodology with pilot localities
June 7, 2012:	Project status meeting with local government staff
June-12/July-12:	Finalize plan evaluation methodology and selection of modeling tools for growth evaluation.

CZMA Project

July 28, 2012:	Draft Product 2 and 3 out for local government review
August 9, 2012:	Final project review meeting with local government staff
August 16, 2012:	Draft Final Report for local government review
September 13, 2012:	Final deadline for Report comments
September 25, 2012:	Final Report to printer
October 15, 2012:	Submit final narrative and financial reports to CZM
October 18, 2012	Present Final Report to HRPDC at Annual Commission Meeting