

Year: 2011

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
**Performance Report, Section A, for Cooperative Agreement No. NA11NOS4190122**  
**for the period from** 

Task: 1	Dept. of Environmental Quality - Virginia Coastal Zone Management Program			Current Federal Total:	\$278,600.00
Coastal Program Management					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Period Open	
Open	Start:	End:	Closeout:		
	10/1/2011	9/30/2013	12/31/2013		

About \$10,000 remains in this task due to unspent fringe and contractual costs. These funds will be reprogrammed during the next reporting period.

Task: 1.01	Virginia Institute of Marine Science - Chesapeake Bay National Estuarine Research R			Current Federal Total:	\$102,942.00
Coastal Management Support					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Final Products will be Submitted with Task 1	
Closed	Start:	End:	Closeout:		
	10/1/2011	9/30/2012	12/31/2012		

See Task 1 for deliverables.

Task: 1.02	Virginia Commonwealth University			Current Federal Total:	\$87,180.00
Coastal Management GIS Support and Coastal GEMS Maintenance					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Attached	
Closed	Start:	End:	Closeout:		
	10/1/2011	12/31/2012	3/31/2013		

Task 1.02 is a recurring VA CZM grant to provide GIS support to the program and its partners and to maintain VA CZM's online mapping application Coastal GEMS. FY2011 Task # 1.02 was extended an additional quarter in order to spend out remaining funds. This extended period from October 1, 2012 – December 31, 2012 overlaps with the FY2012 Task 1.02 grant so work completed during this time period will be detailed in the next progress report for this current FY2012 task. Work completed under FY2011 Task # 1.02 was reported in the progress reports and final project summary for that task.

Final Products	% Completion	Anticipated Completion Date
Coastal GEMS Maintenance	100	
Coastal GEMS Updates	100	
Coastal GEMS Data Liaison	100	
Coastal GEMS Training Program	100	
Identification of Data Needs and Initiatives	100	
GIS Map Products	100	

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Task: 1.03	Dept. of Environmental Quality - Virginia Coastal Zone Management Program			Current Federal Total:	\$98,000.00
Virginia CZM Program Outreach & Publications					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Open	Start:	End:	Closeout:		
	10/1/2011	9/30/2013	12/31/2013		

An extension on this grant was requested and granted through September 30, 2013. Expenses during this period included printing and mailing of the Fall 2012 – Winter 2013 Virginia Coastal Zone Management magazine. Funds remaining in this grant – approximately \$7,000 - have been set aside to contribute to printing of a revised Virginia Oyster Gardening Guide – an expense that was budgeted in this grant but delayed due to the scope of the revisions needed and additional time required to coordinate with multi partners on the project. Depending on what monies partners have available to help pay for printing of the guide, funds may be left in this grant to support printing of additional educational materials for the Plant ES Natives campaign – including plant ID markers and flags and posters to post at participating local garden centers highlighting ES natives and prompting gardeners to plant native.

Detail of Expenditures during the Oct 2012 though March 2013 period -

2012/Winter 2013 Virginia Coastal Zone Management magazine printing	\$4,117.00
2012/Winter 2013 Virginia Coastal Zone Management magazine mailing	\$ 885.97
2012 Annual National Natural Areas Conference Presentation – registration and travel	\$ 187.31

Final Products	% Completion	Anticipated Completion Date
Multi-Media Outreach Strategies	100%	
Printed Media	50%	September 30, 2013
Events and Training	100%	
Electronic Media	100%	

Task: 2	Dept. of Environmental Quality - Virginia Coastal Zone Management Program			Current Federal Total:	\$5,453.00
Quick Response Grants					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Funds Transferred Out of Task
Proposed	Start:	End:	Closeout:		
	10/1/2011	9/30/2013	12/31/2013		

About \$5,400 still remains in this task which will be reprogrammed soon.

Task: 2.01	Back Bay Restoration Foundation			Current Federal Total:	\$2,760.00
Back Bay Restoration Foundation State of the Bay Conference					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Previously Submitted
Closed	Start:	End:	Closeout:		
	2/15/2012	6/30/2012	9/30/2012		

Task: 3	Dept. of Environmental Quality - Environmental Impact Review			Current Federal Total:	\$200,900.00
EIR and Federal Consistency					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Closed	Start:	End:	Closeout:		
	10/1/2011	9/30/2012	12/31/2012		

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Task: 4	Dept. of Environmental Quality - Environmental Education	Current Federal Total:	\$92,267.00
Environmental Education			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Attached	
Closed	Start: End: Closeout:		
	10/1/2011 9/30/2012 12/31/2012		

Task: 5	Dept. of Environmental Quality	Current Federal Total:	\$0.00
Water Quality Improvement Fund (WQIF) Match - Town of Cape Charles Wastewater Treatment Plant Nutrient Removal Upgrade			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Attached	
Closed	Start: End: Closeout:		
	10/1/2011 9/30/2012 12/31/2012		

Task: 6	Virginia Marine Resources Commission	Current Federal Total:	\$160,000.00
Permit Review & Compliance			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Attached	
Closed	Start: End: Closeout:		
	10/1/2011 9/30/2012 12/31/2012		

Task: 7	Dept. of Conservation & Recreation - Natural Heritage	Current Federal Total:	\$50,000.00
Habitat Conservation/Locality Liaison			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Attached	
Closed	Start: End: Closeout:		
	10/1/2011 9/30/2012 12/31/2012		

