

Year: 2010

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205
for the period from :00 AM

Task: 1	Dept. of Environmental Quality - Virginia Coastal Zone Management Program	Current Federal Total:	\$279,800.00
Coastal Program Management			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted
Open	Start: End: Closeout:		
	10/1/2010 3/31/2012 6/30/2012		

All remaining funds in this task (\$14,933) were transferred to a new Task 2.02 (VMRC) Water Chemistry Studies for Oyster Hatcheries which was approved by NOAA on Feb 21, 2012.

Task: 1.01	Virginia Institute of Marine Science - Chesapeake Bay National Estuarine Research R	Current Federal Total:	\$100,591.00
Coastal Management Support			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted
Closed	Start: End: Closeout:		
	10/1/2010 9/30/2011 12/31/2011		

Task: 1.02	Virginia Commonwealth University	Current Federal Total:	\$87,200.00
Coastal Management GIS Support and Coastal GEMS Maintenance			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2010 9/30/2011 12/31/2011		

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**Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205
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Task: 1.03	Dept. of Environmental Quality - Virginia Coastal Zone Management Program		Current Federal Total:	\$98,200.00
Virginia CZM Program Outreach				
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Project Period Open	
Open	Start:	End:	Closeout:	
	10/1/2010	12/31/2012	3/31/2013	

An extension on this grant was requested and approved through September 30, 2012. Funds remaining in this grant were used to support the Outreach Coordinator's participation in a Community-Based Social Marketing training workshop given by Doug McKenzie-Mohr during the annual Chesapeake Watershed Forum at the end of September, and travel and registration to present at the North American Association of Environmental Education Conference in November. Funds also were used to complete production of signage for Plant ES Natives Campaign demonstration gardens (acknowledgement of garden status, funding and adoption), as well as tags for use on trees and shrubs for the campaign. Finally, funds were set-aside and enabled printing and mailing of the Virginia CZM Program's special 25th anniversary issue of the Virginia Coastal Zone Management magazine.

Funds remaining in this grant will enable production of two new multi-media items for the Plant ES Natives campaign: plant ID markers for the natives featured in the campaign's official demo gardens and a new general handout, a recycled newspaper pencil, to distribute during presentations, events and exhibits to help market the campaign (decals previously printed for this purpose are almost depleted, and as a result of web site changes at DEQ, the campaign's address has changed - the new address will be printed on the pencils.) Funds also will enable Virginia CZM to procure a digital camera with a GPS recorder, which will take the high resolution images needed for publication and aerial survey work. Finally, two publications will be printed with remaining funds: a rack card to help advertise the Eastern Shore Birding and Wildlife Festival and an educational brochure on visitor awareness and protection of beach-nesting bird habitat on Virginia's Eastern Shore - "Life on the Beach Isn't Always Easy" (this brochure, created and distributed by a multi-partner group, has been very popular and comments from visitors suggest it has been very effective in helping them understand what behaviors are harmful to the beach-nesting bird populations on the Shore.)

Detail of Expenditures -

McKenzie-Mohr Social Marketing Workshop (registration/travel)	\$100.00
NAAEE Conference Workshop Travel	\$388.15
Plant ES Natives Demonstration Site Signs	\$442.80
Plant ES Natives Tree and Shrub Plant Tags	\$1,486.00
MAMEA/EE Conference Registration (Virginia and April)	\$204.00
UPS Shipping - Plant ES Natives Demo signs, guides	\$214.44
Magazine mailing services (anniversary issue) - IFB	\$203.86
Magazine mailing postage	\$694.53
Magazine printing (anniversary issue) - B & B	\$3,987.00
Plant ES Natives Pencils	\$1,750.00
Digital Camera	\$700.95
Plant ES Natives Plant ID Markers	\$800.00
Birding Festival Rack Card	\$1,222.49
Beach-Nesting Bird Brochure Reprint	\$2,000.00

Final Products	% Completion	Anticipated Completion Date
Communication/Education/Marketing Materials	90%	September 30, 2012
Website Development/Maintenance	100%	September 30, 2011
Campaigns/Events/Presentations/Exhibits	100%	September 30, 2011

Task: 2	Dept. of Environmental Quality Subcontract		Current Federal Total:	\$14,825.00
Quick Response Grants				
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Project Period Open	
Proposed	Start:	End:	Closeout:	
	10/1/2010	6/30/2012	9/30/2012	

During the period, all but \$2,758 was transferred out of this task to Task 2.02 (VMRC) Water Chemistry Studies for Oyster Hatcheries which NOAA approved on Feb 21, 2012 and to Task 44 (MP PDC) Technical Assistance to fund Dragon Run Day. The remaining funds will be transferred during the next reporting period.

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Task: 2.01	Back Bay Restoration Foundation	Current Federal Total:	\$3,000.00
Back Bay Restoration Foundation State of the Bay Conference			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Canceled
Cancelled	Start: End: Closeout:		
	1/1/2011 6/30/2011 9/30/2011		

Task: 2.02	Virginia Marine Resources Commission	Current Federal Total:	\$27,000.00
Water Chemistry Studies for Oyster Hatcheries in Virginia's Coastal Zone			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: End: Closeout:		
	1/15/2012 12/31/2012 3/31/2013		

A subcontract with Virginia Tech has been completed. Virginia Tech has ordered all the ph meters and spectrophotometers for the six Virginia hatcheries, but they have not been delivered. Virginia Tech is designing a web portal for access to water quality data. Training sessions will be conducted with each hatchery on the water quality measurements as soon as the equipment is delivered.

