

Year: 2008

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NAO8NOS4190466
for the period from October 2009 to March 2010

Task: 1 Dept. of Environmental Quality - Virginia Coastal Zone Management Program
Coastal Program Management

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	10/30/2009
Closed	Start: End: Closeout:			
	10/1/2008 3/31/2010 6/30/2010			

All funds that had remained in Task 1 as of October 1, 2009 were reprogrammed during this period. Under our 10% authority, \$3,500 was transferred to Task 12.01 (Accomack County BGI Planning) to allow for training of planning commissioners and County staff. With approval through the NOAA Grantsonline System, \$26,046 was transferred to Task 13 (CZM/Taylor Tract Land Acquisition); \$9,00 to Task 2.02 (MPPDC Floating Homes Policy); and \$24,050 to Task 2.03 (VIMS Evaluation of Shoreline Management Plan Methods).

Task: 1.01 Virginia Institute of Marine Science - Chesapeake Bay National Estuarine Research Reserve System
Coastal Program Management Support

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	10/30/2009
Closed	Start: End: Closeout:			
	10/1/2008 9/30/2009 12/31/2009			

Task: 1.02 Virginia Commonwealth University
Coastal GIS Support

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached	4/30/2010
Closed	Start: End: Closeout:			
	10/1/2008 9/30/2009 12/31/2009			

This project is complete and final products are attached.

Task: 1.03 Dept. of Environmental Quality - Virginia Coastal Zone Management Program
Outreach & Publications

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: End: Closeout:		
	10/1/2008 9/30/2010 12/31/2010		

Remaining funds in this extended task are being:

- used to procure two (2) upgrades of Adobe Creative Suite used by the Outreach Coordinator and Outreach Specialist to produce the program's outreach materials and a new license for Creative Suite 5.0 for the GIS Specialist to produce map images for the program's outreach materials and to print large-scale maps for policy development meetings and exhibits. Three (3) copies of Adobe Acrobat were purchased to allow staff to package (combine multiple PDF documents) and submit grant applications and final grant products to NOAA.
- set-aside to print interpretive signs for A NEW Living Shoreline demonstration site in Oyster being installed by The Nature Conservancy as well as funding to sponsor two educational events initiated by Virginia CZM - the 2010 Eastern Shore Birding and Wildlife Festival and 2010 Dragon Run Day.
- transferred (\$8,454) to FY08 Task 13 to support songbird habitat restoration and installation of a new native plant demonstration garden at Kiptopeke State Park through the Plant ES Natives campaign.

Final Products	% Completion	Anticipated Completion Date
Virginia Coastal Zone Management Magazine	Production Delayed	Early 2010
Website Development and Maintenance	100%	September 30, 2009
Program Exhibits and Distribution of Material	100%	September 30, 2009
Program Campaigns and Events	100%	September 30, 2009

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Task: 2 Dept. of Environmental Quality Subcontract
Quick Response Grants

Project status: Current approved Final deliverable(s) status: Funds transferred out of this task
Pending Start: End: Closeout:
10/1/2008 6/30/2010 9/30/2010

\$473 still remains in this task but will be reprogrammed during the April through June 2010 quarter.

Task: 2.01 Back Bay Restoration Foundation
Back Bay Restoration Foundation "State of the Bay" Conference

Project status: Current approved Final deliverable(s) status: Previously Submitted 10/30/2009
Closed Start: End: Closeout:
1/1/2009 6/30/2009 9/30/2009

Task: 2.02 Middle Peninsula Planning District Commission
Law and Policy Regarding Floating Homes

Project status: Current approved Final deliverable(s) status: Project Period Open
Open Start: End: Closeout:
12/1/2009 9/30/2010 12/31/2010

The project will collaboratively study the issue of floating homes (boats that act more like a single family residence and less like a vessel). MPPDC staff is currently assembling a stakeholder team to address the following issues of concern

- o What is a floating home
- o When should local government become concerned about management issues
- o What public services should or could be required
- o How might these homes be taxed
- o Definition of transience
- o Discussion of visual appealing versus visually appalling
- o Use of zoning as a tool to manage areas of moorage
- o Recommendations for a policy to restrict floating homes in Gloucester County

MPPDC staff has also established a partnership with the National Sea Grant Law Center to articulate how other coastal localities define and manage floating homes.

Final Products	% Completion	Anticipated Completion Date
Establish a Floating Home Study Committee	5%	Sept 30 2010
Report from the National Sea Grant Law Center: Law and Policy Research Regarding Floating Homes	100%	done
Education and Outreach- Virginia Sea Grant/VIMS Advisory Report	5%	Sept 30 2010

Task: 2.03 Virginia Institute of Marine Science
A Critique of Existing Methodologies for Developing Shoreline Management Plans for Local Governments

Project status: Current approved Final deliverable(s) status: Project Period Open
Open Start: End: Closeout:
1/1/2010 9/30/2010 12/31/2010

The signed contract for this grant was not received until April 8, 2010. Therefore, there was no progress or financial expenditures made on this grant during this time period.