Task: 8	Virginia Institute of Marine Science - Center for Coastal Resources Management	Current Federal Total:	\$42,000.00
Tidal Wetlands Management Technical Support			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Attached	
Closed	Start: End: Closeout:		
	10/1/2011 9/30/2012 12/31/2012		

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Task: 9	Virginia Institute of Marine Science	Current Federal Total:	\$60,000.00
2011 Submerged Aquatic Vegetation Distribution and Abundance Survey of Virginia's Chesapeake Bay and its Tributaries			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2011 12/31/2012 3/31/2013		

The report of the 2011 SAV monitoring was submitted to VA CZM Program which can now be viewed at:  
<http://web.vims.edu/bio/sav/sav11/index.html>

and also on the interactive map:

<http://web.vims.edu/bio/sav/maps.html?svr=www>

Final Products	% Completion	Anticipated Completion Date
Draft Final Report	100	
Final Report	100	Feb., 2013

Task: 10	Dept. of Conservation & Recreation	Current Federal Total:	\$27,000.00
VNEMO Program Implementation in Coastal Zone			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start: End: Closeout:		
	10/1/2011 9/30/2012 9/30/2013		

The FY11 Task 10 final product is in the process of being finalized. VACZM has identified additional materials that need to be included to complete the project deliverable. This is anticipated to be finalized and submitted by September 30, 2013.

Task: 11	Dept. of Environmental Quality - Virginia Coastal Zone Management Program	Current Federal Total:	\$155,337.00
Eastern Shore Land Conservation			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Pending
Proposed	Start: End: Closeout:		
	10/1/2011 3/31/2013 6/30/2013		

The Southern Tip Partners (staff from VA CZM, USFWS, DCR, DGIF and TNC) met on January 16 and March 19 this period. The January meeting focused on the state of scientific knowledge about migratory bird habitat utilization, linking bird migration monitoring with habitat management, using radar to identify important forested stopover habitats, and ideal versus realistic habitat restoration goals for the lower Eastern Shore. Discussions lead to the decision to use FY10 Task 10 land acquisition funds for a conservation easement at Mutton Hunk Fen on the seaside of Accomack County and to use FY11 Task 11 land acquisition funds for two bird habitat studies and 3 habitat restoration projects on the Eastern Shore. Reprogramming of those funds is underway.

Task: 11.01	College of William & Mary - Center for Conservation Biology	Current Federal Total:	\$10,741.00
Establishing Resource Delivery Objectives for Migration Habitat Management on the Lower Delmarva Peninsula			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Pending
Pending	Start: End: Closeout:		
	6/1/2013 9/30/2013 12/31/2013		

This contract has not yet been fully executed. The contract package was mailed to the grantee on 4/19/2013.

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Task: 11.02	Old Dominion University Research Foundation	Current Federal Total: \$33,922.00	
Bird Density in Forested Migration Stopover Sites on the Lower Delmarva Peninsula and a Comparison With Radar-based Predictive Model			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Project Pending	
Pending	Start: 4/15/2013	End: 3/31/2014	Closeout: 6/30/2014

This contract has not yet been fully executed. The contract package was mailed to the grantee on 4/26/2013.

Task: 12	Virginia Institute of Marine Science	Current Federal Total: \$173,000.00	
Seaside Restoration			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Project Period Open	
Open	Start: 10/1/2011	End: 9/30/2013	Closeout: 12/31/2013

Seagrass Restoration and Water Quality Monitoring: Mapping of seagrass in Virginia's Coastal Bays revealed 4640 acres in 2012 compared to 4370 acres in 2011, an increase of 270 acres (<http://web.vims.edu/bio/sav/sav12/index.html>). Seeding was completed in October with seeds broadcast into 15 acres in Spider Crab Bay yielding a total of 7.36 million seeds broadcast into 35 acres in total for this bay. Faunal samples were collected in Chincoteague Bay and South Bay in November to continue our assessment of the faunal utilization of these meadows, relevant to the bay scallop restoration work.

Continuous (every 15 minutes) measurements of water quality (salinity, temperature, turbidity, phytoplankton chlorophyll, pH, dissolved oxygen) were made at the Spider Crab bay restoration site for the entire October 19, 2012- March 31, 2013-March period. Real time continuous monitoring data for both stations were available through March 31, 2013 on the VECOS website and database ([www.VECOS.org](http://www.VECOS.org)). During the typical late winter-early spring period, with lower water temperatures, instrument fouling is very light and monthly deployments between instrument switch outs are generally adequate. However due to the episodic presence of attached filamentous algae, interference occurred with the chlorophyll and turbidity probes off and on for extended periods of time at both stations. This interference was not as extensive at either station as it was in 2011-2012. On April 1, 2013 telemetry units were dismantled in order for an upgrade to be performed to the systems. Upon completion of this upgrade, units will be returned to the sites and a new web address will be posted. Water quality monitoring will still continue uninterrupted during this upgrade period. Water quality mapping cruises were conducted on October 19, 2012, November 9, 2012, and March 19, 2013 for this project throughout the Virginia Coastal Bays restoration area, where spatial measurements of water quality (salinity, temperature, turbidity, phytoplankton chlorophyll, pH, dissolved oxygen) were made using the underway Dataflow system. All fixed station and mapping cruise water quality Dataflow data are post processed and subject to full EPA and DEQ approved QA/QC procedures.

