

Year: 2006

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA06NOS4190241  
for the period from April 1, 2008 - September 30, 2008

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

Project status: Current approved Final deliverable(s) status: Previously Submitted 10/30/2007  
Closed Start: End: Closeout:  
10/1/2006 3/31/2008 6/30/2008

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

Project status: Current approved Final deliverable(s) status: Previously Submitted  
Closed Start: End: Closeout:  
10/1/2006 9/30/2007 12/31/2007

Task: 1.02 Virginia Commonwealth University  
Coastal Management GIS Support

Project status: Current approved Final deliverable(s) status: Project Canceled  
Cancelled Start: End: Closeout:  
7/1/2007 9/30/2007 12/31/2007

Task: 1.03 Virginia Institute of Marine Science  
Working Waterways & Waterfronts Symposium Support

Project status: Current approved Final deliverable(s) status: Previously Submitted 5/1/2008  
Closed Start: End: Closeout:  
4/1/2007 9/30/2007 3/31/2008

Task: 1.04 Virginia Marine Resources Commission - Habitat Management  
Submerged Lands Management Conference Support

Project status: Current approved Final deliverable(s) status: Previously Submitted 4/30/2008  
Closed Start: End: Closeout:  
10/1/2007 12/31/2007 3/31/2008

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**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA06NOS4190241  
for the period from April 1, 2008 - September 30, 2008

Task: 1.05 Virginia Commonwealth University  
Regional Socio-Economic Assessment of Shellfish Aquaculture

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Open	Start:	End:	Closeout:	
	1/1/2008	9/30/2008	12/31/2008	

Through a thorough literature review and information obtained from professional contacts, a summary of alternative wastewater treatment technologies was completed in May. At the end of August, a preliminary cost analysis was conducted. Cost estimates were gathered from the EPA as well as consultants within the area. A cost analysis will be complete for the November 15, 2008 deadline.

In April, a literature review revealed a project with similar objectives of understanding community and stakeholder perceptions of aquaculture from the Australian Government Bureau of Rural Science. Contact was made with Nikki Mazur, one of the project's researchers in order to obtain the public survey that was implemented in the project. This public survey became the basis for the interview questions that were created for object 2 of this grant project. Along with the development of the interview questions, a research subject information page was developed. This outlined the title of the project, an explanation of the procedures, as well as the rights of person being interviewed. The interview guide and the research subject information page were submitted to the Office of Research at Virginia Commonwealth University on July 18, 2008 for IRB approval. The submitted information was not approved until September 10, 2008. Ultimately due to this delay, the scheduling and the conduction of the interviews were postponed. However, the interviews have been conducted and transcribed with key informants from stakeholder groups including NGOs, local governments, agriculturists, aquaculturists and developers. A content analysis has been initiated and will be complete for the final report that is due on November 15, 2008.

Final Products	% Completion
Economic impact of alternative wastewater treatment technologies in response to water quality requirements for enhancing aquaculture	100%
Socio-economic regional assessment of select PDCs in relation to expansion of shellfish aquaculture as an industry	100%

Task: 1.06 Environmental Law Institute  
Assessment for Off-shore Energy Development Impact Readiness: State Comparisons and Recommendations

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Open	Start:	End:	Closeout:	
	4/1/2008	12/31/2008	3/31/2009	

The Environmental Law Institute's research staff conducted interviews and reviewed laws, policies, technical literature, and other materials to identify the policy responses by states to offshore energy development. Analysis included review of California, Oregon, Washington, Delaware, Massachusetts, Rhode Island, Texas, New Jersey, and North Carolina. Environmental Law Institute staff met on July 11th with Virginia's Coastal Zone Management team, and participated in an interagency meeting on August 18th in Richmond to examine a proposed wind energy proposal. Environmental Law Institute staff also reviewed Virginia state laws and policies, and conducted interviews with Virginia officials, including agency officials and state and local officials. Interviews included the Virginia Department of Environmental Quality, Virginia Marine Resources Commission, Virginia Institute of Marine Science, SCC, Virginia Department of Game & Inland Fisheries, Hampton Roads Planning District Commission, VCERC, and others. The Environmental Law Institute provided telephone results in late August, and advance copies of assessments related to offshore wind and wave energy at that time. On October 7th, the Environmental Law Institute provided a draft final review report including policy analysis and detailed set of recommendations. On November 5th, ELI will meet with Virginia's Coastal Policy Team to present results and obtain further guidance.