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Task: 3 Dept. of Environmental Quality - Environmental Impact Review
Environmental Impact Review and Federal Consistency

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	10/30/2009
Closed	Start: End: Closeout:			
	10/1/2008 9/30/2009 12/31/2009			

Task: 4 Dept. of Environmental Quality - Environmental Education
Community Environmental Education

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Open	Start: End: Closeout:		
	10/1/2008 9/30/2009 12/31/2009		

Task: 5 Dept. of Environmental Quality - Chesapeake Bay Program
Water Quality Improvement Fund Match (Tappahannock Wastewater Treatment Plant Upgrade for Nutrient Removal)

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted
Closed	Start: End: Closeout:		
	10/1/2008 9/30/2009 12/31/2009		

Task: 6 Virginia Marine Resources Commission
Permit Review and Compliance

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2008 9/30/2009 12/31/2009		

Task: 7 Dept. of Conservation & Recreation - Natural Heritage
Habitat Conservation/ Locality Liason

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2008 9/30/2009 12/31/2009		

Task: 8 Virginia Institute of Marine Science
Tidal Wetlands Management Support

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted
Closed	Start: End: Closeout:		
	10/1/2008 9/30/2009 12/31/2009		

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VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
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Task: 9 Virginia Institute of Marine Science
2008 Submerged Aquatic Vegetation Distribution and Abundance Survey of Virginia's Chesapeake Bay and its Tributaries

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2008 12/31/2009 3/31/2010		

Task: 10 Dept. of Conservation & Recreation
Eastern Shore Land Acquisition Morgan Tract 8 acres

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Open	Start: End: Closeout:		
	2/1/2009 12/31/2009 3/31/2010		

DCR closed on the 26 acre tract in December 2009 using funds from this task as well as from FY 2007 Task 11 and proceeds from the May 2008 James Taylor migratory songbird benefit concert.

Task: 11.01 Dept. of Conservation & Recreation
NEMO Support for Sustainable Community Planning

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2008 9/30/2009 12/31/2009		

Task: 11.02 Dept. of Game & Inland Fisheries/VCU/DCR
Assessment of Priority Green Infrastructure

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2008 9/30/2009 12/31/2009		

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VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NAO8NOS4190466
for the period from October 2009 to March 2010

Task: 11.03 Virginia Institute of Marine Science

Estuarine Blue Infrastructure: Final Priority Conservation Areas for Chesapeake Bay and its Tidal Tributaries and Back Bay

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Open	Start:	End:	Closeout:		
	10/1/2009	3/31/2010	6/30/2010		

FY 2007 Task 93.04 developed the cumulative resources assessment for aquatic areas based on available data for the Chesapeake Bay and Back Bay regions of coastal Virginia. This project further refines the evaluation by assigning importance values to the collection of resources found in any one location and ranking areas for conservation need based on the assessment.

To date an analytical method for ranking areas has been developed and applied to the pilot study area being addressed under a different project. That method is now being applied and the model run for the study region defined by this project. A draft review of that model run has also occurred.

Developing linkages between conservation planning in the terrestrial and estuarine systems of the coastal landscape – green and blue infrastructure is also an element of importance in this study. Specifically the project proposed and has conducted an extensive review of existing conservation targeting efforts accomplished under an earlier effort (FY 2008 Task 11.02). Some of this effort has been incorporated in this study. Other elements have been eliminated, but the baseline data preserved.

Still to be developed are the linkages between the Aquatic Priority Conservation Areas identified in this study with the terrestrial Priority Conservation Areas identified in other activities. Connectivity between the two will be indicative of highly valued waters. The study must also still address the vulnerability of these lands to sea level rise.

Final Products	% Completion	Anticipated Completion Date
Ranking of Cumulative Resource Areas	85	April, 2010
Metadata Development	75	5-31-2010
Linkages with Upland Conservation Areas	0	5-31-2010
Assessment of sea level rise vulnerability	0	5-31-2010

Task: 12 TBD

Sustainable Community Planning

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Canceled
Cancelled	Start:	End:	Closeout:		
	10/1/2008	9/30/2009	12/31/2009		

Funds for Task 12 have all been allocated to Tasks 12.01 - 12.08.

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Task: 12.01 Accomack County

Accomack County Blue-Green Infrastructure Planning

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Open	Start:	End:	Closeout:		
	5/1/2009	4/30/2010	9/30/2010		

Task 1. Technical Literature Review and Data Assessment Report

Accomack County staff and Green Infrastructure Center staff have collected and reviewed existing county data and have evaluated its adequacy and accuracy for blue and green infrastructure planning. A report has been prepared that details what studies are available and how they might be applied to the project assessment. The existing studies report includes: a data evaluation matrix based on available data; how the data can be used to map the county's green infrastructure assets and priorities; and what the data tell Accomack County about the condition/priority of the resource.

Task 2. Accomack County Blue and Green Infrastructure Asset Maps

Accomack County staff has completed updated base maps using existing data. The Coastal GEMS data has been incorporated into the project. The themed layers were completed in December 2009. The data assessment report lists all of the data sources that have been compiled to complete the asset maps, which are 100 percent complete. The asset maps serve as the basis for the opportunity mapping that is being completed as Task 3 during Phase II of the project. A presentation outlining progress to date and examples of the maps is available at: <http://gicinc.org/accomack.htm>

Task 3. Planning Commissioner Certification Training

Four Accomack County Planning Commissioners and three Department of Planning staff members have completed the Virginia Certified Planning Commissioner Training Program. The training began on January 28, 2010, and was completed on March 31, 2010.

