

# Hampton Roads Coastal Resources Technical Assistance Program



Fiscal Year 2010 - 2011



Virginia Coastal Zone  
MANAGEMENT PROGRAM



MARCH 2012

PEP12-02

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**HAMPTON ROADS TECHNICAL ASSISTANCE PROGRAM  
REGIONAL COASTAL RESOURCES MANAGEMENT PROGRAM  
FOR HAMPTON ROADS**

**FISCAL YEAR 2010 - 2011  
FINAL REPORT**

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**Prepared by the staff of the  
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**MARCH 2012**

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### ABSTRACT

This report describes the environmental technical assistance program conducted by the Hampton Roads Planning District Commission during FY 2010 – 2011 through its Coastal Resources Management Program. This program encompasses environmental impact review, participation in state and federal programs, coordination of regional environmental programs addressing environmental issues, including the Chesapeake Bay, wetlands, and the Albemarle-Pamlico Estuaries in North Carolina, public information and education and technical assistance to the localities. It contains representative examples of the reports, comment letters, newsletters and associated materials generated and used in assisting the region's sixteen local governments, supporting the Virginia Coastal Zone Management Program and working with the other Planning District Commissions in the Coastal Zone.

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## INTRODUCTION

In March 2010, the Hampton Roads Planning District Commission submitted a proposal to the Virginia Coastal Zone Management Program (VCZMP) for funding to continue the HRPDC's Technical Assistance Program. Through this program, the HRPDC provides technical assistance on a variety of environmental and coastal resources management issues to the sixteen cities and counties of the Hampton Roads region and to coordinate their response to those issues. It also provides assistance to the eight incorporated towns in the region as well as to a wide variety of private entities. This Program has operated successfully with financial assistance from the Virginia Coastal Zone Management Program since the Program's inception in 1986. In October 2010, the HRPDC was awarded financial assistance to maintain its Technical Assistance Program through September 2011; this assistance was later extended to December 2011. This report provides an overview of the activities and accomplishments of the Hampton Roads Technical Assistance (Regional Coastal Resources Management) Program during that period.

The Hampton Roads Technical Assistance Program is a comprehensive, interrelated initiative, providing on-call staff capability, a regional coordination mechanism, and related technical studies. It assists the region's localities on short-term local issues, ensures a collective response to regional, state and federal issues as they arise, and facilitates cooperation and coordination among the localities. The ideas for major technical studies, such as the Hampton Roads Tributary Strategy Program (including the Hampton Roads Watershed Roundtable), ongoing analysis of the impacts of the Chesapeake Bay Agreement and related regulatory initiatives, the regional green infrastructure project, coordination of regional involvement in the state's TMDL process, the Energy Efficiency and Conservation Block Grant Program and other energy issues, and the climate change initiative, as well as the staff follow-up to carry them to fruition have been provided through the Technical Assistance Program.

Of particular significance, VCZMP funding for this program has provided seed money allowing the region to undertake new environmental initiatives, such as the Regional Water Supply, Ground Water, Wastewater and Stormwater Management Programs, including the public information and education components of each. These regional initiatives, which continue to evolve, are now institutionalized and have been enhanced through dedicated local funding. These regional programs are unique examples of intergovernmental cooperation in management of coastal resources in the Commonwealth.

The Hampton Roads Technical Assistance Program also enables the HRPDC to participate in and support a number of core elements of the Virginia Coastal Zone Management Program, such as environmental impact review, wetlands and dune regulations, Chesapeake Bay Preservation Act (CBPA) regulations, air quality regulations, and the large number of state water quality programs. This participation results in cost savings to the state in terms of educating localities about state and federal initiatives and coordinating local government input to these efforts. Over the past twenty-five (25) years, several

hundred local government staff members from the region's sixteen local governments have received technical training in wetlands regulations and delineation, CBPA implementation, erosion and sediment control, stormwater management, low impact development and better site design, flood hazard management, geographic information systems, land conservation, sea level rise, and watershed management. Local government board members, staff from other PDCs, and representatives of the private sector have also participated. As a result, the effectiveness of local government implementation has increased.

Through review of environmental impact documents and coastal zone consistency determinations, the regional program has also facilitated rapid resolution of local government concerns with the impacts of state projects proposed by the Virginia Department of Transportation (VDOT), the Community College System, state supported colleges and universities and others, as well as federal projects such as port security and inspection systems, harbor dredging, military facility construction and operations, Base Realignment and Closure decisions and encroachment issues, Outer Continental Shelf Energy Development and related resource management programs.

The Technical Assistance Program allows the HRPDC to serve as a central source of environmental data and information, ranging from wetlands and soils mapping to aerial photographs, water and wastewater data and information about potential hazardous waste disposal activities for local governments and the private sector.

The FY 2010 - 2011 Hampton Roads Technical Assistance Program enabled the region's localities to continue to address, in a comprehensive and integrated fashion, all aspects of coastal resources management - the Chesapeake Bay Program, implementation of the Albemarle-Pamlico National Estuary Program with North Carolina, environmental impact review, local comprehensive planning, CBPA implementation, wetlands protection, shoreline management, climate change/sea level rise and energy initiatives, public access, and environmental database development and analysis through the HRPDC Geographic Information System (GIS). The program has allowed the continuation of regional support for and participation in the VCZMP, regional participation in other state and federal initiatives, completion of necessary technical studies, technical assistance to the region's localities and conduct of public information and education activities.

## **PROGRAM OBJECTIVES**

At the outset of the FY 2010 - 2011 Hampton Roads Technical Assistance Program, the HRPDC, in cooperation with staff from its member local governments, established six (6) objectives for the Program. These overall objectives, while expanded in scope, have remained largely the same since program inception. They are:

1. To assist the localities of Hampton Roads Virginia to implement the recommendations of the Virginia Coastal Zone Management Program, related state and federal environmental management programs as well as the Chesapeake Bay Program and related state legislation and regulations.
2. To support the Commonwealth of Virginia in implementing the VCZMP through coordination of local and regional review of environmental impact assessments/statements, applications for state and federal environmental permits and related environmental documents and by serving as an information conduit between the state and localities on coastal resource management issues.
3. To complete regional environmental studies, necessary to support local government consideration of the Chesapeake Bay Agreement priorities, including development of the Chesapeake Bay Total Maximum Daily Load (TMDL).
4. To enable Hampton Roads, Virginia to continue to play an active role in the development, implementation and refinement of the Virginia Coastal Zone Management Program, Chesapeake Bay Agreement, Chesapeake Bay Preservation Act and related environmental initiatives.
5. To improve the coordination and quality of local and regional decision-making concerning coastal and related environmental resources.
6. To increase public awareness of the value of coastal resources and of the local and regional efforts to manage them.

To accomplish these objectives, a comprehensive program was structured involving a range of activities in the following categories: VCZMP Program Support, Technical Studies, Local Assistance and Coordination, and Public Information and Education.

## **PROGRAM ACCOMPLISHMENTS**

### **VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM SUPPORT**

#### **Environmental Impact Review**

The HRPDC staff reviews and comments on all applications for state and federal regulatory permits and the associated Environmental Impact Assessments/Statements. On a monthly basis, the Hampton Roads Planning District Commission is apprised of all EIA/EIS projects that are under review. Generally, no formal action is taken by the Commission as a result of this notification; however, historically, the Commission has requested more extensive HRPDC staff and local government review of particular issues.

From October 1, 2010 through December 31, 2011, the HRPDC staff reviewed and commented on fifty-six (56) environmental impact assessments and statements for both state and federal projects; fifty-one (51) of these reviews occurred between January 1, 2011 and December 31, 2011. Projects reviewed in FY 2010– 2011 ranged widely in complexity. They included numerous U. S. Department of Housing and Urban Development projects, military construction projects, several college and university building projects, and continuing review of the 5-Year Outer Continental Shelf Oil and Gas Leasing and Alternative Energy Programs. The HRPDC, in cooperation with the localities, worked to ensure that these projects were coordinated and met local government requirements. For most projects, it is not known what the ultimate impact of PDC and local government comments may have been.

In addition to environmental impact reviews and assessments, HRPDC staff also reviews grant proposals for federal and state funding. These proposals are reviewed for local and regional impacts and significance, as well as to ensure that tasks are not duplicated. From October 1, 2010 through December 31, 2011, the HRPDC staff reviewed and commented on twenty-eight (28) grant proposals; twenty-six (26) of these reviews occurred between January 1, 2011 and December 31, 2011.

Appendix A contains a listing of all projects reviewed through this program component during the period from October 1, 2010, through December 31, 2011, as well as sample comment letters on representative projects. To improve the information available for consideration by the Commission and to facilitate tracking of local and state actions on environmental documents, the HRPDC staff developed a database and reporting system during a previous grant year. All environmental documents reviewed since July 2001 have been entered into the database.

Coordination of review and comment on environmental documents with the region's localities is frequently problematic, because of time constraints placed on the review process by the state and, in some cases, by project applicants who request expedited review from the state. Historically, environmental documents were distributed by the state to the Chief Administrative Officers in the localities. Internal distribution did not always go to the same local government staff person and frequently prevented the locality and the HRPDC from commenting within the state's time constraints. In May 2003, local government and HRPDC staff recommended that the region's Chief Administrative Officers designate specific staff persons to coordinate internal review of environmental documents. Following the internal designation of contact points, the DEQ was formally requested to distribute all documents to the designated staff contact/coordinator. After more than eight years of experience with the modified review system, it appears that the review process works much more efficiently.

Based on legislation enacted during the 1996 Session of the General Assembly, all public notices for Virginia Pollutant Discharge Elimination System, Ground Water Withdrawal, Virginia Water Protection, Hazardous Waste and Air Emissions Permits are provided to local governments and PDCs for review. To facilitate this effort, the staff developed and maintains a tracking system and database for all five types of permits.

## **Participation in State and Federal Programs**

Several state and federal environmental programs encourage use of PDCs as a cost effective mechanism for informing local governments and seeking their input for state and federal program development and accomplishment. For example, the Chesapeake Bay Program in both its 1996 and 2002 Local Government Participation Action Plans recommended better use of technical assistance providers, such as PDCs, to serve as vehicles to distribute information and outreach on Chesapeake Bay-related issues. It also suggested development of a network of local officials and staff with expertise in dealing with resource protection issues. Virginia's Regional Cooperation Act strongly recommends this type of role for PDCs. Several programs, including the Virginia Coastal Zone Management Program, do use the PDCs in this manner. Historically, NOAA's Section 312 evaluation of the Virginia Coastal Zone Management Program has recognized the benefits and cost-effectiveness of the network of PDCs in supporting the VCZMP and in assisting their member local governments. During the 2006 NOAA evaluation of the Virginia Coastal Zone Management Program, the Evaluation Team provided favorable comments on the role and activities of PDCs. Those comments were formalized in the final Section 312 Evaluation Report.

In the Hampton Roads region, the Hampton Roads Technical Assistance Program and its associated committees provide such a network. Both HRPDC staff and local government members of the HRPDC Advisory Committees frequently serve on state and federal advisory groups. On a regular basis, the participating localities request that the HRPDC staff serve as their representative to these advisory groups. Alternatively, the Committees may select a local government member to represent the region. In both cases, the HRPDC Committees provide all sixteen member localities with a mechanism to participate, at least indirectly, in the state or federal program(s). Also, data and information on Hampton Roads conditions are provided by the Hampton Roads representative (HRPDC or local government staff) to state and federal agencies on behalf of the localities, thus minimizing state and federal agency data collection and input costs. During FY 2010-2011, this program included regional participation on state regulatory panels addressing stormwater management, the Chesapeake Bay TMDL and Virginia Watershed Implementation Plans, expansion of nutrient credit exchange, groundwater, and water supply.

The HRPDC staff worked closely with state and federal agencies on coordination of programs as they affect the Hampton Roads region. This work involved follow-up to previous studies conducted by the HRPDC with VCZMP-funding, serving on advisory committees supporting plan and regulatory development, and development of new cooperative initiatives involving state, local, federal and private entities.

## **Virginia Coastal Zone Management Program**

During the grant period, the HRPDC staff continued to participate in Coastal Zone PDC meetings, contributing to the ongoing refinement of the Virginia Coastal Zone Management Program. The HRPDC staff participated in the 2010 Coastal Partners Workshop and in

Coastal Policy Team meetings on February 15 and December 1, 2011. HRPDC also attended three Coastal PDC meetings during the term of the grant in March, July, and October, 2011.

The Coastal PDCs provide a network linking all regional agencies and localities in the Coastal Zone to address environmental issues. Although somewhat more limited in scope, similar networks exist among the Coastal PDCs and their non-coastal counterparts in the southern watersheds insofar as interstate environmental issues with the State of North Carolina are concerned, and with their counterparts throughout the Chesapeake Bay Watershed on Chesapeake Bay related issues. The HRPDC staff has played an integral role in the development and enhancement of these larger networks as well.

Efforts to coordinate activities with the other Coastal PDCs in all facets of environmental planning continued throughout the year. Representative activities focused on exchanging information among the PDCs on the Chesapeake Bay Program including the Chesapeake Bay TMDL and Virginia Watershed Implementation Plan, Special Area Management Planning, Blue and Green Infrastructure, climate change, septic tanks, erosion and sediment control, stormwater management, financial issues, energy conservation, training for local government staff and general planning issues.

These efforts also involved coordination with non-coastal PDCs on the Chesapeake Bay Agreement, the Chesapeake Bay TMDL, stormwater management and follow-up activities with the State of North Carolina Albemarle-Pamlico National Estuary Program (APNEP), which is funded through the EPA National Estuary Program. The need for and desirability of coordination between the Coastal and non-Coastal PDCs will continue in the coming year in light of ongoing refinement and implementation of the Chesapeake Bay TMDL and Virginia WIP.

### **Chesapeake Bay Program**

The Hampton Roads Technical Assistance Program continues to enable the HRPDC to participate, on behalf of its member localities, in the Chesapeake Bay Program. Beginning in FY 1998-1999, this element of the Program received greatly increased emphasis through several initiatives, including the renewal of the Chesapeake Bay Local Government Advisory Committee, establishment of a Metropolitan Areas Work Group, development of the Chesapeake Bay Agreement 2000 and development of new and revised Chesapeake Bay Program Implementation Strategies. The Commission's involvement with the Chesapeake Bay Program continued with participation in the development of the Tributary Strategies and the Chesapeake Bay Watershed Model. The importance of this area of emphasis was stressed by the Commission in its reaction to staff presentations on the development of the Chesapeake Bay TMDL and related issues throughout 2010-2011.

On September 17, 2009, the U.S. EPA announced its intent to develop a TMDL for the Chesapeake Bay watershed and work with partner States and the District of Columbia to develop Watershed Implementation Plans (WIPs) before May 1, 2011. EPA issued its expectations for the development and contents of the WIPs on November 4, 2009. HRPDC staff began briefing the Commission on the development of the Bay TMDL and EPA's

requirements at the October 21, 2009 Board meeting. HRPDC staff closely followed the Bay TMDL development process throughout 2010 and 2011. Beginning in 2011, HRPDC staff organized and coordinated meetings of the newly established Hampton Roads Regional Chesapeake Bay Steering Committee. This Committee met six times during the second half of 2011 to help develop a regional response to the Chesapeake Bay TMDL. Staff continually updated the Commission and the Joint Environmental Committee on the TMDL development activities. The Commission received monthly updates and briefings from HRPDC staff throughout 2011. On March 31, 2011, a special meeting of the Commission was convened and Jeff Corbin, Senior Advisor to the EPA Administrator on Chesapeake Bay restoration, and Anthony Moore, Virginia's Assistant Secretary for Chesapeake Bay Restoration, provided briefs on the TMDL and state Watershed Implementation Plan. HRPDC staff worked with the Joint Environmental Committee and the Chesapeake Bay Steering Committee to develop a regional appendix for localities to include in their Phase II Watershed Implementation Plan submittals to DCR. This process, including coordination of the Steering Committee, was supported by financial assistance from the Department of Conservation and Recreation and the National Fish and Wildlife Foundation. As part of this appendix, HRPDC staff conducted a GIS analysis of federal and state lands within the Chesapeake Bay watershed across Hampton Roads. This analysis is discussed further in the technical studies section of this report.

### **Chesapeake Bay Program Committees**

The HRPDC monitors the work of key Chesapeake Bay Program committees including the Water Quality Goal Implementation Team and the Local Government Advisory Group. In addition, HRPDC staff serves on the Urban Stormwater Workgroup and participates in regular conference calls and the annual face to face meetings. Through the HRPDC Joint Environmental (Hampton Roads Chesapeake Bay and Regional Stormwater Management) Committees, the region's localities receive regular updates on the activities of these committees. In addition, three local government elected officials from Hampton Roads participate as representatives on the Chesapeake Bay Program's Local Government Advisory Committee. HRPDC staff provides background information and data to the region's representatives on the committee.

In FY 2010 – 2011, HRPDC staff continued to participate in conference calls of the Urban Stormwater workgroup and disseminated essential information to Joint Environmental Committee members. Topics of discussion included 1) model updates to correct land use information and 2) the launch of BMP review panels for stormwater retrofits, stream restoration, urban fertilizer management, and new State performance criteria.

### **State Chesapeake Bay Initiatives**

The major focus of regional discussions and work on Chesapeake Bay-related topics during the year was the development of Locality Phase II Watershed Implementation Plans (WIPs). As discussed earlier, HRPDC staff provided briefings to the Hampton Roads Chesapeake Bay and Stormwater Committees and the HRPDC on the TMDL and WIP development. HRPDC staff regularly attended meetings of Virginia's Chesapeake Bay Phase

II WIP - Stakeholder Advisory Group. HRPDC staff compiled comments on the Chesapeake Bay TMDL and Virginia's Phase I WIP and transmitted the Region's concerns to the EPA and Virginia's Secretary of Natural Resources. HRPDC served a key role in helping Virginia meet its Phase II goal of reaching out to local governments. DCR staff was invited to share information on the State's process at every Regional Steering Committee meeting. HRPDC coordinated with DCR to hold a training session for local governments on Virginia's Assessment and Scenario Tool (VAST) that was developed so local governments could submit preferred scenarios to Virginia for use in the Phase II WIP.

### **Other State and Federal Advisory Committees**

The HRPDC staff represents the region's localities on a number of other state and federal agency advisory committees. They include:

1. DEQ, Coastal Policy Team
2. DCR, BMP Clearinghouse Committee
3. DCR, Stormwater Management Regulations Technical Advisory Committee.
4. DEQ, Water Supply Planning Advisory Committee
5. DCR, Plant More Plants Steering Committee
6. DEQ, Groundwater Reuse Committee
7. DCR, Chesapeake Bay TMDL Phase II WIP Stakeholder Advisory Group

Involvement on these Committees includes participation in meetings, review of extensive draft materials, briefing and coordination with local government staff and the Commission, and provision of input reflecting the views of those groups to the Advisory Committee and state or federal agency staff.

In addition, local government staff have frequently been chosen through the regional coordination process to serve on advisory committees addressing a number of concerns, including stormwater management, water supply planning, dam safety, wetlands regulations, , nutrient reduction technology for wastewater, nutrient trading, and CBPA implementation. In each of these cases, the HRPDC staff provides support to the region's representative and ensures that the local governments have an opportunity through the regional coordination process to have input to the state effort.

## **TECHNICAL STUDIES**

As part of its work on the Chesapeake Bay TMDL, HRPDC staff worked with local and regional partners to develop a GIS database of federal and state properties in the Hampton Roads region that are within the Chesapeake Bay watershed. This work occurred in two phases. First, HRPDC staff compared available datasets from the U.S. Navy, U.S. EPA, and HRPDC (which included state and local protected lands) to identify inconsistencies between the datasets. Later, HRPDC staff incorporated locality property data to provide a more comprehensive assessment of local and regional data on federal land ownership. The initial analysis was distributed to the Chesapeake Bay Steering Committee and is included in Appendix B. The final analysis was incorporated into the regional Phase II WIP appendix.

Overall, the datasets were mostly consistent with each other; however, several significant inconsistencies or inaccuracies were identified in the EPA dataset. Specifically, the EPA dataset did not contain the NASA Langley Research Center (~722 acres), the Jefferson Lab facility (~221 acres), the Veterans Affairs Hospital in Hampton (~100 acres), or a section of the Yorktown Naval Weapon Station (~120 acres). In addition, the EPA dataset assigned nearly 2,500 extra acres to the Norfolk Naval Station in Norfolk, nearly 120 additional acres to Ft. Eustis in Newport News, approximately 200 additional acres to the Craney Island Facility in Portsmouth, and approximately 262 additional acres to Joint Base Little Creek in Virginia Beach, among others. In addition, the EPA dataset assigned federal properties in York County and Suffolk to the Navy, when in fact they are owned and maintained by the Department of the Interior.

## **LOCAL ASSISTANCE AND COORDINATION**

### **Technical Assistance**

This element of the Hampton Roads Technical Assistance Program entails staff support and assistance to local governments and private entities as they address key coastal resources and other environmental issues such as TMDLs, habitat restoration, riparian buffer creation and protection, energy, climate change, aspects of the Chesapeake Bay Program, wetlands and dune protection, and nonpoint source pollution in their comprehensive planning process and related activities. Specific local projects to be addressed through this element are identified by the localities throughout the grant year. These requests encompass assistance on grant proposals, assistance on permit issues, identification of state or federal agencies that may be of assistance for local projects, information about legislation or regulations, identification of technical resources that may be useful to a locality in developing a study, and responding to an elected official's request for information. The localities and others frequently turn to the HRPDC for assistance on GIS mapping and analysis projects. Through this element of the program, the HRPDC staff also assists private entities, such as the Back Bay Restoration Foundation, Elizabeth River Project, Friends of Powhatan Creek, Hoffer Creek Wildlife Foundation, Lynnhaven River NOW and others in their environmental planning and restoration initiatives. Aerial

photographs and additional technical information on wetlands, hazardous waste sites, and soils are provided to private consultants.