Scallop Restoration: Adult scallops produced from spawns during fall 2011 and spring 2012 were maintained in cages within grass beds in South Bay and Cobb Bay throughout this period. The cages were inspected shortly after Hurricane Sandy and no major damage or loss was observed. The majority of these scallops will be maintained in cages in the grass beds until spawning occurs in spring 2013, after which time they will be removed from the cages and free planted in the grass beds. Approximately 350 scallops from the spring 2012 cohort and 100 scallops from the 2011 cohort were removed from the grass bed on 3/11/2013 and returned to the laboratory to serve as spawning stock for spawns during spring 2013. An assessment of these stocks on 3/19/2013 showed no evidence of sperm or egg production at that time; spawning is expected to occur in late April to early May, 2013.

Scallops spawned in September 2013 were maintained in a land-based nursery for approximately six weeks and then transferred to floating cages in a field-based nursery near Wachapreague Inlet. Precautions taken in advance of Hurricane Sandy insured that we had minimal losses of these animals associated with the storm.

Final Products	% Completion	Anticipated Completion Date
Coastal Gems data	0	9-30-2013
Final Report	0	9-30-2013

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Task: 41	Accomack-Northampton Planning District Commission	Current Federal Total:	\$30,450.00
A-NPDC Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Attached	
Closed	Start:      End:      Closeout:		
	10/1/2011   12/31/2012   3/31/2013		

Climate Adaptation Working Group  
Complete – No new update

Coastal Management Trainings  
Complete – No new update

Technical Assistance  
Complete – No new update

Ground Water Committee  
Complete – No new update

Transient & Working Waterfront Infrastructure Needs Assessment  
A-NPDC has developed a consensus definition and an inventory for transient & working waterfront infrastructure. A-NPDC had developed a survey for marina owners to identify marina-specific needs. Once survey results have been received and completed, A-NPDC will conduct a needs assessment for individual marinas interested in performing necessary upgrades to become a certified VA Clean Marina. Working waterfront infrastructure will be assessed by reviewing a regional working waterfront inventory. A final report summarizing the needs assessment outcomes will be submitted with the Annual Report.

Final Products	% Completion	Anticipated Completion Date
Climate Adaptation Working Group Report	100%	9-30-2012
Coastal Management Training Report	100%	9-30-2012
Technical Assistance Report	100%	9-30-2012
Ground Water Committee Report	100%	9-30-2012
Transient & Working Waterfront Infrastructure Needs Assessment Report	100%	2-1-2013

Task: 42	Crater Planning District Commission	Current Federal Total:	\$30,000.00
Crater PDC Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Attached	
Closed	Start:      End:      Closeout:		
	10/1/2011   9/30/2012   12/31/2012		

## VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

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Performance Report, Section A, for Cooperative Agreement No. NA11NOS4190122  
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Task: 43	Hampton Roads Planning District Commission	Current Federal Total:	\$60,450.00
Hampton Roads Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Attached	
Closed	Start:      End:      Closeout:		
	10/1/2011   12/31/2012   3/31/2013		

Final Report. HRPDC staff completed the final report.

Environmental Impact Review. Fifteen (15) 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 an online newsletter, Hampton Roads Review, located at <http://www.hrpdcva.gov/HamptonRoadsReview>, for public outreach and communication. During this period twenty-six (26) entries were posted, with topics ranging from environmental education to housing.

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, three (3) meetings were held of the regional Joint Environment Committee (JEC). Topics covered included stormwater management regulations, regional studies and projects, the Chesapeake Bay TMDL, sea level rise, and environmental education.

Regional Technical Studies. HRPDC staff completed and summarized three (3) technical studies. The first was an analysis of areas in the region that are potentially eligible for designation as Targeted Employment Areas. The second was the completion of a bare-earth Digital Elevation Model through the merging of the best available elevation data for the region. The third was the development of a map and underlying geographic information system (GIS) for Reality Check Hampton Roads, a regional planning and visioning exercise held in May 2012.

Technical Assistance. Assistance was provided to local government staff, consultants, businesses and citizen environmental organizations on environmental and planning issues. HRPDC staff assisted local government staff with analyzing Census data.

Final Products	% Completion	Anticipated Completion Date
Final Report: Hampton Roads TA Program	100%	December 31, 2012
EIA/EIS and Coastal Consistency Review	100%	December 31, 2012
Public Information, Education and Training	100%	December 31, 2012
Regional Coordination Process	100%	December 31, 2012
Regional Technical Studies	100%	December 31, 2012

Task: 44	Middle Peninsula Planning District Commission	Current Federal Total:	\$30,000.00
Middle Peninsula Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Attached	
Closed	Start:      End:      Closeout:		
	10/1/2011   9/30/2012   12/31/2012		

Task: 45	Northern Neck Planning District Commission	Current Federal Total:	\$30,000.00
Northern Neck PDC Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Attached	
Closeout	Start:      End:      Closeout:		
	10/1/2011   9/30/2012   12/31/2012		

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Task: 46	Northern Virginia Regional Commission	Current Federal Total:	\$30,000.00
NVRC Coastal Resources Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start:      End:      Closeout:		
	10/1/2011    9/30/2012    12/31/2012		