Final Products	% Completion	Anticipated Completion Date
1. Technical Literature Review and Data Assessment Report	100 %	
2. Accomack County Blue and Green Infrastructure Asset Maps	100 %	
3. Accomack County Planning Commissioner training Report	100 %	

Task: 12.02 George Washington Regional Commission

Blue-Green Infrastructure Protection- Developing a Conservation Corridor Plan for the GW Region, Phase 1

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Closed	Start:	End:	Closeout:		
	10/1/2008	9/30/2009	12/31/2009		

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VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
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Task: 12.03 Hampton Roads Planning District Commission
Hampton Roads Climate Change Adaptation

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Attached
Closed	Start:	End:	Closeout:	
	10/1/2008	12/31/2009	3/31/2010	

Collection and Analysis of Available Information on Climate Change

HRPDC staff has completed the collection of information phase of the regional climate change project. This phase has focused on researching the general impacts of climate change as well as more specific impacts to the Hampton Roads region and to various sectors. This information is being consolidated into a general information document that will also include some technical analysis. Research on adaptation and mitigation measures is also being included in this document. Several case studies have been documented and analyzed for future use and reference by HRPDC staff for the next phase of the project.

Facilitation of Presentations and Discussion of Climate Change Issues

HRPDC staff continued the process of meeting with regional stakeholders in the Hampton Roads region. A large meeting with a broad range of attendees was held October 29, 2009. The agenda for the meeting included research presentations on the modeling of the impact of sea level rise on storm surge and how that could affect infrastructure and development in the region. HRPDC staff presented initial findings of the regional climate change impact study. HRPDC staff also initiated the process of putting together a regional climate change working group that would meet over the next two years to help HRPDC staff create a regional framework for adapting to climate change.

HRPDC staff has continued to promote awareness of the implications of climate change at the local government staff level. HRPDC staff has also been in contact with organizations involved in research and other projects related to climate change. HRPDC staff attended several workshops on climate change over the three-month period, including a Pew Research Center forum, a symposium hosted by the University of Virginia, and a discussion hosted by Old Dominion University. HRPDC staff continued to inform local government staff through monthly meetings of the regional Joint Environmental Committee, a group composed of public works, planning, and environmental local government staff from member jurisdictions. HRPDC staff has also continued discussions with Noblis to determine whether any sharing of information or assistance between projects may be helpful. An overview of this project was presented to the HRPDC Executive Committee at its meeting on December 16, 2009.

Development of a Framework for the Response to Climate Change

HRPDC staff has completed an initial version of the Framework. The Framework will be modified and completed in the second and third years of the project. The synoptic report has been completed and submitted to VA CZM.

Final Products	% Completion	Anticipated Completion Date
Collection and Analysis of Available Information on Climate Change	100%	December 2009
Facilitation of Presentations and Discussion of Climate Change Issues	100%	December 2009
Development of a Framework for the Response to Climate Change	100%	December 2009

Task: 12.04 Middle Peninsula Planning District Commission

Middle Peninsula Climate Change Adaptation- An Assessment of Potential Anthropogenic and Ecological Impacts of Climate Change on th

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Attached
Closed	Start:	End:	Closeout:	
	10/1/2008	9/30/2009	12/31/2009	

Year: 2008

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NAO8NOS4190466
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Task: 12.05 Northern Neck Planning District Commission
Northern Neck Blue-Green Infrastructure Protection

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Attached
Closeout	Start:	End:	Closeout:	
	10/1/2008	12/31/2009	3/31/2010	

NNPDC staff presented at the Richmond County Planning Commission Meeting on 10-5-09, by defining green infrastructure and the benefits accrued from incorporating Green Infrastructure into the County Comprehensive Plan. In addition, maps of the Virginia Department of Conservation and Recreation (DCR) Virginia Conservation Needs Land Assessment for Richmond County were shown. While not all members were in agreement, the majority understood how green infrastructure can preserve open space and help retain the rural character of Richmond County. On 10-28-09, NNPDC staff met with Richmond County staff to decide the best approach to getting Green Infrastructure components into the current revision of the Comprehensive Plan. Richmond County already has conservation areas in their current Comprehensive Plan's Future Land Use map, and County staff were pleased how it corroborated the existing conservation areas. When examining the remainder of the county, looking for areas that were not slated for future development, the Cat Point Creek area was the most logical choice for inclusion into the conservation areas by county staff. On 12-28-09, NNPDC staff presented at the Richmond County Comprehensive Plan Committee Meeting, and proposed adding Cat Point Creek as a new conservation area in the new Comprehensive Plan. The committee agreed that the new area would be added to the new Comprehensive Plan's Future Land Use Map. That being said, the Richmond County Planning Commission and Board of Supervisors have the final say as to whether the new conservation area stays in the new Comprehensive Plan's Future Land Use Map. NNPDC staff presented at the 10-5-09 Westmoreland County Planning Commission Meeting, displaying DCR's VCLNA data maps, and requesting that they use their local knowledge to identify areas in the County that might be better left in a natural state, or areas to stay in forest or agriculture production. The chairman of the Westmoreland County Planning Commission stated that all of the cores in the VCLNA maps were important, and that they should include all areas that DCR mapped as important. The chairman noted that the VCLNA core maps should be included in the new Comprehensive Plan, and be used in an advisory capacity by the Planning Commission and Board of Supervisors for future development screening. The chairman requested that the GIS data be added to the county GIS so that future development projects can be scored to see if they impact any of these important resources. A negative score would be given to projects that impact resources identified in the VCLNA data layers, potentially leading to a denial of the project in order to protect multiple valuable resources identified in the VCLNA. The following VCLNA maps will be in the newly revised Comprehensive Plan (although the Planning Commission and Board of Supervisors give the final approval) Conserved Lands, Conservation Sites, Natural Area Cores, Natural Area Corridors and the VCLNA Cultural Model.