The HRPDC staff continued to work with representatives of the affected local governments in their review, evaluation and use of recent PDC environmental management reports. The focus of this effort has been on the review and use of the two regional green infrastructure plans, regional climate change research and analysis, and various stormwater and water resource management studies. Discussions have also taken place regarding regional land use and land cover data to be collected for use in technical analysis for, among other uses, Chesapeake Bay TMDL compliance.

The HRPDC staff continued to advise the region's sixteen localities on environmental issues in conjunction with development of and revisions to local comprehensive plans, development regulations and related issues. The primary issues addressed through this program continue to be state and federal Wetlands Regulatory Programs, Stormwater Management Programs, groundwater issues and all facets of the Chesapeake Bay Program. All of the region's member localities have received individual assistance through this program during the past year. An increasing emphasis of local government support on environmental issues has been in the legislative and regulatory arena. During FY 2010 – 2011, the areas of emphasis included stormwater management, groundwater issues, the Chesapeake Bay TMDL, and compliance with the Chesapeake Bay Preservation Act.

The HRPDC staff continued development and enhancement of the region's Geographic Information System, using ARCGIS software. The HRPDC staff continued to work with the localities, other PDCs and state agencies in both Virginia and North Carolina in coordination of GIS planning and implementation. With the HRPDC system now fully functional, a concerted effort is being made to take advantage of this technology in all HRPDC technical studies. GIS development activities have focused on support for ongoing grant-funded technical studies, comprehensive planning services, local government requests, and other ongoing HRPDC programs. Specific examples include documenting and mapping federal and military facilities to support the Hampton Roads Military and Federal Facilities Alliance, mapping local water with impairments to support Chesapeake Bay TMDL planning efforts, providing maps for the region's Water Supply Plan, and providing maps for the development of the Hampton Roads Transportation Planning Organization's 2034 Long-Range Transportation Plan. Appendix C contains samples of maps produced through the GIS program to support HRPDC technical studies and technical assistance requests from localities and other groups.

### **Regional Coordination Process**

The Hampton Roads Technical Assistance Program enables the HRPDC to maintain the regional coordination process on environmental issues through the Hampton Roads Joint Environmental Committee, comprised of the Chesapeake Bay Committee and the Regional Stormwater Management Committee, while also providing links to other ongoing regional environmental programs. This element supports local government implementation of the Chesapeake Bay Preservation Act, Chesapeake Bay TMDL, coastal resources management,

and other state and federal environmental programs. Links to other HRPDC environmental committees, addressing stormwater, wastewater, water supply, and groundwater management, as well as the Chesapeake Bay Program and North Carolina environmental initiatives are maintained through HRPDC staff support and common Committee memberships from both the region's localities and state agencies.

Historically, a major emphasis of the regional coordination process has been on work with the local governments in responding to the Chesapeake Bay Preservation Act implementation process, while ensuring that local efforts may take advantage of other related initiatives. The Hampton Roads Chesapeake Bay Committee is the primary institutional mechanism for accomplishing this. The Chesapeake Bay Committee has worked to coordinate development, refinement, and implementation of local programs to comply with the Bay Act Regulations. During FY 2010 – 2011, the Committee primarily focused on the Chesapeake Bay TMDL.

During the course of the grant year, the HRPDC staff continued coordination of the ongoing consideration by the region's localities of various watershed issues. Because of issues associated with stormwater regulations and the Chesapeake Bay TMDL, the HRPDC staff and Committees focused on those issues during the year. Therefore, attention to watershed issues was reduced when compared to previous years. In addition to the Chesapeake Bay Committee, HRPDC staff coordinated local government and non-governmental responses to environmental issues through the Chesapeake Bay TMDL Steering Committee and the Hampton Roads Watershed Roundtable.

The following points summarize the activities of the Hampton Roads Chesapeake Bay Committee during the year. Most meetings were joint meetings with the Regional Stormwater Management Committee. (To simplify this discussion, joint meetings of these committees are referred to as meetings of the HRPDC Joint Environmental Committees.) Because of the close link between the activities of those Committees, this section also addresses the activities of the Regional Chesapeake Bay Steering Committee and the Hampton Roads Watershed Roundtable.

- October 7, 2010 – This was a meeting of the Joint Environmental Committee. HRPDC staff briefed or updated the Committee on the Chesapeake Bay TMDL, the Virginia WIP, Coastal Zone Management Program Section 309 strategies, stormwater regulations, the regional climate change study, and the HRPDC application for a Sustainable Communities Regional Planning Grant. HRPDC staff led a discussion of legislative priorities. Staff from Virginia Beach and Chesapeake contributed to the stormwater regulations briefing. The Committee recommended two annual reports, the Regional Cooperation Summary and the HR Storm Report, to be approved by the HRPDC.
- November 4, 2010 – This was a meeting of the Joint Environmental Committee. Virginia Beach staff gave a presentation to the Committee on Virginia Beach's proposed Integrated Site Design Guide. DCR-CBLA staff updated the Committee on

the status of compliance evaluations. In addition, HRPDC staff updated or briefed the Committee on the Chesapeake Bay TMDL, state stormwater regulations, and regional principles on legislation for the next General Assembly Session. The Committee also discussed matters related to the FY2012 Stormwater Program budget.

- December 2, 2010 – This was a meeting of the Joint Environmental Committee. U.S. Navy representatives gave a presentation to the Committee on a green roof project at Naval Station Norfolk. In addition, HRPDC staff briefed the Committee and led discussions on the Chesapeake Bay TMDL, state stormwater regulations, the EPA stormwater rulemaking, regional trails, and alternative onsite sewage systems legislation and regulations.
- December 3, 2010 – This was a meeting of the Hampton Roads Watershed Roundtable. HRPDC staff gave presentations on regional green infrastructure planning efforts and climate change research. The group discussed potential topics for future Roundtable meetings.
- January 6, 2011 – This was a meeting of the Joint Environmental Committee. HRPDC staff gave presentations on the Chesapeake Bay TMDL, regional land cover data, and the U.S. Department of Housing and Urban Development’s Sustainable Communities Regional Planning Grant Program. HRPDC staff relayed comments from HUD concerning the HRPDC grant application from the previous August.
- February 3, 2011 – This was a meeting of the Joint Environmental Committee. HRPDC staff updated the Committee on changes to Virginia’s Stormwater Management Regulations, the Chesapeake Bay TMDL, and the Commission’s legislative agenda. Staff from VDOT gave a presentation to the Committee on new guidelines VDOT is using to address new stormwater regulations. Staff from HRTPO briefed the Committee on a regional land use data project.
- February 3, 2011 – This was a meeting of the Hampton Roads Watershed Roundtable. The meeting included presentations on the Chesapeake Bay TMDL and regional efforts to respond.
- March 3, 2011 – This was a meeting of the Joint Environmental Committee. Staff from the City of Hampton gave a presentation on the City’s efforts to obtain and develop high resolution impervious cover data. HRPDC staff updated the Committee on the Chesapeake Bay TMDL and other TMDLs in the region. HRPDC staff gave presentations on regional land use/land cover data possibilities and the Commission’s Coastal Zone Management Technical Assistance Program. The Committee also discussed potential changes to the Committee’s structure meeting and schedule.

- April 7, 2011 – This was a meeting of the Joint Environmental Committee. Staff from the Virginia Department of Emergency Management gave a presentation to the Committee on the process for applying for and receiving Hazard Mitigation grant funds. HRPDC staff updated the Committee on the Chesapeake Bay TMDL and Virginia Stormwater Management Regulations. HRPDC staff also presented updates on regional climate change work, regional trails, and the Plant More Plants campaign. HRPDC staff also presented the FY11-12 Unified Planning Work Program to the Committee for its review and comment.
- May 5, 2011 – This was a meeting of the Joint Environmental Committee. Staff from the Department of Conservation and Recreation gave a presentation to the Committee on the Chesapeake Bay TMDL Phase II Watershed Implementation Plan. HRPDC staff updated the Committee on stormwater issues, HUD’s Sustainable Communities Regional Planning Grant Program, the Kodak Greenway Grant program, HRPDC’s climate change work, regional land cover/impervious surface data, and environmental education programs.
- June 2, 2011 – This was a meeting of the Joint Environmental Committee. Representatives from the University of Virginia and VDOT gave a presentation to the Committee on a study analyzing the impacts of climate change on regional transportation planning for projects and policies. HRPDC staff gave a presentation to the Committee on the results from the second year of HRPDC climate change work, as well as a summary of subsidence research conducted by Dr. John Boon of the Virginia Institute of Marine Science. The meeting also featured updates and briefings from HRPDC staff on a National Fish and Wildlife Foundation Grant opportunity, proposed wetlands delineation guidance regulations from EPA and USACE, and the Chesapeake Bay TMDL.
- July 7, 2011 – This was a meeting of the Joint Environmental Committee. VIMS staff gave a presentation to the Committee on living shorelines, including the requirements of SB964 regarding local regulations and comprehensive plans. Staff from VDH and VDHCD gave a presentation to the Committee on regulations and guidance concerning rainwater harvesting. HRPDC staff updated the Committee on the Chesapeake Bay TMDL Phase II Watershed Implementation Plan. HRPDC staff also gave presentations to the Committee on HUD’s Sustainable Communities Regional Planning Grant program, developments with aquaculture regulations and potential legislation, and an in-development client survey.
- July 14, 2011 – This was a meeting of the Chesapeake Bay Steering Committee. This meeting featured presentations from DCR and HRPDC staff and a facilitated discussion of locality needs, priorities, and concerns regarding the Chesapeake Bay TMDL.
- August 4, 2011 – This was a meeting of the Joint Environmental Committee. Staff from VMRC gave a presentation to the Committee on the requirements of SB964 and

the implications of the to-be-developed general permit for living shorelines. HRPDC staff updated the Committee on the HR Green program and the Chesapeake Bay Phase II Watershed Implementation Plan. HRPDC staff also briefed the Committee on the draft environmental assessment for a proposed offshore wind lease program.

- August 4, 2011 – This was a meeting of the Chesapeake Bay Steering Committee. The meeting included presentations on GIS data relevant to the Chesapeake Bay TMDL as well as the relationship between the Phase II WIP and MS4 permits. The meeting also included a discussion of regional priorities related to the TMDL.
- September 1, 2011 – This was a meeting of the Joint Environmental Committee. Staff from VDH gave a presentation to the Committee on regulations concerning septic tank systems, including alternative onsite sewage systems. HRPDC staff updated the Committee on the Chesapeake Bay TMDL Phase II Watershed Implementation Plan, aquaculture, coastal zone management grant applications, and HUD’s Sustainable Communities Regional Planning Grant program.
- September 1, 2011 – This was a meeting of the Chesapeake Bay Steering Committee. The meeting featured presentations from the Navy on its Chesapeake Bay TMDL efforts and from VDH on alternative onsite sewage systems and WIP strategies impacting septic systems.
- September 14, 2011 – This was a meeting of the Hampton Roads Watershed Roundtable. The focus of this meeting was on local and regional efforts to incorporate sustainability into planning decisions and policies.
- October 6, 2011 – This was a meeting of the Joint Environmental Committee. Staff from James City County gave a presentation to the Committee on the status of the Chesapeake Bay Watershed Nutrient Credit Exchange Program. Staff from the Institute for Environmental Negotiation gave a presentation on a potential dialogue between EPA, the Navy, and the Cities of Chesapeake, Norfolk, Portsmouth, and Virginia Beach that would address stormwater issues in the Elizabeth River watershed. HRPDC staff updated the Committee on the Chesapeake Bay TMDL Phase II Watershed Implementation Plan.
- October 6, 2011 – This was a meeting of the Chesapeake Bay Steering Committee. The meeting included a presentation from Richmond city staff on efforts to encourage private property owners to install BMPs, as well as a report on needed septic system legislation.
- November 3, 2011 – This was a meeting of the Joint Environmental Committee. Virginia Department of Forestry staff gave a presentation to the Committee on urban tree canopy analysis. HRPDC staff gave a presentation to the Committee on the Great American Cleanup and a kickoff event that will be hosted in Hampton

Roads. HRPDC staff also updated the Committee on regional trails and the Chesapeake Bay TMDL Phase II Watershed Implementation Plan.

- November 3, 2011 – This was a meeting of the Chesapeake Bay Steering Committee. The meeting included presentations on the use of monitoring data to measure the effectiveness of management actions and the impact of reducing or eliminating sanitary sewer overflows on urban stormwater loads. HRPDC staff updated the Steering Committee on the status of the Phase II WIP.
- November 28, 2011 – This was a meeting of the Hampton Roads Watershed Roundtable. The meeting included presentations from Virginia Clean Cities, TFC Recycling, and Chesapeake city staff on their efforts to promote the use of and develop the capacity to use alternative fuels, specifically compressed natural gas.
- December 1, 2011 – This was a meeting of the Joint Environmental Committee. Staff from DCR gave a presentation to the Committee on new requirements for local stormwater management programs. HRPDC staff updated the Committee on regional climate change initiatives, working waterfronts work with VIMS, and the Chesapeake Bay TMDL Phase II Watershed Implementation Plan. HRPDC staff also led discussions with the Committee on the impact of new water quality regulations on local plans and policies and on the Commission’s legislative agenda.
- December 1, 2011 – This was a meeting of the Chesapeake Bay Steering Committee. The meeting included a presentation from HRPDC staff on identifying cost effective BMPs and a draft BMP decision matrix developed by HRPDC staff. HRPDC staff also updated the Steering Committee on the federal/state lands GIS analysis and the status of the Phase II WIP.

Through the regional coordination process, the HRPDC works to ensure that local government planning and implementation activities in the areas of stormwater management, water supply and groundwater management, wastewater, Chesapeake Bay Preservation Act and Virginia Coastal Zone Management Program are coordinated and mutually supportive. The synergy inherent in this coordination process provides opportunities for local government innovation and enhancement of activities in each of these areas.

### **Environmental Strategic Planning Process**

The HRPDC staff continues to work with the HRPDC Hampton Roads Chesapeake Bay, Regional Stormwater Management, and Directors of Utilities Committees, as well as the four regional environmental education programs, to evaluate and enhance the HRPDC Environmental Planning Program. This effort is directed at ensuring that HRPDC activities assist the localities in the most cost-effective and comprehensive fashion. This has resulted in a number of improvements to HRPDC program management and direction and has enhanced the effectiveness of several regional positions.

Accomplishments of this ongoing strategic planning effort include:

- Integration of regional environmental education programs.
- Preparation of several environmental education materials through HR Green.
- Review, analysis, and preparation of regional comments regarding water quality standards, nutrients, stormwater regulations, and the Chesapeake Bay restoration.
- Increased involvement of the Commission in addressing these issues.
- Examination of cross-cutting issues, such as watershed management planning, bacteria source tracking, sea level rise, and selection of BMPs to meet local planning objectives for green space, minimizing encroachment, and protecting drinking water reservoirs.

## **PUBLIC INFORMATION, EDUCATION AND TRAINING**

An integral component of the Hampton Roads Technical Assistance Program is the provision of public information and education on environmental issues in the Hampton Roads region. Provision of public information and education was identified by the participating localities at the outset of the program in 1986 as a critical need that could be met cooperatively through the HRPDC. Since that time, the HRPDC staff has provided written communications and briefings to the Commission and a wide range of interest groups on environmental issues and has provided regular briefings to many of those groups. These efforts continued during the grant year.

To ensure that the members of the HRPDC are kept informed about the status of ongoing HRPDC environmental program activities and pending environmental issues that may affect the Hampton Roads region, Project Status Reports on the HRPDC Coastal Resources Management Program and related issues are included in the Monthly Agendas for the HRPDC Executive Committee and Commission Meetings. In addition to the written Agenda materials, the HRPDC staff also routinely briefs the Commission on environmental issues of importance. During the year, briefings were given to the HRPDC on the following topics: the Chesapeake Bay TMDL, climate change and sea level rise, the Sustainable Communities Regional Planning Grant Program and sustainability initiatives, stormwater management, solid waste, sanitary sewer overflows, the regional water supply plan, and HR Green, the HRPDC's environmental education and outreach program.

The HRPDC staff has provided briefings on regional environmental programs, environmental issues and state and federal regulations to a variety of groups. They include civic leagues, business and professional organizations, service clubs, schools and interest groups. The HRPDC staff has presented papers on related HRPDC technical studies and

programs at several state, regional, and national conferences. A number of briefings were also provided to state agency Boards, Legislative Commissions, local government Planning Commissions, City Councils/County Boards, and Town Councils on regional environmental projects and issues.

During the grant period, HRPDC staff represented the region in several major panels and presentations on environmental issues. These include stormwater management, the Chesapeake Bay TMDL, groundwater, climate change and sea level rise, water supply, and pesticides. A number of these presentations addressed multiple programs. Programs and activities covered included water supply planning, green infrastructure, TMDL regulations, pollution prevention, the overall HRPDC water resources program, watershed modeling, wetlands regulations, regional environmental education initiatives, and the regional stormwater management program. These meetings and presentations included:

- Presentation to Mid-Atlantic Regional Planning Roundtable, “Visioning Sustainability – Hampton Roads, Virginia” – October 1, 2010
- Presentation and Panel Discussion as part of forum sponsored by Cabell Brand Foundation, “Climate Change, Sea Level Rise, and Hampton Roads” – November 15, 2010
- Presentation to Virginia Coastal Zone Partners Workshop, “Climate Change and Sea Level Rise in Hampton Roads” – December 7, 2010
- Presentation to Virginia Coastal Zone Partners Workshop, “Green Infrastructure Planning in Hampton Roads” – December 7, 2010
- Presentation at Special MS4 Workshop held by Virginia Water Monitoring Council, “Engaging in TMDL Development and Implementation” – December 8, 2010
- Presentation at Special MS4 Workshop held by Virginia Water Monitoring Council, “Social Marketing and MS4s” – December 8, 2010
- Presentation to Isle of Wight Board of Supervisors, “Chesapeake Bay TMDL” – January 6, 2011.
- Presentation to ODU online class, “Climate Change, Sea Level Rise, and Hampton Roads” – February 2, 2011
- Presentation to Hampton Comprehensive Waterway Study Committee, “Regional Water Management Issues in Hampton Roads” – March 1, 2011
- Presentation at Virginia Lakes and Watersheds Conference, “Engaging in TMDL Development and Implementation” – March 7, 2011

- Presentation to Smithfield Town Council, “Stormwater Regulations and the Town of Smithfield” – March 29, 2011
- Presentation and facilitation at Virginia Beach Sea Level Rise Listening Sessions – March 30-31, 2011
- Presentation at Environment Virginia Conference, “Chesapeake Bay TMDL and Watershed Implementation Planning for Hampton Roads” – April 6, 2011
- Presentation to York River Group, Sierra Club, “Sea Level Rise in Hampton Roads” – April 20, 2011
- Presentation to ODU Planning Class, “Climate Change and Sea Level Rise in Hampton Roads” – April 25, 2011
- Presentation to Chesapeake Bay Program Citizen Advisory Committee, “Chesapeake Bay TMDL and Watershed Implementation Planning for Hampton Roads” – May 5, 2011
- Presentation to Kempsville Ruritan Club on the Chesapeake Bay TMDL and Stormwater Management – September 19, 2011
- Participation in FHWA Partner Exchange for Climate Change Adaptation Pilot Projects – September 26-27, 2011
- Presentation at NASA Langley Climate Change Adaptation Workshop, “Planning for Climate Change in Hampton Roads: Local and Regional Approaches” – September 28, 2011
- Presentation to NOAA Hydrographic Services Review Panel, “Regional Planning for Sea-Level Rise in Hampton Roads” – October 26, 2011
- APA Webinar Presentation on the Chesapeake Bay TMDL – November 1, 2011
- Presentation at ODU GIS Day, “Using GIS to Plan for Sea Level Rise in Hampton Roads” – November 11, 2011
- Presentation to Current Issues in Storm Water Regulation Seminar (Lorman Education Services) – December 8, 2011

In 2011, the region’s environmental education committees – formerly known as the Hampton Roads Water Efficiency Team (HR WET), HR STORM, HR FOG (Fats, Oils, and Grease) and HR CLEAN – merged to form a single comprehensive environmental education and awareness organization, askHRgreen.org. This organization continues to work together

to address common issues and to enhance the effectiveness of their educational programs in the areas of water efficiency and awareness; stormwater pollution prevention; recycling and beautification; and fats, oils, and grease prevention. This is an ongoing effort, which requires consensus among a wide range of local government departments. To date, these efforts have focused on improving the cost-effectiveness of media contracts, distributing funding through an educational mini-grant program, the purchase of educational giveaways such as reusable shopping bags, and production of joint advertising in regional publications.

On a quarterly basis through July 2010, the HRPDC prepared and distributed a newsletter, Hampton Roads Review, to nearly 3,000 individuals and groups throughout Hampton Roads. In August 2010, HRPDC replaced the newsletter with an online publication ([www.hrpdcva.gov/HamptonRoadsReview](http://www.hrpdcva.gov/HamptonRoadsReview)) and an e-mailed "HRPDC Weekly Update," which is distributed to nearly 4,000 individuals. To enhance the effectiveness of all HRPDC public information materials, HRPDC Special Reports on specific topics, such as the previously mentioned mapping of federal and military facilities in the region, may be developed and distributed to supplement the regular newsletter. All newsletters and special reports are now distributed electronically. Samples of various publications are included in Appendix D.

The HRPDC staff has devoted considerable attention and effort over the past year to the continued refinement of the Commission's web page ([www.hrpdcva.gov](http://www.hrpdcva.gov)). The website contains copies of all newsletters, complete copies of HRPDC technical reports and an overview of Commission activities. All Commission and most committee meeting agenda materials are now posted and available on the HRPDC website. It now contains an extensive section devoted to the HRPDC environmental planning program, including links to a number of other federal, state, local, and private sector sites. Efforts to further enhance the website remain ongoing. A Commission Action Summary is posted to the Hampton Roads Review online publication after each meeting, and the meetings can be viewed on YouTube in their entirety.

