

## VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2010

Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from

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> Project Period Open
Open	Start:      End:      Closeout:	
	10/1/2010   3/31/2012   6/30/2012	

Policy Products: One Coastal Policy Team meeting was scheduled for November 15, 2011 but has been postponed until December 1, 2011.

Coastal Partners' Workshop: Completed.

Final Section 309 Coastal Needs Assessment & Strategy: Completed.

RPCs and Amendments: After a conference call between NOAA OCRM staff and Virginia CZM staff, it was decided to move forward with incorporating TES provisions in preference to restating all the existing Virginia enforceable policies. It was also determined that this action would be considered a routine program change rather than a program amendment. A meeting will be held in November, 2011, among state agencies involved in protecting TES, to decide how to best move forward.

Grant Administration, Management & Reporting: A Section A, Semiannual Progress Report, a Section B Agency Report, and a Section C Success Stories Report was compiled and submitted to NOAA on April 30, 2011 for the reporting period of Oct. 1, 2010-Mar. 31, 2011. Semiannual Progress reports from grantees and information for the Section B and Section C reports was gathered by CZM staff for the reporting period of April 1, 2011-Sept. 30, 2011. The CZM Manager and Coastal Planner monitored grant activities through phone calls and site visits. And the Grants Coordinator and CZM Manager processed extension and budget amendment requests, 306 A documentation approvals, SAC removals, and reprogrammed money using the Grants Online system.

FY 2010 CZM Grant Application: The FY 2011 Draft application was submitted to NOAA on April 15, 2011, and the FY 2011 Final application was submitted to NOAA on May 19, 2011 via the CAMMP, Grants Online, and Grants.gov systems. Five PDC projects totalling \$173,000 have been selected for funding through a competitive process. The topics to be addressed are working waterfronts, coastal resiliency, water quality protection, native plants, and a 306a public access project.

FY 2011 CELCP Grant Application and Final CELCP Plan: Three projects were submitted for CELCP FY 2012 funding by the VA CZMP: 1) Lynnhaven Oyster Restoration and Estuary Protection in VA Beach, approximately 82 acres for \$3,000,000; 2) Scotland Landing -Mattaponi River Coastal Lands Acquisition project in King William County, 188 acres for \$829,800 and 3) Virginia Eastern Shore Land Protection: Beaches, Marshes, Dunes and Migratory Bird Habitat, 350 acres for \$2,101,850. CZM staff worked with applicants to refine proposals and forwarded applications to NOAA on May 3, 2011. CZM staff also completed updates to the draft VA CELCP plan and submitted it to NOAA for final approval on April 8, 2011.

Performance Measures: In September, CZM staff solicited information from the necessary sources to assist in completing the Oct. 1, 2010 – Sept. 30, 2011 Performance Measures report.

Mid-Atlantic Regional Council on the Ocean Documents: The Virginia CZM Program finalized and paid for the printing of 300 copies of the MARCO Highlights document which was also posted on the MARCO website: www.midatlanticocean.org and the Virginia CZM Manager completed preparation of a two year work plan for the MARCO CMSP Action Team which is also on the web. She convened CMSP Action Team or MARCO/NROC portal conference calls on April 7, May 4, May 16, July 11, July 25, August 15 and Sep 19. Through these calls data needs for the MARCO portal were identified, two were filled and the remaining data layers were prioritized as to their urgency of need to aid in marine spatial planning efforts. The CZM Manager worked with the National Ocean Council to give advice on development of the National Information Management System (NIMS) portal recommending there be a table to show what data layers were in the queue for funding and completion. The CZM Manager presented MARCO efforts at the National CMSP Workshop and annual CSO meeting.

Section 312: NOAA did not schedule a 312.

Final Products	% Completion	Anticipated Completion Date
Policy Products <input type="checkbox"/>	100	
RPCs and Amendments <input type="checkbox"/>	100	
2010 Coastal Partners' Workshop	100	
Final Section 309 Coastal Needs Assessment & Strategy <input type="checkbox"/>	100	
Grant Administration, Management & Reporting <input type="checkbox"/>	100	
FY 2011 CZM Grant Application <input type="checkbox"/>	100	
FY 2011 CELCP Grant Application <input type="checkbox"/>	100	
Performance Measures <input type="checkbox"/>	100	
Mid-Atlantic Regional Council on the Ocean Documents <input type="checkbox"/>	100	
Section 312 Evaluation Binder	0	NOAA did not schedule

About \$7,000 remains in the contractual category which may be used for converting the CZM database to DEQ-supported software.

Year: 2010

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Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from

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

<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	9/30/2011	12/31/2011		

See Task 1 for Progress on this task.

Task: 1.02 Virginia Commonwealth University  
Coastal Management GIS Support and Coastal GEMS Maintenance

<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	9/30/2011	12/31/2011		

-VCU CES staff performed Coastal Gems maintenance during this grant project period. Tasks were to refresh map services and update data and cartography in the map file. During this period, data, symbology, and fact sheet text was added to the GEMS application for one new layer: Coastal Virginia Ecological Value Assessment (VEVA). The Coastal GIS Coordinator processed this data layer for effective display on Coastal GEMS and uploaded to VCU to be added to the mapping application by VCU CES staff. The Coastal GIS Coordinator also uploaded fact sheet text through the non-spatial editor web portal. Coastal Gems remained operational during these updates and was only offline to install software/security updates or to refresh map services.

Google Analytics remains operational and sends an email PDF report to CZM staff weekly to show access and web statistics for the Gems application. From April 1, 2011 to September 30, 2011, Coastal GEMS received 643 visits from 356 unique visitors resulting in 860 pageviews and an average site visit time of 2 minutes and 17 seconds. Data requests and other inquiries received regarding the Coastal GEMS application and the datasets it hosts were responded to in a timely manner. Coastal GEMS can be accessed online at: [www.coastalgems.org](http://www.coastalgems.org)

-The Coastal GIS Coordinator conducted two formal Coastal GEMS trainings during this grant project report period:

1. As requested by the Richmond Regional PDC presented to local planners during their Environmental TAC meeting.
2. A joint training with DEQ Environmental Education staff was given at VA DEQ's central office computer lab facility marketed towards master naturalists and other adult educators. Both presentations/live demos were customized for the audience.

-The Coastal GIS Coordinator continued involvement in the Coastal VEVA workgroup by participating in meetings, filling outside data requests, and reviewing/editing the final project report. The Coastal GIS Coordinator represented VA CZM as part of the National Enhanced Elevation Assessment Survey (conducted by USGS) by completing the original questionnaire and then participating in the state-level follow on telephone meeting.

-GIS data products created for CZM staff/partners by the Coastal GIS Coordinator include a shapefile with boundaries for all VA CELCP sites for NPS in support of the land conservation goal for Chesapeake Bay EO and point shapefiles of VA CZM public access, land conservation, and habitat restoration sites. Map products created for CZM staff/partners by the Coastal GIS Coordinator include large scale maps of the VEVA dataset for the York River Symposium, a map for the FY2009 & 2011 Eelgrass Seeding & Bay Scallop Release project, maps of the Thomas Rock and York River Hand Scrape areas for regulatory use by VMRC, and map layouts for the VA CZM 25th anniversary edition magazine.

Final Products	% Completion	Anticipated Completion Date
Coastal GEMS Maintenance <input type="checkbox"/>	100 <input type="checkbox"/>	
Coastal GEMS Updates <input type="checkbox"/>	100 <input type="checkbox"/>	
Coastal GEMS Data Liaison <input type="checkbox"/>	100 <input type="checkbox"/>	
Coastal GEMS Training Program <input type="checkbox"/>	100 <input type="checkbox"/>	
Identification of Data Needs and Initiatives <input type="checkbox"/>	100 <input type="checkbox"/>	
GIS Map Products <input type="checkbox"/>	100 <input type="checkbox"/>	

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Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from

Task: 1.03 Dept. of Environmental Quality - Virginia Coastal Zone Management Program  
Virginia CZM Program 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	9/30/2011	12/31/2011		

Staff has been engaged in ongoing coordination with state CZM partners on communication, marketing and education efforts through groups such as the Virginia Resource Use Education Council, and engaged partners in new opportunities to collaborate. As follow-up to coordinative discussions with staff on the Flora of Virginia Project and the Plant More Plants campaign, staff expanded VACZM's outreach to other partners engaged in native plant marketing efforts and initiated a new Virginia Native Plant Marketing Partnership. It is hoped that the focus of this partnership on collaboration and coordination will show unity, lead to more consistent messaging to the general public and greater efficiencies in the use of limited resources, and provide a forum for the partners to work together to address common coastal water quality and habitat goals. Staff is a member of a new CBP Goal Implementation Team 4 (GIT4) "Healthy Watersheds" Communication Strategy Workgroup as well as working with NOAA CB Office staff to catalog regional NOAA environmental literacy and training programs and projects, communicate to decision-makers where the programs have supported and collaborated with one another on common CZM goals, and to identify opportunities where the NOAA programs can more effectively collaborate in future.

Communication/Education/Marketing Materials – Product 1:

Staff coordinated production, including writing, editing and design of a 25th anniversary issue of the Virginia Coastal Zone Management magazine, to be published in mid-November. Staff also produced multi-media materials related to the Plant ES Natives campaign including new radio ads for the Fall '11 phase, a new plant tag for trees and shrubs, and demonstration site signage. Ads can be heard at <http://www.deq.virginia.gov/go-native>. Staff developed a new Facebook page to engage the public in the campaign, and contributed VACZM information through partner social media sites, including the Plant More Plants and Virginia State Parks blogs.

Public Campaigns, Events, Presentations and Exhibits – Product 2:

Staff continued to coordinate the multi-year "Plant ES Natives" campaign, and focused on training and guiding local "Community Leaders" to help implement the campaign. Trainings were held at the end of March and in June, 32 new leaders were "pinned" and CL Teams organized to give presentations, schedule and staff exhibits, serve as liaisons with garden centers, e.g. distribute plant tags and monitor availability and popularity of natives, and maintain native plant demonstration sites. Staff developed and is distributing a PowerPoint presentation module to leaders, which will be part of a Community Leader Outreach Kit not quite completed but soon to be available to each CL. A VACZM press release issued in Spring highlighting the new Community Leaders did not result in a news article. However, sharing the campaign continues to draw the attention of Virginia CZM partners and others interested in the application of social marketing to address environmental issues, and it has provided a number of opportunities to highlight VACZM's place in the forefront of social marketing to change environmental behavior. The campaign is highlighted in a new book - "Social Marketing to Protect the Environment" released in May. Staff was asked to serve on a review panel guiding development of social marketing metrics and protocols to be used by the National Fish and Wildlife Foundation in their grant programs, and gave a presentation at the North American Association of Environmental Education in October on the application of social marketing and the Plant ES Natives campaign.