NNPDC staff responded to requests for data relevant to land conservation from the Richmond County Comprehensive Planning Committee meeting that took place on December 28, 2009. The data the committee requested was the total land (acreage and percent of county land area) of 1) currently conserved land in the County (either through private conservation easements or the Rappahannock River Valley National Wildlife Refuge); 2) total land covered by the existing comprehensive plan's conservation areas, 3) total area and percent of the existing conservation areas minus the area of wetlands and the 100 foot Chesapeake Bay Resource Protection Area; 3) total area and percent of the newly recommended conservation area (Cat Point Creek); 4) total area and percent of the newly recommended conservation area (Cat Point Creek) minus the area of wetlands and the 100 foot Chesapeake Bay Resource Protection Area.

NNPDC staff completed the analysis and created maps to illustrate most of the scenarios the Comprehensive Planning Committee requested. NNPDC staff will present the data and maps at an upcoming Richmond County Comprehensive Planning Committee meeting on April 26, 2010.

NNPDC staff created the Consensus Building Report and compiled the data and maps produced for each county blue-green infrastructure planning project. The compilation of data produced was combined into one report in Portable Document Format (PDF) for documentation of activities undertaken in the grant period as a final deliverable.

Final Products	% Completion	Anticipated Completion Date
Draft Richmond and Westmoreland Blue Green Infrastructure Plan	100%	February 15, 2010
Planning Commission/Consensus Building Report	100%	February 31, 2010

Task: 12.06 Northern Virginia Regional Commission
Northern Virginia Climate Change Adaptation- Sustainable Shoreline Community Management, Phase I

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Attached
Closed	Start:	End:	Closeout:	
	10/1/2008	9/30/2009	12/31/2009	

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2008

**Performance Report, Section A, for Cooperative Agreement No. NAO8NOS4190466
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Task: 12.07 Richmond Regional Planning District Commission
Central Virginia Blue-Green Infrastructure Protection

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2008 9/30/2009 12/31/2009		

Task: 12.08 Northampton County
Northampton Co. Blue & Green Infrastructure Protection, Phase I

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start: End: Closeout:		
	6/1/2009 12/31/2009 6/30/2010		

Task/Product #1: interim stormwater management ordinance—Sandra Benson, Planning Director, and Melissa Kellam, Zoning Administrator, worked with the county’s contract engineer John Salm during the period 10/15/09 through 3/8/10 in order to develop a draft ordinance based on the VA Department of Conservation & Recreation’s 2001 model ordinance. The decision was made to revert to the 2001 model based on guidance from DCR staff, due to uncertainty about the future of the revised state stormwater regulations. The document has been reviewed by the County Attorney’s Office, and comments were provided by Bruce Jones, Northampton County Attorney, to Sandra Benson on March 29, 2010. Further revisions have been incorporated based on that legal review. It is expected that the draft will be presented to the county Board of Supervisors at their April 2010 meeting, since the County Attorney advised that it would be unnecessary for the county Planning Commission to conduct a public hearing on a general ordinance.

Final Products	% Completion	Anticipated Completion Date
Product #1 (draft ordinance)	100%	
Product #2 (symposium sponsorship)	100%	

Task: 13 Dept. of Conservation & Recreation
Kiptopeke State Park: CZM/Taylor Tract Songbird Habitat Restoration

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: End: Closeout:		
	3/15/2010 9/30/2010 12/31/2010		

SHPO Clearance letter received March 29, 2010 stating that no historic properties will be affected.

Grant awarded March 10, 2010 and bid solicitations for seed and tree plantings submitted to Richmond office to be bidded out. Garden designs are being developed and plant species chosen. Signs for trail and project being written for fabrication. Presently none of the funding has been spent..

Final Products	% Completion	Anticipated Completion Date
Songbird Habitat Restoration	0%	August 31, 2010
Plant Eastern Shore Native Demonstration Garden	0	August 31, 2010
Native Grasses Walking Trail and Pond Buffer	0	August 31, 2010
Phragmites Removal	0	August 31, 2010
Interpretive Signage	0	August 31, 2010
Wildlife Viewing Blinds	0	August 31, 2010

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Task: 41 Accomack-Northampton Planning District Commission
Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Closed	Start:	End:	Closeout:		
	10/1/2008	9/30/2009	12/31/2009		

Task: 42 Crater Planning District Commission
Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Closed	Start:	End:	Closeout:		
	10/1/2008	9/30/2009	12/31/2009		

Task: 43 Hampton Roads Planning District Commission
Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Closed	Start:	End:	Closeout:		
	10/1/2008	9/30/2009	12/31/2009		

Task: 44 Middle Peninsula Planning District Commission
Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Closed	Start:	End:	Closeout:		
	10/1/2008	9/30/2009	12/31/2009		

Task: 45 Northern Neck Planning District Commission
Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Closed	Start:	End:	Closeout:		
	10/1/2008	9/30/2009	12/31/2009		

Task: 46 Northern Virginia Regional Commission
Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Closed	Start:	End:	Closeout:		
	10/1/2008	9/30/2009	12/31/2009		

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Task: 47 George Washington Regional Commission
Technical Assistance Program

Project status: Current approved Final deliverable(s) status: Attached
Closed Start: End: Closeout:
10/1/2008 9/30/2009 12/31/2009

Task: 48 Richmond Regional Planning District Commission
Technical Assistance Program

Project status: Current approved Final deliverable(s) status: Attached
Closed Start: End: Closeout:
10/1/2008 9/30/2009 12/31/2009

Task: 49 Virginia Beach/Virginia Aquarium and Marine Science Center
Marine Mammal & Sea Turtle Stranding Response

Project status: Current approved Final deliverable(s) status: Attached
Closed Start: End: Closeout:
1/1/2009 12/31/2009 3/31/2010

Task: 81 Dept. of Conservation & Recreation
Coastal NPS Program Management

Project status: Current approved Final deliverable(s) status: Attached
Open Start: End: Closeout:
10/1/2008 6/30/2010 9/30/2010

The funds that were extended were used to support the implementation of assistance through the VNEMO Program, specifically to support the staff time of a VCU GIS Specialist to assist in the development of the buildout analysis in Charles City County. Charles City County is undergoing their Comprehensive Planning Process and is including the establishment of Urban Development Areas. The VCU GIS Specialist obtained the necessary data to begin the foundation of the buildout analysis process working with the County staff. The County requested the VNEMO Program to provide: assistance in conducting a buildout analysis to support the policy development process in the County Comprehensive Planning revision, assistance in outlining the planning process and community engagement component for the various scenarios.