Final Products	% Completion	Anticipated Completion Date
Draft Final Report	85%	November 15, 2008

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Task: 2 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
Open	Start: End: Closeout:		
	10/1/2006 12/31/2008 3/31/2009		

Remaining funds in this task were used to purchase new exhibit hardware to enable the Program to exhibit at multiple locations and share the exhibit as well as exhibit panels and materials with its partners for community and educational events. Funds were also used to transcribe the audio from the seven focus group meetings conducted on the Eastern Shore as part of the needed research phase to developing a new social marketing campaign to increase of the use of native plants and vegetative cover to enhance water quality and protect and increase habitat under FY 2007 Task 10.07. Finally, funds were used to purchase color cartridges for the Virginia CZM Program's printer. Having this printer available enables the program to be efficient and self-sufficient in printing of communication and educational materials (keeping materials up to date and printing on an as needed basis), saving resources and money. As of this date, approximately \$2,025 remains in this task. No education/training activities to report.

Final Products	% Completion	Anticipated Completion Date
Magazine	50%	Second issue cancelled
Websites	100%	
Planning for Virginia CZM Partners Workshop	100%	
Exhibits	100%	
Media/Program Info in Publications	100%	

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

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted
Closed	Start: End: Closeout:		
	10/1/2006 12/31/2007 3/31/2008		

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

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	4/30/2008
Closed	Start: End: Closeout:			
	10/1/2006 9/30/2007 3/31/2008			

Task: 5 Dept. of Environmental Quality - Chesapeake Bay Program  
Water Quality Improvement Fund Match

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	4/30/2008
Closed	Start: End: Closeout:			
	10/1/2006 3/31/2008 6/30/2008			

Task: 6 Virginia Marine Resources Commission  
Permit Review and Compliance

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	5/1/2008
Closed	Start: End: Closeout:			
	10/1/2006 9/30/2007 12/31/2007			

Year: 2006

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA06NOS4190241  
for the period from October 1, 2007 - March 31, 2008

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>	Previously Submitted	4/30/2008
Closed	Start: End: Closeout:			
	10/1/2006 9/30/2007 12/31/2007			

Task: 8 Virginia Institute of Marine Science - Center for Coastal Resources Management  
Tidal Wetlands Management Technical Support

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	10/31/2007
Closed	Start: End: Closeout:			
	10/1/2006 9/30/2007 12/31/2007			

Task: 9 Virginia Institute of Marine Science  
2006 Submerged Aquatic Vegetation Distribution and Abundance Survey of Virginia's Chesapeake Bay and its Tributaries and the Seaside

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	4/30/2008
Closed	Start: End: Closeout:			
	10/1/2006 12/31/2007 3/31/2008			

Task: 10.01 Dept. of Environmental Quality - Virginia Coastal Zone Management Program  
Seaside Heritage Program - Year 5. Coordination and Management Plan

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	4/30/2008
Closed	Start: End: Closeout:			
	10/1/2006 3/31/2008 6/30/2008			

Task: 10.02 College of William & Mary - Center for Conservation Biology  
Potential Impact of Common Reed Expansion on Threatened High-marsh Bird Communities on the Seaside Phase III - Red Knot Stopover E

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	4/30/2008
Closed	Start: End: Closeout:			
	10/1/2006 12/31/2007 3/31/2008			

Task: 10.03 Virginia Institute of Marine Science  
Restoration of Seagrasses in Virginia's Seaside Bays - Year 5

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	4/30/2008
Closed	Start: End: Closeout:			
	10/1/2006 12/31/2007 6/30/2008			

Year: 2006

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA06NOS4190241  
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Task: 10.04 Virginia Eastern Shorekeeper				
Virginia Eastern Shorekeeper				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Attached
Closeout	Start:	End:	Closeout:	
	10/1/2006	9/30/2007	9/30/2008	