Through the Hampton Roads Joint Environmental Committee, HRPDC staff has provided or facilitated training on a variety of topics to localities. Subjects over the past year included:

- Living Shoreline Regulations and Policies
- Local Stormwater Management Program Requirements
- Alternative Onsite Sewage System Regulations
- Hazard Mitigation Grants

## CONCLUSIONS

Through the Hampton Roads Technical Assistance Program, the HRPDC has provided technical assistance to its member local governments and others; has delivered public information and education to the citizens and government officials of the region; has conducted important technical studies; and has coordinated a regional approach to participation in state and federal environmental programs, while also providing cost-effective support to the Virginia Coastal Zone Management Program.

The Hampton Roads Technical Assistance Program conducted through the VCZMP is a cost-effective solution to the need for environmental cooperation and coordination in the Hampton Roads Region of 3000 square miles and 1.7 million residents. It provides a vehicle for the sixteen member local jurisdictions, a number of state and federal agencies and others to exchange information and develop coordinated approaches to environmental management issues, while concurrently providing technical support for routine local government planning and management activities. Based on state and federal legislative and executive branch responses to comments and recommendations developed through this process, it is an effective means for the region's localities to communicate their views on environmental issues. It also provides a cost-effective means of ensuring that this region can participate in and support important environmental initiatives of the Commonwealth, such as the Virginia Coastal Zone Management Program and the Chesapeake Bay Program. It also appears to be a cost-effective mechanism for the Virginia Coastal Zone Management Program and related state environmental programs to use in communicating with and soliciting input from local government. Over the years, funding from the VCZMP through the Hampton Roads Technical Assistance Program has provided the region with the seed to establish a number of new regional programs in the areas of water supply planning and coordination, watershed management, stormwater management and environmental education. The HRPDC and its member local governments continue to believe that the Hampton Roads Technical Assistance Program is an extremely valuable and cost-effective approach to environmental planning and management in the Hampton Roads Region.

**APPENDIX A**  
**LISTING OF ENVIRONMENTAL IMPACT REVIEWS**  
**AND REPRESENTATIVE COMMENT LETTERS**

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## 2010-2011 Environmental Impact Reviews

Received	DEQ #	Name	Sponsor	Affected Localities	Sent
10/15/2010	10-151F	AST System Rehabilitation at U.S. Coast Guard Station Little Creek	DHS/U.S. Coast Guard	Virginia Beach	11/12/2010
10/19/2010	10-153S	New Science Building (Amendment)	Christopher Newport University	Newport News	11/12/2010
11/2/2010	10-159F	Expansion & Modernization of the Navy MWR Marina, Joint Expeditionary Base Little Creek	DOD/Department of the Navy	Virginia Beach	11/29/2010
11/16/2010	10-163F	Riverview Lofts	U.S. Department of Housing and Urban Development	Norfolk	12/14/2010
12/6/2010	10-169F	Mason Creek Canal Bulkhead Replacement, Naval Station Norfolk	DoD/Department of the Navy	Norfolk	12/28/2010
12/7/2010	10-174F	Revision and Reissuance of Regional Permit 5 for the Construction of Small Impoundments	U.S. Army Corps of Engineers, Norfolk District	HRPDC	1/6/2011
12/13/2010	10-176S	Resident Hall V	Christopher Newport University	Newport News	1/6/2011
1/4/2011	11-002F	Nationwide Use of High Frequency and Ultra High Frequency SONAR Technology	DHS/U.S. Coast Guard	Virginia Beach	1/21/2011
1/5/2011	11-003F	Correct Drainage Problems at USCG CAMSLANT Chesapeake	DHS/U.S. Coast Guard	Virginia Beach	2/7/2011
1/13/2011	11-012F	Repairs to Existing Rip Rap Stabilization Structure at Piers A & C, Craney Island	DOD/Department of Navy	Portsmouth	2/11/2011
1/19/2011	11-014F	York River Pier Repair at USCG Training Center Yorktown	DHS/U.S. Coast Guard	York County	2/16/2011
1/26/2011	11-017F	Marine Corps Security Force Regiment Consolidation, Naval Weapons Station Yorktown	DOD/Navy	York County	2/23/2011
2/7/2011	11-019F	Transmitter Antenna Replacement at USCG CAMSLANT	DHS/U.S. Coast Guard	Virginia Beach	3/3/2011
3/3/2011	11-029S	Master Plan Parking Lots	Christopher Newport University	Newport News	3/25/2011
3/10/2011	11-036S	Wild Duck Lane Property Acquisition	Virginia Port Authority	Portsmouth	4/11/2011
3/15/2011	11-039S	Warehouse E Newport News Marine Terminal	Virginia Port Authority	Newport News	4/8/2011
3/17/2011	11-042S	Norfolk & Portsmouth Belt Line Rail Yard Reconstruction	Virginia Port Authority	Norfolk	4/8/2011
3/22/2011	11-051F	Mooring Upgrades to Pier 1, Naval Station Norfolk	DOD/Department of the Navy	Norfolk	4/20/2011
3/23/2011	11-048F	Construction of Parking Lots at the New Town Project	NASA	Hampton	4/20/2011
3/23/2011	11-050S	Student Center, Tidewater Community College	Virginia Community College System	Portsmouth	4/15/2011
3/30/2011	11-056F	Demolition of Building C at Lafayette River Annex, Naval Station Norfolk	DOD/Navy	Norfolk	4/22/2011

<b>Received</b>	<b>DEQ #</b>	<b>Name</b>	<b>Sponsor</b>	<b>Affected Localities</b>	<b>Sent</b>
3/30/2011	11-057F	The Spectrum at Willoughby Point (Phase I)	U.S. Department of Housing and Urban Development	Norfolk	4/22/2011
4/7/2011	N/A	Environmental Assessment (EA) for proposed Force Structures Changes at Langley AFB, VA	DOD/U.S. Air Force	Hampton	4/29/2011
4/19/2011	11-075F	Wormley Creek Pier Extension	DHS/U.S. Coast Guard	York County	5/9/2011
5/10/2011	11-084S	Grounds Maintenance Facility	Christopher Newport University	Newport News	6/6/2011
5/12/2011	11-088F	Naval Special Warfare Development Group 400-Yard Firing Line	DOD/U.S. Navy	Virginia Beach	6/3/2011
5/12/2011	11-091F	Temporary Installation of an Administrative Pier at Joint Expeditioning Base Little Creek	DOD/U.S. Navy	Virginia Beach	6/8/2011
5/19/2011	11-092F	Checed Creek Apartments	U.S. Department of Housing and Urban Development	Newport News	6/15/2011
5/20/2011	11-098F	Installation of Sandbags at an Existing Dune Slope, Dam Neck Annex	DOD/Department of the Navy	Virginia Beach	6/17/2011
6/2/2011	11-101F	The Landmark at Talbot	Department of Housing and Urban Development	Norfolk	6/30/2011
6/10/2011	11-106F	Dominion Boulevard Roadway and Bridge Improvements	USDOT/Federal Highway Administration	Chesapeake	7/5/2011
6/16/2011	11-111S	Student Success Center	Christopher Newport University	Newport News	7/11/2011
6/20/2011	11-116F	Airport Entrance Sign, Chesapeake Regional Airport	USDOT/Federal Aviation Administration	Chesapeake	7/11/2011
7/1/2011	11-121F	Replace Sewage Piping Beneath North & South Piers, USCG Base Support Unit, Portsmouth	DHS/U.S. Coast Guard	Portsmouth	7/26/2011
7/15/2011	11-130F	Commercial Wind Lease Issuance & Site Characterization Activities on the Atlantic Outer Continental	DOI/Bureau of Ocean Energy Management	HRPDC	8/9/2011
7/18/2011	11-122F	Tylers Beach Federal Navigation Project	USACE	Isle of Wight	
7/20/2011	11-133S	Major Unit Modification of the Southampton Power Station, PUE 2011-00075	State Corporation Commission	Southampton County	8/16/2011
7/26/2011	11-138F	Airfield Upgrades and Repairs at Naval Auxiliary Landing Field Fentress	DOD/U.S. Navy	Chesapeake	9/14/2011
8/3/2011	11-140F	Expansion of Range Instruction Building, Coast Guard Training Center Yorktown	DHS/U.S. Coast Guard	York County	8/30/2011
8/3/2011	11-141F	Install Transformer at York River Pier, Coast Guard Training Center Yorktown	DHS/U.S. Coast Guard	York County	8/30/2011
8/8/2011	11-143F	Cove Point Re-Export Project, Dominion Cove Point LNG, LP	DOE/Federal Energy Regulatory Commission	HRPDC	9/2/2011
8/8/2011	11-144F	Naval Special Warfare Development Group 900-Yd Firing Platform, Naval Air Station Annex, Dam Neck	DOD/Department of the Navy	Virginia Beach	9/2/2011

<b>Received</b>	<b>DEQ #</b>	<b>Name</b>	<b>Sponsor</b>	<b>Affected Localities</b>	<b>Sent</b>
8/12/2011	11-148S	New Fraternity Housing - Sites 3 and 8	College of William and Mary	Williamsburg	9/6/2011
8/16/2011	11-150F	Property Disposal for Marine Animal Care Center	DOD/U.S. Navy	Virginia Beach	9/7/2011
8/19/2011	11-152F	Heritage Forest Phase II	U.S. Department of Housing and Urban Development	Newport News	9/14/2011
8/29/2011	11-155S	Hidden-Hussey Commons Expansion	Christopher Newport University	Newport News	9/21/2011
9/8/2011	11-160F	Airfield Clear Zone Management Plan, Naval Auxiliary Landing Field Fentress	DOD/U.S. Navy	Chesapeake	10/6/2011
9/19/2011	11-163F	Oil, Gas, & Sulphur Operations in the Outer Continental Shelf - Revisions to Safety & Environmental	DOI/BOEMRE	HRPDC	10/14/2011
9/19/2011	11-162F	Force Structure Changes at Langley Air Force Base	DOD/U.S. Air Force	Hampton	10/4/2011
9/23/2011	11-165F	Princess Anne Nursing Home	U.S. Department of Housing and Urban Development	Virginia Beach	10/21/2011
10/11/2011	11-170F	Demolition of Aircraft Landing Dynamics Facility, NASA Langley Research Center	National Aeronautics and Space Administration	Hampton	10/27/2011
10/13/2011	11-171F	Streets of Greenbrier	U.S. Housing and Urban Development	Chesapeake	11/4/2011
11/4/2011	11-182F	Heron's Landing Apartments	U.S. Department of Housing and Urban Development	Chesapeake	11/15/2011
11/7/2011	11-184F	Force Structure Change, Langley Air Force Base	DOD/U.S. Air Force	Hampton	12/2/2011
11/14/2011	11-189F	Oceana Salvage Yard Access Road and Burial Unit, Naval Air Station Oceana	DOD/U.S. Navy	Virginia Beach	12/9/2011
12/5/2011	11-199F	Demolition and Installation of Transmitter Antennae	DHS/U.S. Coast Guard	Virginia Beach	12/29/2011

## 2010-2011 Proposal Reviews

<b>Date</b>	<b>Number</b>	<b>Title</b>	<b>Applicant</b>	<b>Program</b>	<b>Impact</b>
10/12/2010	VA110912-0623xxx	Regional Approach to Increasing Food Waste Composting and C&D Debris Recovery in the Mid-Atlantic States	Institute for Local Self-Reliance (ILSR)	EPA - Resource Conservation Challenge Grant	Statewide
11/2/2010	VA111102-0723740	The Learning Barge - Voyage to Wetlands Recovery	The Elizabeth River Project	NOAA - Bay-Watershed Education and Training (B-WET) Program	Elizabeth River Watershed
1/6/2011	VA111228-0823xxx	Chesapeake Bay Program Office FY 2010 Request for Proposals for Communications, Outreach, and Education	Chesapeake Media Service, Inc.	EPA - Chesapeake Bay Program	Statewide
2/1/2011	VA11010311-0923xxx	FY 2011 Technical and General Assistance Grant for Communications, Outreach, and Education	Alliance for the Chesapeake Bay	EPA - Chesapeake Bay Program	Chesapeake Bay Watershed
3/4/2011	VA11020711-1023760	FY2011 Tracking Wetlands in Virginia	Virginia Department of Environmental Quality	Coastal Zone Management Administration Awards	Coastal Zone
4/1/2011	VA11030311-1123760	2011-2012 Beach Monitoring in Virginia	Commonwealth of Virginia State Board of Health	Environmental Protection Agency	Coastal Virginia
4/1/2011	VA11032211-1223760	VADEQ FY12-13 Pollution Prevention Initiatives	Virginia Department of Environmental Quality	Environmental Protection Agency	Statewide
4/7/2011	VA11033111-1323xxx	Pinewood Heights Phase II Redevelopment Project	Town of Smithfield	2011 Virginia Community Development Block Grant Program	Town of Smithfield
5/6/2011	VA110401-1623830	Blayton Site Housing Production Project	City of Williamsburg	2011 Virginia Community Development Block Grant Program	City of Williamsburg
5/6/2011	VA110413-1423760	VADEQ Monitoring Technical and Scientific Support Services	Virginia Department of Environmental Quality	Chesapeake Bay Program	Chesapeake Bay Watershed
5/6/2011	VA110413-1523760	FY2012 Chesapeake Bay Monitoring Program	Virginia Department of Environmental Quality	Chesapeake Bay Program	Chesapeake Bay Watershed
6/2/2011	VA110526-2023760	FY2011 State Revolving Loan Fund Capitalization Grant	Virginia Department of Environmental Quality	Environmental Protection Agency	Statewide

<b>Date</b>	<b>Number</b>	<b>Title</b>	<b>Applicant</b>	<b>Program</b>	<b>Impact</b>
6/2/2011	VA110510-1923760	FY12 CELCP - King William Proposal	Virginia Department of Environmental Quality	NOAA - Coastal and Estuarine Land Conservation Program (CELCP)	York River Watershed
6/3/2011	VA110531-2123xxx	Chesapeake Bay Program Information Management, Data Analysis, and Programmatic Evaluation Support	Virginia Polytechnic Institute and State University	Chesapeake Bay Program	Chesapeake Bay
6/3/2011	VA110510-1823760	FY2012 CELCP - VA Lynnhaven Oyster	Virginia Department of Environmental Quality	NOAA - Coastal and Estuarine Land Conservation Program (CELCP)	Virginia Beach
6/3/2011	VA110510-1723760	FY2012 CELCP - VA Eastern Shore Land Protection	Virginia Department of Environmental Quality	NOAA - Coastal and Estuarine Land Conservation Program (CELCP)	Eastern Shore/Chesapeake Bay
7/7/2011	VA110601-2223760	Sec 103 for NATT Air Monitoring Site Program	Virginia Department of Environmental Quality	Environmental Protection Agency	Statewide
7/7/2011	VA110627-2423760	VADEQ Superfund Core Program Cooperative Agreement	Virginia Department of Environmental Quality	Environmental Protection Agency	Statewide
7/7/2011	VA110615-2323760	VA Coastal Zone Management 26th Year Implementation Grant	Department of Environmental Quality	Department of Commerce - NOAA	Coastal Zone of Virginia
7/25/2011	VA120713-0123760	FY 2011 Drinking Water State Revolving Fund Program - Safe Drinking Water Act	Virginia Department of Health	Environmental Protection Agency	Statewide
8/8/2011	VA120729-0323760	FY2012-2014 Wetland Monitoring and Assessment Strategy	Virginia Department of Environmental Quality	Environmental Protection Agency	Statewide
8/8/2011	VA120729-0223760	FY2011 Water Quality Management Planning Program	Virginia Department of Environmental Quality	Environmental Protection Agency	Statewide
8/31/2011	VA120805-0423700	Community-Based Participatory Research Approach to Understanding and Reducing Risks from Toxic Pollutant Exposure in the SE Community of Newport News	The Greater Southeast Development Corporation	EPA's Community Action for a Renewed Environment (CARE)	Newport News
9/1/2011	VA120830-0623760	Shoreline Management Planning and Inventory	Virginia Department of Environmental Quality	NOAA Coastal Zone Management Administration Awards	Coastal Virginia

<b>Date</b>	<b>Number</b>	<b>Title</b>	<b>Applicant</b>	<b>Program</b>	<b>Impact</b>
9/1/2011	VA120830-0523760	Whale Migration Corridors for MSP	Virginia Department of Environmental Quality	NOAA Coastal Zone Management Administration Awards	Coastal Virginia
9/26/2011	VA120916-0723740	DHCD Industrial Revitalization Fund Application	Portsmouth Redevelopment and Housing Authority	Virginia Department of Housing and Community Development	Portsmouth
10/27/2011	VA121014-0923760	Franciscan Brethren of St. Philip Application for Federal Assistance	Franciscan Brethren of St. Philip	United States Department of Agriculture Rural Development	York County
12/2/2011	VA121130-1023760	Assistance Proposal for Abex Corporation (RIFS OU-2)	Virginia Department of Environmental Quality	Hazardous Substance Response Trust Fund	Portsmouth
1/4/2012	VA121222-1123xxx	Chesapeake Media Service - Bay Journal	Chesapeake Media Service, Inc.	Chesapeake Bay Program	Statewide
2/1/2012	VA120125-1223740	Empowering Low Income Students to Restore the Elizabeth River	The Elizabeth River Project	Environmental Protection Agency	Elizabeth River watershed

MEMBER JURISDICTIONS

February 23, 2011

CHESAPEAKE

Mr. John E. Fisher  
Virginia Department of Environmental Quality  
Office of Environmental Impact Review  
629 East Main Street, Sixth Floor  
Richmond, VA 23219

FRANKLIN

GLOUCESTER

Re: DEQ #11-017F, Marine Corps Security Force Regiment Consolidation,  
Naval Weapons Station Yorktown (ENV: GEN)

HAMPTON

Dear Mr. Fisher:

ISLE OF WIGHT

Pursuant to your request, the staff of the Hampton Roads Planning District Commission has reviewed the Federal Consistency Determination for Marine Corps Security Force Regiment Consolidation, Naval Weapons Station Yorktown in York County. We have consulted with county staff regarding this project.

JAMES CITY

NEWPORT NEWS

Based on this review, the proposal appears to be consistent with local and regional plans and policies, as long as certain guidelines are followed during construction. County staff has indicated that the proposed site lies in both York County's Watershed Management and Protection Area Overlay District and its Historic Resources Management Overlay District. These designations indicate that the proposed site lies in a sensitive area; as such, the Hampton Roads Planning District Commission recommends that the design and construction of the project comply to the maximum extent possible with the relevant provisions found in the York County Zoning Ordinance. In addition, the Commission encourages the use of best practices regarding erosion and sediment control, stormwater management, and low impact development during construction.

NORFOLK

POQUOSON

PORTSMOUTH

SOUTHAMPTON

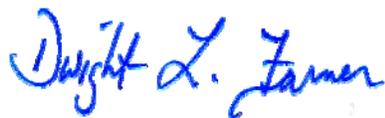
SUFFOLK

We appreciate the opportunity to review this project. If you have any questions, please do not hesitate to call.

SURRY

Sincerely,

VIRGINIA BEACH



WILLIAMSBURG

Dwight Farmer  
Executive Director/Secretary

YORK

BJM/fh

MEMBER JURISDICTIONS

April 11, 2011

CHESAPEAKE

FRANKLIN

GLOUCESTER

HAMPTON

ISLE OF WIGHT

JAMES CITY

NEWPORT NEWS

NORFOLK

POQUOSON

PORTSMOUTH

SOUTHAMPTON

SUFFOLK

SURRY

VIRGINIA BEACH

WILLIAMSBURG

YORK

Ms. Julia H. Wellman  
Virginia Department of Environmental Quality  
Office of Environmental Impact Review  
629 East Main Street, Sixth Floor  
Richmond, VA 23219

Re: DEQ #11-036S, Wild Duck Lane Property Acquisition/Virginia Port Authority, Portsmouth (ENV:GEN)

Dear Ms. Wellman:

Pursuant to your request, the staff of the Hampton Roads Planning District Commission has reviewed the environmental impact report for the proposed Wild Duck Lane Property Acquisition by the Virginia Port Authority in the City of Portsmouth. We have consulted with city staff regarding this project.

Based on this review and our discussions with Portsmouth city staff, we have several concerns with the proposal's implications. The apparent purpose of the site's acquisition is to eventually allow expansion of the APM terminal's main gate for expected growth in traffic. However, the site is located on land that is ecologically sensitive for several reasons. The site lies within a 100-year floodplain. Significant parts of the site are within Portsmouth's Chesapeake Bay Preservation Act Resource Protection Area and Resource Management Area. The property contains wetlands that would be potentially damaged by any future development. In addition, parts of the site have been included in HRPDC reports on regional green infrastructure networks, based on the potential for sizable water quality and habitat benefits.

Based on these concerns, it appears that developing the site to expand the terminal facility will only be consistent with local and regional plans if several steps are taken to mitigate negative environmental impacts. We request more information from the Virginia Port Authority on how it plans to mitigate those impacts.

April 11, 2011  
Page 2

We appreciate the opportunity to review this project. If you have any questions, please do not hesitate to call.

Sincerely,

A handwritten signature in black ink that reads "John M. Carlock". The signature is written in a cursive style with a large, stylized "J" and "C".

John M. Carlock  
Deputy Executive Director

BJM/fh

Copy: Fred Brusso, PO

MEMBER JURISDICTIONS

October 21, 2011

Mr. John E. Fisher  
Virginia Department of Environmental Quality  
Office of Environmental Impact Review  
629 East Main Street, Sixth Floor  
Richmond, VA 23219

Re: DEQ #11-165F, Princess Anne Nursing Home (ENV:GEN)

Dear Mr. Fisher:

Pursuant to your request, the staff of the Hampton Roads Planning District Commission has reviewed the federal consistency determination for the proposed project, Princess Anne Nursing Home, in the City of Virginia Beach. We have consulted with city staff regarding this project.