Final Products	% Completion	Anticipated Completion Date
1. Provide wet Lab Equipment for six VA Hatcheries	20	April 15, 2012
2. Data Transfer between hatcheries , MRC, and Va.Tech	10	May 1, 2012

Task: 3	Dept. of Environmental Quality - Environmental Impact Review	Current Federal Total:	\$200,500.00
EIR and Federal Consistency			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2010 9/30/2011 12/31/2011		

Task: 4	Dept. of Environmental Quality - Environmental Education	Current Federal Total:	\$92,038.00
Community Environmental Education			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2010 9/30/2011 12/31/2011		

Task: 5	Dept. of Environmental Quality - Chesapeake Bay Program	Current Federal Total:	\$0.00
Water Quality Improvement Fund Match (City of Richmond Wastewater Plant Nutrient Removal Upgrade)			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2010 9/30/2011 12/31/2011		

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Task: 6	Virginia Marine Resources Commission	Current Federal Total:	\$160,000.00
Permit Review and Compliance			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2010 9/30/2011 12/31/2011		

Task: 7	Dept. of Conservation & Recreation - Natural Heritage	Current Federal Total:	\$50,000.00
Habitat Conservation/Locality Liaison			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2010 9/30/2011 12/31/2011		

Task: 8	Virginia Institute of Marine Science	Current Federal Total:	\$42,000.00
Tidal Wetlands Management Technical Support			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted
Closed	Start: End: Closeout:		
	10/1/2010 9/30/2011 12/31/2011		

Task: 9	Virginia Institute of Marine Science	Current Federal Total:	\$60,000.00
2010 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:		
	10/1/2010 12/31/2011 3/31/2012		

Task: 10	Dept. of Environmental Quality Subcontract	Current Federal Total:	\$200,000.00
Eastern Shore Land Acquisition			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Pending
Proposed	Start: End: Closeout:		
	10/1/2010 3/31/2012 6/30/2012		

The Southern Tip Partners continued coordination to select a parcel for acquisition. A conservation easement (or fee simple acquisition if the Secretary of Natural Resources will approve) for Picketts Harbor Farm is the first choice of the group. This 50 acre parcel is in Northampton County and is adjacent to "Pond Drain" which connects through DCR's Picketts Harbor Natural Area Preserve to Chesapeake Bay. Negotiations with the landowner will begin in summer 2012. If the seller is not willing to sell for appraised value, two alternative choices have been identified (Level Ponds on Bayside of Accomack County or a parcel adjoining Mutton Hunk NAP on the seaside of Accomack County).

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Task: 11	Dept. of Conservation & Recreation			Current Federal Total:	\$35,000.00
Sustainable Communities: Final PCA Map & Outreach Efforts					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:	End:	Closeout:		
	10/1/2010	9/30/2012	10/30/2012		

A new Coastal Virginia Ecological Value Assessment (VEVA) was conducted by integrating the existing Priority Conservation Areas (PCA) (NOAA Grant # NA 08NOS4190466; FY08; Task#11.02) with component datasets from the "Estuarine Blue Infrastructure: Final Priority Conservation Areas for Chesapeake Bay and its Tidal Tributaries and Back Bay," recently developed by the Virginia Institute of Marine Science (NOAA Grant # NA08NOS4190466; FY 2008; Task 11.03). This integration involved adding nine of the estuarine- and coastal bay- specific data layers from the VIMS product to the suite of original terrestrial and freshwater resource layers in the original PCA. These attributes were reclassified to merge easily with the 5-ranked classification used in the original PCA. In addition, DEQ's designated "Healthy Waters" watersheds were integrated into the new PCA by VCU. The final products – a Coastal VEVA GIS layer (Task 1 deliverable) and a VEVA map specifically developed for CELCP land conservation prioritization (Task 2 deliverable) - were reviewed by the project team for accuracy and quality control during the last reporting period. A VEVA Methodology Report, "The Coastal Virginia Ecological Value Assessment: a collaborative integration of conservation datasets and priorities in Virginia" has also been finalized (Task 1 deliverable). All Task 1 and 2 deliverables are available and have been provided to the Virginia CZMP for integration into ongoing conservation planning efforts.

Outreach efforts have been geared at disseminating these materials and supporting their use. The Outreach (Task 3) task underwent a change of course in this grant period, based on discussions between the DCR-Natural Heritage staff and CZMP staff. It was decided that rather than a broad outreach to all CZ locality planning staff, a more targeted outreach may assure implementation of the VEVA in local and regional planning efforts. The VEVA was presented to staff from the National Park Service's Chesapeake Bay Office, as a tool for planning the routing and land conservation for trails projects in the Coastal Zone. Specifically, a VEVA map and background materials were provided to help guide planning efforts for the historic Captain John Smith Trail. DCR staff also participated in a NERRS workshop, "Introducing Green Infrastructure for Coastal Resilience," where they presented the VEVA to coastal zone planners and local government staff. DCR and CZMP staff are currently working with NERRS staff to develop a follow-up workshop in mid-summer, 2012. In this workshop, VEVA partners – VIMS, DGIF, VCU and DCR – will all present the VEVA at a deeper level, describing details of the input datasets that comprise the VEVA, so that workshop participants might visualize the VEVA's value for planning in their localities.