Task: 47	George Washington Regional Commission	Current Federal Total:	\$30,000.00
GWRC Coastal Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start:      End:      Closeout:		
	10/1/2011    9/30/2012    12/31/2012		

Task: 48	Richmond Regional Planning District Commission	Current Federal Total:	\$30,000.00
Richmond Regional PDC Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start:      End:      Closeout:		
	10/1/2011    9/30/2012    12/31/2012		

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Task: 49	Virginia Beach/Virginia Aquarium and Marine Science Center	Current Federal Total:	\$31,000.00
Virginia Sea Turtle and Marine Mammal Stranding Network			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	1/1/2012 12/31/2012 3/31/2013		

This grant officially started on January 1, 2012 and ended on December 31, 2012. During the period from October through December 2012, the Virginia Aquarium Stranding Response Program (VAQS) recorded 64 strandings in Virginia. There were 47 strandings during the same period in 2011.

The VAQS Stranding Team responded to six marine mammal strandings in Virginia during this reporting period and all were cetaceans. Of the strandings, two were located on the Eastern Shore, two were in Virginia Beach, one in Norfolk and the remaining animal was found in Hampton. The cetacean strandings were all bottlenose dolphin (*Tursiops truncatus*).

The VAQS Stranding Team and our cooperators responded to 58 sea turtle strandings during this reporting period, compared with 38 strandings during this same period in 2011. Sea turtle strandings included 28 loggerhead (*Caretta caretta*), 21 Kemp's ridley (*Lepidochelys kempii*) and nine green (*Chelonia mydas*). There were 13 live strandings during the reporting period. In addition, VAQS accepted four cold-stunned Kemp's ridley sea turtles from the New England Aquarium for rehabilitation. At the end of the year, there were still cold-stunned sea turtles being recovered from Virginia waters and the rehabilitation pools were operating at capacity. A full report on this and other live sea turtle strandings will be included in the project's final report.

The VAQS Staff attended four professional meetings during this reporting period. There were several educational and/or training presentations for Stranding Team members and to various groups in the Hampton Roads area. Grant funded VAQS staff worked more than 380 hours, and Stranding Team volunteers contributed more than 3,000 hours to the stranding response program during this reporting period.

Maps and tables for all strandings during the year will be submitted as part of the final report. A detailed list of all strandings and rehabilitation cases will be also be presented in the final report for this project. The final report will also include all trainings, presentations and publications from the project period of January – December 2012.

Final Products	% Completion	Anticipated Completion Date
VA Sea Turtle & Marine Mammal Stranding Response & Reporting	100%	December 31, 2012
Personnel & Cooperator Training Activities	100%	December 31, 2012
Public Education & Outreach Activities	100%	December 31, 2012

Task: 50	TBD	Current Federal Total:	\$0.00
PDC Competitive Grants			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Funds Transferred Out of Task
Proposed	Start: End: Closeout:		
	10/1/2011 9/30/2012 12/31/2012		

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Task: 51	Hampton Roads Planning District Commission			Current Federal Total:	\$20,000.00
Coastal Resiliency: Adapting to Climate Change in Hampton Roads					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:		
	12/15/2011	12/31/2012	9/30/2013		

Between October 1, 2012 and December 31, 2012, HRPDC staff completed the work for the three deliverables of the grant. HRPDC staff continued coordination efforts with existing partners (ODU, VIMS, and local governments) on this and related projects, including the VIMS Recurrent Flooding Study, ODU's Climate Change and Sea Level Rise Initiative, and the Hampton Roads Adaptation Forum, a joint project with ODU, Virginia Sea Grant, and HRPDC, to make sure that the findings from this Coastal Resiliency study were incorporated into those projects. The first meeting of the Hampton Roads Adaptation Forum was held November 16, 2012 and was well attended by representatives from local governments and other stakeholders. HRPDC staff continued conducting research into methods for incorporating climate change impacts and adaptation strategies into local and regional plans, and HRPDC staff continued to develop GIS analyses and products which can inform local and regional climate change planning efforts.

Because of edits requested by reviewers, approval of the final report for this project was delayed beyond the expected project completion date. Final approval should occur during the extended closeout period of the grant.

Final Products	% Completion	Anticipated Completion Date
Climate Change Public Outreach and Education	95	June 30, 2013
Incorporating Climate Change Impacts in Existing and Ongoing Planning Efforts	95	June 30, 2013
Hampton Roads Climate Change Adaptive Management Plan	95	June 30, 2013

Task: 52	Hampton Roads Planning District Commission			Current Federal Total:	\$30,000.00
Water Quality Policy Analyses to Support Attainment of Nutrient Reduction Goals					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Closed	Start:	End:	Closeout:		
	12/15/2011	12/31/2012	3/31/2013		

The project includes 3 tasks to provide research on potential policies that support local governments' efforts to comply with the Chesapeake Bay TMDL and improve water quality: 1) Redevelopment Activities to Meet Nutrient Reduction Goals, 2) Opportunities and Constraints for Nutrient Reductions on Private Property, and 3) Project Management and Coordination. Each task has one deliverable – a report summarizing the findings or coordination activities.