Task: 10.05 Dept. of Conservation & Recreation - Natural Heritage				
Management and Education to Control Phragmites on the Seaside of Virginia's Eastern Shore				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Previously Submitted 4/30/2008
Closed	Start:	End:	Closeout:	
	10/1/2006	12/31/2007	3/31/2008	

Task: 10.06 Virginia Museum of Natural History				
Avian Habitat Restoration on the Virginia Barrier Islands: Test of a Non-Lethal Approach to Predation Management				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Open	Start:	End:	Closeout:	
	10/2/2006	9/30/2008	12/31/2008	

During the period April - August 2008, Virginia Museum of Natural History personnel and colleagues from Utah State University and the University of Virginia completed two tasks related to avian habitat restoration on the Virginia barrier islands. These tasks will help lay the foundation for eventual implementation of a new form of non-lethal predation management (conditioned food aversion, CFA) to reduce egg predation by mammals, especially raccoons. The first task involved collecting outstanding records of mammal trapping (e.g. data forms, correspondence, and fieldnotes) from collaborators at US Fish and Wildlife Service, The Nature Conservancy, and Virginia Department of Game & Inland Fisheries, and then producing a landscape-level GIS database and maps of predator capture locations on Assawoman, Metompkin, Cedar, Ship Shoal, Myrtle, Smith and Fisherman islands for the period 2003–2007. This provided answers to questions such as "Where on the islands are the predator 'hot spots' located, where has removal trapping been most effective in reducing predator incidence, and where are the apparent migration pathways between islands located?"

The second task involved development of a set of education materials designed to aid managers in identifying areas on islands where a CFA strategy might reasonably be employed and assist managers in the effective implementation of such a strategy. These materials included (1) written guidelines for site selection and site set-up for optimal application of a CFA treatment; (2) written instructions for preparation and deployment of eggs treated with an aversive agent; (3) written instructions for camera operation and artificial colony maintenance; and (4) videos illustrating the actual techniques and methods involved in applying such a treatment.

Final Products	% Completion	Anticipated Completion Date
Database and maps	95%	November 15, 2008
Written educational materials	95%	November 15, 2008
Video educational materials	95%	November 15, 2008

Task: 10.07 Virginia Institute of Marine Science				
Population Assessment of Eastern Oysters ( <i>Crassostrea virginica</i> ) in the Seaside Coastal Bays.				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Previously Submitted 5/1/2008
Closed	Start:	End:	Closeout:	
	1/1/2007	12/31/2007	3/31/2008	

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**Year: 2006**

**Performance Report, Section A, for Cooperative Agreement No. NA06NOS4190241  
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Task: 10.08 The Rector and Visitors of the University of Virginia  
Monthly Seminar Series

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Open	Start:	End:	Closeout:		
	10/1/2006	12/31/2008	3/31/2009		

Since the inception of the seminar series on September 20, 2007, seminars have been held monthly (except on September 18th which coincided with the opening of the Eastern Shore Birding Festival) at the Anheuser-Busch Coastal Research Center (ABCRC). Seminars take place on the third Thursday of each month, and start at 7:00 PM. Admission is free, but seating is limited to the first 50 people. Speakers and topics covered during this period included: Joe Scalf (VCR-TNC) Habitat Restoration for Migratory Songbirds; Dot Field (DCR) Natural Heritage Program in VA; Linda Blum (UVA) Salt Marshes and Sea Level Rise; Jim Wesson (VNRC) Oyster Restoration; Bob Orth (VIMS) Seagrass Restoration. Upcoming seminars are planned to include: Dave Smith (UVA) Hypoxia and Dead Zones in Chesapeake Bay; Enrique Reyes (ECU) Potential Impacts of Climate Change on the Eastern Shore; Aaron Mills (UVA) Stream and Catchment Hydrology; Steven Brantly (VCU) Vegetation Dynamics on VA Barrier Islands; Libby Mojica (W&M) Peregrine Falcon Biology; Mike Erwin (UVA) Impacts of Rising Sea Level on Nesting Shorebirds. The ABCRC also continued to assist CZM projects and partners by supporting meals for focus groups for the Social Marketing Campaign aimed at increasing the use of native plants by landscapers and property owners