An extension until August 31, 2012 was granted during this reporting cycle, to assure quality outreach activities.

Final Products	% Completion	Anticipated Completion Date
Final Coastal Virginia Ecological Value Assessment Map	100	
Updated CELCP Land Acquisition Priorities Map	100	
VEVA Educational Materials & Delivery	80	August 31, 2012

Task: 12.01	Accomack County			Current Federal Total:	\$35,000.00
Accomack County Sustainable Community Project					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:	End:	Closeout:		
	10/1/2010	9/30/2012	12/31/2012		

Much of this time was spent with the Land Use Planner and GIS Coordinator working with the GIC Director on issues relating to classroom training, data, document review, etc. for student site visits and final products which feed into the guide, web page, report, and comprehensive plan element. The final report from the students was provided to the County in mid- February. The student project was provided to the Accomack County Planning Commission during it's March 2012 meeting.

A draft of the Blue & Green Infrastructure Web Page has been completed and is online at <http://www.co.accomack.va.us/Planning/BlueGreen%20Infrastructure/BlueGreenInfrastructure.html>. While the page is online, there will not be links to it on the County Website until it has received final approval. County staff is making additional changes to the page.

Work has commenced on the Guide and the Sustainable Community Web Pages and are anticipated for completion and will feed into the workshops, the comprehensive plan element, and the workshop reports.

Final Products	% Completion	Anticipated Completion Date
Blue & Green Infrastructure Guide	10%	7/31/2012
Blue & Green Infrastructure Web Page	85%	5/15/2012
Blue & Green Infrastructure Development Workshop Report	0%	9/30/2012
Sustainable Community Comprehensive Plan Element	5%	9/30/2012
Sustainable Community Web Pages	10%	6/30/2012
Sustainable Community Workshop Report	0%	9/30/2012

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Task: 12.02 Northampton County				Current Federal Total: \$18,580.00
Northampton County Blue & Green Infrastructure Protection				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closed	Start:	End:	Closeout:	
	2/1/2011	12/31/2011	3/31/2012	

Product #1 - Update of Waterfront Village Visions: Sandra Benson, Planning Director, procured consulting services of Milton Herd, Herd Planning & Design, and Vlad Gavrilovic, Renaissance Planning Group, to provide technical assistance to review and update the adopted visions for the county's two (2) waterfront villages, Oyster and Willis Wharf. Two (2) stakeholder workshops were conducted and a summary report was produced by the consultants, along with recommendations for comprehensive plan amendments to support the findings of the report. Nineteen (19) residents and/or property owners in the villages attended the first workshop, and eighteen (18) attended the second, along with some planning commissioners and other interested parties who attended to observe.

Product #2 - Northampton County Stormwater Management Plan: There has been no progress on this component to date aside from acquisition of information about the new state stormwater program requirements by Planning Director Sandra Benson.

Final Products	% Completion	Anticipated Completion Date
Update of Waterfront Village Visions	100	5/25/11
Northampton County Stormwater Management Plan	0.5	2/15/12

Task: 12.03 George Washington Regional Commission				Current Federal Total: \$27,756.00
Developing a Blue-Green Infrastructure Plan for the GW Region				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Attached
Closed	Start:	End:	Closeout:	
	10/1/2010	9/30/2011	12/31/2011	

Task: 12.04 Hampton Roads Planning District Commission				Current Federal Total: \$40,000.00
Sustainable Communities Focal Area: Climate Change in Hampton Roads				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:	
	1/1/2011	12/31/2011	9/30/2012	

Between October 1, 2011 and December 31, 2011, HRPDC staff collected and analyzed data, conducted research, and coordinated with other government agencies and organizations on related projects. HRPDC staff continued to work with ODU faculty on analyzing the economic impacts of flooding and sea level rise. HRPDC staff also continued to work with staff from UVA's Institute for Environmental Negotiation, Wetlands Watch, and the City of Virginia Beach to continue public engagement on the issue of sea level rise in Hampton Roads. HRPDC staff made several educational presentations throughout the reporting period, including to the NOAA Hydrographic Services Review Panel and to the region's planning and public works directors.

Final Products	% Completion	Anticipated Completion Date
Assessment of Economic Impacts	100	December 31, 2011
Tool Development: Sea Level Rise Impacts	100	December 31, 2011
Policy Recommendations: Built Environment	100	December 31, 2011
Policy Recommendations: Natural Environment	100	December 31, 2011
Development of a Framework for the Response to Climate Change in Hampton Roads	100	December 31, 2011

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Task: 12.05 Middle Peninsula Planning District Commission Current Federal Total: \$38,000.00
Initiating Adaptation Public Policy Development

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Project Period Open
Open	Start: End: Closeout:	
	10/1/2010 6/30/2012 9/30/2012	

Product 1: Continued Education- General Public and Elected Officials:

MPPDC staff continued to provide outreach to the general public. MPPDC staff presented a Middle Peninsula Case Study: Climate Change, Sea Level Rise and their Impacts at the 2011 Mid-Atlantic Marine Educators Conference. On several occasions, MPPDC also presented information about climate change and sea level rise to community groups including the Chesapeake Board of Realtors as well as the Middle Peninsula Realtors Association. Additionally, as staff attended the Coastal 2011 Conference in July, MPPDC staff had informal conversations with professionals throughout the nation about the three year climate change project at the PDC.