Tasks 1, 2, and 3 are 100% complete (see report for the April 1, 2012 to September 30, 2012 period). The Final Project Summary (form C), the Final Report containing all work products, and the Final Financial Form are forthcoming and will be submitted to Virginia CZM staff in accordance with the guidance for Final Product submittal.

Final Products	% Completion	Anticipated Completion Date
Redevelopment Activities to Meet Nutrient Reduction Goals - Report	100%	September 20, 2012
Opportunities and Constraints for Nutrient Reductions on Private Property – Report	100%	June 20, 2012
Project Management and Coordination	100%	September 20, 2012

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Task: 53	Middle Peninsula Planning District Commission	Current Federal Total:	\$29,559.00
Rural Chesapeake Bay/Seaside of Virginia Working Waterfront Coalition			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start:      End:      Closeout:		
	12/15/2011 3/31/2013 6/30/2013		

Product #1 Title: Establish the Rural Chesapeake Bay/Seaside of Virginia Working Waterfront Coalition:  
In January 2012, the MPPDC staff drafted, received and executed a Memorandum of Understanding (MOU) between the Northern Neck PDC and the Accomack- Northampton PDC which created the 3 PDC Coalition for the purpose of advancing NOAA Grant NA11NOS4190122 Task 53 forward. The MOU describes the scope of work, schedule, products and deliverables as well as compensation for each participating PDC.

Product #2 Title: Recommendation of tools to provide for state and local tax, regulatory relief, and the preservation working waterfront jobs and infrastructure:  
Each PDC was required to: A) Identify up to three closed working waterfront businesses and document issues associated with the closing of each business, B) Include a discussion on the land use planning tools associated with the impacted businesses, C) Explore how zoning helps or hinders a restart of the closed business or expansion of nearby related working waterfront businesses, and D) Identify critical open working waterfront businesses and make general inquiry about legacy and secession planning. All three partners completed the work which is included in detail in the final report. The results show that working waterfront businesses close for a variety of reasons such as: loss of fishery; death of owner; retirement of owner; sale to developer; and loss of property due to sea level rise, storms, and flooding. The zoning for the case studies varies from businesses that: are non-conforming uses and cannot open after being closed for 2 years; are zoned residential but have a conditional use permit; and are marginally restricted and have few or no working waterfront limitations. The common theme for legacy planning was that it was not done. Subsequently, most of the businesses identified indicated that selling their property and/or business is their retirement solution. As a result of this retirement planning, the property may or may not continue as a working waterfront. This report can now be used to reach out to local Working Waterfront owners (identified in the WW Inventory Project) to promote future solutions for working waterfronts.

Product #3 Title: Coordination with Marine Advisory Services at VIMS for Scientific, Technical and Local Industry Coordination and Collaboration: Updated the Working Waterfront graphic in February, 2013, illustrating the connection of various working waterfront projects at the national, state, regional and local level. This graphic was developed to assist with the overall coordination and collaboration with various partners.

Final Products	% Completion	Anticipated Completion Date
Establish the Rural Chesapeake Bay/Seaside of Virginia Working Waterfront Coalition	100	March 2013
Recommendation of tools to provide for state and local tax, regulatory relief, and the preservation working waterfront jobs and infrastructure	100	March 2013
Coordination with Marine Advisory Services at VIMS for Scientific, Technical and Local Industry Coordination and Collaboration	100	March 2013

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2011**

**Performance Report, Section A, for Cooperative Agreement No. NA11NOS4190122  
for the period from**

Task: 54	Northern Virginia Regional Commission	Current Federal Total:	\$49,500.00
Northern Virginia Native Plant Social Marketing Campaign ("Go Native NoVA")			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: End: Closeout:		
	12/15/2011 3/31/2014 6/15/2014		

**Campaign Research**

During this period, the campaign partners reviewed and commented on the draft survey instrument. NVRC staff incorporated all partner comments and with the help of Amplitude Research (market research firm), finalized the survey instrument. Amplitude Research programmed the survey for the web and administered it during early March 2013. Responses were obtained from five hundred Northern Virginia homeowners. Amplitude detailed the findings in a final report dated March 13, 2013. NVRC staff provided a copy of the report to the campaign partners for their review and requested that they use the results to identify the demographics of the target audience, understand people's perceptions about native plants, identify reasons people may be hesitant or uninterested to buy and plant natives on their property, and ultimately determine the placement and type of promotional materials that people are most likely to respond to. Another partners meeting will be held in May to discuss the findings of the survey.

**Campaign Community Leader Training**

The campaign partners reviewed the draft presentation prepared by Jim McGlone and provided comments. It was agreed that the DCR definition of "native plant" should be used in order to maintain consistent messaging. However, for the purposes of this training, a slightly restructured and simplified definition may be more palatable to the public. The partners agreed that nursery staff, master gardeners, and master naturalists should be targeted to receive training however; anyone that is interested in becoming a community leader can participate in a training session. After the community leaders have been trained, they should be equipped with the Northern Virginia Native Plant Book, some promotional materials, and perhaps a scripted powerpoint to carry out trainings on their own. Trainings will be approximately 2.5 hours in length. Jim has identified people that may be interested in receiving training in Fairfax County. Lily Whitesell and Nancy Vehrs have identified people that may receive training in Prince William and Loudon Counties.