Based on this review, the proposal appears to be consistent with local and regional plans and policies. The proposed site is zoned as AG-1. The City's Zoning Ordinance states that residential care facilities for seniors, provided that no more than one (1) employee other than a bona fide resident of the dwelling shall be permitted in AG-1 areas. The site also lies within the 70-75dB Air Installation Compatibility Use Zone. According to the Virginia Beach Code of Ordinances, within these areas "any residential use group building or structure...shall be constructed to provide acoustical treatment measures in accordance with the Virginia Uniform Statewide Building Code."

We appreciate the opportunity to review this project. If you have any questions, please do not hesitate to call.

Sincerely,



John M. Carlock, AICP  
Deputy Executive Director

BJM/fh

Copy: Clay Bernick, VB

**APPENDIX B**  
**ANALYSIS OF FEDERAL LANDS IN HAMPTON ROADS**

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## Comparison of Data on Federal Facilities in Hampton Roads from HRPDC, EPA, and the U.S. Navy

Quantifying the amount of federal land in localities is an important part in calculating localities responsibilities regarding the Chesapeake Bay TMDL, which will be based in part on the amount of private and locality-owned land within their borders. However, the available datasets on federal lands in Hampton Roads are not consistent with each other. In this analysis, HRPDC staff utilized datasets obtained from the U.S. Navy and EPA as well as one developed by HRPDC staff to identify and calculate discrepancies to improve the accuracy of any count of land area owned by the federal government in Hampton Roads. Overall, the datasets were mostly consistent with each other, with many of the inconsistencies being minor issues with parcel boundaries or coastlines. However, there are several major issues that are described below and identified in the attached maps. The described issues are between the dataset from the U.S. Navy and the other two datasets. This analysis did not include areas that were identified as Navy installations by the Navy, but as owned by other federal entities by either the EPA or the HRPDC.

There were six (6) major issues identified between the datasets from the Navy and the EPA in three localities (Norfolk, Virginia Beach, and York County). These are shown on Map 1.

Site # on Map	Name	Locality	EPA Area (Acres)	Navy Area (Acres)	Difference	% Difference
1	Yorktown Fuel Depot	York	0	150.41	-150.41	-100.00%
2 & 3	Naval Station Norfolk	Norfolk	7032.3	4523.27	2509.03	55.47%
4	Hewitt Farms	Norfolk	0	79.85	-79.85	-100.00%
5	St. Helena	Norfolk	73.98	11.66	62.32	534.48%
6	NEXCOM HQ	Virginia Beach	0	9.74	-9.74	-100.00%

**Table 1: EPA vs. Navy Datasets**

The Yorktown Fuel Depot, Hewitt Farms, and NEXCOM HQ sites were not present in the EPA database. The Naval Station Norfolk boundary from the EPA database extends out into Hampton Roads and does not include a Navy-identified area adjacent to Ocean View. The EPA and Navy boundaries provided for the St. Helena Annex differ significantly in shape and size.

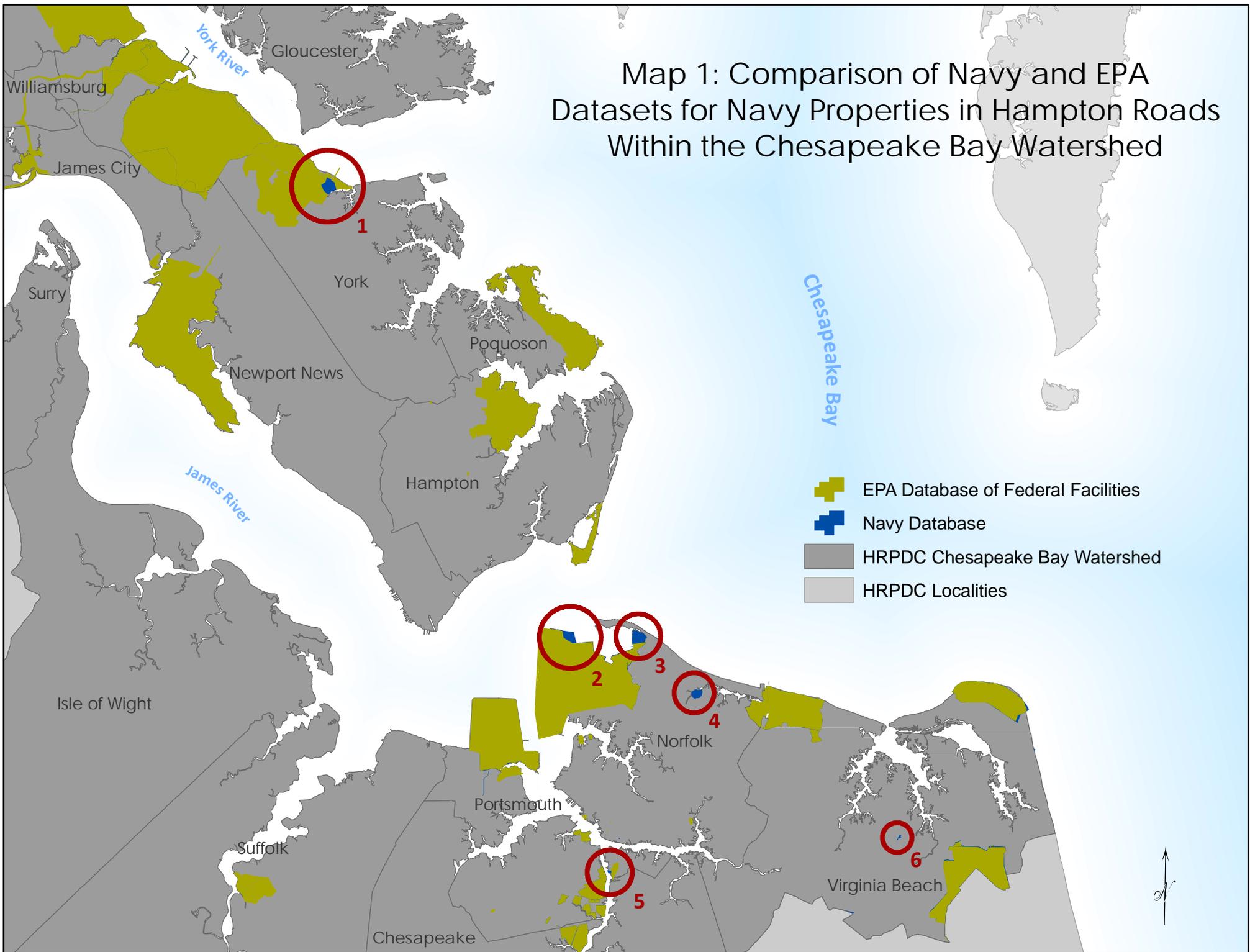
There were eight (8) major issues identified between the datasets from the Navy and the HRPDC in five localities (Chesapeake, Norfolk, Portsmouth, Virginia Beach, and York County). These are shown on Map 2.

Site # on Map	Name	Locality	HRPDC Area (Acres)	Navy Area (Acres)	Difference	% Difference
1	Yorktown NWS	York	8853.95	9159.6	-305.65	-3.34%
2 & 3	Naval Station Norfolk	Norfolk	4323.97	4523.27	-199.3	-4.41%
4	Hewitt Farms	Norfolk	0	79.85	-79.85	-100.00%
5	Norfolk Naval Shipyard	Chesapeake/ Norfolk/ Portsmouth	1108.99	1441.67	-332.68	-23.08%
6	JEB Little Creek-Fort Story	Norfolk/ Virginia Beach	2200.39	1863.85	336.54	18.06%
7	NEXCOM HQ	Virginia Beach	0	9.74	-9.74	-100.00%
8	NAS Oceana	Virginia Beach	2400.91	2441.78	-40.87	-1.67%

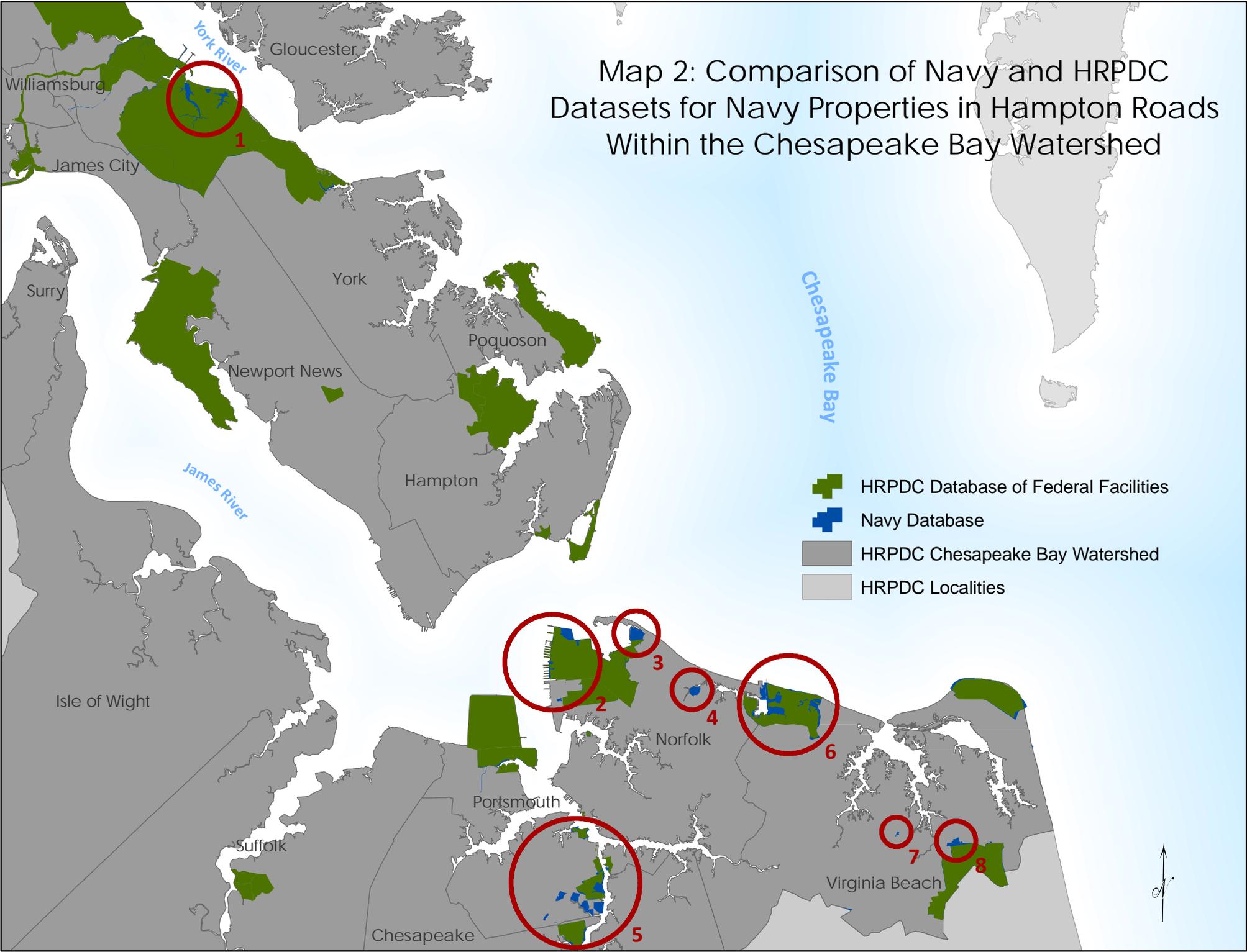
**Table 2: HRPDC vs. Navy Datasets**

The Hewitt Farms and NEXCOM HQ sites were not included in the HRPDC database. HRPDC’s boundary for Naval Station Norfolk does not include a section adjacent to Ocean View; in addition, the Navy-identified area for the base appears to extend slightly beyond the coast at the northern edge of the base. HRPDC’s database does not include several properties that could be considered part of the Norfolk Naval Shipyard complex (including Scott Center, South Gate, New Gosport, Stanley Court, Paradise Creek North, and Paradise Creek South). The boundaries for the Norfolk Naval Shipyard main site are also incongruous. At JEB Little Creek-Fort Story, the Navy-identified boundary appears to include part of the inlet, which HRPDC does not include in its database. There are also some boundaries issues at the base’s eastern end. At NAS Oceana, there is a boundary issue for the main base; in addition, HRPDC’s database does not include Clear Zone RWY 32.

Map 1: Comparison of Navy and EPA Datasets for Navy Properties in Hampton Roads Within the Chesapeake Bay Watershed



Map 2: Comparison of Navy and HRPDC Datasets for Navy Properties in Hampton Roads Within the Chesapeake Bay Watershed



## Comparison of EPA and HRPDC Data on Federal Properties in Hampton Roads

The revised nutrient and sediment targets that will be released in August 2011 will distinguish between federal load reductions and locality load reductions. The HRPDC has conducted an analysis of the GIS boundary layers utilized by the EPA to quantify federal loads to assist localities in determining the accuracy of this information. In this analysis, HRPDC staff compared the latest EPA dataset on federal properties with one developed by HRPDC staff to identify and calculate discrepancies. Overall, the datasets were mostly consistent with each other, with many of the inconsistencies being differences with parcel boundaries or coastlines. However, there are several major issues that are described below and identified in the attached maps. In the case of major discrepancies, HRPDC staff has utilized other data sources (Navy GIS and personal contacts) to verify if the EPA or HRPDC database is correct. In cases where the EPA database is correct, HRPDC will update its database. Where noted, HRPDC's database has already been corrected. If the EPA's GIS boundary layers are not accurate for federal lands, localities may want to estimate the nutrient loads associated with HRPDC's estimate of the federal land areas. Nutrient loads could be calculated using the loading rate per acre of land use on federal properties. HRPDC will identify loading rates in a separate document.

A breakdown of the data by locality was conducted for military and non-military federal lands. All areas are measured in acres. In some cases, one dataset labeled a property as military while the other labeled it as non-military; these discrepancies disappear when looking at all federal lands together. Overall, the most significant discrepancies were noted in Hampton, Norfolk, Portsmouth, Virginia Beach and York County. The discrepancies are shown and described in greater detail below. Positive differences show that EPA's area estimate is larger, while negative differences show the opposite.

**Table 1: EPA vs. HRPDC Datasets, Military Lands in Hampton Roads**

<b>Locality</b>	<b>EPA Military (acres)</b>	<b>HRPDC Military (acres)</b>	<b>Difference (acres)</b>	<b>% Difference</b>
CHESAPEAKE	503.48	500.04	3.44	1%
GLOUCESTER	0.76	0.76	0.00	0%
HAMPTON	3,411.04	4,148.19	-737.15	-18%
JAMES CITY	1,451.44	1,369.20	82.24	6%
NEWPORT NEWS	8,036.07	7,926.22	109.85	1%
NORFOLK	7,307.45	4,645.37	2,662.08	57%
POQUOSON	0.00	12.95	-12.95	-100%
PORTSMOUTH	4,602.92	4,260.51	342.41	8%
SUFFOLK	399.51	393.95	5.56	1%
SURRY	0.00	0.00	0.00	0%
VIRGINIA BEACH	6,219.46	5,945.64	273.82	5%
WILLIAMSBURG	0.00	0.00	0.00	0%
YORK	19,562.84	19,462.64	100.20	1%
<b>TOTAL</b>	<b>51,494.98</b>	<b>48,665.48</b>	<b>2,829.50</b>	<b>6%</b>

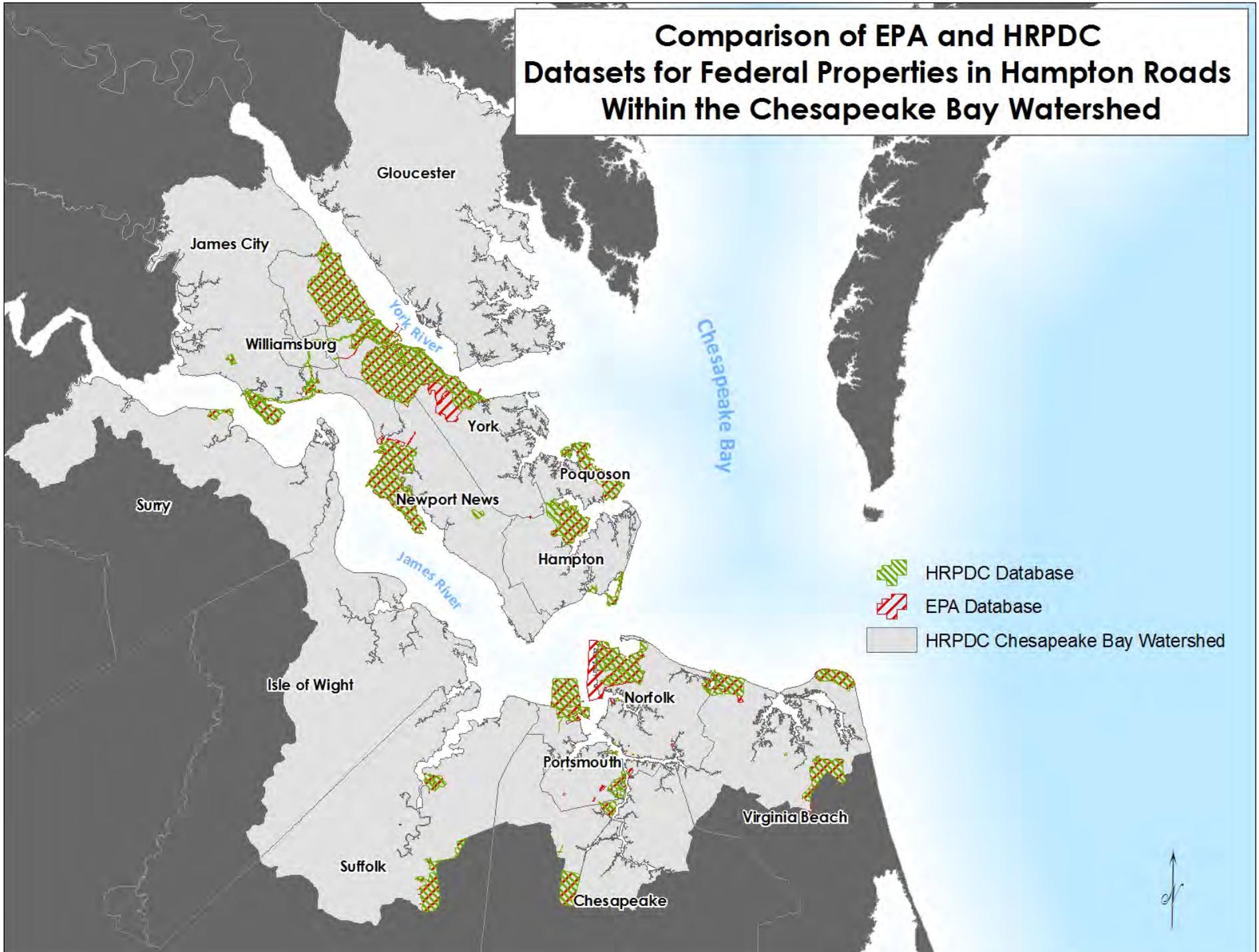
**Table 2: EPA vs. HRPDC Datasets, Non-Military Federal Lands in Hampton Roads**

<b>Locality</b>	<b>EPA Non-Military Federal (acres)</b>	<b>HRPDC Non-Military Federal (acres)</b>	<b>Difference (acres)</b>	<b>% Difference</b>
CHESAPEAKE	1,804.82	1,820.49	-15.67	-1%
GLOUCESTER	0.00	0.00	0.00	0%
HAMPTON	3.34	114.01	-110.67	-97%
JAMES CITY	2,815.37	2,867.68	-52.31	-2%
NEWPORT NEWS	59.25	279.95	-220.70	-79%
NORFOLK	2.47	2.16	0.31	14%
POQUOSON	3,063.94	3,063.91	0.03	0%
PORTSMOUTH	1.25	2.67	-1.42	-53%
SUFFOLK	2,921.26	2,919.47	1.78	0%
SURRY	456.49	456.49	0.00	0%
VIRGINIA BEACH	0.00	0.00	0.00	0%
WILLIAMSBURG	183.24	183.24	0.00	0%
YORK	5,856.51	3,831.30	2,025.21	53%
<b>TOTAL</b>	<b>17,167.93</b>	<b>15,541.39</b>	<b>1,626.55</b>	<b>10%</b>