Product 2: START kit:

To provide adaptation policy options that address climate change and sea level rise impacts to local elected officials and county staff, MPPDC staff has continued to work on the development of a START (Start Adaptation and Response Today) kit. MPPDC staff has researched and organized case studies and sample ordinances of how other localities (ie. domestically and internationally) are currently dealing with climate change and sea level rise impacts. In partnership with the Chesapeake Bay National Estuarine Research Reserve, a climate change/sea level rise factsheet was developed that focused on local scientific data. This factsheet has been integrated into the START kit. Finally, MPPDC staff partnered with VTech to develop a report about Adaptation within the Middle Peninsula. MPPDC staff edited several of the report chapters to date and has received the completed final report from VTech. MPPDC staff supplemented the START kit with this report and has integrated the policy recommendations into the kit.

Product 3: Public Policy Adoption:

With the completion of the START kit, MPPDC staff will present the kit to each member locality of the Middle Peninsula Planning District Commission to encourage policy changes that may assist in adapting and preparing for pending climate change and sea level rise impacts.

Final Products	% Completion	Anticipated Completion Date
Continued Education- General Public and Elected Officials	100%	Jan 2012
START-kit	100%	Jan 2012
Public Policy Adoption	100%	Feb 2012

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Task: 12.06 Northern Neck Planning District Commission		Current Federal Total: \$35,000.00
Northern Neck Blue-Green Infrastructure Protection and Outreach		
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closeout	Start: End: Closeout:	
	10/1/2010 3/31/2012 6/30/2012	

NNPDC staff presented the results of the green and select gray infrastructure vulnerability assessment, as well green infrastructure implementation tools to the Richmond County Planning Commission on December 5, 2011. After the presentation was over, which highlighted that several large, very high ecological value marshes along the Rappahannock River were shown to be vulnerable to sea level rise, the Commission asked, what can we do about it? NNPDC staff noted that very little could be done, but that as a county, they could promote living shoreline protection over hardened shoreline protection for citizens who live on low energy creeks and rivers within the county. Living shorelines, NNPDC staff explained, being gradually sloped to the water, would give marsh grasses a chance to migrate up the slope and avoid drowning as water levels rise. NNPDC staff presented on January 19, 2012 on green infrastructure vulnerability assessment and green infrastructure implementation tools to the Northumberland County Planning Commission. Numerous questions arose after the presentation from the planning commission regarding the impacts of such a rise, including one in which a member stated that 4 mm a year was not a tremendous amount of rise per year. NNPDC staff noted that it may not be much on a year to year basis, but in the years to come, tidal flooding events will become more common, especially during storm events, such as tropical storms and fall/winter nor'easters. NNPDC staff presented to the Lancaster Planning Commission on Thursday February 16, 2012 on green and select gray infrastructure vulnerability to sea level rise and green infrastructure implementation tools. NNPDC staff noted that there were extensive marshes at Windmill Point that are vulnerable to sea level rise. Lancaster County is currently reviewing their Comprehensive Plan and regarding the concept of land use value taxation that was mentioned in the green infrastructure implementation tools presentation, staff brought up the issue of land use value taxation for forested areas. Lancaster County is the only Northern Neck County that does not offer landowners the option of land use value on forested lands (although they do for agricultural lands). Lancaster county staff explained that when land use value taxation was implemented, large tracts of forest in Lancaster County were owned by large timber corporations, and the county did not want to give large corporations tax breaks. Lancaster county staff further explained that a majority of those tracts have been sold, and are owned by other entities who may be investing for development potential. The Lancaster County Planning Commission agreed to discuss land use value taxation of forestland in future Comprehensive Plan Review Meetings. NNPDC staff presented the results of the green and select gray infrastructure, as well as green infrastructure implementation tools to the Westmoreland County Planning Commission on March 5, 2012. NNPDC staff noted that much of Westmoreland County Potomac river shoreline is upland, with high banks or cliffs, but some areas, most notably along several of the creeks that bisect the county, would be areas vulnerable to sea level rise. Westmoreland Planning Commission members asked how they could plan for sea level rise. NNPDC staff noted that the Chesapeake Bay Act's 100 ft Resource Protection Area (RPA) is a sea level rise hazard buffer and limiting exceptions to the RPA is one way to be more resilient.

Final Products	% Completion	Anticipated Completion Date
NNPDC Green Infrastructure Implementation Alternatives Report	100%	March 31,2011
NNPDC Climate Change Vulnerable Infrastructure Assessment	100%	March 31, 2011

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Task: 12.07 Northern Virginia Regional Commission		Current Federal Total: \$60,510.00	
NVRC Sustainable Shoreline Community Management			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report	
Closeout	Start: 10/1/2010	End: 3/31/2012	Closeout: 6/30/2012

The Sustainable Shorelines and Community Management Workgroup met on February 27, 2012 to discuss communication strategies, data and information dissemination, and to support preparations for a forum to look at the applications of strategies at a community scale and to better understand the potential barriers that exist.