**Campaign Materials**

The plant list that is for Northern Virginia is still in development. Alan Ford of the Virginia Native Plant Society has been working with several colleagues on tailoring the list for the northern Virginia region which includes the Piedmont and Coastal physiographic zones. The plant list will also reference the Flora of Virginia book. The market research will help to identify the plants that should be included in the guide. Once the plant list has been finalized, Virginia CZM can begin work on the guidebook for Northern Virginia. Other campaign materials such as point of sale promotional items will be developed after the partners take a deeper look at the survey results.

Final Products	% Completion	Anticipated Completion Date
Campaign Research	95	June 1, 2013
Campaign Community Leaders Training Module & Materials	30	July 1, 2013
Campaign Materials	10	September 1, 2013

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2011**

**Performance Report, Section A, for Cooperative Agreement No. NA11NOS4190122  
for the period from**

Task: 55	Richmond Regional Planning District Commission			Current Federal Total:	\$49,839.00
Chapel Island/James River Public Access Enhancement Project					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:	End:	Closeout:		
	10/1/2012	6/30/2013	9/30/2013		

Final approval of "location/character and extent" of the Chapel Isle project received from the City of Richmond Planning Commission on 9/4/12 (approval also from Urban Design Committee).

Permits/approvals from the City of Richmond, U.S. Corps of Engineers, and VMRC for work within the flood plain and RPA for trail enhancement and canoe/kayak construction approved 12/12.

A project site kick-off coordination meeting was held on December 18, preparing for construction to begin in January 2013, with the goal of completion by March 31, 2013.

Work by the City James River Park System (JRP) crews directed by Nathan Burrell, City Trails Manager, began on January 3, 2013. Within the first three (3) weeks of construction, the canoe/kayak boat ramp was graded and the main trail opened up with clear view of the historic Trigg Shipyard (ca. 1898). Delayed by wet weather, flooding, and tides, the canoe/kayak ramp pad and steps is nearly complete As of March 31, JRP and Urban Tree Division logged 984 hours.

Volunteer crews, primarily from the James River Hikers, worked five successive Saturdays from late January through early March, logging nearly 350 person hours, clearing paths of invasive vines, debris and fallen trees; school groups, Friends of the James River Parks and other individuals also joined volunteer forces. North loop trail completed first, followed by the river trail with connection down to the central access trail by the Trigg Ship Yard remnants. Altria through Hands-On-Richmond, and DEQ have scheduled work days. Interpretive signs are under development, but were delayed in composition due to the absence of essential input from the James River Park naturalist.

Final Products	% Completion	Anticipated Completion Date
Subcontract	100%	
Layout and Design	100%	
Final Report	80%	June 30, 2013

Task: 92	Virginia Institute of Marine Science			Current Federal Total:	\$50,000.00
Developing a Working Waterfronts Plan for Virginia's Coastal Zone					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:		
	10/1/2011	3/31/2013	6/30/2013		

Product #1 Consensus Definitions of Working Waterfronts were developed and adopted by 4 Reg. Planning Districts in conjunction with local planning entities. The definitions adopted provided the target infrastructure for the complete inventory. The four regions; Middle Peninsula, Northern Neck, Hampton Roads and Accomack Northampton have adapted the Keep America's Waterfronts Working Act of 2011 definition of working waterfront provided below to reflect specific regional characteristics:

"The term "working waterfront" means real property (including support structures over and adjacent to the water or inland property engaged in significant water-related activities)that provides access to coastal waters or that supports commercial fishing, recreational fishing, businesses, boat building, shipping and rail yards, aquaculture, national defense, public safety, marine research, offshore energy production, or other water-related commercial, industrial, and recreational business."

These definitions will be included in the final report.

Product #2 Finalize Inventory of Working Waterfronts by 4 Reg. Planning Districts. Over 500 working waterfront locations were completed and documented using standard inventory protocols. All of the PDC draft inventories and definition reports have been submitted. Efforts are being made to improve consistency in the data formatting to allow overall report presentation. The original data entry sheets are being requested by VIMS to enhance the inventory product report.

Details of this project were presented through a panel discussion at the national working waterfronts symposium in Tacoma Washington March 27,2013.

Final Products	% Completion	Anticipated Completion Date
Consensus Definitions of Working Waterfronts by 4 PDC s	100	
Inventory of Working Waterfronts by 4 PDC districts	100	12/30/12 extended 3/30/13

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2011**

**Performance Report, Section A, for Cooperative Agreement No. NA11NOS4190122  
for the period from**

Task: 93.01	Virginia Institute of Marine Science - Center for Coastal Resources Management	Current Federal Total:	\$30,000.00
Research and development of comprehensive shoreline guidance and living shorelines general permit in Virginia			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2011 9/30/2012 12/31/2012		

Task: 93.02	Virginia Institute of Marine Science - Center for Coastal Resources Management	Current Federal Total:	\$150,000.00
Shoreline Management Planning			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start: End: Closeout:		
	10/1/2011 3/31/2013 6/30/2013		

A Shoreline Management Plan (SMP) is a guidance document for local governments that recommends strategies for managing tidal shoreline conditions. The document integrates and utilizes a large and diverse set of conditional data that describe conditions along tidal shoreline reaches at high resolution.