The ABCRC office assistant has continued to develop and maintain mailing lists (both postal mail and e-mail) for people interested in receiving information about upcoming seminars. She has also continued to generate fliers that are distributed to the people on the mailing lists and posted in public locations around the area. The local newspapers, radio station, Chamber of Commerce and other civic organizations (i.e. CBES) have continued to help publicize the seminars on a regular basis. Information about the seminar series and a schedule of upcoming events is posted on the ABCRC webpage ([www.abcrc.virginia.edu](http://www.abcrc.virginia.edu)) and can be accessed by visiting the webpage and clicking on the link for the seminar series. Working with local high school science teachers, seminars have been promoted at both Northampton High School and Broadwater Academy, with extra credit being given to students who attend seminars and present a summary of materials learned to their class groups. Attendance at the seminar series has increased to the point where the meeting room has been filled to capacity for the multiple seminars.

Final Products	% Completion	Anticipated Completion Date
Final Report	90%	November 15, 2008

Task: 10.2 Accomack-Northampton Planning District Commission  
Interpretive Signage for Seaside Heritage Access Sites

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Open	Start:	End:	Closeout:		
	10/1/2006	9/30/2008	12/31/2008		

To highlight the Seaside's unique resources and ongoing efforts of the Virginia Seaside Heritage Program (VSHP) partnership to restore, manage and protect these resources, informational and interpretive signage will be strategically placed at sites of new VSHP public access and high traffic- Chincoteague Nature Trail and Park, Wachapreague Harbor, Oyster Harbor, Willis Wharf Observation Platform and the Eastern Shore National Wildlife Refuge. Two panels will be commonly used at the five sites, highlighting the economic and ecological value of the seaside resources. These two panel designs are complete. A third site specific panel is being designed for four of the five sites. Only the common panels will be used at Wachapreague.

The chosen sign production vendor, Pannier, provides signage for the National Park Service. The digital artwork for the two common panels was sent to the vendor and was confirmed to be production ready.

The kiosks will be all new structures except for Wachapreague where A-NPDC and Virginia CZM are working with the Harbor Master to use an existing kiosk funded by a CZM Grant in August 1995. The fiberglass kiosk panels and the custom-designed aluminum kiosk frame will be guaranteed for ten years, and have been used in marine environments. Installation of the kiosks will entail a simple concrete footing for each post. The structure is more streamlined and will be more appealing than a wooden structure.

306A documentation has been collected for all the sites except Chincoteague. A town meeting will be held during the week of October 27th and the needed documentation will be provided to the Virginia CZM and then NOAA shortly thereafter. Due to delays in designing the panels and in securing the 306A documentation, an extension through December was requested to complete production and installation.

Final Products	% Completion	Anticipated Completion Date
Design and Fabrication of Informational/Interpretive Panels	60%	November 28, 2008
Installation of Kiosks	0%	December 31, 2008

Year: 2006

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
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for the period from October 1, 2007 - March 31, 2008

Task: 10.21 Virginia Marine Resources Commission  
Seaside Heritage Program - Oyster Reef Restoration

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	4/30/2008
Closed	Start: End: Closeout:			
	4/1/2007 9/30/2007 3/31/2008			

Task: 11 Dept. of Conservation & Recreation - Natural Heritage  
Eastern Shore Land Acquisition - Bull Tract

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	4/30/2008
Closed	Start: End: Closeout:			
	10/1/2006 12/31/2007 3/31/2008			

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>	Previously Submitted	10/30/2007
Closed	Start: End: Closeout:			
	10/1/2006 9/30/2007 12/31/2007			

Task: 42 Crater Planning District Commission  
Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	5/1/2008
Closed	Start: End: Closeout:			
	10/1/2006 9/30/2007 12/31/2007			

Task: 43 Hampton Roads Planning District Commission  
Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	5/1/2008
Closed	Start: End: Closeout:			
	10/1/2006 9/30/2007 12/31/2007			