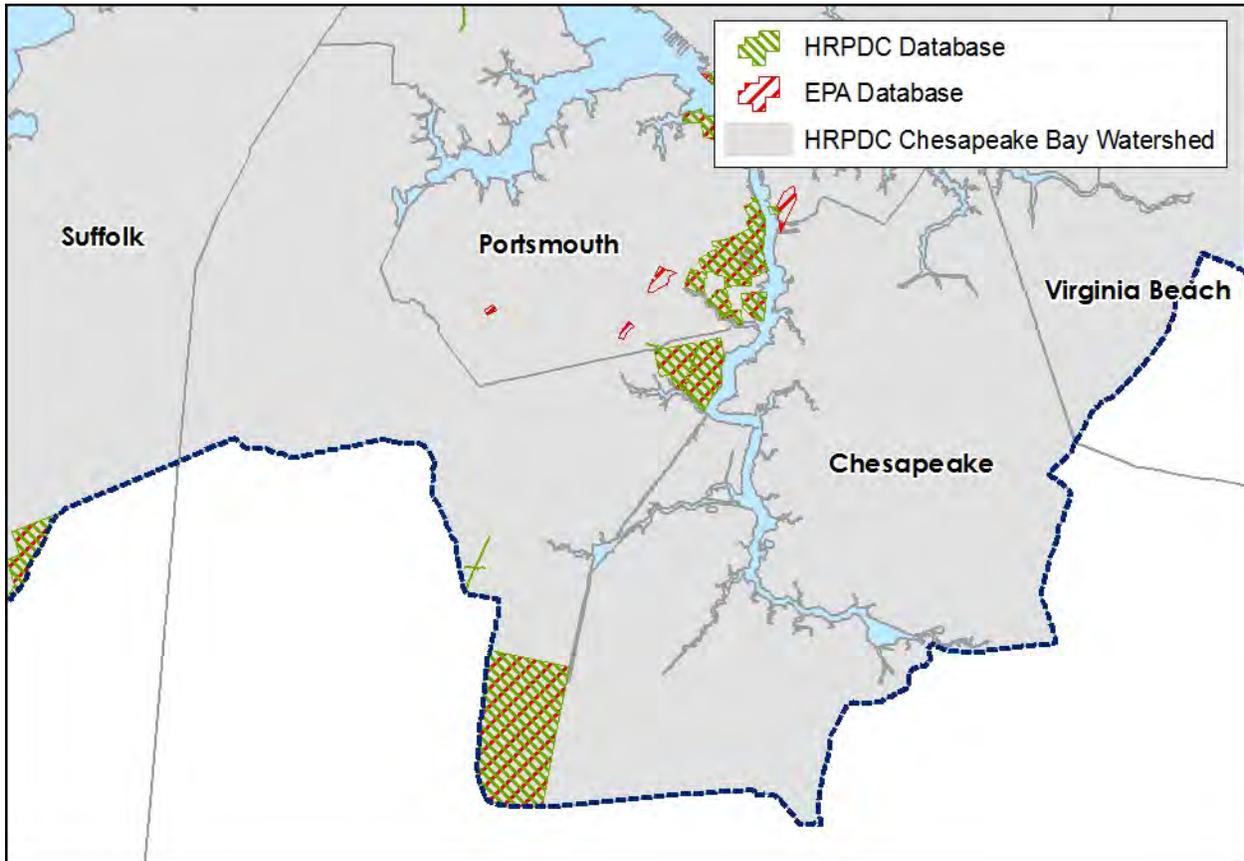
**Table 3: EPA vs. HRPDC Datasets, All Federal Land in Hampton Roads**

<b>Locality</b>	<b>EPA Total Federal (acres)</b>	<b>HRPDC Total Federal (acres)</b>	<b>Difference (acres)</b>	<b>% Difference</b>
CHESAPEAKE	2,308.31	2,320.54	-12.23	-1%
GLOUCESTER	0.76	0.76	0.00	0%
HAMPTON	3,414.37	4,262.20	-847.83	-20%
JAMES CITY	4,266.81	4,236.88	29.93	1%
NEWPORT NEWS	8,095.32	8,206.17	-110.85	-1%
NORFOLK	7,309.92	4,647.53	2,662.39	57%
POQUOSON	3,063.94	3,076.86	-12.92	0%
PORTSMOUTH	4,604.17	4,263.18	340.99	8%
SUFFOLK	3,320.77	3,313.42	7.35	0%
SURRY	456.49	456.49	0.00	0%
VIRGINIA BEACH	6,219.46	5,945.64	273.82	5%
WILLIAMSBURG	183.24	183.24	0.00	0%
YORK	25,419.35	23,293.94	2,125.41	9%
<b>TOTAL</b>	<b>68,662.91</b>	<b>64,206.86</b>	<b>4,456.05</b>	<b>7%</b>

# Comparison of EPA and HRPDC Datasets for Federal Properties in Hampton Roads Within the Chesapeake Bay Watershed



## Chesapeake

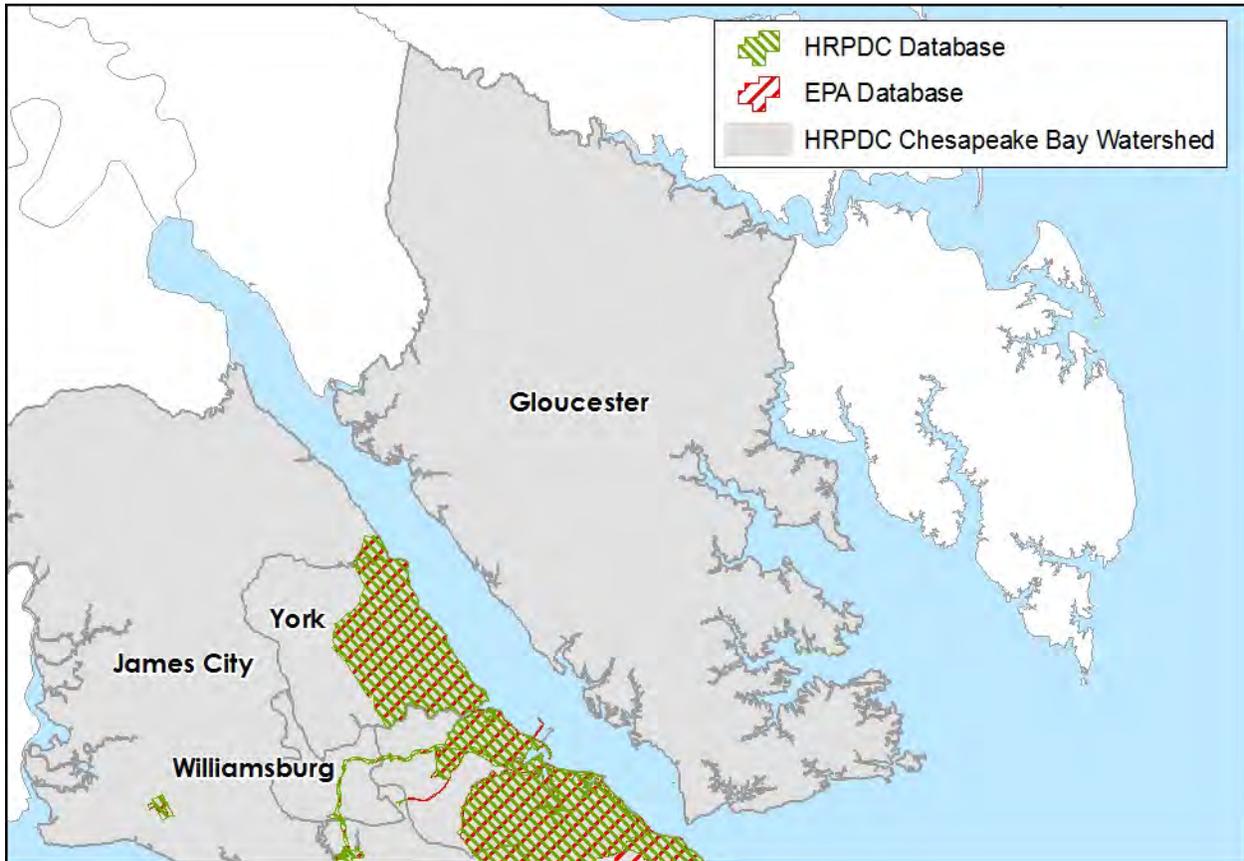


There were no major inconsistencies in Chesapeake identified in the two datasets.

**Table 4: EPA vs. HRPDC Datasets, Chesapeake**

Site	Military (yes/no)	EPA Area (acres)	HRPDC Area (acres)	Difference (acres)	% Diff.	Notes
Great Dismal Swamp	No	1,804.82	1,820.49	-15.67	-1%	HRPDC polygon includes access road or other similar area
St. Helena Annex NNSY	Yes	3.46	0.00	3.46	100%	EPA Error - Verified with Navy and Norfolk GIS
St. Julien's Creek	Yes	500.03	500.04	-0.02	0%	
<b>TOTAL MILITARY</b>	<b>Yes</b>	<b>503.48</b>	<b>500.04</b>	<b>3.44</b>	<b>1%</b>	
<b>TOTAL OTHER FEDERAL</b>	<b>No</b>	<b>1,804.82</b>	<b>1,820.49</b>	<b>-15.67</b>	<b>-1%</b>	
<b>TOTAL FEDERAL</b>	<b>N/A</b>	<b>2,308.31</b>	<b>2,320.54</b>	<b>-12.23</b>	<b>-1%</b>	

## Gloucester County

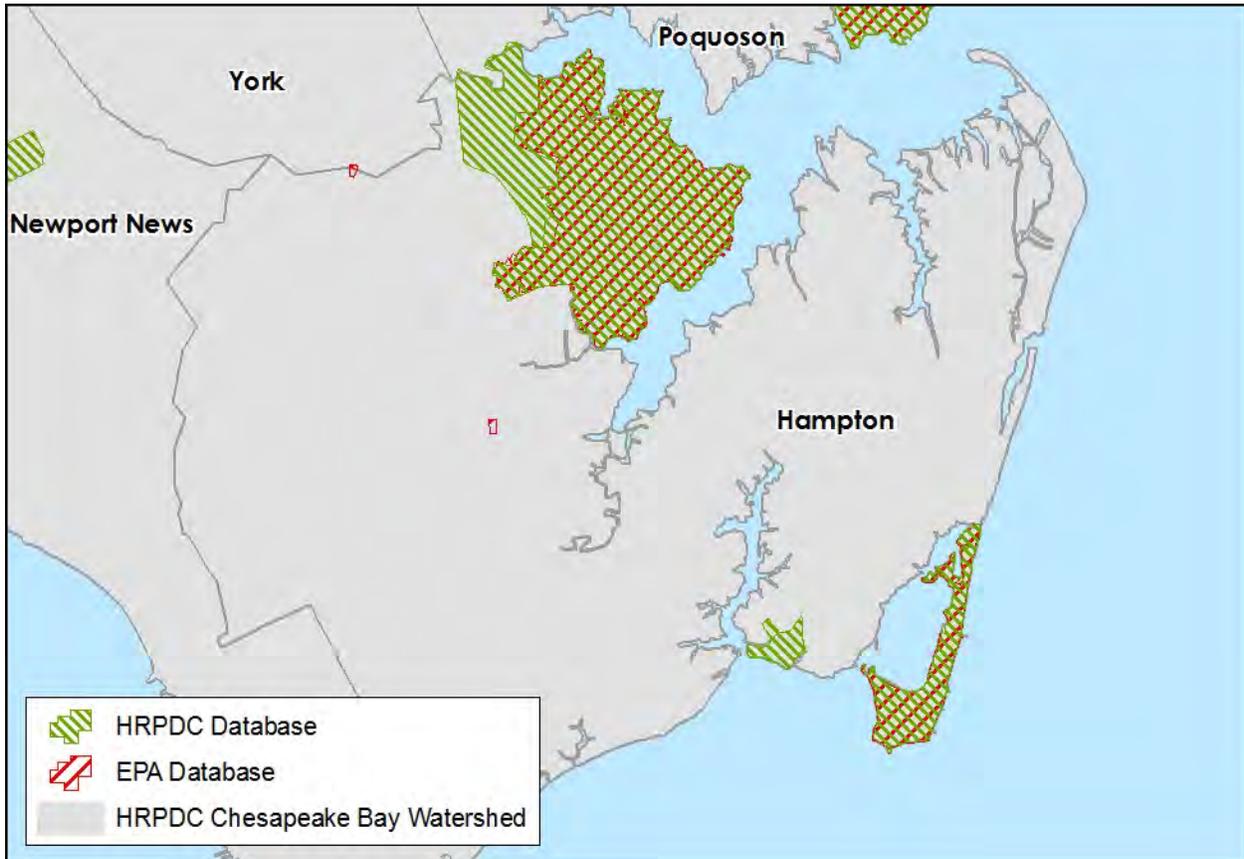


There were no major inconsistencies in Gloucester identified in the two datasets. There was a very slight difference of 0.00017 acres between the two datasets, with HRPDC’s area slightly larger than that provided by the EPA.

**Table 5: EPA vs. HRPDC Datasets, Gloucester County**

Site	Military (yes/no)	EPA Area (acres)	HRPDC Area (acres)	Difference (acres)	% Diff.	Notes
Little Mumfort Island	Yes	0.76	0.76	0.00	0%	
TOTAL MILITARY	Yes	0.76	0.76	0.00	0%	
TOTAL OTHER FEDERAL	No	0.00	0.00	0.00	0%	
TOTAL FEDERAL	N/A	0.76	0.76	0.00	0%	

## Hampton

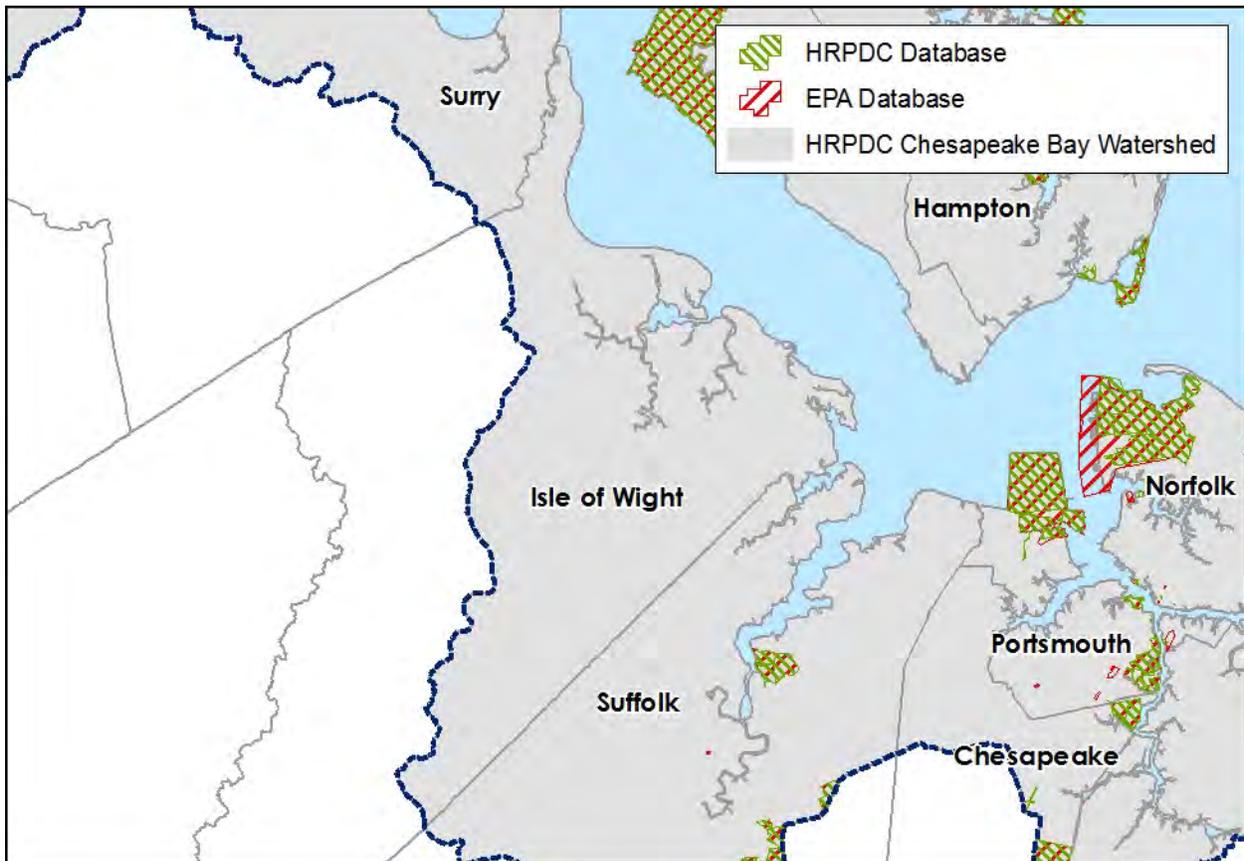


The EPA dataset did not contain NASA Langley, the Hampton National Cemetery, or the Veterans Affairs Medical Center. The HRPDC dataset did not contain the Army National Guard property.

**Table 6: EPA vs. HRPDC Datasets, Hampton**

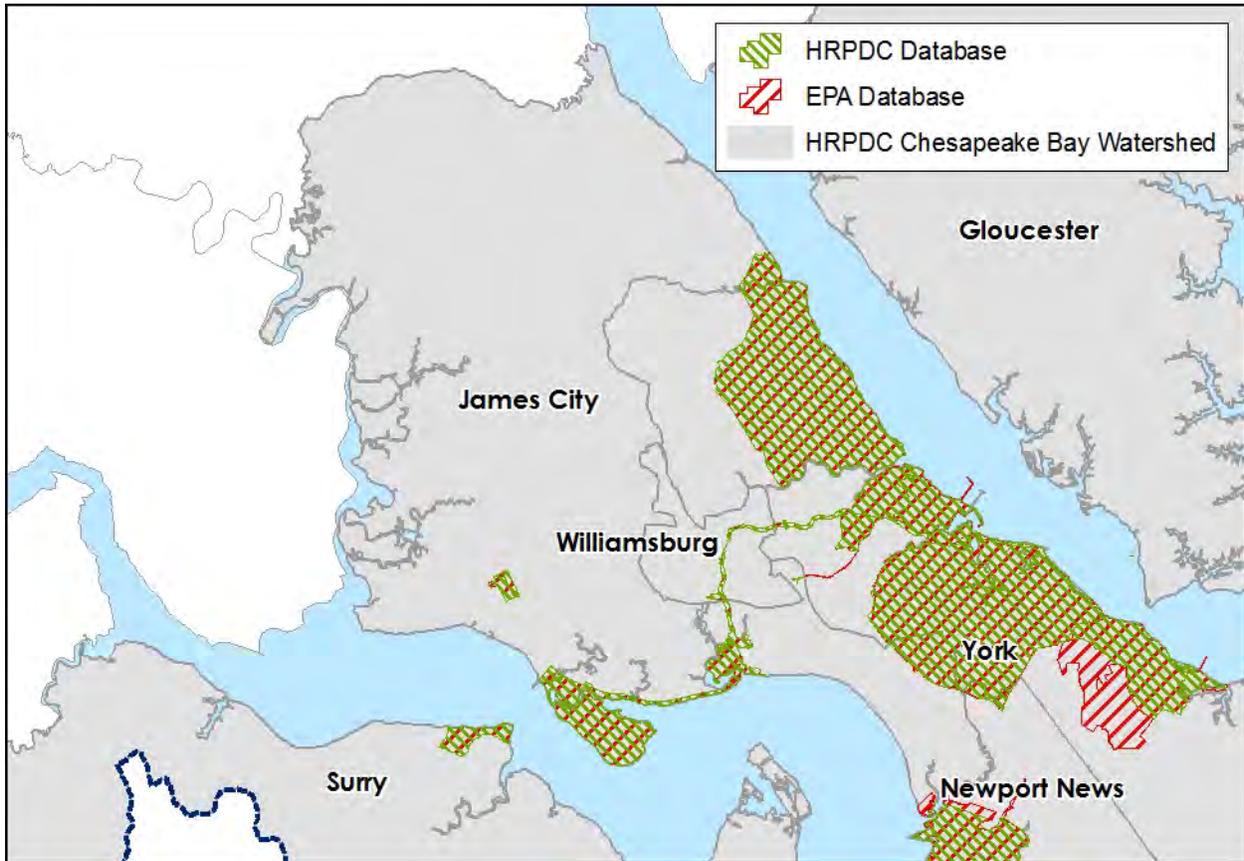
Site	Military (yes/no)	EPA Area (acres)	HRPDC Area (acres)	Difference (acres)	% Diff.	Notes
Army National Guard	No	3.34	0.00	3.34	100%	Not in HRPDC Database
Fort Monroe	Yes	507.30	495.59	11.72	2%	
Hampton (Marcella Rd)	Yes	7.36	0.00	7.36	100%	Not in HRPDC Database
Hampton National Cemetery	No	0.00	12.36	-12.36	-100%	Not in EPA Database
Langley AFB	Yes	2,896.37	2,930.26	-33.89	-1%	
NASA Langley	Yes	0.00	722.35	-722.35	-100%	Not in EPA Database
Veterans Affairs Medical Center	No	0.00	101.65	-101.65	-100%	Not in EPA Database
<b>TOTAL MILITARY</b>	Yes	3,411.04	4,148.19	-737.15	-18%	
<b>TOTAL OTHER FEDERAL</b>	No	3.34	114.01	-110.67	-97%	
<b>TOTAL FEDERAL</b>	N/A	3,414.37	4,262.20	-847.83	-20%	

## Isle of Wight County



There were no federal facilities in Isle of Wight County identified in the two datasets.