During the meeting, Justin Rolfe-Redding of George Mason University's Center for Climate Change Communications presented the Center's work on describing the knowledge and perceptions of the American public on climate change. The presentation resulted in a robust discussion of the results of the survey of waterfront property owners conducted in 2010. The workgroup recognized the importance of building the social resilience of the waterfront property owners and waterfront communities, who are more concerned about more current issues - hydrilla control and shoreline stabilization - than long-term inundation from climate change. Therefore, it was recommended that the adaptation strategy and communication reports include recommendations for localities to work on building social capital and trust within their communities by providing information resources, technical assistance, and to identify funding support in order to address these current problem areas.

In addition to workgroup engagement, NVRC staff continued to participate in the review of the Metropolitan Washington Council of Governments and EPA's Climate Adaptation Guidebook. The Guidebook, developed in conjunction with EPA and SAIC, features regional approaches to planning and general adaptation strategies, using the Metropolitan Washington D.C. area as a case study. Maps and data developed as part of the Sustainable Shorelines project are featured, along with lessons-learned and adaptation approaches discussed through the workgroup. It is due to be released in Summer 2012.

NVRC staff continues to be invited to present the findings of the Sustainable Shorelines and Community Management Project. On March 30, 2012, NVRC participated in a panel discussion with representatives from the Dutch Embassy on climate adaptation strategies and approaches at local scales in the United States. This discussion resulted in discussions by both NVRC and the Dutch Embassy in identifying locations in the region to host charrettes and visioning sessions to areas at risk of inundation. Additionally, a Dutch intern will be working with NVRC staff over summer 2012 to explore lessons from the Netherlands in addressing some of the perceived and known social, economic, political and/or environmental barriers that exist in the region.

Final Products	% Completion	Anticipated Completion Date
Workgroup Outcome Report	50	June 15, 2012
Adaptation Strategy Report	60	June 15, 2012
Communication Report	60	June 15, 2012

Task: 12.08 Richmond Regional Planning District Commission		Current Federal Total: \$50,000.00	
Central Virginia Blue and Green Infrastructure Protection Planning Project			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Attached	
Closed	Start: 10/1/2010	End: 12/31/2011	Closeout: 3/31/2012

Task: 41 Accomack-Northampton Planning District Commission		Current Federal Total: \$30,000.00	
A-NPDC Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Attached	
Closed	Start: 10/1/2010	End: 9/30/2011	Closeout: 12/31/2011

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Task: 42	Crater Planning District Commission	Current Federal Total:	\$30,000.00
Crater PDC Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2010 9/30/2011 12/31/2011		

Task: 43	Hampton Roads Planning District Commission	Current Federal Total:	\$60,000.00
Hampton Roads Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2010 12/31/2011 3/31/2012		

Task: 44	Middle Peninsula Planning District Commission	Current Federal Total:	\$31,000.00
Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2010 9/30/2011 12/31/2011		

Task: 45	Northern Neck Planning District Commission	Current Federal Total:	\$30,000.00
Northern Neck PDC Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2010 12/31/2011 3/31/2012		

Task: 46	Northern Virginia Regional Commission	Current Federal Total:	\$30,000.00
NVRC Coastal Resources Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2010 9/30/2011 12/31/2011		

Task: 47	George Washington Regional Commission	Current Federal Total:	\$30,000.00
GWRC Coastal Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2010 9/30/2011 12/31/2011		

Year: 2010

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Task: 48	Richmond Regional Planning District Commission	Current Federal Total:	\$30,000.00
Richmond Regional PDC Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2010 9/30/2011 12/31/2011		

Task: 49	Virginia Beach/Virginia Aquarium and Marine Science Center	Current Federal Total:	\$31,000.00
Virginia Sea Turtle and Marine Mammal Stranding Network			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	1/1/2011 12/31/2011 3/31/2012		

Task: 91	Environmental Law Institute	Current Federal Total:	\$30,000.00
Restatement of Virginia's Enforceable Policies			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: End: Closeout:		
	1/1/2011 9/30/2012 12/31/2012		

During the current period, ELI discussed with Virginia staff priorities for adding TES provisions to the Enforceable Policies. At the direction of staff, ELI suspended work on restating enforceable policies in order to allow consultation with NOAA regarding priorities for the program. Virginia's Coastal Management Program and NOAA together decided to prioritize moving forward with the TES provisions, in preference to restating all the existing Virginia enforceable policies. Following this determination, ELI participated in a conference call among Virginia agencies and officials to discuss TES issues raised by the agencies in the context of enforceable policies, to determine whether TES provisions could be moved forward this year. In addition, ELI consulted with Virginia Coastal Program staff concerning ways to proceed with updating the portions of Virginia's fish and wildlife enforceable policies that do not involve TES, so that this updated set of policies could be advanced independently. ELI submitted a proposed re-prioritization and description of how these could be carried forward, and is awaiting approval for this approach. The grant agreement has been extended until 9/30/2012 in order to accommodate this re-prioritization.

These decisions will require restatement of the product(s) deliverables for this project. (Note: The information below reflects the current grant agreement).