Task: 44 Middle Peninsula Planning District Commission  
Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	4/30/2008
Closed	Start: End: Closeout:			
	10/1/2006 9/30/2007 3/31/2008			

Year: 2006

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA06NOS4190241  
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Task: 45 Northern Neck Planning District Commission  
Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	5/1/2008
Closed	Start: End: Closeout:			
	10/1/2006 9/30/2007 3/31/2008			

Task: 46 Northern Virginia Planning District Commission  
Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	4/30/2008
Closed	Start: End: Closeout:			
	10/1/2006 9/30/2007 12/31/2007			

Task: 47 George Washington Regional Commission  
Rappahannock River Basin Commission Staff Support

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	4/30/2008
Closed	Start: End: Closeout:			
	10/1/2006 9/30/2007 3/31/2008			

Task: 48 Richmond Regional Planning District Commission  
Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	5/1/2008
Closed	Start: End: Closeout:			
	10/1/2006 9/30/2007 3/31/2008			

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

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	4/30/2008
Closed	Start: End: Closeout:			
	1/1/2007 12/31/2007 3/31/2008			

Task: 50 Northern Neck Planning District Commission  
NNPDC Green Roof Innovative Stormwater Treatment Demonstration

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Canceled	
Cancelled	Start: End: Closeout:			
	10/1/2006 9/30/2007 12/31/2007			

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**Year: 2006**

**Performance Report, Section A, for Cooperative Agreement No. NA06NOS4190241  
for the period from April 1, 2008 - September 30, 2008**

Task: 81 Dept. of Conservation & Recreation			
Coastal NPS Program Management			
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Open	Start:	End:	Closeout:
	10/1/2007	9/30/2008	12/31/2008

For the grant reporting period, the Virginia Department of Conservation and Recreation Coastal (VDCR) NPS Program Manager continued to implement the VA Coastal NPS Program and build new partnerships. The Program Manager completed the University of Virginia, Institute for Environmental Negotiation, Virginia Natural Resources Leadership Institute (VNRLI) and now is considered a fellow of the program.

The CNP Program Manager participated in, planned or attended various meetings including the Coastal Policy Team, Coastal PDC meetings, Virginia Stream Alliance, the Nonpoint Source Advisory Committee, and Healthy Waters, Chesapeake Bay Program Commonwealth of Virginia Champion. The CNP Program Manager has continued participating in the development of the Healthy Waters and Healthy Lands Initiative. The CNP Program Manager was an invited participant in the NOAA Section 312 evaluation of the Minnesota Lake Superior Coastal Program and was invited to represent VDCR on the Virginia Sea Grant External Advisory Committee.

The CNP Program Manager continued to undertake the development of the Virginia Networked Education for Municipal Officials (NEMO) Program through a coordinated effort between Chesapeake NEMO, Virginia Cooperative Extension and Virginia partners. The VA NEMO program relies upon the VDCR Regional Offices (Regional Managers and Watershed Coordinators), VDCR Division of Chesapeake Bay Local Assistance (DCBLA), planning district commissions, soil and water conservation districts, and watershed groups as the delivery mechanism and other agencies providing local technical assistance.

The CNP Program Manager was requested by the Virginia Department of Environmental Quality and the VDCR Richmond Regional Office to facilitate the dialogue between a local developer and the regulating community regarding a stream impact issue. Also, those offices requested technical assistance in determining the impacts from uncontrolled runoff contributing sediment to the receiving waters. The CNP Program Manager performed a site evaluation based upon geomorphic and biologic conditions and offered suggested solutions and remediation. In addition, the CNP Program Manager worked with local partners to develop grant applications for funding from the National Fish and Wildlife Foundation. Most recently this work has included an application for low impact development implementation, demonstration, and education/certification at the Science Museum of Virginia. This application, if funded, would fit with the soon to be released stormwater rules and serve as a central location of demonstrating and training those to implement the technologies as listed in the BMP manual.