Final Products	% Completion	Anticipated Completion Date
Product #1	100%	

Task: 91.01 Virginia Institute of Marine Science
Program Implementation: Coordinator Position

Project status: Current approved Final deliverable(s) status: Previously Submitted
Closed Start: End: Closeout:
10/1/2008 9/30/2009 12/31/2009

This task funds half of one of our Coastal Planners through a contract with VIMS. See Task 1 for progress.

Year: 2008

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Task: 91.02 Environmental Law Institute
RPCs & Amendments

Project status: Current approved Final deliverable(s) status: Project Canceled
Pending Start: End: Closeout:

Funds were transferred to Task 93.02 (\$3,729) for the Publicly Accessible Conservation Lands Data Layer and to Task 96.01 (\$17,238) for the Accomack County Shore Bird Survey.

Task: 92 Middle Peninsula Planning District Commission
Aquaculture: Local Policy Development

Project status: Current approved Final deliverable(s) status: Attached
Closed Start: End: Closeout:
10/1/2008 9/30/2009 12/31/2009

Task: 93.01 Virginia Commonwealth University
Coastal GEMS Maintenance

Project status: Current approved Final deliverable(s) status: Attached
Closed Start: End: Closeout:
10/1/2008 9/30/2009 3/31/2010

Task: 93.02 Dept. of Conservation & Recreation - Natural Heritage
Publicly Accessible Conservation Lands

Project status: Current approved Final deliverable(s) status: Project Pending
Pending Start: End: Closeout:
6/1/2010 9/30/2010 12/31/2010

This project was submitted to NOAA Grants Online for approval on April 8, 2010.

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2008

**Performance Report, Section A, for Cooperative Agreement No. NAO8NOS4190466
for the period from October 2009 to March 2010**

Task: 93.03 College of William & Mary - Center for Conservation Biology

An investigation of a hemispherically important migratory staging area for whimbrel along the seaside of the Delmarva Peninsula

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Open	Start:	End:	Closeout:		
	8/15/2009	3/31/2010	6/30/2010		

The whimbrel is a large, holarctic, highly migratory shorebird that breeds in arctic latitudes and winters in the tropics. Both populations of whimbrel in the western hemisphere have declined dramatically in recent decades. The species appears to depend on relatively few staging areas where it refuels for nonstop flights as long as 5,000 km. In recent years, the lower Delmarva Peninsula has been identified as a terminal staging area during spring migration where whimbrel stop, gorge on fiddler crabs for up to a month and then fly overland to their breeding grounds. The Center for Conservation Biology and The Nature Conservancy have used cutting edge satellite telemetry technology to link the Delmarva to breeding grounds along Hudson Bay and the North Slope of Alaska. The partnership has also used conventional transmitters to investigate spring stopover duration. Although the results of recent research is beginning to clarify important locations for whimbrel during spring migration, virtually nothing is known about the use of areas during fall passage.

This project focused on the use of the lower Delmarva Peninsula by whimbrel during fall migration and attempted to link staging birds to wintering grounds in South America. A total of four 9.5 gram PTT satellite transmitters were deployed during the fall migration season. In addition, ten digitally coded glue-on radio transmitters were attached to birds. Information collected demonstrated that fall whimbrels were staging on the Delmarva and then leaving for non-stop flights to northern South America. Twelve flights greater than 1,000km were documented during the fall. These flights took an average of 95 hours to complete. The average distance traveled during these flights was 2,697km. A total of 5 shorter flights on wintering grounds were also documented, with birds moving from initial locations in Dominica, Venezuela, and Guyana into French Guiana, Suriname, and Brazil, the primary wintering grounds for eastern whimbrels. The project has been the first to directly link a major staging area to breeding and wintering locations and will allow for a much broader, annual cycle view of factors driving population declines.

Final Products	% Completion	Anticipated Completion Date
Project Report	100	

Task: 93.04 Virginia Eastern Shorekeeper

Seaside Special Area Management Plan: Recreational Use Survey & GIS Layer

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:	End:	Closeout:		
	9/1/2009	6/30/2010	9/30/2010		

Weather has played a significant role in altering the recreational use patterns of the Seaside of the Eastern Shore of Virginia through the Winter and Spring of 2009/2010. Due to the impact of the significantly unusual weather conditions, in the field survey processes have been delayed so as to avoid collecting irrelevant data. Written survey efforts are ongoing through several local marina, retail, and outfitting businesses as well as recreational boating and fishing groups. An extension for the completion of this survey project has been granted through June of 2010. This extended survey period will allow for more accurate data collection.

While the focus of survey efforts has been on the written survey aspect of the project, some field survey results have been collected. Aerial survey flights have begun to reveal previously unidentified pockets of high levels of recreational boat use as well as popular travel pathways. License plate surveys in the parking lots of popular boat ramps provide statistical data for geographic distribution of boat ramp users. The time remaining in the extended survey season will allow for the analysis of periods of increased recreational use, and will strengthen the integrity of the survey as a useful planning tool.