Final Products	% Completion	Anticipated Completion Date
Restatement of Virginia's Enforceable Policies Draft <input type="checkbox"/>	15	September 30, 2012
Restatement of Virginia's Enforceable Policies Final <input type="checkbox"/>	0	November 15, 2102

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**Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205
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Task: 93.01	The Nature Conservancy	Current Federal Total:	\$75,000.00
CSI: Intergovernmental Decision-making: Mid-Atlantic Regional Council on the Ocean (MARCO) GIS Portal			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start: End: Closeout:		
	10/1/2010 3/31/2012 6/30/2012		

- Since October, 2011, The Nature Conservancy (TNC) has made the following updates to the MARCO Mapping and Planning Portal ("the portal"):
- Upgraded the portal to Esri's Flex Viewer Version 2.4. This update enabled new functionality to be added to the portal such as the "MARCO Layers" widget that shows layer visibility and legend information in the same view and contains links to metadata beside each layer.
 - Successfully changed the portal's URL from a tnc.org address to MARCO's URL in response to concerns regarding public perceptions about MARCO's partnership with TNC.
 - Produced an inventory entitled "Critical Data Needs for CMSP" that is posted on the MARCO website for download. This list includes unmet data needs for ocean planning in order of priority.
 - Updated and added Bureau of Ocean Energy Management's Mid-Atlantic Wind Energy Areas data layer.
 - Added sample Vessel Trip Report (VTR) data with formal approval from NMFS consistent with similar VTR data on the NROC portal.

Moreover, TNC has processed and summarized expanded VTR data for the entire MARCO area that include catch by weight and value in addition to effort, for all commercially fished species by ten-minute-squares. TNC is currently waiting for formal approval from NMFS to display these data on both the NROC and MARCO portals, which TNC expects by the end of May 2012. TNC has also requested and is awaiting Vessel Monitoring System data (VMS) from NMFS, which will provide a higher resolution picture of commercial fishing activity than VTR data alone. TNC expects to receive these data within the next month though it may be several months before TNC can fully process and add it to the portal. In addition, TNC's Eastern Division GIS staff has been putting a tremendous amount of effort into processing AIS (Automatic Identification System) data which are high resolution commercial shipping traffic data. Once processing is complete, these data will replace the lower resolution and less comprehensive shipping density data currently on the MARCO portal. TNC expects to post these data by the end of May 2012.

TNC has also been working closely with the NOAA-funded MARCO enhanced portal team and has packaged and transferred all existing MARCO portal data to Ecotrust in order to develop the enhanced MARCO portal based on an open source Google platform. TNC is aiming for mid-May 2012 for the release of Version 1.0 of the enhanced Mid-Atlantic portal.

Final Products	% Completion	Anticipated Completion Date
#1 Collection and formatting of additional layers	75	6/30/12
#2 Overlay analyses and new functions	35	6/30/12
#3 Final report on MARCO Portal updates	10	6/30/12

Task: 93.02	Virginia Commonwealth University	Current Federal Total:	\$22,915.00
Coastal GEMS Version 3 Final Development and Implementation			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: End: Closeout:		
	10/1/2011 6/30/2012 9/30/2012		

This is the second of two consecutive grants to upgrade the VA CZM online mapping application, Coastal GEMS. The first grant (FY09 Task 93.02) to create a draft version of the upgraded Coastal GEMS has nearly been completed. At the time of its completion, work will begin on this grant to deploy the final version of the upgraded system.

Final Products	% Completion	Anticipated Completion Date
Coastal GEMS Version 3 Upgrade – Final	0%	6/30/2012

Task: 94.01	Virginia Institute of Marine Science - Center for Coastal Resources Management	Current Federal Total:	\$100,000.00
Shoreline Inventory Reports for Tidewater Localities - Northampton County			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2010 12/31/2011 3/31/2012		

Year: 2010

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
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Task: 94.02	Virginia Institute of Marine Science	Current Federal Total:	\$50,000.00
Shore Evolution in Several Virginia Localities 2010			
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:
	10/1/2010	3/31/2012	6/30/2012

Reports for Surry, Richmond, Hampton, King George, and Prince William are complete. The Middlesex report is in the final stage of completion, and Lancaster shorelines are being QA/QC'd.

Photo dates by locality:

Surry - 1937, 1954, 1963, 1978, 1994, 2002, 2007, and 2009

Richmond – 1937, 1953, 1969, 1994, 2002, 2007, and 2009

King George – 1937, 1953, 1967, 1981, 1994, 2002, 2007, and 2009

Prince William – 1937, 1953, 1962, 1985, 1994, 2002, 2007, and 2009

Lancaster: Additional shoreline will be added to dates 1937, 1959, 1982, 1994, and 2002. New dates added to database, 2007 and 2009.

Middlesex: Additional shoreline will be added to dates 1937, 1994, and 2002. New dates added to database, 1959, 1968, 2007 and 2009.

Hampton: Additional shoreline will be added to dates 1937, 1953, 1963, 1980, 1994, and 2002. New dates added to database, 2006 and 2009.

Final Products

% Completion

Anticipated Completion Date

Shore Evolution Reports 95% May 2012

Year: 2010

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
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Task: 95	Middle Peninsula Planning District Commission	Current Federal Total:	\$25,000.00
Special Area Management Plan for Dragon Run			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: End: Closeout:		
	10/1/2010 12/31/2012 3/31/2013		

Product 1: Report on Land-Use Policy Adoption/Implementation: From April 2011 to the present date, Dragon Run Watershed counties, including Gloucester, King & Queen, Essex and Middlesex Counties, have made no additional progress on the development of their comprehensive plans. Also please note that the MPPDC staff project manager resigned in April 2011.