Website Development/Maintenance – Product 3:

Staff maintained the program's website, including new and revised pages highlighting the program's efforts in blue-green infrastructure mapping and planning, climate change adaptation, shoreline management, and the VACZM's coastal needs assessment process and resulting strategies. Staff is serving on the DEQ Web Steering Committee, which provides the DEQ Management Team with guidance on decisions concerning web design, navigation and use of social media.

Final Products	% Completion	Anticipated Completion Date
Communication/Education/Marketing Materials <input type="checkbox"/>	90%	September 31, 2011
(Virginia Coastal Zone Management Magazine) <input type="checkbox"/>		(November 15, 2011)
Website Development/Maintenance <input type="checkbox"/>	100%	September 31, 2011
Campaigns/Events/Presentations/Exhibits <input type="checkbox"/>	100%	September 31, 2011

Task: 2 Dept. of Environmental Quality Subcontract  
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	3/31/2012	6/30/2012		

\$14,825 remains in this in this task to be allocated. Given FY11 and 12 budget uncertainties, we are delaying allocation of these funds until we know what the most pressing priorities will be if there is a significant budget cut that must be absorbed. One funding need will be the conversion of the VA CZM Grants Database from Access to Sequel Server or Oracle. DEQ's Office of Information Services has almost completed the bid package for this work. Once that is complete and bids are received, we'll have a better sense of the conversion cost.

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**Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
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Task: 2.01 Back Bay Restoration Foundation  
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		

This project was terminated for convenience. The 2010 State of the Bay conference was not held because of staff turnover at the Back Bay Restoration Foundation. \$3,000 remains in this task to be reallocated.

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

<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 9/30/2011 12/31/2011		

During the second half of FY 2010, the Office of Environmental Impact Review/Federal Consistency (OEIR) reviewed 146 development projects and management plans for consistency with the VCP. This represents 81.5% of the total amount of projects (179) reviewed during this period. Major state projects accounted for 17 projects, 78 were federal actions, and 51 were federally funded projects (predominantly local government projects). The 78 federal projects included 62 federal agency activities, 2 OCS activities, 10 federal licenses, approvals, and 4 HUD mortgage insurance projects (submitted as a residual category pursuant to the federal consistency regulation 15 CFR 930.31©). All federal consistency determinations and federal consistency certifications were completed within the established legal deadlines. On May 16, 2011, OEIR completed the coordinated review of the federal consistency certification submitted by Dominion Virginia Power for the Combined License application to the Nuclear Regulatory Commission and the U.S. Army Corps of Engineers permit application for the proposed Unit 3 at the North Anna Power Station in Louisa County. Based on comments submitted by agencies administering the enforceable policies of the Virginia Coastal Zone Management Program (VCP), DEQ conditionally concurred that the proposal is consistent with the enforceable policies of the VCP.

The OEIR continues to maintain a website for Federal Consistency Reviews and can be accessed through DEQ's main webpage or found at <http://www.deq.virginia.gov/eir>. The webpage is updated weekly.

Final Products	% Completion	Anticipated Completion Date
Federal consistency determinations and certification responses	100%	
Consistency Information/Outreach Efforts	100%	

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**Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from**

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>	Submit w/next Semiannual Report
Closeout	Start:      End:      Closeout:		
	10/1/2010   9/30/2011   12/31/2011		

Over the past six months, the Virginia Office of Environmental Education (VOEE) coordinated the development of the Coastal Educators Leadership Profile, planned and conducted the Coastal EE Leaders Summit, and conducted two professional development workshops. VOEE staff coordinated drafting of the Coastal Educators Leadership Profile as part of the ongoing Environmental Educators Leadership Program with assistance from the Virginia Institute of Marine Science and Chesapeake Bay Foundation. This new profile takes a descriptive approach for educators to exhibit skill and content knowledge in regards to coastal resources in lieu of a prescribed list or curriculum and required gathering a number of pertinent resources unique to Virginia.

VOEE staff planned and recruited 31 participants for the Coastal EE Leaders Summit. Speakers were recruited based on high quality presentations at the 2010 CZM Partners Workshop. Content for the summit focused on marine debris related to abandoned crab pots, challenges to seaside oyster restoration, and increasing challenges from coastal hazards related to sea level rise. More than 120 educators participated in the annual environmental education conference held this year in conjunction with the Mid-Atlantic Marine Education Association. VOEE staff also conducted professional development workshops focused on the Livable Neighborhoods Water Stewardship Program and training educators on the use of the Coastal GEMS mapping tool.

The VOEE manager worked with other natural resource agencies and the VA Department of Education to implement the revised Virginia EE master plan including building capacity within regional environmental education teams, and working with the state Department of Education to include Virginia's environmental literacy priorities in the new Chesapeake Bay Environmental Literacy Plan. VOEE staff facilitated a regional workshop in July with 30 key leaders from the Bay states. Projects were reviewed for the VA Environmental Endowment and the Foundation for Virginia's Natural Resources. Virginia Naturally partners were kept informed by 3 newsletters. More than 100 organizations have been geo-located and put on a new interactive map on the Virginia Naturally website.

Final Products	% Completion	Anticipated Completion Date
Coastal Community Education Leadership <input type="checkbox"/>	100	
Meaningful Community Education Workshops <input type="checkbox"/>	100	
Building Capacity for Delivering EE in VA <input type="checkbox"/>	100	

Task: 5 Dept. of Environmental Quality - Chesapeake Bay Program  
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>	Submit w/next Semiannual Report
Closeout	Start:      End:      Closeout:		
	10/1/2010   9/30/2011   12/31/2011		

Retrofitting the City of Richmond's wastewater treatment plant with enhanced nutrient removal technology continues. Construction began in February 2009 and is scheduled for completion by September 2012. To-date, \$15,784,123 of the \$45,674,244 grant has been paid to the City and construction is approximately 35% completed.

In the period since April 1, 2011, 5 grant reimbursements totaling \$3,602,991 were made to the City for this project, which far exceeds the \$960,951 in State General Funds needed to provide a match for the Coastal Zone Management Program.

Final Products	% Completion	Anticipated Completion Date
Final Report <input type="checkbox"/>	90%	Nov. 15, 2011

## VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2010

Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from

Task: 6 Virginia Marine Resources Commission  
Permit Review and Compliance

<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   9/30/2011   12/31/2011		

During the reporting period, VMRC received a total of 990 joint permit applications. Actions were completed on 1033 projects, some of which were received prior to the reporting period. During the reporting period, 170 compliance inspections were conducted for previously issued permits. Also, 87 compliance inspections for the random sample of 130 projects permitted in 2009 by local wetland boards were completed.

During the reporting period, local wetlands boards throughout Tidewater Virginia acted on 186 projects involving tidal wetlands. Of this total, 142 were approved as proposed, 41 were approved as modified, 3 were denied and 31 required compensation either on or off site (14), in a mitigation bank (2) or through payment of an in lieu fee (15) accounting for 18,317 square feet of tidal wetland impacts.

Final Products	% Completion	Anticipated Completion Date
Collect permit compliance data for projects permitted by VMRC <input type="checkbox"/>	Ongoing <input type="checkbox"/>	
Collect permit compliance for wetland projects permitted in 2009	100%	September 2011
Compile data for entry into data base <input type="checkbox"/>	100%	September 2011

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

<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   9/30/2011   12/31/2011		

- Multiple presentations were given to localities, land trusts, SWCDs and consultants including the counties of Northampton, King William and Spotsylvania, the City of Portsmouth, the Northern Virginia Regional Park Authority, Fort A.P. Hill, Hanover-Caroline and Tri-County/City SWDC, Timmons Group and A. Morton Thompson & Assoc., Inc. The presentations included an overview of DCR's Natural Heritage Program, the Locality Assistance Program, the Natural Heritage Data Explorer (NHDE) website, the Virginia Conservation Lands Needs Assessment (VCLNA), the Land Conservation Data Explorer (LCDE) and the Wetlands Catalog portion of Coastal GEMS.

- For 4/1/11 through 9/30/11, 508 projects were reviewed for impacts to natural heritage resources in the coastal zone (45% of the projects reviewed statewide). Due to the BRAC, six of the projects involved continued development at Fort Belvoir, such as the Route 1 Improvements, Parade Grounds Area Water Upgrade, and Defense Access Roads Ramp. As a result of comments on these and other projects, Fort Belvoir has contracted the Division Natural Heritage to inventory for mussels, odonates, bats, Lepidoptera, Sensitive Joint-vetch, Small whorled pogonia, and the Northern Virginia well amphipod. NASA, Wallops Island Goddard Flight Facility is continuing to develop and a Preliminary Environmental Impact Statement was reviewed. An inventory of North Wallops Island was performed this summer/fall by DCR biologists, however the Locality Liaison continues to request surveys for the balance of the facility due to proposed expansion and development on the base. A wind turbine site proposed on land at Cape Charles, that was reviewed this past spring by the Locality Liaison, has been abandoned.

- 77% of the localities, 70% of the Land Trusts and 100% of the PDCs in the coastal zone have Natural Heritage data.

Locality Assistance: The Locality Liaison has been in contact with 11 Coastal Counties and is working with them to add Natural Heritage language and maps to their comprehensive plans. The Locality Liaison has provided language, tables and maps of Natural Heritage Conservation Sites to Charles City County, King William County, Mathews County, New Kent County and York County. Six coastal localities are preparing their updates either this fall or winter and are working with the Locality Liaison to include Natural Heritage information.

- The NHDE website is in need of an upgrade to a different platform (ArcServer) that will enhance the functionality of the site, for which funding is currently being sought.