Final Products	% Completion	Anticipated Completion Date

Year: 2008

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NAO8NOS4190466
for the period from October 2009 to March 2010

Task: 94.01 Virginia Institute of Marine Science
Living Shoreline Design and Construction Guidance Manual

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Open	Start:	End:	Closeout:		
	10/1/2008	3/31/2010	6/30/2010		

The manual is under revision by VIMS staff for final printing. Chapters include an introduction to Chesapeake Bay shorelines from a physical and hydrodynamic perspective, ecosystem/habitat considerations, site evaluation parameters, and design considerations including structure types, level of protection, encroachment, constructability and costs, and permitting. Also presented are Living Shoreline Case Studies as well as Design Steps that provide guidance from site recommendations to construction. The manual will be finalized during the development of the Virginia CZM-funded living shoreline course curriculum. This way the two items will complement one another.

Final Products	% Completion	Anticipated Completion Date
Living Shoreline Design and Construction Guidance Manual	85	July 2010

Task: 94.02 Virginia Institute of Marine Science - Center for Coastal Resources Management
Shoreline Inventory Reports for York & Newport News: Phase 2

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Closed	Start:	End:	Closeout:		
	10/1/2008	9/30/2009	12/31/2009		

Task: 94.03 Virginia Institute of Marine Science
Shore Evolution in Four Virginia Localities

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Closeout	Start:	End:	Closeout:		
	10/1/2008	12/31/2009	3/31/2010		

Task: 94.04 Virginia Institute of Marine Science
Shoreline Management- Draft Management Plan MOA and Guidance Document for Local Governments

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Closed	Start:	End:	Closeout:		
	10/1/2008	9/30/2009	12/31/2009		

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2008

**Performance Report, Section A, for Cooperative Agreement No. NAO8NOS4190466
for the period from October 2009 to March 2010**

Task: 95 Middle Peninsula Planning District Commission
SAMP: Dragon Run

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Open	Start: End: Closeout:		
	10/1/2008 3/31/2010 4/30/2010		

Task 1: Land-use planning – MPPDC staff consulted with representatives from the three watershed counties in the process of updating comprehensive plans. None of the counties are updating zoning ordinances currently. Dave Whitlow, Essex County Administrator, reported that the recommended language is currently included in their draft and that they are aiming for adoption in Spring 2011. Matt Walker, Middlesex County Planning Director, reported that many of the recommendations were included in the revised Comprehensive Plan that was adopted in January 2010, as were additional farming/forestry supportive tools. He also reported that the recommendations will be considered as the counties reviews its zoning ordinances over the next year or two. Anne Ducey-Ortiz, Gloucester County Planning Director, reported that many of the recommendations are in the draft Comprehensive Plan. She reported that she hopes to add to the language to strengthen them even further. All three counties submitted letters documenting their continued intention to support the adoption of the Dragon Run land-use recommendations.

Task 2 : Watershed Management Plan Implementation and SAMP TA – MPPDC staff provided staff support to the citizen-based Dragon Run Steering Committee at two quarterly meetings and associated sub-committee meetings. MPPDC staff also assisted the Dragon Run Day Planning Committee with last minute coordination and facilitation for Dragon Run Day 2009 and manned a table representing the Dragon Run Steering Committee and SAMP at the event. MPPDC staff presented a review of Dragon Run Day 2009 to the Middle Peninsula Planning District Commission. During this reporting period, MPPDC staff distributed approximately 550 Dragon Run DVDs and continued to update the Dragon Run website (www.mppdc.com/dragon) . Additionally, MPPDC staff provided input during development of Dragon Run Watershed curriculum by Chesapeake Bay NERRS and provided information to the press about the Dragon Run, Dragon Run Steering Committee, SAMP and its partnerships.

Task 3: Conservation Estate Planning Initiative: MPPDC staff coordinated two conservation estate planning continuing education courses for attorneys and CPAs. Eleven professionals were trained during these events. MPPDC staff coordinated two landowner education events focusing on conservation estate planning, land protection and land asset management. These events were attended by a total of 45 individuals. MPPDC staff introduced a resolution to the Middle Peninsula Planning District Commission requesting the Commission to direct staff to seek funds to study the fiscal and land-use impacts of conservation holdings and develop policy recommendations to address these impacts.

Final Products	% Completion	Anticipated Completion Date
Task 1: Land-use planning	100%	
Task 2: Watershed Management Plan Implementation and SAMP TA	100%	
Task 3: Conservation Estate Planning Initiative	100%	

Task: 96 TBD
SAMP: Seaside Eastern Shore

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Canceled
Pending	Start: End: Closeout:		

Task 96 funds were all allocated to subtasks 96.01 and 96.02. \$0 remain in this task.