Final Products	% Completion	Anticipated Completion Date
Final Report	90%	9/30/08

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**Year: 2006**

**Performance Report, Section A, for Cooperative Agreement No. NA06NOS4190241  
for the period from April 1, 2008 - September 30, 2008**

Task: 82      Dept. of Conservation & Recreation				
Pilot Virginia Coastal NEMO				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Open	Start:	End:	Closeout:	
	10/1/2006	12/31/2008	12/31/2008	

Virginia Networked Education for Municipal Officials Program (NEMO), a partnership between Chesapeake NEMO and the Commonwealth of Virginia, signed a charter with the National NEMO Program at the University of Connecticut to be officially recognized as a state and regional program. This partnership-based program continues to expand and add new supporters. During the reporting period, the Virginia NEMO Coordinator and the Chesapeake NEMO Coordinator met with the Virginia Department of Forestry to build a role for the agency within the program.

The Virginia NEMO Program provided two presentations to the Mathews County Planning Commission and Comprehensive Plan Subcommittee: Linking Land, Water and Growth and Planning the Direction of your Community. The NEMO Program was requested to facilitate several potential NEMO project scoping sessions to build potential sites for further work. Such sites included the City of Hampton—buffer language development, Richmond County and the members of the Richmond County NFWF Targeted Watershed Grant Project—integration of the Chesapeake Bay Model Phase 5.x data with the upcoming County comprehensive plan revision, and the Northern Virginia Regional Commission—integrating sea level rise into local decisions. The NEMO program worked with three coastal planning district commissions to draft language for their focal areas projects. The Virginia NEMO Program Coordinator attended the Hampton Roads Planning District Commission Locality Stormwater Coordinating Committee meeting to market the NEMO Program.

The NEMO Coordinator represented the Commonwealth in the development of a Social Marketing Workshop that was held in Cumberland, Maryland and served the entire Chesapeake Bay watershed. The presenters included Jack Wilbur- Utah Department of Agriculture, Eric Eckl- Water Words that Work and Theresa Trainor- USEPA. The NEMO Coordinator also planned the Financing Green Initiatives Workshop to be held prior to the Chesapeake Watershed Forum in Shepardstown, West Virginia. The Virginia Department of Conservation and Recreation (DCR) entered into a contractual agreement with the Alliance for the Chesapeake Bay to support the development of the Chesapeake Watershed Network web-based communication tool. The funding supported the specific component to coordinate the communication between those seeking services and those rendering services. This site utilizes Web 2.0 communication tools to correspond effectively through the use of shared documents, forums, blogs, Wikis and email blasts. The contract was for \$5000. The DCR Division of Soil and Water worked with the DCR Public Communications Office to develop a travelling display panel for the VNEMO. This display panel can and will be used at public venues. The remaining funding in this task is intended to support the development of a web site, additional outreach materials, software purchases (ARCGIS, CommunityVIZ), a possible build-out analysis, and to support another locality (if nec).

Final Products	% Completion	Anticipated Completion Date
Final Report	90%	12/31/08

Task: 83      TBD				
Coastal Non-point Source Pollution Competitive Planning District Commission (PDC) grant				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Canceled
Cancelled	Start:	End:	Closeout:	
	10/1/2006	9/30/2007	12/31/2007	

Year: 2006

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Performance Report, Section A, for Cooperative Agreement No. NA06NOS4190241  
for the period from April 1, 2008 - September 30, 2008

Task: 84 Virginia Institute of Marine Science  
Virginia Clean Marina Program Development and Outreach- 2007-2008

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Open	Start:	End:	Closeout:		
	10/1/2007	9/30/2008	12/31/2008		

Expansion of Virginia Clean Marina Program (VCMP):

VIMS staff conducted pre VCM certification site visits to 16 marinas and have certified 8 new clean marinas in this reporting period.

Strategic Plan Implementation:

VIMS staff worked to implement the strategic plan, including items described in this report.

Outreach Materials for Boaters:

VIMS staff shared a booth with the Virginia Department of Health (VDOH) at the Virginia In-Water Boat Expo and Sailfest and distributed clean boater packets. VIMS staff also distributed clean boater brochures to 22 marinas and through the Hampton Roads Sanitation District/ VDOH boater education program. VIMS staff completed work on the clean boater DVD draft and gave a presentation to the Richmond Power Squadron on clean boater program.