This funding is allocated to target the development of Shoreline Management Plans in two areas, the county of Westmoreland, Virginia and the Lynnhaven Watershed located in Virginia Beach. In addition, the funding will expand the study of historic shoreline evolution to tidal tributaries in Westmoreland County and the City of Virginia Beach. To facilitate a future management plan in Virginia Beach and Henrico County, the data collection, processing and publication of a Shoreline Inventory for these jurisdictions is also funded.

During this reporting period, completion of final products for the City of Virginia Beach and Henrico County Shoreline Inventories were complete and products delivered to VA CZMP. Deliverables included documents and digital files. The website hosted by CCRM has been updated to reflect these latest additions. Final report for Westmoreland County Shoreline Management Plan and the Shoreline Evolution Report for Westmoreland County has been complete and preparation for delivery is underway. Preparation of the Lynnhaven River Shoreline Management Plan is now underway. The Shoreline Evolution Report for the City of Virginia Beach is complete and will be delivered by May 15, 2013.

Final Products	% Completion	Anticipated Completion Date
Shoreline Management Plans Lynnhaven Watershed, Westmoreland Co	90%	5-2013
Expanded Shoreline Evolution Reports: VA Beach, Westmoreland Co	100%	5-2013
Shoreline Inventories: VA Beach, Henrico County	100%	10-2012

Task: 94.01	Hampton Roads Planning District Commission	Current Federal Total:	\$90,000.00
Land & Water Quality Protection in Hampton Roads			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2011 12/31/2012 3/31/2013		

Between October 1, 2012 and December 31, 2012, HRPDC staff completed the initial deliverables for this grant, with the work expected to continue in the grant's second year. HRPDC staff has made one presentation to local government staff to brief local government staff on progress to date and solicit input. For Product 1, HRPDC staff completed a summary of the projected impacts of new water quality regulations on Hampton Roads local governments. For Product 2, HRPDC staff completed an assessment of existing tools for evaluating plans and policies for improving water quality and implementing stormwater management best practices. Product 2 also includes several policy recommendations which are being incorporated into the final evaluation methodology. For Product 3, HRPDC staff completed an assessment of existing GIS tools for modeling the impacts of development on water quality, and completed a small-scale test implementation of one tool, CommunityViz, which included incorporating formulas from the Virginia Runoff Reduction Method.

Due to scheduling constraints, HRPDC staff anticipates presenting the findings and final report of this project to the Hampton Roads Planning District Commission at its Executive Committee Meeting in March, 2013.

Final Products	% Completion	Anticipated Completion Date
Assessment of Water Quality Regulations Impacts	100%	December 31, 2012
Tool Development: Plan Evaluation Methodology	100%	December 31, 2012
Tool Evaluation for Modeling Development Impacts	100%	December 31, 2012

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2011**

**Performance Report, Section A, for Cooperative Agreement No. NA11NOS4190122  
for the period from**

Task: 94.02	Middle Peninsula Planning District Commission	Current Federal Total:	\$50,000.00
Land and Water Quality Protection in Middle Peninsula			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start:      End:      Closeout:		
	10/1/2011   9/30/2012   12/31/2012		

Task: 95.01	Virginia Commonwealth University	Current Federal Total:	\$100,000.00
Virginia Ocean Spatial Plan			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:      End:      Closeout:		
	11/1/2011   6/30/2013   9/30/2013		

The Environmental Scientist continued participating in the weekly MARCO Board conference calls, coordinated with the NOAA Coastal Services Center and Marine Protected Areas to continue the follow-up from the VA PGIS Sessions, participated in the MARCO Ocean Planning Action Team (both the Portal and Stakeholder Engagement Subteams), attended the Ports and Shipping meeting in Norfolk (Sept 27, 2012), attended the Bureau of Ocean Management Wind Meeting with the fishing community at the VA Beach Aquarium, and attended the Northeast Regional Ocean Council Regional Planning Body Kickoff Meeting in Portland, ME (Nov 20-21, 2012).

This Task also includes the development of a VA Marine Debris Summit and an Outline for a Draft Marine Debris Plan. During this period, the VCU Environmental Scientist coordinated the development of a working committee that includes representatives of VA Coastal Zone Management Program, VCU, VA Sea Grant, VIMS, the Virginia Aquarium, and Longwood University and held multiple planning meetings and conference calls to lay out the structure of the workshop, develop the agenda and location, advise on the invitation and outreach materials, and assist in the days events. The VCU Environmental Scientist secured a graduate research assistant and continued to advance the development and coordination of activities leading up to the Summit. The Summit was held February 27-28, 2013 the outcome of which will be reported on in the FY11 deliverables. The date of the summit was selected because it was after the conclusion of the VA General Assembly, anticipating participants and presentations from VA elected officials. Sponsorship was from the VA Marine Products Board and the VA Seafood Council. Topics included: Fishing Gear—Background and Subtypes, Sources and Impacts, Actions/Education/Regulations; Plastics and Plastic Bags (Same subcategories); Items of Special Concern (Same subcategories); and Food and Beverage Containers (Same subcategories). The second day of the Summit was a work-session to solicit input to inform the development of a Debris Management Plan covering categories: Land Based Sources: Plastics; Ocean based Sources: derelict fishing gear; Land based: Special concern items/ Food and Beverage; and Ocean Based: Dumping and Discharge.

This project was extended through June 30, 2013 for completion of the Summit Summary and development of the outline of the draft marine debris management plan based on the summit findings.