## James City County

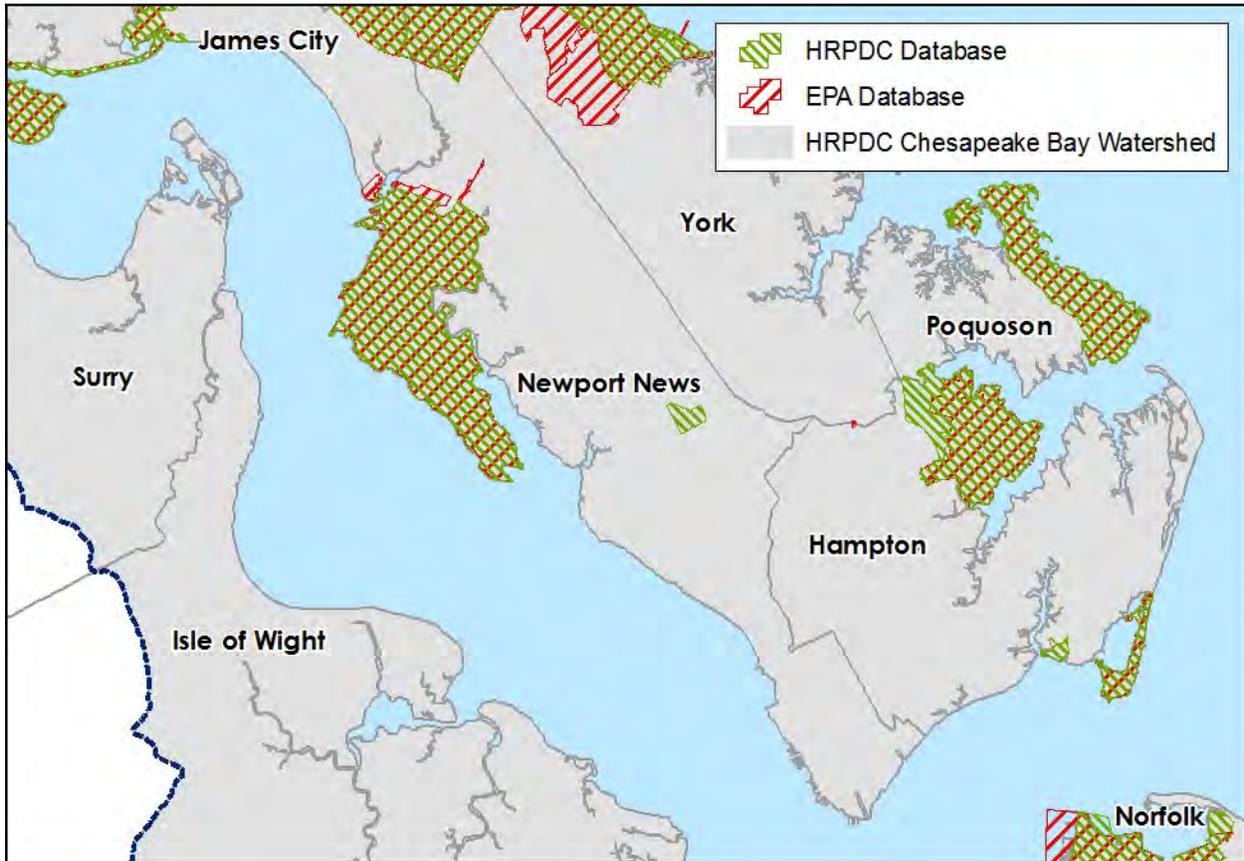


The boundary for the part of Ft. Eustis in James City County was not the same in the two datasets.

**Table 7: EPA vs. HRPDC Datasets, James City County**

Site	Military (yes/no)	EPA Area (acres)	HRPDC Area (acres)	Difference (acres)	% Diff.	Notes
Colonial National Historical Park	No	2,815.37	2,818.10	-2.73	0%	
Fort Eustis	Yes	93.61	15.88	77.73	490%	Boundary discrepancy between EPA and HRPDC databases
Jamestown Settlement	No	0.00	49.58	-49.58	-100%	Not in EPA Database
NWS Yorktown	Yes	984.08	979.57	4.51	0%	
NWS Yorktown, Camp Peary	Yes	373.75	373.75	0.00	0%	
<b>TOTAL MILITARY</b>	Yes	1,451.44	1,369.20	82.24	6%	
<b>TOTAL OTHER FEDERAL</b>	No	2,815.37	2,867.68	-52.31	-2%	
<b>TOTAL FEDERAL</b>	N/A	4,266.81	4,236.88	29.93	1%	

## Newport News

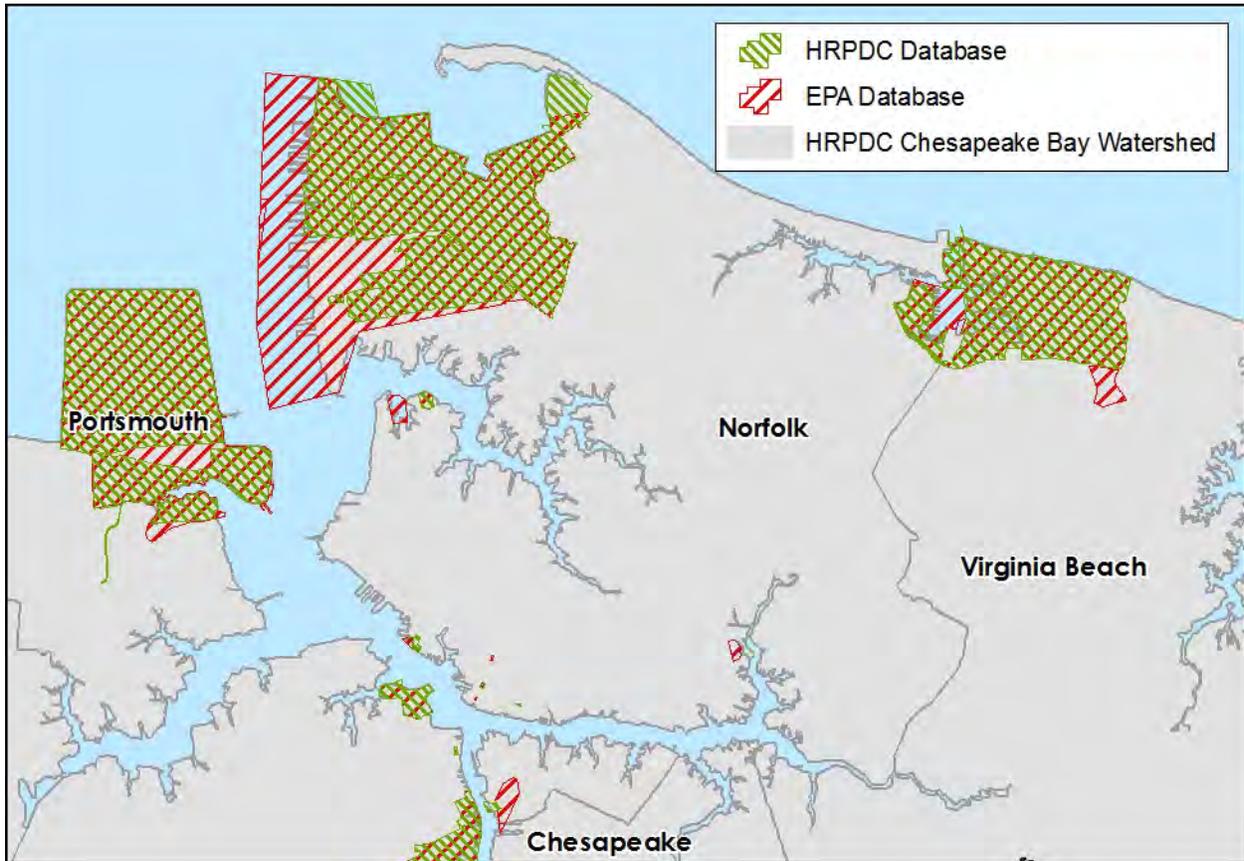


The EPA dataset did not contain the Jefferson Laboratory property. The boundaries for Ft. Eustis and Yorktown NWS differed. Of the two, the Ft. Eustis discrepancy is the more significant.

**Table 8: EPA vs. HRPDC Datasets, Newport News**

Site	Military (yes/no)	EPA Area (acres)	HRPDC Area (acres)	Difference (acres)	% Diff.	Notes
Fort Eustis	Yes	7,845.84	7,727.75	118.09	2%	Boundary discrepancy
Goose Island MR	No	59.25	59.24	0.00	0%	
Jefferson Lab	No	0.00	220.71	-220.71	-100%	Not in EPA Database
Yorktown NWS	Yes	190.23	198.47	-8.24	-4.15%	Boundary discrepancy
TOTAL MILITARY	Yes	8,036.07	7,926.22	109.85	1%	
TOTAL OTHER FEDERAL	No	59.25	279.95	-220.70	-79%	
TOTAL FEDERAL	N/A	8,095.32	8,206.17	-110.85	-1%	

## Norfolk



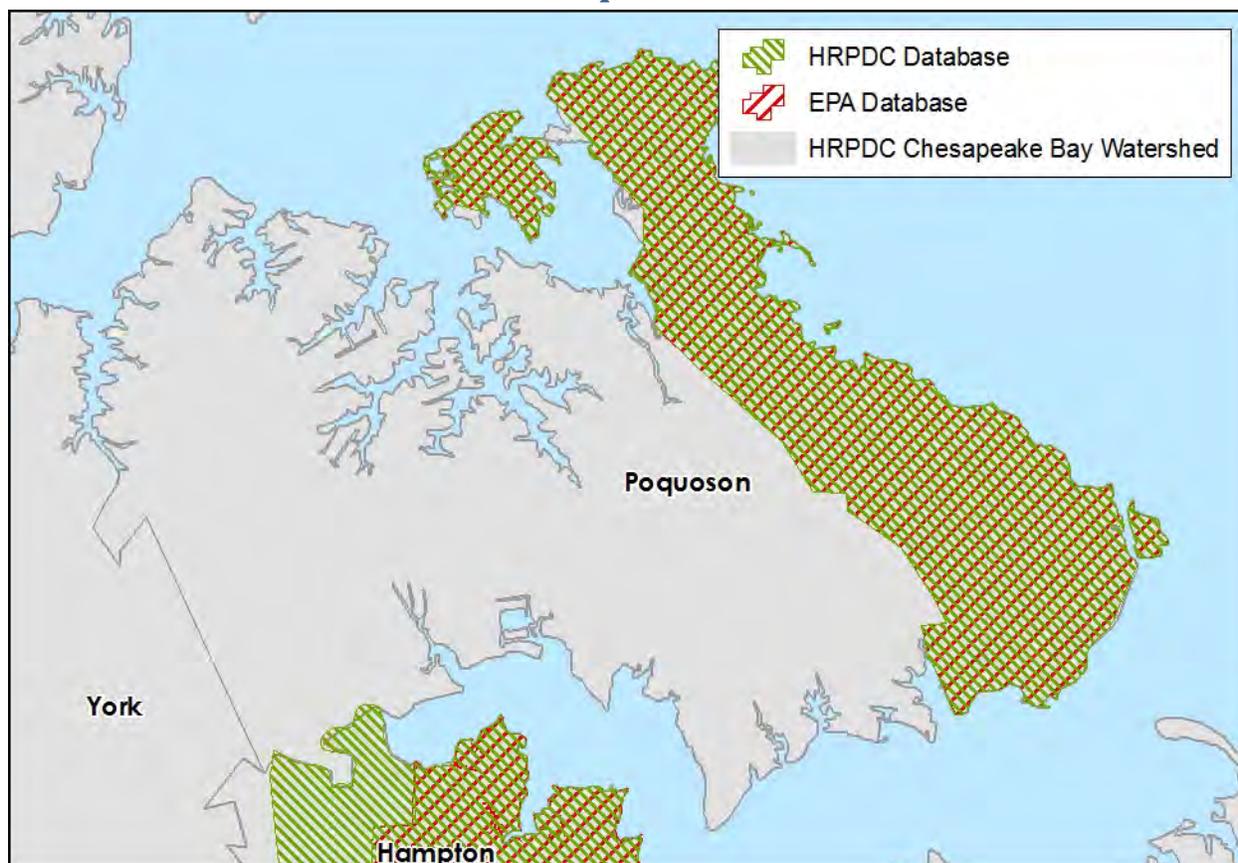
The Custom House, Federal Courthouse, and Army National Guard sites were not in the HRPDC database. The EPA database did not contain the Shore Patrol Headquarters facility. The Norfolk part of Joint Expeditionary Base Little Creek-Fort Story appears to be mostly water. The EPA database contains a polygon designated as part of the Navy’s Lafayette River Complex that appears to cover part of the Larchmont neighborhood. The Navy did not have this facility in their database. The boundaries for Fort Norfolk differed significantly, though the difference appears to be caused by the EPA boundary including water surrounding the facility. The boundary for the Norfolk Naval Base is the most serious discrepancy. The EPA’s boundary appears to include significant amounts of water, as well as the Norfolk International Terminal property. HRPDC’s boundary for the base was verified with the Navy.

**Table 9: EPA vs. HRPDC Datasets, Norfolk**

Site	Military (yes/no)	EPA Area (acres)	HRPDC Area (acres)	Difference (acres)	% Diff.	Notes
Federal Building	No	1.05	2.16	-1.11	-51%	Building footprint vs. lot
Fort Norfolk	Yes	16.38	8.44	7.94	94%	
JEBLCFS	Yes	80.80	80.70	0.10	0%	Norfolk areas and Water
NAVSTA NORFOLK VA	Yes	7,056.02	4,523.27	2,532.75	56%	Significant Discrepancy - Verified with Navy

Site	Military (yes/no)	EPA Area (acres)	HRPDC Area (acres)	Difference (acres)	% Diff.	Notes
Norfolk Army National Guard	Yes	18.36	0.00	18.36	100%	Not in HRPDC Database
NSA Norfolk, Lafayette River Complex (1)	Yes	19.82	19.82	0.00	0%	
NSA Norfolk, Lafayette River Complex (2)	Yes	45.55	0.00	45.55	100%	EPA Error – Navy (appears to cover part of Larchmont neighborhood and water)
Owen B. Pickett U.S. Custom House	No	0.24	0.00	0.24	100%	Not in HRPDC Database
SHORE PATROL HQ NORVA	Yes	0.00	1.48	-1.48	-100%	Not in EPA Database
ST. HELENA ANNEX	Yes	70.52	11.66	58.85	505%	Significant Discrepancy - Verified with Navy
Walter E. Hoffman U.S. Courthouse	No	1.18	0.00	1.18	100%	Not in HRPDC Database
TOTAL MILITARY	Yes	7,307.45	4,645.37	2,662.08	57%	
TOTAL OTHER FEDERAL	No	2.47	2.16	0.31	14%	
TOTAL FEDERAL	N/A	7,309.92	4,647.53	2,662.39	57%	

## Poquoson

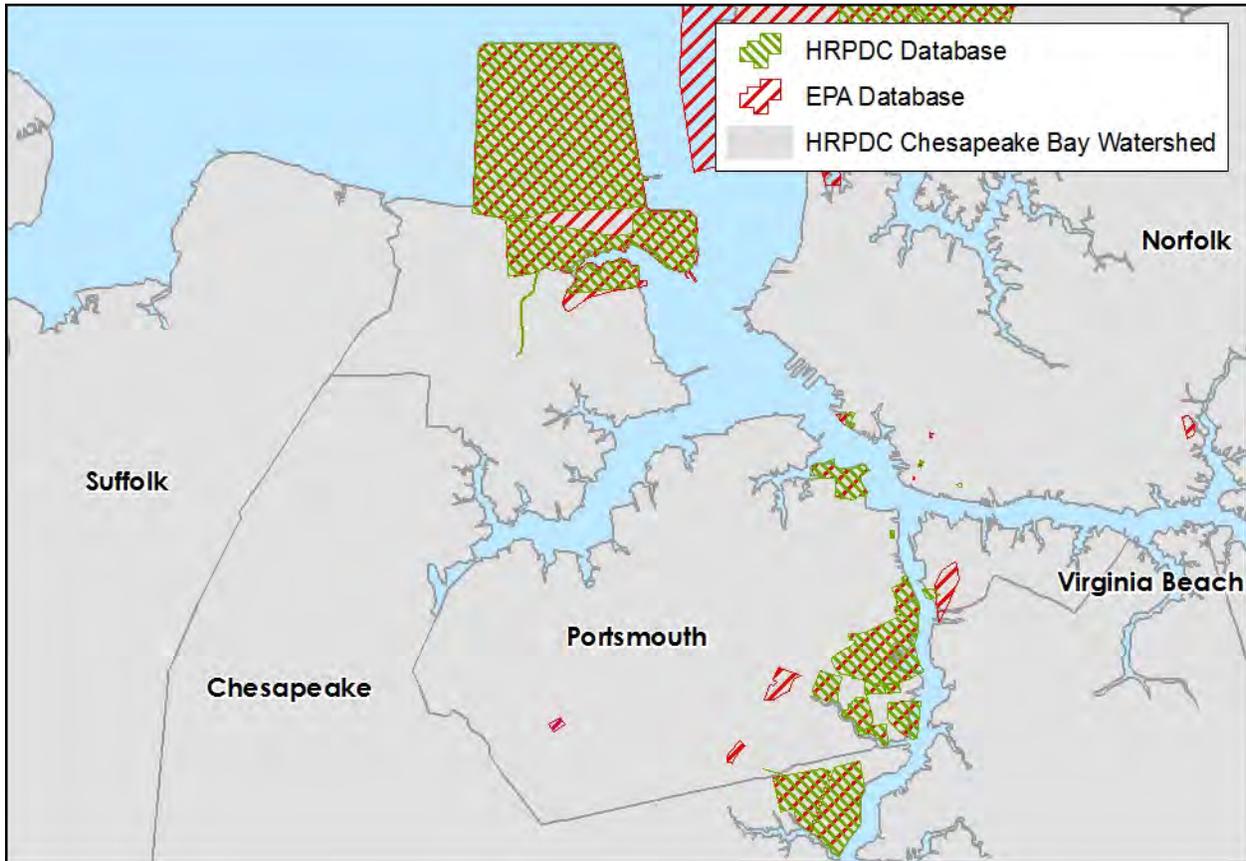


HRPDC’s boundary for NASA Langley appears to reach into Poquoson. NASA Langley is not included in the EPA database.

**Table 10: EPA vs. HRPDC Datasets, Poquoson**

Site	Military (yes/no)	EPA Area (acres)	HRPDC Area (acres)	Difference (acres)	% Diff.	Notes
NASA Langley	Yes	0.00	12.95	-12.95	-100%	Not in EPA Database
Plum Tree Island National Wildlife Refuge	No	3,063.94	3,063.91	0.03	0%	
TOTAL MILITARY	Yes	0.00	12.95	-12.95	-100%	
TOTAL OTHER FEDERAL	No	3,063.94	3,063.91	0.03	0%	
TOTAL FEDERAL	N/A	3,063.94	3,076.86	-12.92	0%	

## Portsmouth



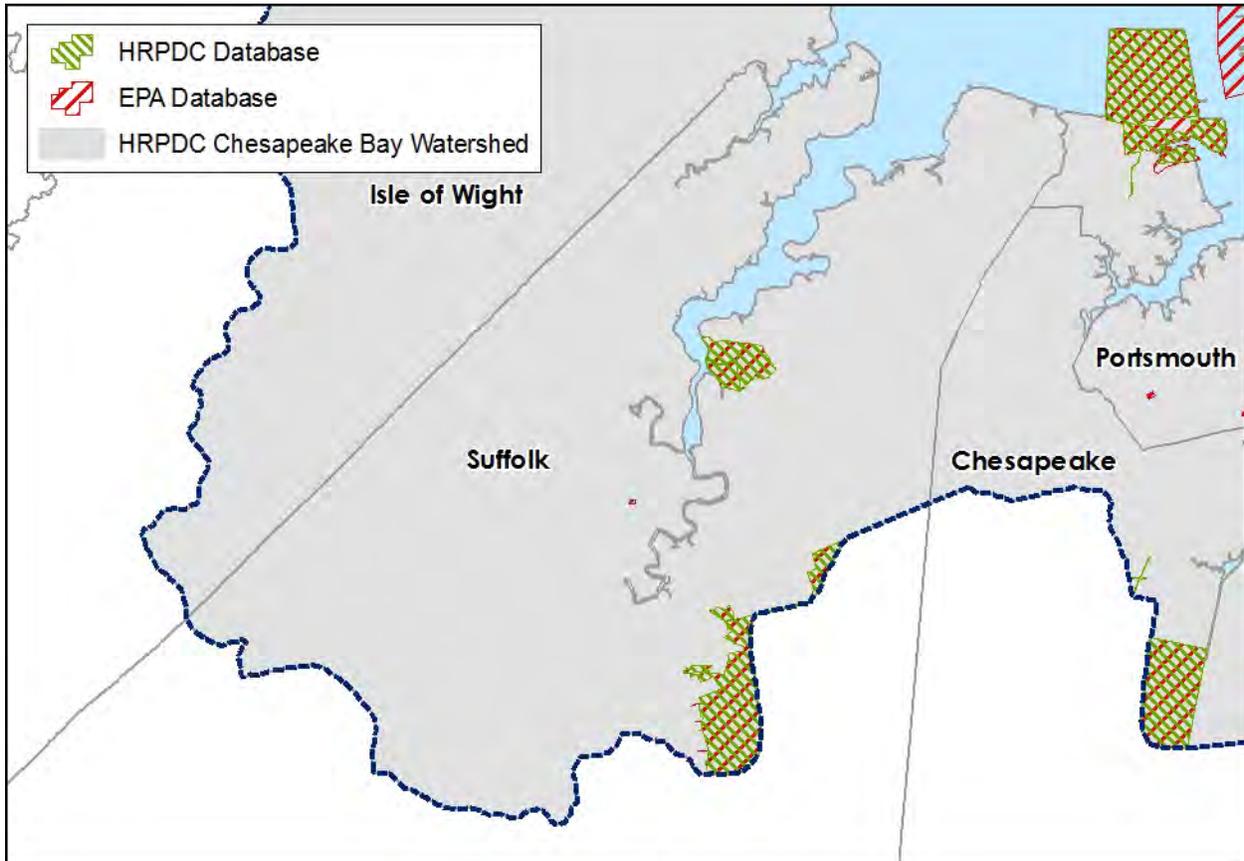
HRPDC’s database does not include the Army National Guard facility in Portsmouth, while EPA’s database does not include all of the U.S. Fifth District Coast Guard Command facility adjacent or near to the federal building. EPA’s boundary for Craney Island appears to include a large section that was sold to the City of Portsmouth by the Navy. EPA’s boundary for the Coast Guard base extends beyond HRPDC’s boundary. Discussions with the Navy indicated that several properties throughout the region are owned by the Navy but privately maintained as housing areas for base personnel. These areas would not be included in the Navy’s areas of responsibility regarding the Chesapeake Bay TMDL, so were excluded from HRPDC’s database, while the EPA’s retains them. Privately managed housing areas are not covered by the Navy’s permit, and development on these sites would be reviewed and approved by the City.