Marketing Plan Implementation:

VIMS staff continued to update the clean marina website and continued distribution of the quarterly electronic newsletter. The VCMP shared advertising space in Dozier's Waterway Guide with VDOH and conducted four workshops to introduce marina owners and operators to the VCM program and invited them to pledge. VIMS staff mailed 63 marinas information on the clean marina program and invited them to pledge. The VCMP conducted a clean boater workshop for Hampton Roads Sanitation District interns in partnership with VDOH and partnered with Richmond Power Squadron to distribute clean boater information through the Lodge Creek Yacht Club. The VCMP continued to work with other clean marina program coordinators across the country to plan October workshop hosted in Portsmouth, Virginia.

Final Products	% Completion
Expansion of Marina Program	100%
Implement Strategic Plan	100%
Distribute Outreach Materials for Boaters	100%
Implement Marketing Plan	100%
Final Report	

Task: 85 Dept. of Conservation & Recreation  
Eastern Shore Shellfish Implementation Plan Finalization

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached
Closed	Start:	End:	Closeout:		
	10/1/2007	3/31/2008	12/31/2008		

Task: 91 Dept. of Environmental Quality - Virginia Coastal Zone Management Program  
Section 309 Enhancement Grants

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Canceled
Cancelled	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	12/31/2007		

Task: 91.01 Dept. of Environmental Quality - Virginia Coastal Zone Management Program  
Public Access Data for NPMS

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Canceled
Cancelled	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	12/31/2007		

Year: 2006

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA06NOS4190241  
for the period from October 1, 2007 - March 31, 2008

Task: 91.02 Environmental Law Institute  
Virginia Coastal Zone Management Program Updates

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	4/30/2008
Closed	Start: End: Closeout:			
	9/1/2007 3/31/2008 6/30/2008			

Task: 92 Dept. of Environmental Quality - Virginia Coastal Zone Management Program  
Aquaculture Zones and Best Management Practices

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Canceled
Cancelled	Start: End: Closeout:		
	10/1/2006 9/30/2007 12/31/2007		

Task: 92 Dept. of Environmental Quality - Virginia Coastal Zone Management Program  
Aquaculture Zones and Best Management Practices

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Canceled
Cancelled	Start: End: Closeout:		
	10/1/2006 9/30/2007 12/31/2007		

Task: 92.01 Virginia Institute of Marine Science - Center for Coastal Resources Management  
Shellfish Aquaculture Suitability Model

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	5/1/2008
Closed	Start: End: Closeout:			
	10/1/2006 9/30/2007 12/31/2007			

Task: 92.02 Virginia Institute of Marine Science - Center for Coastal Resources Management  
Identification of management strategies for promoting shellfish aquaculture in Virginia

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	4/30/2008
Closed	Start: End: Closeout:			
	7/1/2007 12/31/2007 3/31/2008			

Task: 92.03 Virginia Institute of Marine Science  
Management Initiatives for Shellfish Aquaculture -Development of an Environmental Code of Practice and Best Management Practices for Vi

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	4/30/2008
Closed	Start: End: Closeout:			
	10/1/2006 12/31/2007 3/31/2008			

Year: 2006

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA06NOS4190241  
for the period from October 1, 2007 - March 31, 2008

Task: 92.04 Virginia Polytechnic Institute & State University

An Economic Analysis of a Proposed Management Plan for the Public Oyster Grounds of the Rappahannock River

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	4/30/2008
Closed	Start: End: Closeout:			
	6/1/2007 9/30/2007 12/31/2007			

Task: 93 Dept. of Environmental Quality - Virginia Coastal Zone Management Program  
Intergovernmental Decision Making

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted
Closed	Start: End: Closeout:		
	10/1/2006 9/30/2007 12/31/2007		

Task: 93.01 Middle Peninsula Planning District Commission  
Middle Peninsula Public Policy Project for Waterside-Landside Use Conflicts

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	10/31/2007
Closed	Start: End: Closeout:			
	10/1/2006 9/30/2007 12/31/2007			