Final Products	% Completion	Anticipated Completion Date
Project Review <input type="checkbox"/>	100%	September 30, 2011
Locality Assistance Program Presentations <input type="checkbox"/>	100%	September 30, 2011
Natural Heritage Data for Coastal Partners <input type="checkbox"/>	100%	September 30, 2011
Improvements to Natural Heritage Data Tools <input type="checkbox"/>	100%	September 30, 2011

Year: 2010

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

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

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closeout	Start:      End:      Closeout:		
	10/1/2010    9/30/2011    12/31/2011		

CCRM Advisory Activity:

	Information Requests	Add'l Field Visits	Meetings	Advisory Reports	Website Hits
APR	203	5	16	70	271
MAY	144	2	26	25	225
JUN	143	9	16	38	234
JUL	103	1	9	3	108
AUG	142	3	7	3	150
SEP	152	3	20	4	46

Wetlands Reports:

The Center for Coastal Resources Management continues to post Joint Permit Applications with VRMC assigned numbers in a searchable database on the CCRM website. To view the original shoreline permit applications, as well as the associated VIMS report, additional information, photos, and public hearing information for every application reviewed by the Wetlands Program staff please see: <http://ccrm.vims.edu/perms/newpermits.html>.

Publications:

Rivers and Coast, Spring 2011, Vol. 6, No. 2, Virginia's Comprehensive Wetland Program Plan  
[http://www.ccrm.vims.edu/publications/pubs/rivers&coast/Vol6\\_no2\\_vcwpp.pdf](http://www.ccrm.vims.edu/publications/pubs/rivers&coast/Vol6_no2_vcwpp.pdf)  
CCRM e-News May 2011, (coastal tools, reports and site visits announcement, and workshop information)  
Virginia Wetlands Report, Fall 2011, Volume 26, Issue 2, Comprehensive Coastal Resource Management Plans  
[http://www.ccrm.vims.edu/publications/publications\\_topics/vwr/VWR\\_fall\\_2011.pdf](http://www.ccrm.vims.edu/publications/publications_topics/vwr/VWR_fall_2011.pdf)

Workshops:

Tidal Wetlands Workshop, 5/5/11 Applying Policy to Shoreline Management  
Local Workshops, 9/28/11 Tools for Coastal Resource Management

Final Products	% Completion	Anticipated Completion Date
Product #1 – Permit Application Reviews <input type="checkbox"/>	100	Sept 30, 2011
Product #2 - Tidal Wetland Workshops <input type="checkbox"/>	100	Sept 30, 2011
Product #3 – Outreach Publications <input type="checkbox"/>	100	Sept 30, 2011
Product #4 – Wetlands Program Database <input type="checkbox"/>	100	Sept 30, 2011

Task: 9 Virginia Institute of Marine Science

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>	Project Period Open
Open	Start:      End:      Closeout:		
	10/1/2010    12/31/2011    3/31/2012		

A draft report of the 2010 SAV monitoring was submitted to VA CZM. In addition, all ground supporting SAV data was included in the survey. VIMS has received comments for the draft and has modified the report and checked all data based on the appropriate protocols developed in the QA-QC procedure approved by the USEPA. The final report will be completed on time.

2010 SAV data can now be viewed at:

<http://web.vims.edu/bio/sav/sav10/index.html> and also on the interactive map: <http://web.vims.edu/bio/sav/maps>.

Final Products	% Completion	Anticipated Completion Date
Draft Final Report	100 <input type="checkbox"/>	
Final Report <input type="checkbox"/>	50	Dec., 2011

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**Year: 2010**

**Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from**

Task: 10 Dept. of Environmental Quality Subcontract  
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		

Virginia's Secretary of Natural Resources disapproves of fee simple land acquisition by state agencies and it is not yet clear if he would approve of spending these funds on purchase of a conservation easement. He has approved an FY 12 CELCP application for the purchase of a conservation easement on the Trower property on the lower bayside of the Eastern Shore. The Southern Tip Partners (USFWS, DCR, DGIF, TNC and VA CZMP) will continue to seek opportunities to purchase conservation easements or alternatively may use the funds for habitat restoration on already publicly owned lands. In addition, given the budget uncertainties for FY 11 and 12, a decision will be delayed at least until there is a better sense of the magnitude of potential budget cuts. In case these funds are needed for core staff funding.

Task: 11 Dept. of Conservation & Recreation  
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 12/31/2011 3/31/2012		

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. During this reporting period, the VEVA Methodology Report, "The Coastal Virginia Ecological Value Assessment: a collaborative integration of conservation datasets and priorities in Virginia" was finalized (Task 1 deliverable) and provided to the CZMP for final review. All deliverables are available and have been provided to the Virginia CZMP for integration into ongoing conservation planning efforts.

Outreach (Task 3) also began during the last reporting period and entailed deploying an online Locality Survey of Future Conservation Planning Needs, which would guide the delivery of, and support for use of, Coastal VEVA products, as well as future CZMP conservation planning tools. Since April 2011 this survey has been closed, and responses from 50 planners, local officials, and PDC contacts have been collected. Responses have been analyzed to identify how the VEVA can be an effective tool to apply to the more pressing work of each locality in the Coastal Zone. Content for local presentations (e.g. Planning Directors Meetings) is being constructed currently based on analysis of survey results. Other Task 3 achievements in this period include a presentation, entitled "The Coastal Virginia Ecological Value Assessment," at the Annual Virginia GIS Conference on September 19, 2011.

An extension until December 31, 2011 was granted during this reporting cycle, to assure quality outreach activities.

Final Products	% Completion	Anticipated Completion Date
Final Coastal Virginia Ecological Value Assessment Map <input type="checkbox"/>	99	October 15, 2011
Updated CELCP Land Acquisition Priorities Map <input type="checkbox"/>	100 <input type="checkbox"/>	
VEVA Educational Materials & Delivery <input type="checkbox"/>	50	December 31, 2011

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2010**

**Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from**

Task: 12.01 Accomack County

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    3/31/2012    6/30/2012		

Accomack County lost its Director of Planning shortly after the grant paperwork was signed and returned to DEQ. With a staffing shortage, no activity has taken place and not much is anticipated until a new Director has been hired and is on board. The position has been advertised and the Accomack County Administrator is currently evaluating applications.

County staff has obtained a six month extension from DEQ to allow the project to be completed after the new Director has been hired.

A new Planning Director was hired and started full time beginning on September 6, 2011. Most of the work undertaken during this reporting period involved the GIS Coordinator working with the GIC Director on coordination issues relating to classroom training, data, etc. in preparation for site visit taken in September by students to develop information which will feed into the guide, web page, report, and comprehensive plan element.

Final Products <input type="checkbox"/>	% Completion	Anticipated Completion Date
Blue & Green Infrastructure Guide <input type="checkbox"/>	5%	12/31/2011
Blue & Green Infrastructure Web Page <input type="checkbox"/>	5%	12/31/2011
Blue & Green Infrastructure Development Workshop Report <input type="checkbox"/>	0%	12/31/2011
Sustainable Community Comprehensive Plan Element <input type="checkbox"/>	5%	3/30/2012
Sustainable Community Web Pages <input type="checkbox"/>	5%	3/30/2012
Sustainable Community Workshop Report <input type="checkbox"/>	0%	3/30/2012

Task: 12.02 Northampton County

Northampton County Blue & Green Infrastructure Protection

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	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: Other than some preliminary research by Sandra Benson, Planning Director, there has been no progress on this component to date.

Final Products <input type="checkbox"/>	% Completion	Anticipated Completion Date
Update of Waterfront Village Visions <input type="checkbox"/>	100 <input type="checkbox"/>	5/25/11
Northampton County Stormwater Management Plan <input type="checkbox"/>	0.5 <input type="checkbox"/>	2/15/12

Year: 2010

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

Task: 12.03 George Washington Regional Commission  
Developing a Blue-Green Infrastructure Plan for the GW Region

<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    9/30/2011    12/31/2011		

Product #1: Green Infrastructure Plan Report

Presentations on the proposed Regional Green Infrastructure Plan were given to local Planning Commissions in Fredericksburg, King George and Spotsylvania; and Committee of 500, a political action committee in Spotsylvania County supportive of smart growth and sound environmental planning and conservation. The final plan was developed through collaboration with local government planners, public works and development review staff.

Product #2: Local Comments Summary

The draft regional plan was circulated with the Plan Committee and local government staff persons for review comments and recommendations. The few comments received were assembled into a separate reference document.

Product #3: GWRC Action of the Green Infrastructure Plan

The resulting final draft was presented to the GWRC Board in September, and the final plan was adopted by GWRC resolution 12-08 on October 17, 2011. Copies of the plan will be distributed to local government planning offices and environmental organizations throughout the region.

Final Products	% Completion	Anticipated Completion Date
Prod. #1: Regional Green Infrastructure Plan Report	100	September 30, 2011
Prod. #2: Green Infrastructure Plan Comment Summary	100	September 30, 2011
Prod. #3: GWRC Action on Green Infrastructure Plan	100	September 30, 2011

Task: 12.04 Hampton Roads Planning District Commission  
Sustainable Communities Focal Area: Climate Change in Hampton Roads

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:      End:      Closeout:		
	1/1/2011    12/31/2011    3/31/2012		

HRPDC staff continued to collect data, conduct research, and coordinate with other government agencies and organizations on related projects. These other projects include working with Old Dominion University to analyze economic impacts of sea level rise, participating in an ODU-sponsored sea level rise research forum/work session with many different stakeholders (held August 10, 2011), and coordinating with ODU faculty to develop cooperative projects. HRPDC staff also worked with UVA-Institute for Environmental Negotiation and Wetlands Watch staff to develop and present the findings from the last year's sea level rise listening sessions to the Virginia Beach City Council (held May 17, 2011). HRPDC staff continues to work with faculty from the University of Virginia School of Engineering and Applied Science to develop and implement a decision-making model to identify how climate change impacts can change long-range transportation plans and priorities. HRPDC staff participated in a workshop sponsored by FHWA in Olympia, Washington to learn from several other, similar projects across the country. HRPDC staff also made several educational presentations throughout the reporting period, including to staff at NASA Langley, the York River Group Sierra Club, and a class at Old Dominion University. HRPDC staff also attended a workshop on a storm surge forecasting tool at the Virginia Institute of Marine Science.

Final Products	% Completion	Anticipated Completion Date
Assessment of Economic Impacts	30	December 31, 2011
Tool Development: Sea Level Rise Impacts	30	December 31, 2011
Policy Recommendations: Built Environment	30	December 31, 2011
Policy Recommendations: Natural Environment	30	December 31, 2011
Development of a Framework for the Response to Climate Change in Hampton Roads	30	December 31, 2011

Year: 2010

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

Task: 12.05 Middle Peninsula Planning District Commission  
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	12/31/2011	3/31/2012		

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

MPPDC staff continued to provide outreach to the general public during the first six months of this project. 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 continues to work with VTech to develop a report about adaptation within the Middle Peninsula. MPPDC staff edited several of the report chapters to date and will continue to assist VTech through the completion of this project. This final report will supplement the START kit.