**Table 11: EPA vs. HRPDC Datasets, Portsmouth**

Site	Military (yes/no)	EPA Area (acres)	HRPDC Area (acres)	Difference (acres)	% Diff.	Notes
Army National Guard Portsmouth	Yes	10.54	0.00	10.54	100%	Not in HRPDC Database
CRANEY ISLAND	Yes	3,452.04	3,251.55	200.49	6%	Navy sold area to Portsmouth for landfill
Federal Building	No	1.25	1.01	0.24	24%	EPA polygon extends into Coast Guard Command

Site	Military (yes/no)	EPA Area (acres)	HRPDC Area (acres)	Difference (acres)	% Diff.	Notes
NAVAL MEDICAL CENTER	Yes	115.93	115.92	0.00	0%	
Naval Support Activity Norfolk Naval Shipyard	Yes	812.51	742.83	69.68	9%	Verified with Navy - Various outer properties
US Coast Guard Base	Yes	211.91	150.21	61.70	41%	Significant Discrepancy
US Fifth District Coast Guard Command	No	0.00	1.66	-1.66	-100%	Not in EPA Database
TOTAL MILITARY	Yes	4,602.92	4,260.51	342.41	8%	
TOTAL OTHER FEDERAL	No	1.25	2.67	-1.42	-53%	
TOTAL FEDERAL	N/A	4,604.17	4,263.18	340.99	8%	

## Suffolk

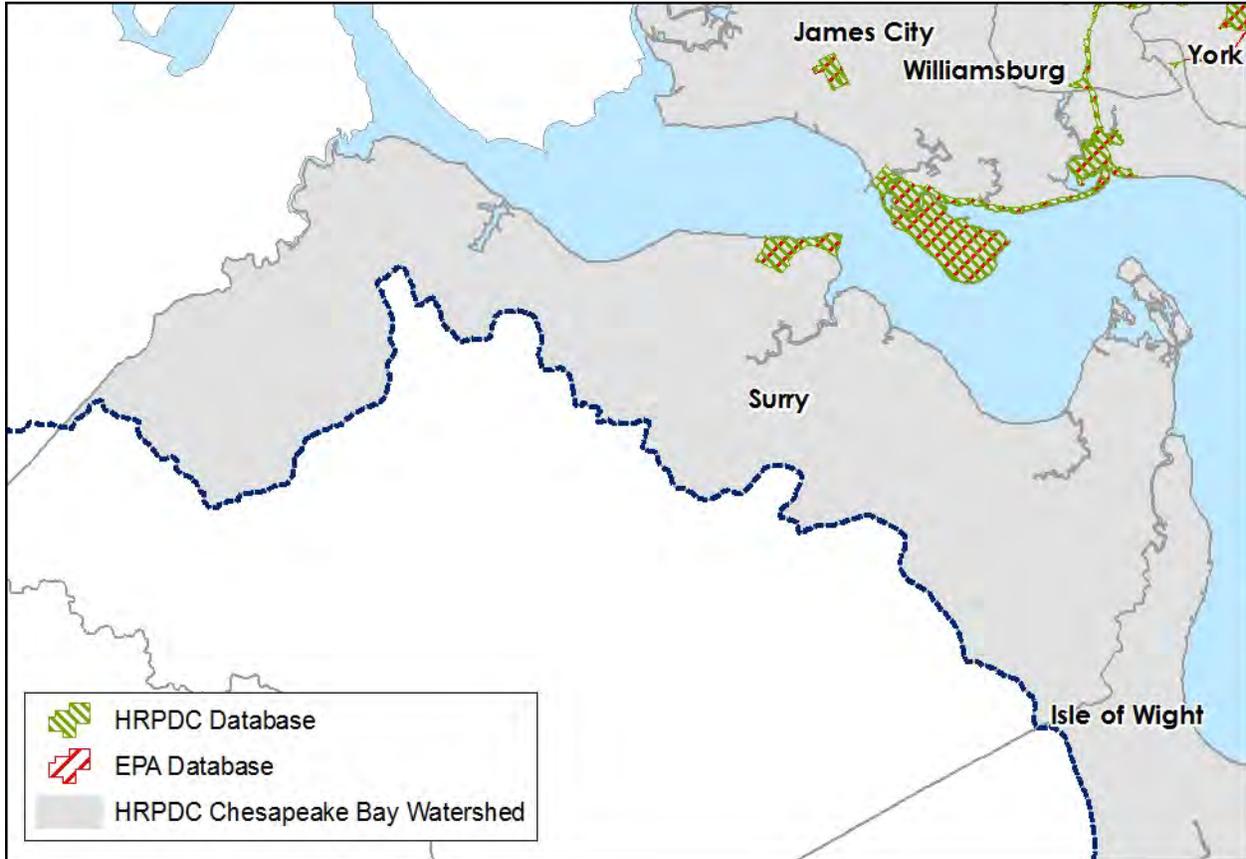


HRPDC’s database does not include the Suffolk Army National Guard facility. A former Navy facility near the Nansemond National Wildlife Refuge is included in both the EPA and HRPDC datasets, but the Navy states that it was sold to another party. Navy staff is looking into the transaction to determine to whom it was sold.

**Table 12: EPA vs. HRPDC Datasets, Suffolk**

Site	Military (yes/no)	EPA Area (acres)	HRPDC Area (acres)	Difference (acres)	% Diff.	Notes
Great Dismal Swamp	No	2,497.56	2,496.61	0.94	0%	
Nansemond National Wildlife Refuge	No	423.70	422.86	0.84	0%	
NRTF Driver Naval Transmitter Station	Yes	392.96	393.95	-0.98	0%	Navy claims property was sold
Suffolk Army National Guard	Yes	6.55	0.00	6.55	100%	Not in HRPDC Database
<b>TOTAL MILITARY</b>	Yes	399.51	393.95	5.56	1%	
<b>TOTAL OTHER FEDERAL</b>	No	2,921.26	2,919.47	1.78	0%	
<b>TOTAL FEDERAL</b>	N/A	3,320.77	3,313.42	7.35	0%	

## Surry County

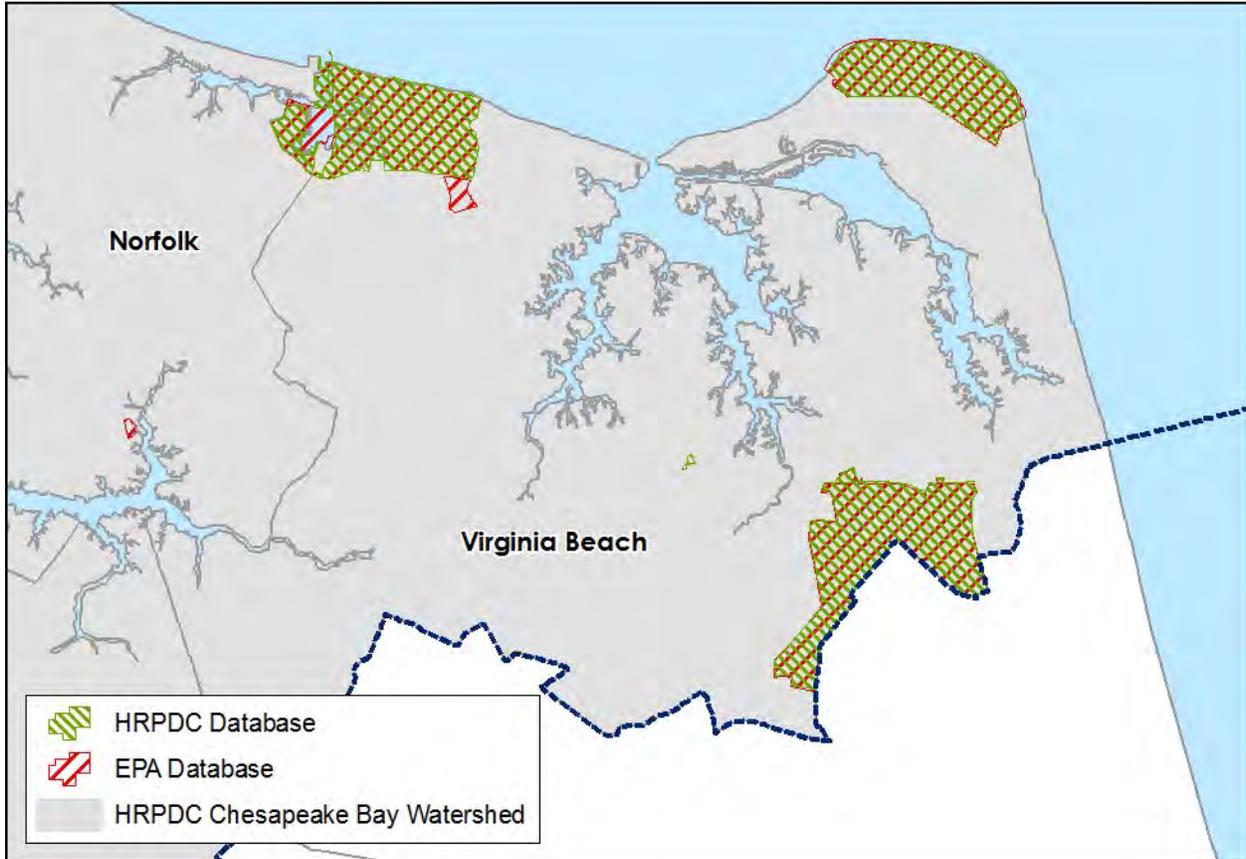


There were no major inconsistencies in Surry identified in the two datasets.

**Table 13: EPA vs. HRPDC Datasets, Surry County**

Site	Military (yes/no)	EPA Area (acres)	HRPDC Area (acres)	Difference (acres)	% Diff.	Notes
Colonial National Historical Park	No	456.49	456.49	0.00	0%	
TOTAL MILITARY	Yes	0.00	0.00	0.00	0%	
TOTAL OTHER FEDERAL	No	456.49	456.49	0.00	0%	
TOTAL FEDERAL	N/A	456.49	456.49	0.00	0%	

## Virginia Beach



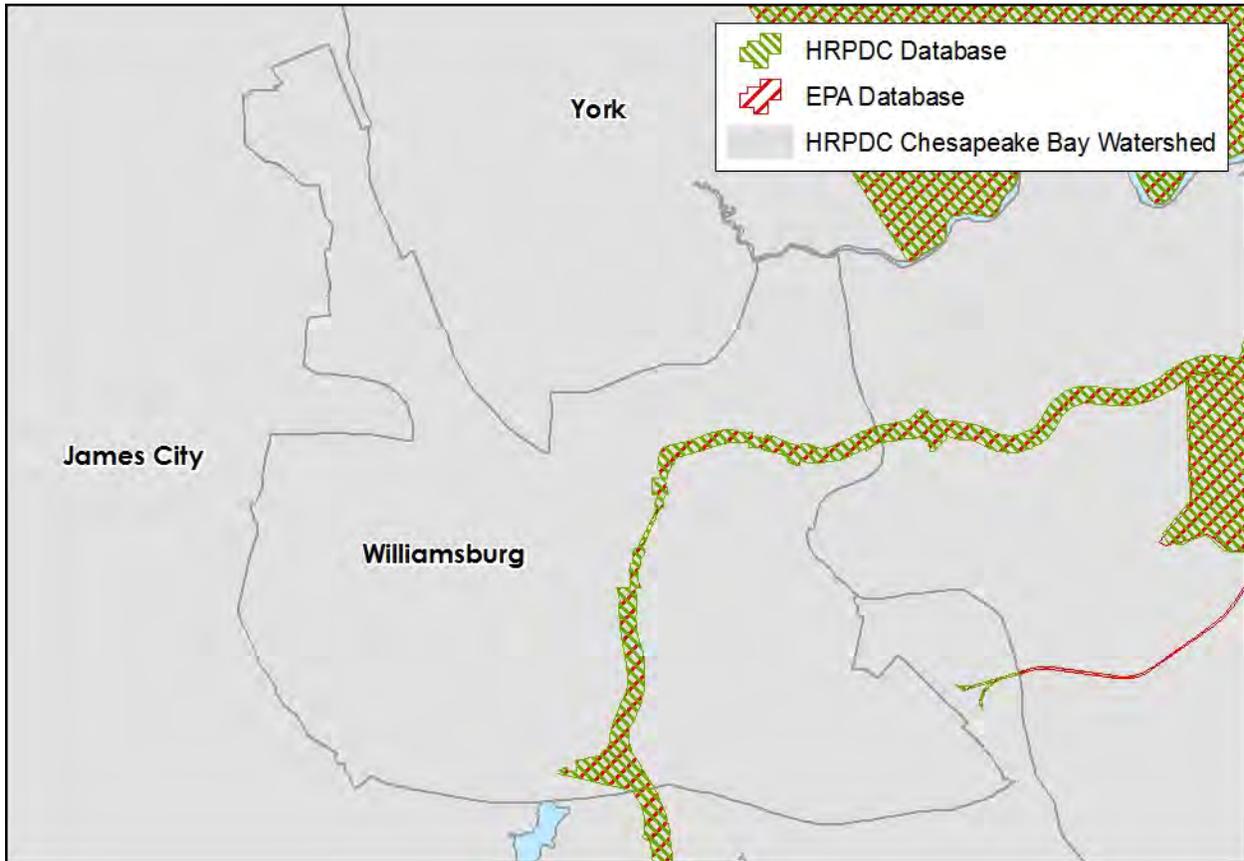
The 67<sup>th</sup> Street Beach Club and NEXCOM Headquarters facilities were not included in EPA’s dataset. The discrepancies for Fort Story and NAS Oceana are minor boundary issues. EPA’s boundary for Little Creek includes a significant amount of water as well as an off-base housing area that is privately maintained. Privately managed housing areas are not covered by the Navy’s permit, and development on these sites would be reviewed and approved by the City.

**Table 14: EPA vs. HRPDC Datasets, Virginia Beach**

Site	Military (yes/no)	EPA Area (acres)	HRPDC Area (acres)	Difference (acres)	% Diff.	Notes
67th Street Beach Club	Yes	0.00	0.12	-0.12	-100%	Not in EPA Database
Fort Story	Yes	1,516.18	1,469.72	46.46	3%	Boundary/shoreline discrepancy
Little Creek	Yes	2,286.53	2,024.27	262.26	13%	EPA includes outer PPV housing area; both areas include USCG facility
NAS Oceana	Yes	2,416.74	2,441.78	-25.04	-1%	Minor boundary discrepancy
NEXCOM Headquarters	Yes	0.00	9.74	-9.74	-100%	Not in EPA Database
<b>TOTAL MILITARY</b>	<b>Yes</b>	<b>6,219.46</b>	<b>5,945.64</b>	<b>273.82</b>	<b>5%</b>	

Site	Military (yes/no)	EPA Area (acres)	HRPDC Area (acres)	Difference (acres)	% Diff.	Notes
TOTAL OTHER FEDERAL	No	0.00	0.00	0.00	0%	
TOTAL FEDERAL	N/A	6,219.46	5,945.64	273.82	5%	

## Williamsburg

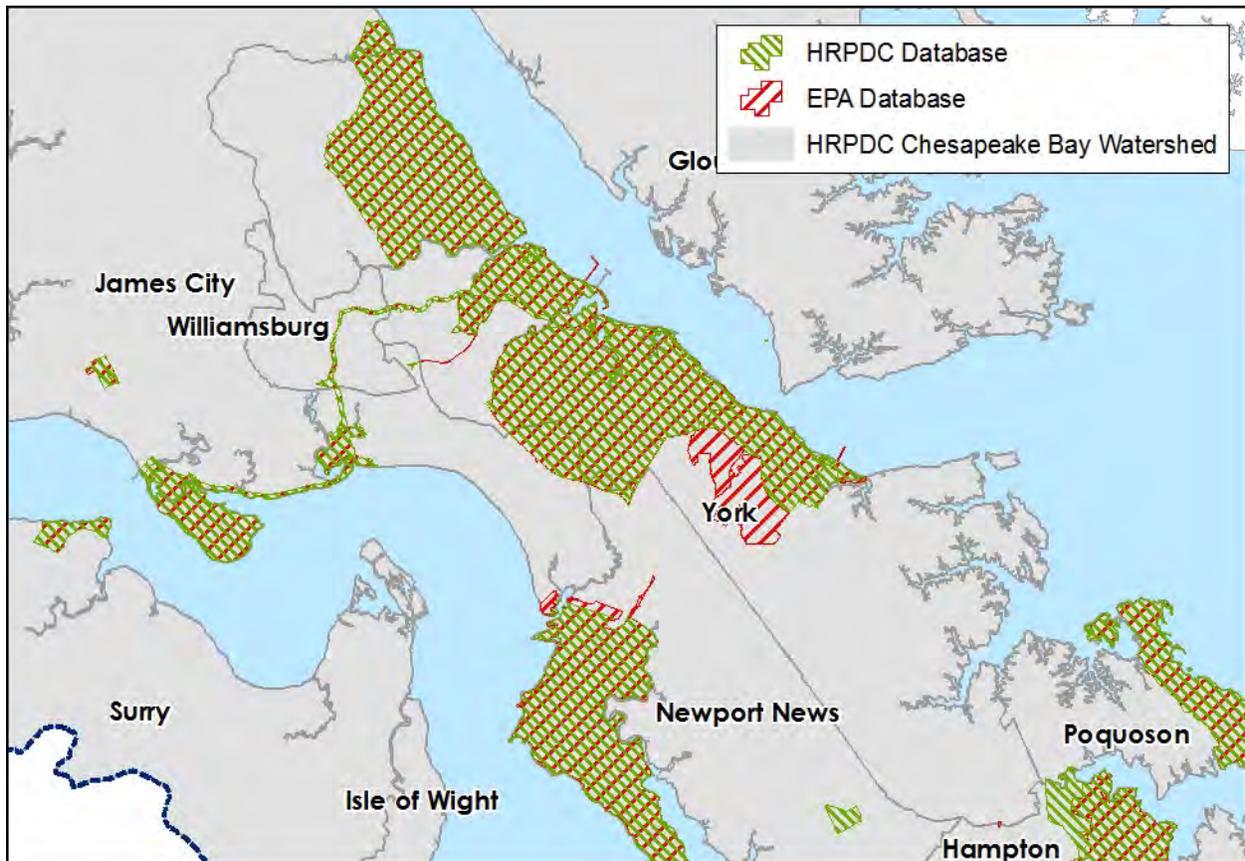


There were no major inconsistencies in Williamsburg identified in the two datasets.

**Table 15: EPA vs. HRPDC Datasets, Williamsburg**

Site	Military (yes/no)	EPA Area (acres)	HRPDC Area (acres)	Difference (acres)	% Diff.	Notes
Colonial National Historical Park	No	183.24	183.24	0.00	0%	
TOTAL MILITARY	Yes	0.00	0.00	0.00	0%	
TOTAL OTHER FEDERAL	No	183.24	183.24	0.00	0%	
TOTAL FEDERAL	N/A	183.24	183.24	0.00	0%	

## York County



The EPA dataset did not include a fuel depot that is part of the Yorktown NWS; this property was confirmed with the Navy. The HRPDC dataset did not include an Army National Guard facility in York. There are several boundary discrepancies concerning the Yorktown NWS and Colonial National Historic Park; it appears that several parcels have changed hands one or more times between the two agencies. While the owner appears to be debated, the area owned by the federal government remains the same. The EPA dataset’s boundary for the park includes two large areas that are not in the HRPDC dataset. The boundaries for the Coast Guard base are not consistent, but this appears to be due to the EPA’s including water and a pier in the facility.