Final Products	% Completion	Anticipated Completion Date
Database of Virginia Ocean Stakeholders	95	June 2013
Educational Outreach Materials for VA Stakeholders	95	June 2013
Narrative Summaries and Maps of Indiv Stakeholders Needs/Interests	95	June 2013
Summary report on VA Marine Summit and Initial Debris Plan	80	June 2013

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2011**

**Performance Report, Section A, for Cooperative Agreement No. NA11NOS4190122  
for the period from**

Task: 95.02	Virginia Aquarium and Marine Science Center Foundation	Current Federal Total:	\$6,000.00
Ocean Resources: Marine Debris Summit			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closeout	Start:      End:      Closeout:		
	2/15/2013   3/31/2013   6/30/2013		

The Virginia Aquarium & Marine Science Center provided the facilities to host a two-day Virginia Marine Debris Summit on February 27-28, 2013. A planning committee comprised of CZM staff and representatives from Virginia Aquarium, Clean Virginia Waterways, VCU, VIMS and DEQ worked together to develop the agenda, secure speakers and facilitators, and undertake all logistics. Sponsored by the VA Coastal Zone Management Program and the Aquarium, the summit welcomed 75 attendees to Virginia Beach. The summit brought together marine debris experts with target audiences, state and local resource managers, community educators, and potential funding sources to raise awareness and to identify and prioritize particular elements of marine debris that Virginians consider most critical to address. Virginia Secretary of Natural Resources, Doug Domenech, opened the summit by reminding attendees of the importance of addressing the debris issue at its source as well as once trash enters the marine environment. Invited speakers included staff from NOAA and EPA, university scientists, NGOs, industry stakeholders, and state and local governments. There were more than 15 individual presentations, expert panel discussions, and breakout working sessions during the two day meeting. The goal of the summit was to lay the groundwork for development of a Marine Debris Management Plan for the state as part of an overall water quality strategy of the Mid-Atlantic Regional Council on the Ocean (MARCO). Management options from the summit will be presented to the Virginia Coastal Policy Team and to MARCO for consideration.

Logistical support provided by the Aquarium and its catering subcontractor included registration management and fee collection, host hotel arrangements, onsite coordination, food and break services, break-out space for workgroups, set-up and cleaning services, and audio-visual equipment use and support. Of particular note, the food service provided by the Aquarium and its caterer (Sodexo) and all activities during the event generated zero landfill waste – the limited amount of waste from the event was entirely recycled or composted. As a result of the sustainability planning, the Marine Debris Summit received the highest rating from the state as a Virginia Green Certified Event.

Final Products	% Completion	Anticipated Completion Date
Hosting of Marine Debris Summit	100 %	March 31, 2013

Task: 95.03	Dept. of Environmental Quality Subcontract	Current Federal Total:	\$0.00
Ocean Resources - Marine Spatial Planning Leftover			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Funds Transferred Out of Task
Proposed	Start:      End:      Closeout:		

## VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2011

Performance Report, Section A, for Cooperative Agreement No. NA11NOS4190122  
for the period from

Task: 96	Accomack-Northampton Planning District Commission	Current Federal Total:	\$60,000.00
Seaside Special Area Management Plan (SAMP)			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Project Period Open	
Open	Start: End: Closeout:		
	5/1/2012 9/30/2013 12/31/2013		

### Seaside Recreational Use Literature Search

A-NPDC identified existing recreational datasets from the Virginia Eastern Shorekeeper, US Navy and USFWS Chincoteague National Wildlife Reserve. Work continues to expand the list as more sources are identified and then to incorporate the data into the Assessment Report.

### Seaside Recreational Use Aerial Survey GIS Data

A-NPDC completed 5 more aerial surveys over the VA Atlantic coast from Maryland to North Carolina. Recreational uses were recorded over an established flight path using a digital camera with GPS capabilities. A-NPDC is coordinating with VCZM staff to compile all data gathered into a single GIS dataset to be used for verification of information compiled during the Recreational Use Participatory GIS Workshop and Meetings.

### Seaside Recreational Use Participatory GIS Workshop & Meeting Data

Recreational use data for Virginia's Atlantic Coast was acquired during 2 days of workshops in July 2012 and compiled into GIS format. Once the draft workshop data was completed, workshop participants and other stakeholders who did not attend the workshop were contacted to solicit comment and review. There were no revisions suggested during the outreach process, and the data were determined to be complete and are now available on the Virginia CZM website..

### Seaside Recreational Use Assessment Report

A draft version of the report is underway and an extension is being requested to allow for ample time to incorporate all data generated during the literature search, workshops, and aerial surveys.

### SAV Restoration Goal & Management Report

Stakeholder groups are being contacted to determine the feasibility for conducting SAV restoration goal and management meetings. No meetings have been held to date; however, an extension is being requested to allow for ample time to determine the ideal time to address this politically-charged issue.

Final Products	% Completion	Anticipated Completion Date
Seaside Recreational Use Literature Search	100%	3/31/2013
Seaside Recreational Use Aerial Survey GIS Data	75%	3/31/2013
Seaside Recreational Use Participatory GIS Workshop & Meeting Data	100%	3/31/2013
Seaside Recreational Use Assessment Report	50%	3/31/2013
SAV Restoration Goal & Management Report	25%	3/31/2013