Product 2: Report on DRSC, Dragon TA and Education: The Dragon Run Steering Committee served as the lead advisory council for Dragon Run Day festival which was held on October 8th, 2011. The festival is a celebration of the Dragon Run Watershed's Natural, Cultural, and Historic Heritage. Dragon Run Steering Committee provided leadership in the absence of the MPPDC staff project manager who resigned in April 2011. Continuous investment under the SAMP program provided the necessary leadership experience for a smooth Dragon Run Day leadership transition away from MPPDC staff and directly to community leaders who serve on the Steering Committee. Current MPPDC staff has worked with both the coordinator of Dragon Run Day and the other members of the Dragon Run Steering Committee for information regarding the Day and activities that took place.

Product 3: Conservation Land –Use and Assessment Policies: On two occasions, MPPDC staff presented outcomes of Year one of the Conservation Easement Project. First, staff presented at the Virginia's United Land Trust 2011 Conference: Conserving Our Common Wealth and then at the Virginia Association of Assessing Officers 2011 Educational Seminar to inform stakeholders (ie. Conservation Entities, Commissioners of Revenue, County Staff and State Agencies) of the fiscal impacts of conservation easements. As per the discussions from the beginning of the project, MPPDC staff also focused on developing a public policy matrix. This matrix included a memorandum of understanding to help improve communication between the county and conservation entities. MPPDC staff has provided the matrix to county administrators and town managers for discussion on September 9, 2011. To close out product #3, MPPDC staff developed a guidance report for Commissioners of Revenue, County Staff and Elected Officials that captures the policy outcomes of facilitated discussion, identifies state requirements, and the process to consistently account for eased lands. This report has been distributed.

NOTE-MPPDC staff has requested a project extension and a reprogram request to re-scope the remaining project funds to support MPPDC Task 95.01, FY 09 to assist with education and outreach on heir property ownership issues within the Dragon Run watershed.

Final Products	% Completion	Anticipated Completion Date
Report on Land-Use Policy Adoption/Implementation	90	NA- 90% is complete
Report on DRSC, Dragon TA and Education	95	NA- 95% is complete
Conservation Land-use and Assessment Policies	100	Completed
*New Proposed Deliverable- Heir Ownership Legal Education	0	12/31/12

Task: 96	TBD	Current Federal Total:	\$0.00
Seaside Special Area Management Plan			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Funds Transferred Out of Task
Proposed	Start: End: Closeout:		
	10/1/2010 9/30/2011 12/31/2011		

All funds were transferred to subtasks: Task 96.01, 96.02, 96.03 and 96.04.

Task: 96.01	Accomack-Northampton Planning District Commission	Current Federal Total:	\$11,457.00
Seaside Special Area Management Plan Phase 3 Technical Assistance			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	6/1/2011 12/31/2011 3/31/2012		

Year: 2010

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
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Task: 96.02	The Nature Conservancy			Current Federal Total:	\$21,000.00
Seaside Special Area Management Plan: Habitat Suitability and Evaluation Project Team Administration and Public Outreach Coordination					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:		
	6/1/2011	3/31/2012	6/30/2012		

The SAMP FY10 project is the third step in evaluating the spatial allocations of resources, uses and stakeholder needs on the seaside of Virginia's Eastern Shore and developing guidelines and recommendations regarding the utilization of those resources in an equitable and transparent manner. TNC, under the leadership of VA-CZM, has been coordinating and providing administrative support for the effort of the SAMP Project Team consisting of the Virginia Institute of Marine Science (VIMS), the Virginia Marine Resources Commission (VMRC), Accomack-Northampton Planning District Commission (A-NPDC) and private commercial seafood and aquaculture companies.

On December 8, 2011 at the Barrier Island Center in Machipongo, VA and December 13, 2011 at the Eastern Shore of Virginia Chamber of Commerce in Melfa, VA, the public was invited by A-NPDC to a discussion and PowerPoint presentation based on information gathered by the SAMP Project Team. Input from the public regarding ideas and preferences for allocation of resources and space on state owned bottom on the seaside of the Eastern Shore was gathered. A-NPDC, with the assistance of the Project Team, prepared a report on the proceedings and submitted it to the State Study Panel empowered by SB 330, which was also examining the productivity and efficiency of current spatial allocations and resource utilization on the seaside.

In January of 2012, the State Study Panel made a series of recommendations to the legislature which led to Sen. Ralph Northam submitting a bill in the State Senate giving VMRC increased regulatory flexibility to modify current spatial allocations. The bill was tabled in committee for later consideration.

On February 22, 2012, the SAMP Project Team met in Kiptopeke, VA. It was determined to contact Sen. Northam's office to see if The Project Team could be of further assistance. It was also decided that A-NPDC should continue SAMP work by undertaking a detailed Recreational Use Assessment of the seaside, including beach use, clamming, fishing inshore and offshore waters, and oystering. The SAMP Project Team will provide guidance and assistance for this assessment.