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2008

**Performance Report, Section A, for Cooperative Agreement No. NAO8NOS4190466
for the period from October 2009 to March 2010**

Task: 96.01 The Nature Conservancy

Seaside Special Area Management Plan: Project Team Administration and Avian Distribution Evaluation

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:	End:	Closeout:		
	10/1/2009	9/30/2010	12/31/2010		

Starting in early October, 2009 the FY08 seaside SAMP commenced by evaluating the experience, skills and diverse perspectives of potential participants in the Project Team that would best ensure the success of the work plan. Project Team members were contacted, informed about project goals and organized during October, November and December, 2009. The initial project meeting was scheduled for 12/2/09. The Project Team includes Dave Burden of the Eastern Shorekeeper, Marcia Berman and Mark Luckenbach of the Virginia Institute of Marine Science (VIMS), Steve Parker, Alex Wilke and Barry Truitt of The Nature Conservancy (TNC), Laura McKay and Nick Meade of the Virginia Coastal Zone Management Program (VA-CZM), Tony Watkinson, Hank Badger and Jim Wesson of the Virginia Marine Resources Commission (VMRC), Tom Walker of JC Walker & Sons Seafood, and Heather Terry and Pete Terry of Terry Brothers Seafood. The Team agreed to synthesize the efforts of three organizations, operating four separate grants (one to TNC, two to VIMS, and one to the Eastern Shorekeeper), into a broad analysis of spatial allocations, habitat suitability and the marine regulatory environment on the seaside of Virginia's Eastern Shore. The 12/2/09 meeting was held at the VIMS Lab in Wachapreague, Virginia and was attended by 10 Project Team members. A substantial discussion ensued regarding the geomorphologic dynamics (barrier island, marsh and inlet migration, primarily) of the coastal bays and the static regulatory system (Baylor Survey) the state has used to manage marine resources since the 1880's. A description of the history of marine spatial allocations and former economic uses on the seaside was followed by analysis over 870 sq kilometers of public shellfish grounds, currently suitable shellfish and other habitats, and historic and modern shellfish harvest and culture techniques and requirements. While there are over 3.2-billion native oysters estimated to be living on the seaside, 53% of Baylor grounds are unproductive and/or inappropriate for oysters. Hard clam aquaculture, a business valued at over \$40-million, is limited in terms of potentially suitable grow out grounds. In addition, an emphasis on the productivity of salt marshes, the negative impacts of sea level rise eroding certain types of marshes, the significance of undisturbed mudflats as shorebirds foraging sites, the importance of restoring native oyster reefs and sea grass meadows to the overall health and resilience of the coastal bays, and the increasing recreational uses of the seaside all indicate a need to develop a more flexible management approach to marine spatial allocations. TNC and VA-CZM were requested by the Team to prepare a questionnaire to determine strengths and weaknesses in the current system of marine use allocation, and survey suggested new approaches by Team Members.

The 1/21/10 meeting was held at the Eastern Shore of Virginia National Wildlife Refuge. The 10 Team members had a detailed discussion about Coastal and Marine Spatial Planning (CMSP) as a promising tool for describing and locating "what's out there" and streamlining the marine resource use allocation and management processes. This led to further exploration of a proposed legislative resolution, initiated by the aquaculture industry and drafted by VIMS, VA-CZM and other Project Team Members to "undertake a re-evaluation of the suitability of ... use designations for marine bottom habitats on the Seaside ... supporting wild fisheries, sustaining a strong shellfish aquaculture industry, facilitating restoration of degraded habitats and protecting natural resources ... and review alternative management options". The resolution was eventually tabled (postponed) in committee, but is seen by the Team as an opportunity to: further the overall goals of the SAMP; gain the cooperation of the State Legislature and the Board of VMRC; apply eco-system based marine spatial planning and habitat suitability analysis to resource use allocations; improve stakeholder participation, consensus-building and other valuable decision-making tools; and make progress toward the overall goal of recommending changes in enforceable policies that will enhance the economic and ecological productivity and protection of the seaside. Finally, preliminary returns of the Questionnaires were discussed, which will be tabulated in the Final Report.

The third Project Team meeting was held 2/22/10, also at the ESNWR, and attended by 9 stakeholders. Alex Wilke of TNC presented preliminary information regarding the spatial data analysis and interpretation of nesting, foraging and migratory waterbird distributions on the seaside. Starting with data gaps, a spring survey of migratory shorebirds in Accomack is lacking, an important omission from the data base, and GIS layers for most shorebirds, marsh birds (ie: rails), sparrows and seaducks need to be created. American oyster catchers and colonial waterbirds enjoy good breeding season distribution data, but not for the rest of the year. Particular issues relate to how to determine adequate buffers that avoid disturbing the birds, and the need for larger buffers during breeding season. Foraging areas also need to be mapped. Protocols for establishing and educating the public about buffers for birds also present a paradox- publicity can increase human disturbances, especially in nesting areas. Mark Luckenbach of VIMS then presented additional information on oyster coverage and eelgrass coverage on the seaside, based on 122 Baylor polygons, pointing out that in Magothy Bay 50% of Baylor grounds are now out in the Ocean. A productive discussion followed on the need to locate and map avian habitats that are suitable for foraging, roosting and breeding, and make management recommendations to establish buffers based on those criteria, rather than precisely pin pointing where the birds are at any specific season in any given year. The Team concluded that management structures that are flexible and adapt to change will provide more certainty for everyone. It was agreed that the Project Team would undertake "test case" mapping/planning efforts that would inventory uses, characterize suitability criteria, seek to resolve conflicts and draft specific recommendations to decision makers regarding policies and guidelines. There is also a need to generate numerical estimates of the percent of state bottom that is both suitable and feasible for various uses, and to identify location and amount of overlap. The development of draft "working maps" developed using CMSP, consideration of additional uses (ie: oyster cages and dredging), and additional fine scale data (ie: bathymetry and sediment) were determined to be appropriate for the next phase of the SAMP process. This phase will focus on 3-4 areas (Hog Island, Chincoteague, South and Magothy Bays were all mentioned). Conflicts, actual and potential, include: oyster restoration near duck blinds; eelgrass growth near cultured clam nets; oyster cages and clam nets vs. navigation, recreational fishing and landowner viewsheds; nature tourism impacts on bird conservation; restoration sanctuaries, aquaculture and poaching; regulatory agency disputes, gaps and overlaps. Changes in policies management approaches seem to require a progression of policy changes that sustain the system based on what is needed on the landscape, ecosystem scale. Also, institutions and people typically change slowly, so broadening the participants, including more stakeholders and educating elected officials, agency staff and political appointees are critical next steps.