**Product 3: Public Policy Adoption:**

Upon 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 <input type="checkbox"/>	95%	Dec 2011
START-kit <input type="checkbox"/>	95%	Dec 2011
Public Policy Adoption <input type="checkbox"/>	90%	Dec 2011

Year: 2010

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

Task: 12.06 Northern Neck Planning District Commission  
Northern Neck Blue-Green Infrastructure Protection and 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	3/31/2012	6/30/2012		

NNPDC staff researched ways to help implement green infrastructure (and other lands) conservation strategies and methods that are available to Virginia localities under Virginia State law. Input was sought out from the local land conservancy staff and others in the land conservation arena. Options available to local government include zoning, design and density regulations, agriculture/forestry districts, cluster development ordinances as well as comprehensive plan policy language. The Green Infrastructure Implementations report will be delivered in both a digital and hard copy to county staff. NNPDC staff received the Coastal Virginia Ecological Valuation Assessment (VEVA) GIS data from the Virginia Coastal Management Program for use in the sea level rise impact analysis of green infrastructure. For the grey infrastructure data, locations of sewage treatment plants and boat ramps were digitized over aerial photos, and county E911 building structure outlines were used to estimate the impact to private dwellings (mostly residential with a substantial number being outbuildings or sheds). Boathouses were not included, because they are already inundated. NNPDC staff used raster VirGIS elevation for three of the Northern Neck counties (Northumberland, Richmond and Westmoreland) for the sea level rise GIS analysis. Lancaster County had purchased 2009 Virginia Base Mapping Program elevation contours for the county, and the 2 and 4 foot contour were used in the analysis. The older raster VirGIS elevation data was digitized and interpolated from USGS 1:24K topographic map sheets, and has the lowest accuracy due to the large raster data size and errors from digitizing and interpolation. In order to show a large enough section of the near shore to be recognizable at the county level scale, NNPDC used the zero to four foot categories of the elevation data. Northumberland, Richmond and Westmoreland county E911 structure outlines were clipped using the 0 to 4 foot elevation data, and then checked using the USGS topographic map to delete any clipped E911 buildings that were above the five foot contour line. The methodology for Lancaster county was different since they had two foot elevation contours. NNPDC staff examined the two and four foot elevation contour and selected the E911 building outlines below the 2 foot contour as well as buildings between the 2 and 4 foot contour. NNPDC staff then coded the Lancaster County E911 structures as under two foot elevation and two foot to four foot elevation for display purposes. The remaining task is to present the report and the assessment to the Planning Commission's of the four counties of the Northern Neck. NNPDC has requested a 6-month extension in order to schedule and make the presentations and complete the project.

Final Products	% Completion	Anticipated Completion Date
NNPDC Green Infrastructure Implementation Alternatives Report	<input type="checkbox"/> 90% <input type="checkbox"/>	March 31, 2011
NNPDC Climate Change Vulnerable Infrastructure Assessment	<input type="checkbox"/> 90%	March 31, 2011

Year: 2010

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

Task: 12.07 Northern Virginia Regional Commission  
NVRC Sustainable Shoreline Community Management

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:	End:	Closeout:		
	10/1/2010	3/31/2012	6/30/2012		

NVRC utilized the shoreline condition report data collected by the Virginia Institute of Marine Sciences to better identify the structural elements along the shoreline vulnerable to inundation. From this analysis, the majority of the areas at risk are under private ownership. There are several shoreline areas that would benefit from grading to accommodate wetland growth in the future. Since these areas are on private property, it is recognized that an important component of the communications and adaptation strategy should include what elements landowners should consider when determining how to manage their shorelines.

NVRC continued to participate in Metropolitan Washington Council of Government-sponsored efforts that focused on exploring the implications of climate change across the DC Metro region. This included presentations to the Air and Climate Public Advisory Committee in July 2011 and Climate Adaptation Sector-Based meetings in September 2011. MWCOG recognized the Sustainable Shorelines and Community Management Project serves as a model for regional collaboration around Climate Change issues.

Additionally, NVRC staff met with representatives from the Dutch Embassy who were instrumental in the coordination and implementation of the Dutch Dialogues that took place in New Orleans to serve as opportunities to share lessons from the Dutch on inundation management. The Dutch Dialogues serves as an example of a mechanism that could be applied in the Northern Virginia area or in other coastal communities that may have to consider significant structures as a strategy for protecting or accommodating sea level rise. Also, NVRC met with French Climate Ambassador Serge Lepeltier and other representatives from the French Embassy to share the work of the Sustainable Shorelines and Community Management Project, as well as to learn lessons from the French experience. Both of these conversations regarding international information exchanges was helpful in understanding the successes of both countries as well as the challenges they continue to experience. Much like the United States, the Dutch and French struggle with the political realities of planning for areas that will ultimately succumb to permanent inundation.

Finally, George Mason University has become a significant resource for Climate Change research, particularly as it relates to the perceptions for Americans and how best to communicate messages. NVRC staff is in frequent discussions with this local resource in the preparation of the Communications Strategy and the Adaptation Strategy.

Final Products	% Completion	Anticipated Completion Date
Workgroup Outcome Report <input type="checkbox"/>	50	June 15, 2012
Adaptation Strategy Report <input type="checkbox"/>	60	June 15, 2012
Communication Report <input type="checkbox"/>	60	June 15, 2012

Year: 2010

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

Task: 12.08 Richmond Regional Planning District Commission  
Central Virginia Blue and Green Infrastructure Protection Planning 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	12/31/2011	3/31/2012		

RRPDC staff has worked closely with Crater PDC staff and locality staff to identify sites for CITYgreen analysis that can illustrate the role of green infrastructure assets and can also serve as relevant examples of potential development for the wide range of development densities and types represented throughout the Richmond and Crater regions. PDC staff has used locality specific data and input to design development scenarios for analysis. The main sites for analysis include:

- Suburban Growth Area – One site is located in proximity to major transportation corridors and existing suburban development. A stream flows through a portion of the site. The stream currently has vegetated riparian buffers on-site, extending off-site, of varying quality. The site is planned for mixed use development.
- Urban Infill – One site is located within the central city in an existing neighborhood. A stream runs across the site with portions buffered by vegetated riparian buffers. The site is planned for use as a school or community facility. Another site is located in the downtown core of a small city. It includes riverfront and historic assets. This area is planned for economic enhancement and redevelopment.
- Exurban Commercial Corridor – One site is located in a suburbanizing area along a commercial corridor. A stream runs across a lower portion of the site. The stream currently has healthy, vegetated riparian buffers. The site is planned for big-box commercial.
- Military Growth Area – A relatively large site is located in proximity to an existing military facility that is expected to grow in future years. Several streams with riparian buffers of various quality run throughout the site. Both population and employment are expected to grow notably across the site in the next several years.

Development scenarios are currently being processed for these sites using GIS and CITYgreen software. Completion of the analysis is expected this quarter.

Upon completion of the analysis, RRPDC staff will share the findings with localities and compile the results in a Prioritization Guide. The Guide will describe how aspects of the development scenarios translate into effects on water quality. The quantification of benefits estimated by CITYgreen software will allow RRPDC staff to include a prioritization summary in the Guide; this will help planners and elected leaders to prioritize elements of future development plans given their anticipated benefits to local water quality. RRPDC staff has begun preliminary layout work for the Prioritization Guide.

PDC staff continue to consult with locality staff concerning green infrastructure asset implementation. When requested, PDC staff provide educational training or consulting on all aspects of green infrastructure. It is anticipated that such requests will increase as completion of the project approaches near the end of the year.

Final Products	% Completion	Anticipated Completion Date
Interim Report	100%	
GIS Data and Mapping of Riparian Corridor Green Infrastructure <input type="checkbox"/>	50%	December 31, 2011
Riparian Corridor Green Infrastructure Prioritization Guide <input type="checkbox"/>	10%	December 31, 2011
Green Infrastructure Asset Implementation <input type="checkbox"/>	65%	December 31, 2011

## VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2010

Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from

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

<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   9/30/2011   12/31/2011		

### Ground Water Committee

A-NPDC coordinated four Ground Water Committee meetings. The Committee reviewed 16 ground water withdrawal permits, four VPDES permits, completed five environmental reviews and submitted four letters of comment to state and federal agencies. The Committee began the process of updating the 20-year old Eastern Shore Ground Water Supply Protection & Management Plan, which involves incorporation of new technology and understanding of the hydrologic system to enhance ground water management capabilities in the region. The Committee successfully completed Water Supply Plans for Accomack and Northampton Counties. The Committee held a successful public workshop on ground water quality. The Committee held an Electronics Recycling Event on Chincoteague Island to ensure that hazardous materials did not enter the coastal environment.

### Coastal Management Committee Meetings/Trainings

A-NPDC coordinated three Coastal Management Committee meetings. Meetings provided local elected officials and staff a forum to discuss and share information on Chesapeake Bay TMDL-WIP items. Other meeting items included review of offshore wind energy projects, review of sea level rise studies, review of coastal environmental evolution studies, review of LiDAR data for the Eastern Shore, review of sustainable aquaculture practices, and Outcomes of Committee meetings including enhanced coordination and communication between localities and state and federal agencies. Trainings included coordination of a Coastal PDC meeting allowing for coordination amongst PDCs and state agencies and coordination of a Coastal Inundation Mapping Training for GIS users from local, state, and federal governments, academia, and coastal management NPOs.

### Technical Assistance

A-NPDC collaborated with local stakeholders on a Climate Adaptation Working Group to address issues and identify strategies on a local and regional level and a LiDAR Working Group to identify implementation strategies for new LiDAR data for the Eastern Shore. A-NPDC coordinated with local and state governments on the planning process for the Chesapeake Bay WIP Phase II. A-NPDC served on the Local Gov. Working Group throughout the TMDL/IP planning process for one local watershed.

### Onancock School Technical Assistance

A-NPDC with the Friends of Onancock School non-profit group worked to develop a concept for utilizing the property grounds as an outdoor environmental education campus for the Eastern Shore. A-NPDC developed partnerships with other NPOs to partake in the process and develop grant applications. The campus will consist of an educational pavilion, kayak launch, nature trail, and demonstration site for various residential vegetative buffer options.