Final Products	% Completion	Anticipated Completion Date
Public Informational Meetings: preparation and presentations	100	
Final FY10 SAMP Report	90	May 15, 2012

Task: 96.03	Virginia Institute of Marine Science			Current Federal Total:	\$21,043.00
Seaside Special Area Management Plan: Synthesis and Evaluation					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Closed	Start:	End:	Closeout:		
	6/1/2011	12/31/2011	3/31/2012		

Year: 2010

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Task: 96.04 Virginia Institute of Marine Science - Center for Coastal Resources Management Current Federal Total: \$26,500.00
Seaside SAMP: Geo-spatial assessment of activities occurring on privately leased state-owned bottom

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:		
	6/1/2011	3/31/2012	6/30/2012		

The Virginia Marine Resources Commission (VMRC) regulates subaqueous bottom and issues private leases. In the last several years they have instituted a "self-reporting" process whereby waterman submit harvest catch and information on a monthly basis for each lease. The purpose of this project is to link the geospatial database associated with the lease boundaries with the relational database associated with the monitoring collected under the mandatory self reporting program. Three major steps are proposed for the project:

- 1) Database Union: This step includes acquisition and manipulation of the Excel and ArcGIS geo database formats to union the fields together. Attributes will be unioned based on lease number and plat data.
- 2) Analysis of spatial trends in private lease activity and harvest data: This product will run some data queries from the attribute information in order to report on spatial extent of activities on private leases for the Chesapeake Bay and seaside of the Eastern Shore. Information on harvest and species collected will also be included where available.
- 3) Map Development: Maps will be generated for data display to convey the reporting of activity on private leases for use in public forums and within various committees of interest. Maps will illustrate the output of the analyses.

This reporting period has focused on completion of all project tasks. Preparation of the final summary report is underway. During this period, VIMS worked with VMRC to develop some specific queries of interest and represent the outputs of those queries illustratively.

Final Products	% Completion	Anticipated Completion Date
1) Database Union	100%	
2) Analysis of Spatial Trends	100%	
3) Map Development	100%	

Task: 97.01 Middle Peninsula Planning District Commission Current Federal Total: \$40,000.00
Middle Peninsula Conservation Corridors Plan: Year 2

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Closed	Start:	End:	Closeout:		
	10/1/2010	12/31/2011	3/31/2012		

Year: 2010

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Task: 97.02 Northern Virginia Regional Commission				Current Federal Total: \$55,000.00
Northern Virginia Conservation Corridor Planning				
<u>Project status:</u>		<u>Current approved</u>		<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:	
	10/1/2010	12/31/2011	6/30/2012	

During this grant period, NVRC staff worked with the Green Infrastructure Center and Skeo Solutions to prepare a 16-page final assessment report for the Conservation Corridors project which includes a description of the overall project approach, conservation strategies for five regional conservation corridor opportunities, and the benefits of these areas. A charrette-style discussion with the Advisory Group on December 16, 2011 resulted in the identification of the regional opportunities based on the vital role they play in defining the region's natural characteristics, providing water quality benefits, supporting cultural heritage and nature-based recreation opportunities, and contributing to the region's overall quality of life.

NVRC staff provided project-specific information to the Executive Director of the Northern Virginia Conservation Trust who will integrate information regarding this project in his address at the Annual Conservation Breakfast on January 4, 2012. The breakfast is a respected event attended by many local, state, and federal elected officials.

750 copies of the 16-page Conservation Corridors Planning Report will be printed for distribution to elected officials and other interested parties, with a PDF of the report and high resolution images of the maps available on the Northern Virginia Regional Commission's website at: www.novaregion.org/conservation. This report, along with the GIS data will serve as a roadmap and tools for localities, conservation organizations, and other interested parties to strategically approach the conservation, maintenance, and restoration of the region's natural assets.

Final Products	% Completion	Anticipated Completion Date
Pilot Study Report	90	May 15, 2012
Summit Summary and Marketing Strategy	100	May 15, 2012
Local Analysis Report and Maps	90	F May 15, 2012

Task: 97.03 Dept. of Conservation & Recreation				Current Federal Total: \$58,000.00
VNEMO Program Implementation in Coastal Zone				
<u>Project status:</u>		<u>Current approved</u>		<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:	
	10/1/2010	3/31/2012	6/30/2012	

For the grant reporting period, the Environmental Analyst at the Virginia Commonwealth University, serving as the Coastal NPS Program Manager, continued to implement the Coastal NPS Program and VNEMO Program at the Virginia Department of Conservation and Recreation.

The Coastal NPS Program Manager implemented these programs to support various coastal priorities such as the Sustainable Community Planning Focal Area Projects, and continued to implement the National Fish and Wildlife Foundation Grant at the Science Museum of Virginia. During this reporting period. As part of the newly assigned role as the manager of the Virginia Healthy Waters Initiative, the project period included an additional task to evaluate the Commonwealth of Virginia's Administrative Code and Title 10.1, Chapters 4, 5, 6, 17, 21, and 21.2; Title 15.2 Chapter 22 and the Virginia Administrative Code Title 9 for revisions that reference the protection of resources based upon ecological health criteria. To conduct this review, the Program Manager has partnered with the Nature Conservancy to assist in the development of suggested language to revise the Codes.

As requested by the VDCR, the Coastal NPS Program Manager partnered with the UVA IEN to develop and implement a training program to improve the capacity of the field staff in leading outcome based technical assistance for local governments, following the model of the VNEMO Program. The training was specifically to equip state personnel and local and regional staff to best engage public policy participants that choose to be obstructive, as opposed to inclusive, in the decision making process. This training was held on Oct 25 at the Science Museum of Virginia and included participants from the VDCR field staff from the Divisions of Stormwater Management; VDEQ; the Coastal Planning District Commissions and representatives of local government. Approximately 45 participants were in attendance.

Final Products	% Completion	Anticipated Completion Date
Product #1	95	May 15 2012
Product 2	95	Dec 2011