Task: 93.02 Virginia Institute of Marine Science - Center for Coastal Resources Management  
Tidal Flushing Characteristics in Virginia's tidal embayments

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	5/1/2008
Closed	Start: End: Closeout:			
	10/1/2006 9/30/2007 12/31/2007			

Task: 93.03 Dept. of Conservation & Recreation - Natural Heritage  
Virginia Biodiversity Assessment - Part 1

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	10/1/2007 3/31/2008 6/30/2008		

Task: 93.04 Virginia Commonwealth University  
Continuing Coastal GEMS Development and Maintenance

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached
Closed	Start: End: Closeout:		
	6/1/2007 3/31/2008 6/30/2008		

Year: 2006

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA06NOS4190241  
for the period from April 1, 2007 - September 30, 2007

Task: 94 Dept. of Environmental Quality - Virginia Coastal Zone Management Program  
Shoreline Management

Project status: Current approved Final deliverable(s) status: Previously Submitted  
Closed Start: End: Closeout:  
10/1/2006 9/30/2007 12/31/2007

Task: 94.01 Virginia Institute of Marine Science - Chesapeake Bay National Estuarine Research Reserve System  
Support for the Joint VA/MD Living Shoreline Summit

Project status: Current approved Final deliverable(s) status: Previously Submitted 5/4/2007  
Closed Start: End: Closeout:  
10/1/2006 12/31/2006 3/31/2007

Task: 94.02 Virginia Institute of Marine Science - Center for Coastal Resources Management  
Recommendations for Revisions to the Wetlands Guidelines

Project status: Current approved Final deliverable(s) status: Attached  
Closeout Start: End: Closeout:  
10/1/2006 12/31/2007 12/31/2008

During the reporting period VIMS revised the Tidal Wetlands Guidelines final recommendations report based on VMRC comments. The revised report was received by Virginia CZM and VMRC on 8/5/08. VMRC approved the revisions on 10/28/08.

Final Products	% Completion	Anticipated Completion Date
Report Outline	100	
Revised Guidelines	100	7/15/08

Task: 94.03 Virginia Institute of Marine Science  
Management-support synopsis of Virginia dune and beach assessments

Project status: Current approved Final deliverable(s) status: Previously Submitted 5/1/2008  
Closed Start: End: Closeout:  
10/1/2006 9/30/2007 3/31/2008

Task: 94.04 Virginia Institute of Marine Science  
Site Survey and Water Quality Assessment for Better Sill Design

Project status: Current approved Final deliverable(s) status: Previously Submitted 4/30/2008  
Closed Start: End: Closeout:  
10/1/2006 9/30/2007 3/31/2008

Year: 2006

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA06NOS4190241  
for the period from April 1, 2008 - September 30, 2008

Task: 94.05 Dept. of Environmental Quality - Virginia Coastal Zone Management Program  
Living Shoreline Landowner Guide

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Open	Start:	End:	Closeout:		
	10/1/2006	12/31/2008	3/31/2009		

Production of the Living Shoreline Landowner Guide was delayed, due in part to a year-long vacancy in the Virginia CZM grants coordinator position. The project has been extended to 12/31/08 and Virginia CZM staff are attempting to complete the project. The guide is intended to address the following topics:

- Background / Problem Statement
- The Concept of Living Shorelines w/ Examples
- Advantages and Disadvantages of Living Shorelines vs. Traditional Structural Methods
- Shoreline Stabilization Methods: Non-structural Options, Hybrid Options, and Structural Options
- Step-by-Step Guide for Property Owners
- Q & A
- Glossary of Terms
- References

Final Products	% Completion	Anticipated Completion Date
Living Shoreline Landowner Guide	30%	December 31, 2008

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>	Previously Submitted 10/31/2007
Closed	Start:	End:	Closeout:		
	10/1/2006	9/30/2007	12/31/2007		

Task: 95.01 Dept. of Environmental Quality - Water Quality Assessment  
Mercury Monitoring in Dragon Run/Piankatank River Airshed

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Previously Submitted 4/30/2008
Closed	Start:	End:	Closeout:		
	1/1/2007	12/31/2007	3/31/2008		