**Table 16: EPA vs. HRPDC Datasets, York County**

Site	Military (yes/no)	EPA Area (acres)	HRPDC Area (acres)	Difference (acres)	% Diff.	Notes
Army National Guard York	Yes	2.09	0.00	2.09	100%	Not in HRPDC Database
Camp Peary	Yes	8,750.64	8,750.63	0.01	0%	
Colonial National Historic Park	No	5,856.51	3,831.30	2,025.21	53%	Major Discrepancy
NWS Yorktown	Yes	10,675.76	10,492.02	183.74	2%	Includes Cheatham Annex

Site	Military (yes/no)	EPA Area (acres)	HRPDC Area (acres)	Difference (acres)	% Diff.	Notes
U.S. Coast Guard Reservation	Yes	134.35	100.04	34.31	34%	Boundary discrepancy: water and pier
Yorktown Naval Weapon Station Fuel Depot	Yes	0.00	119.95	-119.95	-100%	Not in EPA Database
TOTAL MILITARY	Yes	19,562.84	19,462.64	100.20	1%	
TOTAL OTHER FEDERAL	No	5,856.51	3,831.30	2,025.21	53%	
TOTAL FEDERAL	N/A	25,419.35	23,293.94	2,125.41	9%	

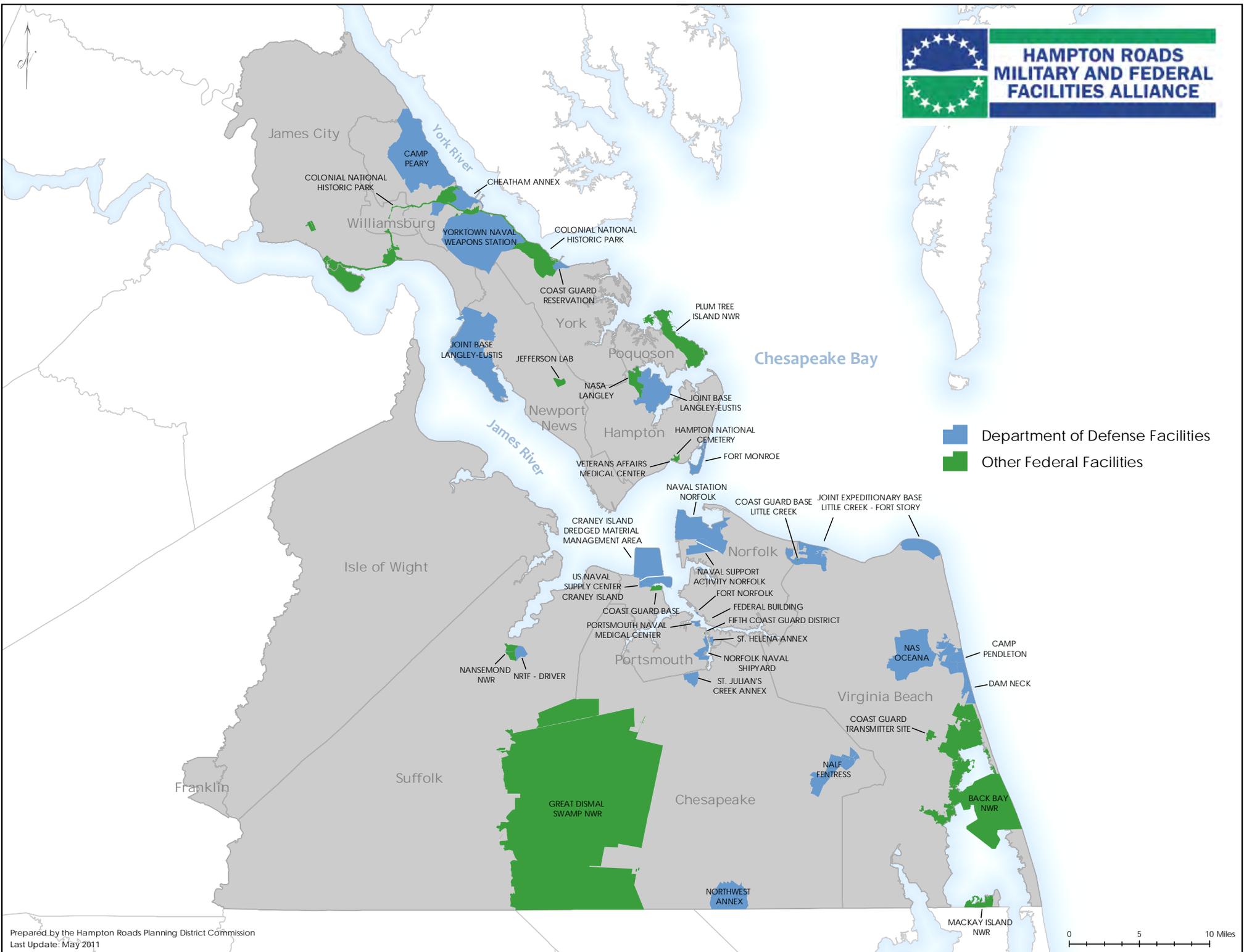
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**APPENDIX C**  
**ENVIRONMENTAL GEOGRAPHIC INFORMATION SYSTEM –**  
**SAMPLE MAPS**

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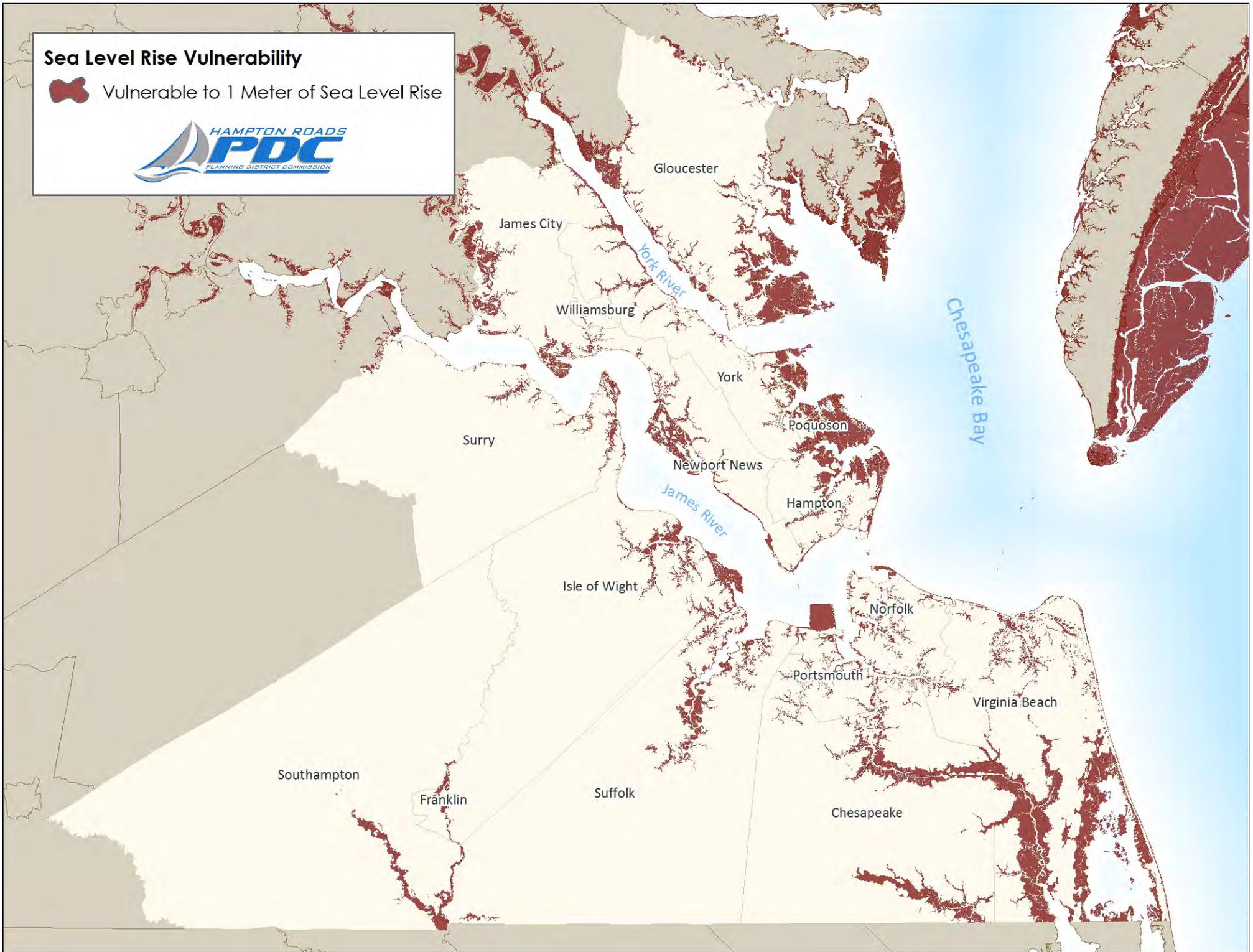
# HAMPTON ROADS MILITARY AND FEDERAL FACILITIES ALLIANCE



- Department of Defense Facilities
- Other Federal Facilities

### Sea Level Rise Vulnerability

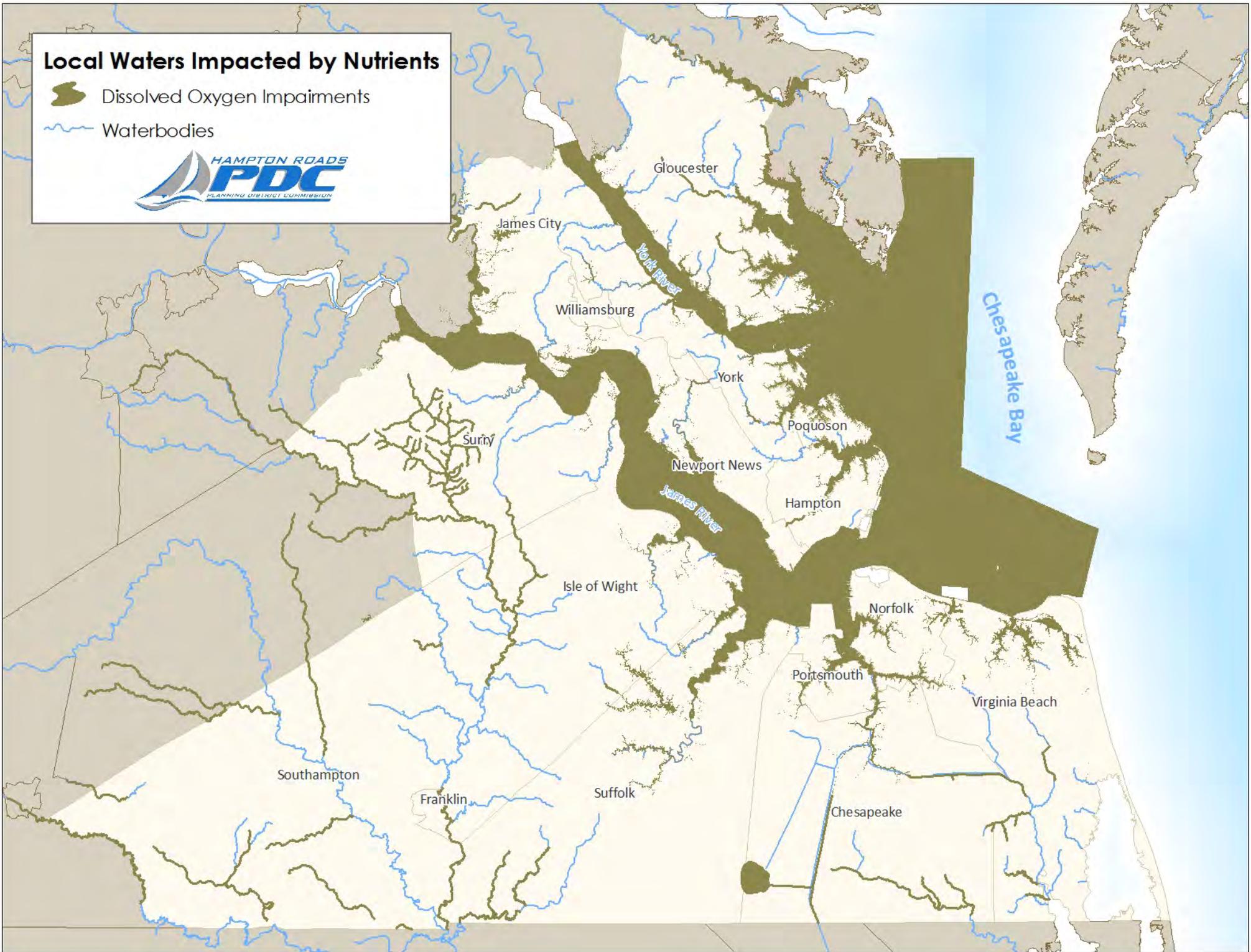
 Vulnerable to 1 Meter of Sea Level Rise



# Local Waters Impacted by Nutrients

 Dissolved Oxygen Impairments

 Waterbodies



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**APPENDIX D**  
**REPRESENTATIVE PUBLICATIONS**

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# New Federal Facilities Map



# Special Report

Vol. 1, Issue 1  
June 8, 2011

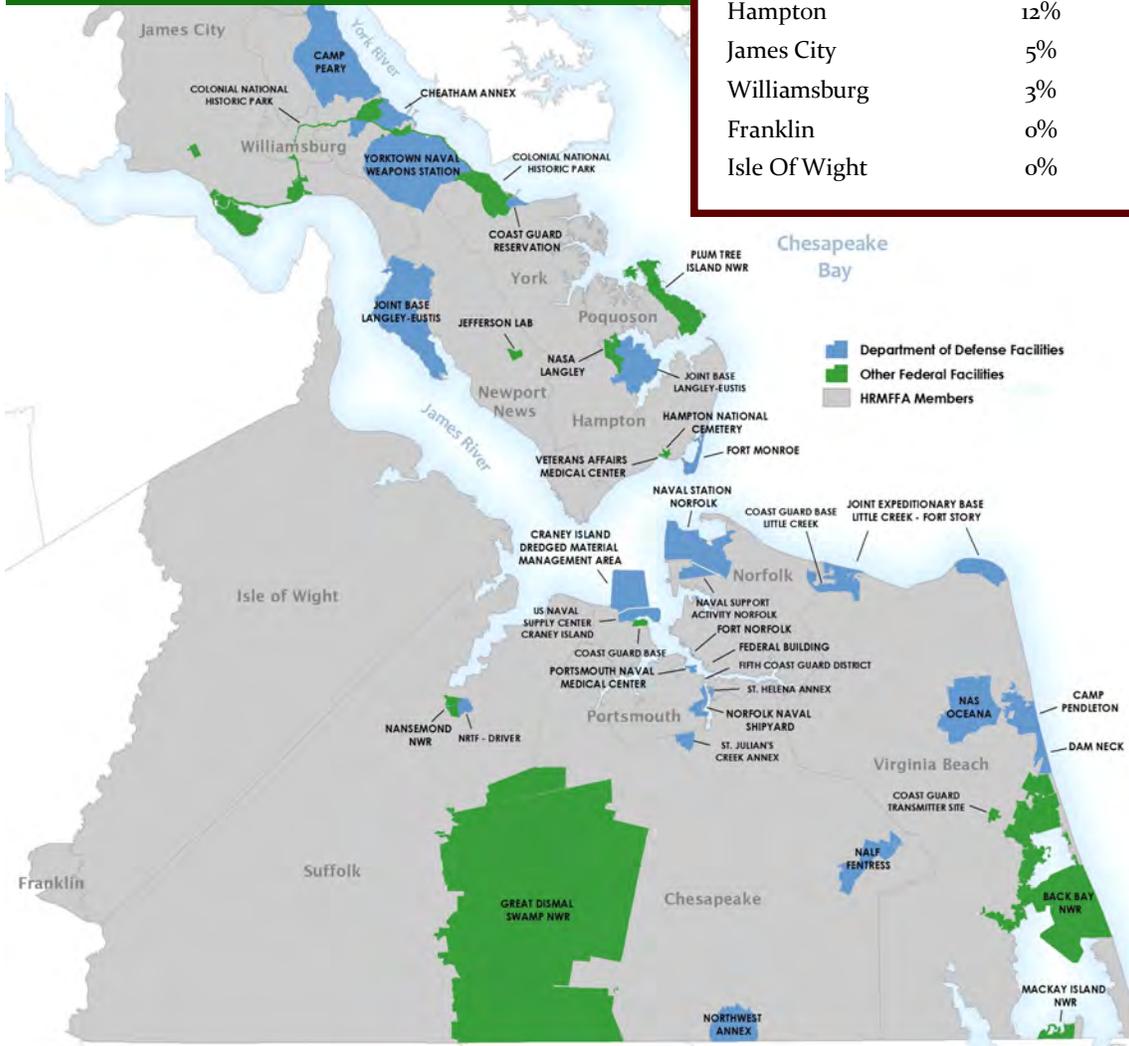
The federal government maintains a significant presence in Hampton Roads, as depicted on this map created by the Hampton Roads Planning District Commission (HRPDC). The largest federal land owner in Hampton Roads is the US Fish and Wildlife Service. There are five National Wildlife Refuges in the region totaling approximately 165 square miles. The next largest federal land owner is the US Department of Defense with approximately 94 square miles of properties.

Altogether, there are approximately 272 square miles of land owned by multiple federal agencies which accounts for about 9% of the total area represented by HRPDC localities.

The map was developed in partnership with the Hampton Roads Military and Federal Facilities Alliance (HRMFFA).

## Percent of Land Area Owned by Federal Government

Locality	% of total
York	34%
Poquoson	31%
Chesapeake	25%
Portsmouth	20%
Newport News	18%
Virginia Beach	17%
Norfolk	14%
Suffolk	14%
Hampton	12%
James City	5%
Williamsburg	3%
Franklin	0%
Isle Of Wight	0%



### Officers

**Stan Clark**  
Chair

**Thomas Shepperd**  
Vice-Chair

**James McReynolds**  
Treasurer

**Dwight Farmer**  
Sec./Exec. Director

### Staff

**John Carlock**  
Dep. Exec. Director

**Joe Turner**  
Communications Mgr.

**Sara Kidd**  
Senior Regional Planner

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Chesapeake, VA 23320

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<< Maintenance Level of Payroll Growth | If You See Something, Say Something, Report Suspicious Activity to Local Law Enforcement or Call 911 >>

## Using GIS: A Critical Tool for Planners

By Joe 23. August 2011 14:23

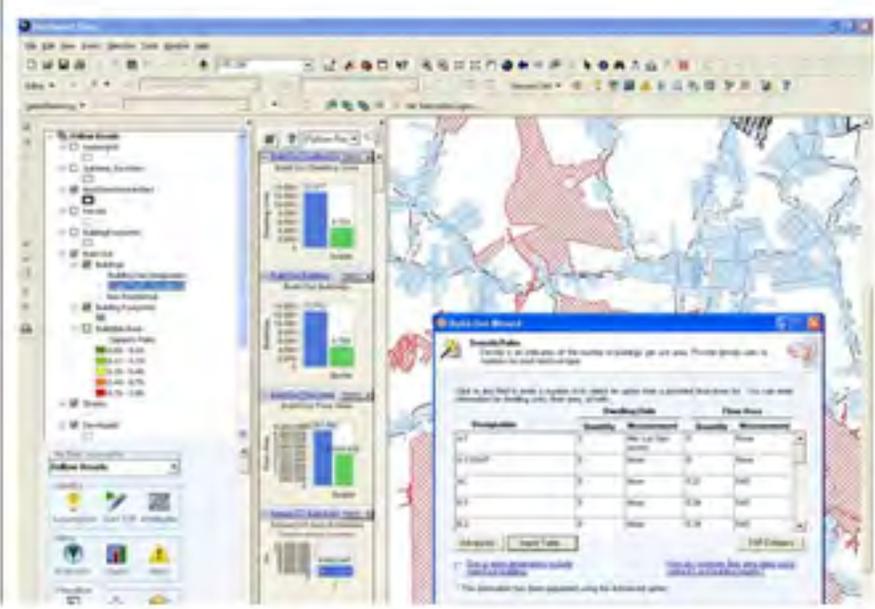
Sara Kidd  
Senior Environmental Planner

A Geographic Information System (GIS) is defined as a collection of computer mapping hardware and software that aids in analyzing geographic information in order to understand the distribution of certain characteristics across the landscape (whether a single property or across the world). This leads to better decision-making by those involved in the issues at hand.

Since planners act as a bridge between local, state, and federal government decisions makers and the public, GIS is a critical tool used by planners at all levels to analyze information about a community. Planners use GIS for several purposes:

- Visualization and analysis of data
- Visioning exercises with the public or elected officials
- Creating plans (such as comprehensive plans, transportation plans, etc.)
- Public participation and communication through online mapping portals and mobile mapping technologies

The full article describing these functions of GIS in planning can be found at the Virginia Chapter of the American Planning Association website<sup>1</sup>.



### About the HRPDC

The Hampton Roads Planning District Commission (HRPDC), one of 21 Planning District Commissions in the Commonwealth of Virginia, is a regional organization representing the sixteen local governments in southeastern Virginia.

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  - [Economics \(66\)](#)
  - [Emergency Management \(29\)](#)
  - [Housing \(11\)](#)
  - [Planning \(29\)](#)
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    - [February \(7\)](#)
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  - 2010

### Calendar

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<< HR Green Electronics Recycling Events – November 15, 2011 – America Recycles Day | Hampton Roads Completes Regional Water Supply Plan >>

## Recreational Trails in Hampton Roads

By Joe Turner HRPDC Communications Manager

10-November 2011 08:47

By Sara Kidd  
 Senior Regional Planner

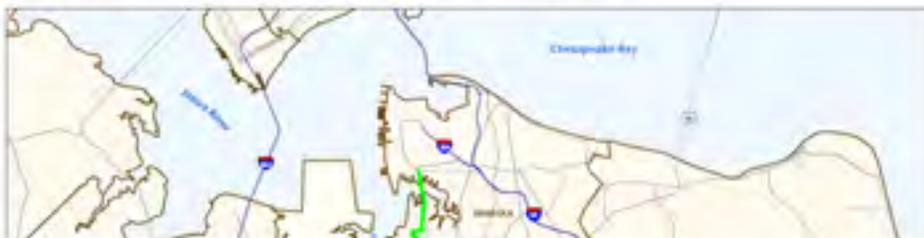
Whether you enjoy biking, walking, riding horses, or boating, Hampton Roads has plenty of recreational trails for all tastes. Some highlight the region's history while others connect areas of outstanding natural beauty. Several trails are national in scope while others are state and regional trails. Some of the trails are partially completed or still in the planning process and most aim to overlap or connect with other trails. On behalf of the member localities, the HRPDC staff is participating on trail planning committees for most of these efforts and working with the localities to incorporate the trails into local and regional plans.

At the national level, there are several important trails passing through Hampton Roads. First, the Captain John Smith Chesapeake National Historic Trail<sup>®</sup> highlights the voyages that John Smith took throughout the Chesapeake Bay in 1607-1609. The Smith Trail is primarily a water trail with several points of interest that can be reached by land or water. In the Hampton Roads area, Smith explored the James River, Chickahominy River, Nansemond River, Elizabeth River, and York River.

The East Coast Greenway<sup>®</sup> is a planned 3,000-mile trail system connecting Maine to Florida and linking all the major cities along the Atlantic Coast. The goal is to create off-road multi-use paths for as much of the trail as possible. Currently, over 25% is already completed. A spur of the East Coast Greenway is proposed to pass through Hampton Roads along the Virginia Capital Trail<sup>®</sup> near Williamsburg, across the James River ferry, and through south Hampton Roads along the Dismal Swamp Canal Trail.

The Dismal Swamp Canal Trail exists in both Chesapeake, VA and Camden County, NC, following along Highway 17. The two trails do not yet meet and are separated by 4 miles. A proposed connector trail will join these two existing trails together. Currently, the initial design work for the trail is being done and funding being sought to complete it. This trail is a multi-use path for bikers, walkers, and horses.

The national bike route known as the TransAmerican Bicycle Trail<sup>®</sup> currently terminates in Williamsburg after a 4,254 mile run from Oregon. Planners are looking at possibly extending the trail to Virginia Beach via the proposed South Hampton Roads Trail (SHRT). The SHRT aims to connect 41 miles of varying types of facilities (rails to trails, on-road bicycle routes, widened shoulders, ferries, etc.) between downtown Suffolk and Virginia Beach resort area. Some segments of the SHRT already exist while others are still in a development phase or conceptual phase.



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