Final Products	% Completion	Anticipated Completion Date
Coastal Management Committee Report <input type="checkbox"/>	100%	9/30/2011
Coastal Management Training Report <input type="checkbox"/>	100%	9/30/2011
Technical Assistance Report <input type="checkbox"/>	100%	9/30/2011
Ground Water Committee Report <input type="checkbox"/>	100%	9/30/2011
Onancock School Technical Assistance Report <input type="checkbox"/>	100%	9/30/2011

Year: 2010

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

Task: 42 Crater Planning District Commission  
Crater PDC Technical Assistance Program

<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	9/30/2011	12/31/2011		

(1) Crater PDC staff processed fourteen (14) environmental impact reviews for local, state, and federal projects. (2) Two coastal meetings/training sessions were held during the reporting period (6/17/11 and 9/23/11). Topics of discussion were the Chesapeake Bay TMDL Program, the Virginia Outdoors Plan update, the Rivers of the Richmond Region Guide, and the Appomattox River Interpretive Guide. (3) Crater PDC staff completed most of the work on the Appomattox River Interpretive Guide and is preparing it for final printing. (4) The Spring Appomattox River Clean-Up was held on June 11, 2011 at Petersburg and Hopewell. (5) Commission staff administered TMDL-related projects and attended several informational and training meetings. (6) Commission staff participated in several environmental planning efforts pertaining to floodplain mapping, the Chowan River Basin Study, and agricultural zoning in the Virginia Coastal Zone. (7) Crater PDC staff continued to provide technical support to FOLAR – Friends of the Lower Appomattox River.

Final Products	% Completion	Anticipated Completion Date
Environmental Impact Review Comments <input type="checkbox"/>	100%	9/30/11
Coastal Meetings <input type="checkbox"/>	100%	9/30/11
Coastal Training <input type="checkbox"/>	100%	9/30/11
Appomattox River Interpretive Guide <input type="checkbox"/>	95%	10/31/11

Year: 2010

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

Task: 43 Hampton Roads Planning District Commission  
Hampton Roads Technical Assistance Program

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

Final Report. HRPDC staff continued compiling information for the final report.

Environmental Impact Review. Thirty (30) environmental impact assessments/statements and coastal zone consistency determinations were reviewed, local government input coordinated, and comments provided to DEQ for inclusion in official state positions. Summaries of all projects were provided to the HRPDC.

Public Information and Education. HRPDC staff maintained information on its website and provided regular briefings to local elected officials on the HRPDC Commission, local governing bodies, and to professional and civic organizations. HRPDC staff continued use of a blog, HR REVIEW, located at <http://www.hrpdcva.gov/HamptonRoadsReview>, for public outreach and communication. During this period, sixty-one (61) entries were posted, with topics ranging from environmental education to regional economics.

Regional Coordination Process. HRPDC staff facilitated monthly regional advisory committee meetings addressing wetlands, Chesapeake Bay issues, and other coastal and environmental issues. Through these committees, the localities develop regional consensus on state and federal regulatory and legislative issues, coordinate plans addressing these issues, and exchange information on program activities. During this period, six (6) meetings were held of the regional Joint Environment Committee (JEC). Topics covered included regulations for aquaculture, septic tanks, and stormwater management, the Chesapeake Bay TMDL, potential legislation, sustainability, climate change, living shorelines, and environmental education. HRPDC staff also facilitated meetings of the region's Chesapeake Bay TMDL Phase II Watershed Implementation Plan Steering Committee and the development of a regional proposal for a HUD Sustainable Communities Regional Planning Grant.

Regional Technical Studies. HRPDC staff addressed a number of technical issues concerning water quality and watershed management. These included continued development of a regional GIS dataset delineating which areas local governments and state and federal agencies are responsible for under the Chesapeake Bay TMDL.

Technical Assistance. Daily assistance was provided to local government staff, consultants, businesses and citizen environmental organizations on environmental and planning issues. This included ordinance and plan development, provision of technical information, acquisition and interpretation of aerial photography, and GIS data and maps. Assistance with organizational development and consideration of technical, regulatory, and policy issues was provided to regional environmental organizations in order to facilitate informed education and participation in local, regional and state planning and decision-making.

Committee Participation. HRPDC staff participated on several committees related to the Regional Coastal Resources Management Program. These committees included the Dismal Swamp Trail Connector, the Southeast Coast Paddling Trail, the Virginia Coastal Policy Team, and the Coastal PDC Committee.

Final Products <input type="checkbox"/>	% Completion	Anticipated Completion Date
Final Report: Hampton Roads TA Program <input type="checkbox"/>	50	December 31, 2011
EIA/EIS and Coastal Consistency Review <input type="checkbox"/>	80	December 31, 2011
Public Information, Education, and Training <input type="checkbox"/>	50	December 31, 2011
Regional Coordination Process <input type="checkbox"/>	80	December 31, 2011
Special Regional Studies <input type="checkbox"/>	50	December 31, 2011

Year: 2010

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

Task: 44 Middle Peninsula Planning District Commission  
Technical Assistance Program

<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    9/30/2011    12/31/2011		

Product 1 (Coastal Management Analysis and Policy Support): Middle Peninsula Planning District Commission (MPPDC) staff continued to provide coastal management support to local government elected officials, chief administrative officers for local governments, local planning staff, local planning commissions and wetland boards' staff. MPPDC staff assisted localities with GIS needs particularly focused on generating maps depicting redistricting examples for localities. Additionally, Essex County was provided GIS support in the development of a 2011 Essex County protected Lands map update for the Essex County Countryside Alliance's annual report. MPPDC Staff remained engaged in discussions with regard to Total Daily Maximum Loads (TMDL)/Chesapeake Bay Clean-up. Consulting with State and Federal parties, MPPDC staff convened several meetings with local stakeholders to discuss the specific role of Middle Peninsula localities in the Chesapeake Bay Clean-up effort. Additionally, MPPDC staff facilitated work regarding the development of a Rural Chesapeake Bay working Waterfront coalition and participated on a General Assembly directed Aquaculture Stakeholder Committee to determine the appropriate balance between a private landowner's right to develop a commercial enterprise and the extent of local government's authority to oversee land use through its zoning power.

Product 2 (Local Planning Commission): MPPDC Staff continued to convene meetings with local government level planners and administration as well as bi-monthly meetings of the Middle Peninsula Chesapeake Bay Public Access Authority (MPCBPAA) to discuss ongoing and new issues related to coastal zone management. In particular the topics of discussion included Chesapeake Bay Total Maximum Daily Loads, Aquaculture and Land Use, as well as onsite sewage disposal systems and their land use implications.

Product 3 (MP CBPAA Annual Work Plan and Dredging Plan Support): MPPDC staff supported the development and execution of the Annual Work Plan of the Middle Peninsula Chesapeake Bay Public Access Authority (PAA). As part of the work plan, MPPDC staff focused on partnering with the US Army Corps of Engineers and Virginia Marine Services to develop a Regional Shallow water Dredging Master Plan. As federal funding for shallow water dredging project is expected to become unavailable, the report focuses on the 17 federally designated channels within the region and funding options to keep these channels open. To supplement this report, MPPDC staff developed a guidance report for all channels (federally and non-federally designated channels). The report specifically takes the reader through the dredging process and fees associated with project execution.

Final Products	% Completion	Anticipated Completion Date
Coastal Management Analysis and Policy Support <input type="checkbox"/>	100%	Sept 2011
Local Planning Commission <input type="checkbox"/>	100%	Sept 2011
MP CBPAA Annual Work Plan and Dredging Plan Support <input type="checkbox"/>	100%	Sept 2011

Year: 2010

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

Task: 45 Northern Neck Planning District Commission  
Northern Neck PDC Technical Assistance Program

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

NNPDC staff held a training session, in conjunction with DCR on June 17, 2011 regarding the Virginia Bay TMDL effort. The Chesapeake Model Run data 5.3.0 was delivered by DCR to the counties and the PDC. The process for adding information to Virginia's Watershed Implementation Plan (WIP) Phase II was detailed and discussed. Afterwards, DCR staff left and the NNPDC held a local coordination meeting with the county administrators in the afternoon to chart the planned course in response to the Bay TMDL WIP II. NNPDC staff held a training session on Working Waterfronts on July 27, 2011, with a presentation from Tom Murray from VIMS/Sea Grant highlighting current local efforts and the status of federal legislation. After the training session, NNPDC staff convened a Northern Neck Land Use Administrators meeting and discussed the Bay TMDL WIP. Localities agreed that some of the DCR data is not accurate for their locality and that local data was needed to correct some of the problems with the dataset. NNPDC staff hosted a Wetlands Board training session on Sept. 28, 2011 given by VIMS staff on the newly created shoreline management decision tree. This training included an exercise to utilize the decision tree to aid in determining the best shoreline practice on several case studies provided. Representatives from three of the four Northern Neck Wetland Boards attended. A Northern Neck Land Use Administrators Meeting was held in the afternoon where the Bay TMDL Watershed Implementation Plan was discussed and strategies to reduce non point source pollution were proposed.

NNPDC staff completed revising the five Northumberland County digital tax maps, have quality controlled and checked the maps, and are currently setting up the digital maps for printing hard and digital copies.

NNPDC staff have updated the 1999 Lancaster County Farm Field GIS Data using 2007 VBMP Aerial Photography to remove any agricultural land that has been allowed to lay fallow, converted to forest, or to residential uses. This revised farm field layer has been intersected with the county digital tax maps to create a database of land owners that are engaged in agricultural operations. This database needs to be examined to purge duplicate land owners so that there is only one notification for each landowner, and set up for a mail merge notification letter.

NNPDC staff have produced a draft Richmond County Buildable Areas Map and have submitted it to Richmond County staff to review. Layers used to create the map are the National Wetlands Inventory, 100 foot Chesapeake Bay Resource Protection Area, and slope, with hydric soils being considered as a limiting factor. Whatever changes are requested by Richmond County staff will be made and the map should be finalized when that is completed.

NNPDC staff have gathered all the relevant GIS data layers for the Westmoreland County buildout analysis, including tax parcels, zoning, 100 foot Chesapeake Bay Resource Protection Areas, and National Wetland Inventory Wetlands. NNPDC staff is in need of additional training to be able to utilize the Community Viz software and plan on securing technical assistance to help complete this project and use as an additional training opportunity to train on the software.