Finally, an extension to this grant to 4/30/10 was given to be able to summarize the two reports from VIMS into an integrated final report, and to 9/30/10 to complete a new task, the Accomack County Spring Shorebird Migration Inventory.

Final Products	% Completion	Anticipated Completion Date
Work Plan and GIS Data Review	90%	4/20/10
Spatial data analysis of nesting, foraging and migratory waterbirds	85%	4/30/10

Year: 2008

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NAO8NOS4190466
for the period from October 2009 to March 2010

Phase 1 Final Reports and Phase 2 Recommendations

10%

4/30/10

Task: 96.02 Virginia Institute of Marine Science

Seaside Special Area Management Plan: Spatial Information Analysis and Interpretation for Shellfish Grounds and SAV Beds

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Open	Start:	End:	Closeout:	
	10/1/2009	3/31/2010	6/30/2010	

VIMS staff used geo-referenced aerial- and ground-based data to map the current oyster reef and SAV bed distributions in relation to digital public shellfish grounds (Baylor grounds) designations provided by VMRC. These maps were used in work sessions with experts on oyster and seagrass restoration and with stakeholders from the shellfish aquaculture industry to develop working maps of potential uses for the Baylor grounds. Analysis of these working maps reveals that 63% of the public shellfish grounds on the Seaside are appropriate for wild shellfish (clams and oysters) and 32% is appropriate for SAV restoration (Table 1).

Table 1. Summary data from GIS-based analysis of potential uses of Baylor grounds on the Seaside. All 132 areas representing 209 km² designated as Baylor Grounds were analyzed.

Potential Use Designation	Area (km ²)	% of Current Baylor
Oyster reefs (wild fishery, conservation or restoration)	120	57
Wild clam fishery	13	6
Clam aquaculture*	2	1
Oyster aquaculture*	7	3
Not appropriate for shellfish	10	5
SAV habitat	66	32

*These potential uses were not fully mapped in this phase of the project. Phase II will map the potential for these activities in greater detail in three sub-regions of the Seaside.

Additionally, bathymetry, sediment type and exposure data were used where available to develop a "first-cut" estimate of suitability for SAV throughout the seaside bays. Comparison of the current SAV distribution with its potential distribution indicates that as much as a six-fold increase in SAV area within the seaside bays may be possible and that an estimated 50% of these beds would be in areas currently designated as Baylor grounds (Table 2).

Table 2. Current (2008 data) and potential SAV habitat on the seaside

Potential Use Designation	Current Area (km)	Potential area (km)
Total SAV area on the Seaside	20	131
Total SAV area w/i Baylor Grounds	12	66
% of SAV w/i Baylor	59	50

The project deliverables, "working maps" of current and potential habitats for shellfish and SAV, are now available for the ongoing spatial planning effort for the seaside.

Final Products	% Completion	Anticipated Completion Date
Geo-spatial Data and Draft Maps (Current) for Shellfish Grounds and SAV beds	100%	
Geo-spatial Data and Draft Maps (Potential) for Shellfish Grounds and SAV beds	100%	

Task: 97.01 Middle Peninsula Planning District Commission

MPPDC Inventory of Non-traditional OSDS and Impacts on Land Use Patterns

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Attached
Closed	Start:	End:	Closeout:	
	10/1/2008	9/30/2009	12/31/2009	

Year: 2008

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NAO8NOS4190466
for the period from October 2009 to March 2010

Task: 97.02 Hampton Roads Planning District Commission
Hampton Roads Conservation Corridor Update and Implementation

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Closed	Start:	End:	Closeout:		
	10/1/2008	12/31/2009	3/31/2010		

State and Federal Agency Discussion of the use of Green Infrastructure to Meet Program Goals
HRPDC staff held a meeting with natural resources experts from DCR, DGIF and VIMS on October 16, 2009. The attendees reviewed the technical work of the project and made comments and suggestions. Also discussed was the Priority Conservation Areas (PCA) dataset and how to incorporate it into the updated green infrastructure network.

Local Government Stakeholder Process and Associated Report
HRPDC held a meeting on October 8, 2009 with the Multiple Benefits Conservation Plan committee to discuss the possibility of updating the Memorandum of Agreement currently in place as part of the Southern Watershed Area Management Plan (SWAMP) program. At this time, there does not seem to be a strong desire to move forward with the process. However, this topic will likely be discussed again in the future.

Update of Hampton Roads Conservation Corridor Network
As a result of the discussions with natural resource experts, adjustments were made to some of the data products. Another version of the green infrastructure network was developed which includes the PCA data instead of the Virginia Natural Landscape Assessment (VaNLA) cores. This dataset was also compared to the Vulnerability to Development model that HRPDC staff designed.

HRPDC staff also created a GIS layer that depicts the changes that have occurred between the original and updated green infrastructure networks.

The database of parks and recreation GIS data was completed.

Final project report was completed and delivered to VACZM along with the GIS data.

Final Products	% Completion	Anticipated Completion Date
State and Federal Agency Process and Associated Report	100%	December 2009
Local Government Stakeholder Process and Associated Report	100%	December 2009
Update of Hampton Roads Conservation Corridor Network	100%	December 2009