Final Products <input type="checkbox"/>	% Completion	Anticipated Completion Date
Coastal Management Support <input type="checkbox"/>	100%	September 30, 2011
Local Planning Coordination and Training <input type="checkbox"/>	100%	September 30, 2011
Northumberland County Digital Tax Map Revision <input type="checkbox"/>	90%	December 31, 2011
Lancaster County Agricultural Data Revision and Mailing Database <input type="checkbox"/>	90%	December 31, 2011
Richmond County Buildable Areas Map <input type="checkbox"/>	90%	December 31, 2011
Westmoreland County Growth Area Buildout Analysis <input type="checkbox"/>	25% <input type="checkbox"/>	December 31, 2011

Year: 2010

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

Task: 46 Northern Virginia Regional Commission  
NVRC Coastal Resources Technical Assistance Program

<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	9/30/2011	12/31/2011		

The Northern Virginia Clean Water Partners surpassed their goal for the 2011 campaign season of over 1,000 individuals following the Northern Virginia Dog Blog. This is due in large part to the continued diversity of radio and online ad placement, as well as quizzes and contests to attract readers. The annual survey revealed that roughly a quarter of the respondents who recalled hearing or seeing the advertisement changed their behaviors as a result. The majority state they are more careful with fertilizer or fertilize less often.

Additionally, NVRC staff presented the overall effort of the Northern Virginia Clean Water Partners at the EPA sponsored Community Involvement Training Conference in Crystal City, VA. EPA's National Estuary Program requested a webinar, which is scheduled for October 26, 2011.

NVRC staff continued to participate on the Northern Virginia Urban Forestry and Potomac Watershed Roundtables sharing the interests of Northern Virginia with roundtable members. Karen Firehock, of the Green Infrastructure Center, presented to the NoVA Urban Forestry Roundtable regarding Green Infrastructure Planning and highlighted the effort underway in Northern Virginia. This resulted in several follow up phone conversations and discussions about refinement at various levels, including the parcel scale.

Based on these discussions, NVRC hosted a workshop on opportunities to revitalize underutilized and vacant lands in Northern Virginia. Participants were particularly interested in the efforts underway in the City of Richmond, shared by Alisa Hefner of Skeo Solutions and Sarah Stewart of Richmond Regional PDC. Discussion revealed that each jurisdiction has different ways of classifying vacant and underutilized parcels and that a smaller scale analysis might be more beneficial and easier to conceptualize than a regional effort. However, it was recognized that a regional effort could highlight areas with high concentrations of vacant and/or underutilized areas.

In addition, NVRC co-hosted a Beautifying Your Yard for Clean Water workshop on building a small-scale rain garden before an audience of 22 people in the Town of Herndon. Every participant who provided feedback stated they plan on building a rain garden based on the information presented at the workshop. The Northern Virginia Soil and Water Conservation District have been contacted by several of the participants who seek additional technical support in properly locating a rain garden on their property. This will support efforts to improve habitat and reduce stormwater-related pollution.

NVRC staff has made significant contributions to the environmental impact reviews regarding the Base Realignment and Closure efforts across the region, particularly as they relate to transportation. NVRC has been influential in the promotion of a ferry system linking areas of Woodbridge to military installations and government facilities located along Northern Virginia shoreline.

Final Products	% Completion	Anticipated Completion Date
Annual Report – NoVA Coastal Resources TA Program <input type="checkbox"/>	90	November 15, 2011
Summary of Regional Stormwater Education Campaign <input type="checkbox"/>	100	November 15, 2011

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2010**

**Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from**

Task: 47 George Washington Regional Commission  
GWRC Coastal Technical Assistance Program

<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	9/30/2011	12/31/2011		

**Product #1: Coordination and Training Program**

Regional WIP-2/TMDL Planning Committee: (7/28/11, 8/11/11, 8/18/11, 9/15/11) This regional planning committee met regularly with GWRC staff to participate in webinar on low-impact development and storm water management practices and discuss local plans to respond to Virginia DCR's Chesapeake Bay Watershed Implementation Planning- Phase 2 process. Staff exchanged information obtained from various other meetings with State and regional agencies. Meetings served as beginning steps toward next fiscal year's CZM technical assistance program activity and fostered local staff commitment to support regional application for supplemental activity grant proposal to DCR.

**Product #2: Support to GWRC's Green Government Commission (GGC) Sub-Committees**

- GGC Green Waste Management Sub-Committee: GWRC and local staff collaborated in the design of Internet survey instrument to collect business recycling information in 2012 throughout PD 16 to assist localities comply with Department of Environmental Quality annual recycling report mandate. Further meetings were suspended due to the resignation of committee chair and GWRC staff commitments that prevented sustained activity with this committee.
- GGC Green Earth Sub-Committee: Green earth committee worked with GWRC staff in the development of regional Green Infrastructure Plan and participated in its presentation to local government Planning Commissions and other stakeholder organizations.
- Green Building (GW-HELP) Sub-Committee: Design of the Home Performance with Energy Star program through the collaboration of local government and GWRC staff and consultants was completed. Marketing program was designed and implemented and approximately 2 dozen homeowner applications were processed, 1 home energy retrofit completed, with more applications anticipated in the future.

**Product# 3: City Land Use Classification Study**

The City land use classification project was completed. All 8,178 parcels have been classified by function using modified American Planning Association classification system; residential parcels and those with parking have also been given a structural function code. Over 800 parcels have been sampled (to field verify the land use code assigned), ensuring that the land use classification is better than 95% accurate. Parcels that were labeled uncertain because of discrepancies among existing zoning or family name, the air photo or street view maps were field checked. Detailed metadata for the shapefile was developed and quality control review by faculty overseeing the project was performed. A report explaining procedure and assessing the accuracy of the classification, as compared to the sampled parcels, was written. Project presented to City Planning and Public Works personnel and incorporated into City land records management system.

**Product #4: Fredericksburg Tree Canopy Analysis Report**

Comparative report showing differences in land cover classification based on 30-meter pixel resolution imagery vs. 1-meter pixel resolution imagery was prepared for the City of Fredericksburg and the four magisterial district wards for City Council. This report will be used by the City to develop local watershed implementation plans to respond to TMDLs for the Chesapeake Bay.

Final Products <input type="checkbox"/>	% Completion	Anticipated Completion Date
Prod. #1: Report on Local Coordination and Training <input type="checkbox"/>	100%	September 30, 2011
Prod. #2: Support to GWRC Green Govt Committees <input type="checkbox"/>	100%	September 30, 2011
Prod. #3: City Land Use Classification Project <input type="checkbox"/>	100% <input type="checkbox"/>	September 30, 2011
Prod. #4: Fredericksburg Tree Canopy Analysis Report <input type="checkbox"/>	100%	September 30, 2011

Year: 2010

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

Task: 48 Richmond Regional Planning District Commission  
Richmond Regional PDC Technical Assistance Program

<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	9/30/2011	12/31/2011		

RRPDC staff processed 41 environmental and intergovernmental reviews during the reporting period. As part of the process, RRPDC sought comment from localities in the Richmond Region. These locally submitted comments were reflected in regional comments submitted to the review agency.

RRPDC staff organized a meeting of the regional Environmental Technical Advisory Committee (TAC) on May 10. The Environmental TAC is composed of environmental planners from around the Richmond region. Staff from the Virginia Department of Conservation and Recreation provided a presentation on the Healthy Waters Initiative. Staff from the Virginia Department of Environmental Quality was also present and provided a presentation on newly developed Environmental Education programs including the Coastal GEMS website, Water Stewardship Campaigns and a newly developed Climate Science program.

The RRPDC provided 2 meetings for locality staff and other stakeholders on Virginia's creation of a Phase II Watershed Implementation Plan (WIP) for the Chesapeake Bay TMDL. Locality staff in the Richmond region met with staff from the Virginia Department of Conservation and Recreation, various Soil and Water Conservation Districts in the Richmond Region, and some non-profit organizations relevant to water quality. At the first meeting, DCR staff supplied preliminary local nutrient goals to localities and provided guidance about the submission of updated BMP counts, comments on land use data, and potential future strategies. At the second meeting, RRPDC staff hosted a roundtable discussion among locality representatives about the process so far and coordinated on how localities in the region plan to move forward.

RRPDC staff has completed a technical methodology review and improvement of the Richmond region impervious surface GIS coverages. RRPDC staff completed digitization of transportation features, including roads and parking lots, in the Richmond region using the 2009 aerial photography available from VGIN. RRPDC staff is currently finalizing a report analyzing impervious change between 2002 and 2009, the two years for which regional impervious surface GIS data is most complete and comparable.

RRPDC staff worked with locality staff in the Richmond and Crater regions, Crater PDC staff, and other stakeholders including state agency staff and non-profit staff to inventory features and locations of public access points to the Pamunkey, Appomattox, and James Rivers. RRPDC staff used this inventory to create the Rivers of the Richmond Region Public Access Guide. The map has been printed and is currently being distributed to locations and entities that will make it available to the general public across the region.

RRPDC staff met with locality staff around the region to discuss the status of stormwater management facilities in each locality. The information garnered from these discussions will be detailed in the Final Project Report to be submitted to the CZM Program in November.

Final Products <input type="checkbox"/>	% Completion	Anticipated Completion Date
Report on Coordination Initiatives <input type="checkbox"/>	100% <input type="checkbox"/>	September 30, 2011
Report on Training Initiatives <input type="checkbox"/>	100%	September 30, 2011
Impervious Cover Forecast Report <input type="checkbox"/>	100%	September 30, 2011
Rivers of the Richmond Region Public Access Guide	100%	September 30, 2011
Initiation of Regional Stormwater Management Discussion	100%	September 30, 2011

Year: 2010

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

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

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: End: Closeout:		
	1/1/2011 12/31/2011 3/31/2012		

This grant officially started on January 1, 2011. During the period from April through September 2011, the Virginia Aquarium Stranding Response Program (VAQS) recorded 187 strandings in Virginia. There were 213 strandings recorded during the same period in 2010.

The VAQS Stranding Team responded to 56 marine mammal strandings in Virginia during this reporting period, 49 cetaceans and seven pinnipeds. Seventeen (30%) of the strandings were located in Virginia Beach, 11 (20%) were located on the western shores of Chesapeake Bay north of the James River, and 26 (46%) were located on Virginia's Eastern Shore. The cetacean species included two common dolphin (*Delphinus delphis*), 41 bottlenose dolphin (*Tursiops truncatus*), one Risso's dolphin (*Grampus griseus*), one pygmy sperm whale (*Kogia breviceps*), one humpback whale (*Megaptera novaeangliae*) and three unknown Delphinids. Pinniped species included one harp seal (*Pagophilus groenlandica*), one gray seal (*Halichoerus grypus*), four harbor seals (*Phoca vitulina*) and one unknown Pinniped. The pygmy sperm whale stranded alive but was euthanized as a result of its poor condition. One bottlenose dolphin was reported alive in the upper reaches of the Chickahominy River following Hurricane Irene, though it was later found dead in the area. The humpback whale was entangled in gill net(s) off Virginia Beach for more than 24 hours but managed to break free.

There were 131 sea turtle strandings recorded in Virginia during this reporting period. Of the strandings, 60 (46%) were located in Virginia Beach and south side, 50 (38%) on Virginia's Eastern Shore, and the remainder (21 = 16%) along the western shores of Chesapeake Bay north of the James River. The sea turtle species included 19 Kemp's ridley (*Lepidochelys kempii*), 105 loggerhead (*Caretta caretta*), four leatherback (*Dermochelys coriacea*), one green (*Chelonia mydas*) and two animals that were unidentified to species. There were 13 live sea turtles that stranded during the reporting period: two Kemp's ridley and 11 loggerhead. Three were loggerhead hatchlings blown to shore from Hurricane Irene – they were released off North Carolina by the USCG.

VAQS staff attended six professional meetings and made several formal presentations during this reporting period. There were also educational and/or training presentations by Stranding Team members to groups in the Hampton Roads area and to stranding network cooperators. Grant funded VAQS staff worked more than 900 hours, and Stranding Team volunteers contributed more than 6,000 hours to the stranding response program during this reporting period. A detailed list of all trainings, presentations and publications will be included in the final report.

Final Products	% Completion	Anticipated Completion Date
VA Sea Turtle & Marine Mammal Stranding Response & Reporting	75%	December 31, 2011
Personnel Training Activities	85%	December 31, 2011
Public Education Activities	90%	December 31, 2011

Task: 91 Environmental Law Institute  
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 3/31/2012 6/30/2012		

During the reporting period, ELI discussed with Virginia CZM 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. ELI participated in a conference call between NOAA OCRM staff and Virginia CZM staff concerning priority setting, provided additional information, and awaited direction for moving forward once the priority had been established. Virginia's Coastal Zone Management Program and NOAA have decided to prioritize moving forward with the TES provisions, in preference to restating all the existing Virginia enforceable policies. A meeting will be held in November, 2011, among state agencies involved in the protection of threatened and endangered species, to discuss including all state T&E laws in a routine program change in support of Virginia's endangered species policy as stated in our executive order. ELI will be supporting the Virginia CZM Program in addressing tasks that come out of this meeting in the next reporting period. This re-prioritization will require some restatement of the product(s) deliverables for this project which will be submitted to NOAA for approval. If there are enough funds left in the grant, work will also be undertaken to help move Virginia toward restating its enforceable policies as originally intended.

Final Products	% Completion	Anticipated Completion Date
Restatement of Virginia's Enforceable Policies (draft) <input type="checkbox"/>	10%	Sept. 30, 2011 (to be extended)
Restatement of Virginia's Enforceable Policies (final) <input type="checkbox"/>	0%	March 31, 2012 (needs revision)

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2010**

**Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from**

Task: 93.01 The Nature Conservancy

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>	Project Period Open
Open	Start:      End:      Closeout:		
	10/1/2010   3/31/2012   6/30/2012		

The first phase of the MARCO Mapping and Planning Portal project (NA09NOS4190163) was extended due to unexpected efficiencies in producing deliverables, and work on this second phase project did not commence until October 1, 2011.

Final Products	% Completion	Anticipated Completion Date
#1 Collection and formatting of additional layers <input type="checkbox"/>	(0)	09/30/11
#2 Overlay analyses and new functions <input type="checkbox"/>	(0)	09/30/11
#3 Final report on MARCO Portal updates <input type="checkbox"/>	(0)	09/30/11

Task: 93.02 Virginia Commonwealth University  
Coastal GEMS Version 3 Final Development and Implementation

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Pending
Pending	Start:      End:      Closeout:		
	10/1/2011   3/31/2012   6/30/2012		

NOAA approval was received on September 1, 2011 to use these funds to upgrade our Coastal GEMS portal to ARCGIS Server 10. A contract for \$23,000 was mailed to VCU on September 8. The VCU Office of Sponsored Research has not yet returned the signed contract.

Task: 94.01 Virginia Institute of Marine Science - Center for Coastal Resources Management  
Shoreline Inventory Reports for Tidewater Localities - Northampton County

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

This reporting period has included data collection, processing, and QA/QC. Extensive field work along tidal Bay and selected seaside locations has been completed. Remotely sensed surveys have occurred in areas that were non-navigable. Data has been processed for nearly all areas and QA/QC is underway. A draft of the final methods report has been completed. Summary statistics have also been generated for a number of the attributes. Map format has been compiled and awaits completion of final data processing and correction.

During data processing, a problem stemming from the field collection and associated with the GPS unit was detected. This problem resulted in a dramatic slow-down in data development. Measures were taken to help facilitate the continuation of production work while keeping with the map accuracy standards established for the project. A request for an extension was granted because of this. Progress is continuing in all phases of product developments and VIMS-CCRM anticipates the project to be completed by the end of the calendar year.

Final Products <input type="checkbox"/>	% Completion	Anticipated Completion Date
Data Collection/Processing	100%	August, 2011
Process survey data and conduct QA/QC <input type="checkbox"/>	80%	November, 2011
Final Map and Product Generation <input type="checkbox"/>	60%	November, 2011
Web Pages and Postings, Data Delivery <input type="checkbox"/>	0%	December, 2011

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2010**

**Performance Report, Section A, for Cooperative Agreement No. NA10NOS4190205  
for the period from**

Task: 94.02 Virginia Institute of Marine Science  
Shore Evolution in Several Virginia Localities 2010

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:      End:      Closeout:		
	10/1/2010    3/31/2012    6/30/2012		

The necessary images for the Counties of Surry, King George, Richmond, and the City of Hampton have been scanned, rectified, and mosaicked. The shorelines also have been digitized for these localities. Reports for Surry, Richmond, and Hampton are in their final stages. The shorelines for King George are being QA/QC'd. Surry, Richmond, and particularly King George are rural counties that were very difficult to rectify, mosaic and digitize. These localities required much more time than originally anticipated. As such, we have been granted an extension to finish Prince William, Middlesex, and Lancaster.

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, 2007 and 2009.

Final Products	% Completion	Anticipated Completion Date
Shore Evolution Reports <input type="checkbox"/>	80%	March 2012

Task: 95 Middle Peninsula Planning District Commission  
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    12/31/2011    3/31/2012		

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

Product 2: Report on DRSC, Dragon TA and Education: The Steering Committee served as the lead advisory council for Dragon Run Day 2011 and since the MPPDC staff project manager resigned in April 2011, the MPPDC provided no staff support in preparation for Dragon Run day.

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 each locality for local discussion and local consideration at the September 9, 2011 local government administrators meeting. To close out this project MPPDC staff will develop 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. Upon completion of this guidance document MPPDC staff will seek its adoption.

Final Products <input type="checkbox"/>	% Completion	Anticipated Completion Date
Report on Land-Use Policy Adoption/Implementation <input type="checkbox"/>	50%%	Feb. 15, 2012
Report on DRSC, Dragon TA and Education <input type="checkbox"/>	50%%	Feb. 15, 2012
Conservation Land-use and Assessment Policies <input type="checkbox"/>	95%	Dec 2011

Year: 2010

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

Task: 96 TBD

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		

Task: 96.01 Accomack-Northampton Planning District Commission  
Seaside Special Area Management Plan Phase 3 Technical Assistance

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:	End:	Closeout:		
	6/1/2011	12/31/2011	3/31/2012		

A-NPDC coordinated with SAMP working group members to develop strategies to solicit public input for inclusion in a summary report to be submitted to the state study panel. A-NPDC staff reviewed historic resources and compiled relevant information for inclusion and incorporation in informational hand-outs and a presentation for public and stakeholder meetings. Staff has helped coordinate four meetings of the SAMP working group and solicited working group member input for inclusion in project materials. The final version of the public presentation has been finalized and public meetings are currently being scheduled. One public meeting will be held in both Accomack and Northampton Counties during November 2011. All solicited information from the meetings will be incorporated in the Public Input Summary Report.

Final Products	% Completion	Anticipated Completion Date
Public Input Summary Report <input type="checkbox"/>	0 <input type="checkbox"/>	12/31/2011

Task: 96.02 The Nature Conservancy

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>	Project Period Open
Open	Start:	End:	Closeout:		
	6/1/2011	12/31/2011	3/31/2012		

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 efforts of AN-PDC, VIMS and VMRC via the SAMP Project Team.

The purpose of this grant is to work with the Project Team to prepare public presentations regarding spatial allocations and resource distribution and utilization on the seaside. In addition, state legislature authorized Joint Senate Resolution NO. 330 establish a Study Panel to examine similar issue as the SAMP Team and to make recommendations to the legislature in January, 2012. The Study Panel, at its first meeting, requested that the Project Team utilize the information gathered in the SAMP process to solicit public input and provide it to them by the end of November, 2011.

The project team met in June, 2011 and determined the best vehicle to convey this information to a broader audience is through a PowerPoint format. Curt Smith of AN-PDC, Mark Luckenbach of VIMS-Wachapreague, Steve Parker of TNC and Marcia Berman of VIMS- Gloucester Point, along with Laura McKay and Nick Meade of CZM, were requested to assemble the presentation and submit it to the Project Team for review in September 2011. The group met several times, prepared three drafts and revisions of the PowerPoint, consolidated those into one presentation and worked through the presentation slide by slide with the Project Team on September 20, 2011. The comments received were incorporated into the final edition, which was completed in early October, 2011.

Final Products <input type="checkbox"/>	% Completion	Anticipated Completion Date
Public Information Meetings: Preparation and Presentations <input type="checkbox"/>	50%	November 30, 2011
<input type="checkbox"/> Final FY10 SAMP Report	10%	March 31, 2012

Year: 2010

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

Task: 96.03 Virginia Institute of Marine Science  
Seaside Special Area Management Plan: Synthesis and Evaluation

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:	End:	Closeout:		
	6/1/2011	12/31/2011	3/31/2012		

The Virginia Institute of Marine Science (VIMS) Eastern Shore Laboratory (ESL) in collaboration with The Nature Conservancy (TNC), the Accomack-Norhampton Planning District Commission (A-NPDC), the VIMS Center for Coastal Resource Management, the Virginia Marine Resources Commission (VMRC), the Eastern ShoreKeeper, aquaculture interests, the Virginia Coastal Zone Management (VCZM) and other SAMP Project Team members has worked for the past two years to (1) map, analyze, and interpret the current status and trends in the uses associated with state-owned and other habitats in the seaside bays of Virginia's Eastern Shore and (2) re-evaluate these uses in light of current and projected conditions.

□□  
The role of the VIMS-ESL in this collaborative project is to provide synthesis of previously collected data, assist in the preparation of presentations for public outreach, and communicate findings and recommendations between the SAMP team and the Senate Joint Resolution (SJR) 330 Study Panel.

During this period, VIMS-ESL staff completed the synthesis of GIS data layers on subaqueous bottom suitability on the seaside and worked with the other SAMP Project Team members to produce maps, summary figures and a PowerPoint presentation for public stakeholder meetings. The project team met on September 20 to finalize the presentation materials.

VIMS-ESL staff also met with the SJR 330 Study Panel on July 29 and apprised them of the SAMP project goals.

Public meetings to solicit stakeholder input are planned for later in the fall 2011 and VIMS-ESL staff will participate.

Final Products	% Completion	Anticipated Completion Date
Synthesis of data and production of presentation materials□	100	
Participation in public stakeholder meetings□	0	12/1/2011
Dissemination of stakeholder input and recommendations to SJR panel□	0	12/15/2011
Final report to NOAA□	30	12/31/2011

Year: 2010

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

Task: 96.04 Virginia Institute of Marine Science - Center for Coastal Resources Management  
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>	Project Period Open
Open	Start:	End:	Closeout:		
	6/1/2011	12/31/2011	3/31/2012		

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 self-reporting database is managed in a relational database with no connection to the actual geo-spatial boundaries of the private leases. Given that, there are limitations on the utility of these data. Specifically there are some fundamental questions that cannot be answered until this connection is made.

□

The purpose of this project is to link the geospatial database associated with the lease boundaries with the relational database associated with the monitoring data. 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 sea side 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 the database union. We have worked closely with VMRC to iron out issues with data attributes and correctness. A test analysis was completed on a partial dataset.

Final Products □	% Completion	Anticipated Completion Date
1) Database Union □	80%	November, 2011
2) Analysis of Spatial Trends □	10%	February, 2011
3) Map Development □	0%	February, 2011

Year: 2010

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

Task: 97.01 Middle Peninsula Planning District Commission  
Middle Peninsula Conservation Corridors Plan: Year 2

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

Product 1 (Incorporate quantified impacts of easements): MPPDC staff continued to present findings from grant #NA09NOS4190163 tasks 95 and 97.01 with a variety of audiences, state- and region- wide, to support discussions to promote cohesion between land use practice and land use policy. MPPDC staff facilitated discussions with regional stakeholders (ie. county planning staff, county administrators, Virginia Outdoor Foundation, The Nature Conservancy, Middle Peninsula Land Trust, Virginia Department of Forest, and Friends of Dragon Run) to provide a clear understanding of the fiscal impacts that conservation easements have on localities. MPPDC staff also presented fiscal findings at two state-level conferences, Virginia's United Land Trust Conference and the Virginia Association of Assessing Officers Educational Seminar, since such findings are universal to all Virginia Localities.

Product 2 (Mapping): Using the Priority Conservation Areas map generated through grant #NA09NOS4190163 Task 97.01 and Task 95, MPPDC staff overlaid current private conservation easements as well as conservation zones that may be compatible with the future placement of conservation easements within this Middle Peninsula. MPPDC staff researched the land records and worked with the Virginia Department of Conservation and Recreation, Virginia Outdoors Foundation (VOF), and The Nature Conservancy (TNC) to obtain GIS data from localities to depict the location of conservation easements. MPPDC staff also integrated county conservation zones to provide a visual of where conservation easements are compatible, which will assist local elected officials in recognizing inconsistencies between current county land use practices and policies.

Product 3 (Discussions with localities): MPPDC staff continued to facilitate discussions with localities about conservation easements and current land use practices. As staff developed public policy options and recommendations to create cohesion between current land practices and local land use policies, there was continuous dialogue amongst MPPDC staff, county planning staff, Commissioners of Revenue as well as conservation entities to refine options and recommendations. As part of the public policy options, a memorandum of understanding was developed to support effective communication between localities and conservation entities as well as to provide county planning department adequate time to review if the conservation easement is consistent with the Comprehensive Plan.

Product 4 (Policy actions and needs): MPPDC staff reviewed the comprehensive plans of each Middle Peninsula locality and extracted language associated with conservation easements as well as green infrastructure. This language supported discussions about current land use practices and provided a platform for discussions about land use policy and the placement of conservation easements in the future. A public policy matrix was developed and shared with local county administrators and the Commission that provides options to develop consistency and cohesion between current land use practice and policy.

Final Products <input type="checkbox"/>	% Completion	Anticipated Completion Date
Incorporate quantified impacts of easements	100%	<input type="checkbox"/> Completed
Mapping of existing conservation zones and easements <input type="checkbox"/>	100%	Completed
Discussion of nexus <input type="checkbox"/>	1 95%	Dec 2011
Policy actions and needs <input type="checkbox"/>	1 95%	Dec 2011

Year: 2010

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

Task: 97.02 Northern Virginia Regional Commission  
Northern Virginia Conservation Corridor Planning

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

On June 15, 2011, over 30 Northern Virginia residents attended a two hour summit titled: Northern Virginia's Common Wealth – Recognizing Our Region's Treasured Places. NVRC co-hosted the workshop with the Northern Virginia Conservation Trust and the Green Infrastructure Center, Inc. The summit resulted in the identification of several possible corridors linking historic resources and cross-jurisdictional connections that were not previously identified. Additionally, several of the 'treasured places' identified by participants are already under conservation easement or regulatory protection. This reinforces the idea that a benefit of conserved lands in Northern Virginia is the ability for residents to access it.

Throughout the summer, additional dataset were gathered and information refined for the regional analysis. Additionally, datasets unique to each jurisdiction were also identified. Discussions regarding implementation revealed two tracks for pursuing conservation opportunities – through development processes and through voluntary means. The conversation led to the coordination of a meeting specifically with the Land Trusts who do business in the Northern Virginia region. On September 7, 2011, at The Conservation Fund's Headquarters in Arlington, VA, NVRC in coordination with the Northern Virginia Conservation Trust and the Green Infrastructure Center, Inc held a meeting with six conservation organizations to discuss next steps, how they envision using the maps, and the best format for receiving the information. In the end, the participants were supportive of the endeavor and will write a letter of support for the formal adoption of the maps. This will enable them to apply for additional funding for the acquisition of easements and properties. Additionally, several ideas were suggested for additional analyses to identify priority targeting areas for their organizations, including:

- Focusing on areas adjacent to scenic byways
- Restoring stream buffers within the Goose Creek Watershed.

From the Land Trusts perspective, the biggest value of this project is the ability to have the GIS data and reports to explore opportunities at a regional and local scale.

Final Products	% Completion	Anticipated Completion Date
Pilot Study Report <input type="checkbox"/>	50	January 31, 2012
Summit Summary and Marketing Strategy <input type="checkbox"/>	100	January 31, 2012
Local Analysis Report and Maps <input type="checkbox"/>	75	January 31, 2012

Year: 2010

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

Task: 97.03 Dept. of Conservation & Recreation  
VNEMO Program Implementation in Coastal Zone

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

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 the integration of the Chesapeake Bay TMDL Watershed Implementation Plan for local government process. During this reporting period, the Environmental Analyst accepted the role as manager of the Virginia Healthy Waters Initiative due to staff turnover and significant structural changes at the Department of Conservation and Recreation.

The VCU Environmental Analyst has continued a strong role with the implementation of the VNEMO project in coordinating specific roles and responsibilities within the program delivery and context of the Shoreline Project, under the guidance of the Northern Virginia Regional Commission (NVRC), the VNEMO client. The VNEMO Program Manager also began to outline the process of conducting public listening sessions around Climate Change and Sea Level Rise in Northern Virginia. Through an extension of funding from the VCZM program to the NVRC for this work, a contract was established with the University of VA Institute for Environmental Negotiation (UVA IEN) to lead the listening sessions in the same manner as those conducted in the VA Beach area. The county of Prince William accepted the offer to host the listening sessions, which are planned for the fall, 2011 and will be reported in the following report timeframe.

The Coastal NPS Program Manager was requested by VDCR to implement a training program to improve the capacity of the field staff in implementing outcome based technical assistance for local governments, following the model of the VNEMO Program. This initiative continues to prepare the VDCR staff for increases in requests for technical assistance from local governments for implementation of the CBTMDL and VA SWM Regulations. The VNEMO Program Manager partnered with the NVRC and the UVA IEN to develop a training 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 is scheduled for October 25, 2011 and will include participants from the VDCR field staff from the Divisions of Stormwater Management and Natural Heritage; VDEQ; VIMS Coastal Resources Center, the Coastal Planning District Commissions and local government.

The Coastal NPS Program Manager continued the management of the +\$2M, NFWF funded, project at the Virginia Science Museum to develop a low impact development research, testing, certification and training facility at the museum to install, demonstrate, teach and monitor the performance of such practices as porous pavement, green roof, bioretention cells, tree well filters and a rainwater harvesting system. Project leadership outlined the overall project and identified teams to begin the preparation of engineering designs, monitoring program design and educational and outreach materials. During the period, the CNP Manager oversaw the advertisement and hiring of a contractor to conduct the installation of the practices at the museum.

The VNEMO Program directly assisted the Division of Natural Heritage in the development of an outreach and engagement strategy around the Priority Conservation Areas data, later to be named the VA Ecological Values Assessment (VEVA). This database effectively integrates the INSTAR stream database at VCU.

The CNP Program Manager continued to partner with the VA DCR Public Communications Office in the development of the new Chesapeake Club campaign, "Plant More Plants" and participated in the Native Plant coordinating process initiated by the VCZM office.

The VCU Analyst transitioned to the management of the VA Healthy Waters Initiative and began partnership development with the VA Nature Conservancy and the Albemarle-Pamlico National Estuary Program to expand the range of the program. A policy analysis has begun to integrate Healthy Waters language into VA Title 10.0.

Final Products	% Completion	Anticipated Completion Date
Product #1-VNEMO Sustainable Community Planning Support <input type="checkbox"/>	90	Dec 2011
Product #2-VNEMO Integration with CBTMDL WIP <input type="checkbox"/>	90	Dec 2011