

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2007

**Performance Report, Section A, for Cooperative Agreement No. NA07NOS4190178
for the period from October 1, 2008 - March 31, 2009**

Task: 1 Dept. of Environmental Quality - Virginia Coastal Zone Management Program				
Coastal Program Management				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Previously Submitted 10/30/2008
Closeout	Start:	End:	Closeout:	
	10/1/2007	3/31/2009	6/30/2009	

Task 1 is complete. Progress reports previously submitted constituted final products. However about \$45k remains due to the Grants Coordinator position having been vacant for most of grant period. We will submit a request to reprogram these funds to Task 11 E. Shore Land Acquisition. Along with 306A approval for Task 11, we will request approval for this reprogramming of funds and submit a revised Form 424A as we will be moving funds from the personnel, fringe and indirect categories into the contractual category.

Task: 1.01 Virginia Institute of Marine Science - Chesapeake Bay National Estuarine Research Reserve System				
Coastal Program Management Support				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Previously Submitted 10/30/2008
Closed	Start:	End:	Closeout:	
	10/1/2007	9/30/2008	12/31/2008	

Task: 1.02 Virginia Commonwealth University				
Coastal GIS Support				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Attached 4/30/2009
Closeout	Start:	End:	Closeout:	
	10/1/2007	9/30/2008	12/31/2008	

Task: 1.03 Dept. of Environmental Quality - Virginia Coastal Zone Management Program				
Outreach and Publications				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:	
	10/1/2007	12/31/2009	3/31/2010	

During this reporting period, FY07 funds were spent on the following:

Postage and distribution of the Summer/Fall 2008 Virginia Coastal Zone Management magazine.

Due in part to use of funds remaining in FY 06 Task 2 to reprint the magazine, \$17,601 remain in this task. An extension has been approved through December 31, 2009 to apply these funds towards Plant ES Natives Campaign material (FY 07 Task 10.07), including printing of educational and acknowledgement signage at the site of native plant demonstration landscapes, and printing and distribution of the Accomack and Northampton Native Plants Guide and native plant posters (for use in the garden centers, nurseries and during campaign exhibits).

Final Products	% Completion	Anticipated Completion Date
Virginia Coastal Zone Management Magazine	50%	
2007 Virginia Coastal Zone Partners Workshop	100%	
Website	100%	
Exhibits	100%	
Plant ES Natives Campaign Demo signage	0%	December 31, 2009
Accomack and Northampton Native Plants Guide	0%	December 31, 2009
Plant ES Natives Campaign Educational Posters	0%	December 31, 2009

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Task: 1.04 Environmental Law Institute				
Assessment for Off-shore Energy Development Impact Readiness:Implementation Evaluation; Air Program and Dunes Protection Routine Pr				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Attached 4/30/2009
Closeout	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. 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 – parts of these interviews addressed potential “implementation issues and changes.” On October 7, the Environmental Law Institute provided a draft final review report including policy analysis and detailed set of recommendations. On November 5, ELI met with Virginia’s Coastal Policy Team to present results and obtain further guidance; and a further meeting was held on November 21 which prioritized the actions needed and developed an action agenda. ELI staff provided technical support and information for this meeting, which was based on ELI’s draft report, subsequently finalized December 22.

The Environmental Law Institute’s research staff conducted review of Virginia’s air pollution law changes since approval of the Virginia Coastal Program in 1986. ELI staff also reviewed and evaluated Virginia’s air pollution control regulations. ELI prepared a matrix indicating the connection between Virginia law and regulations changes and the requirements of the federal Clean Air Act, to support incorporation of the current versions of the law and regulations into the Virginia Coastal Program. ELI finalized the draft notice, and submitted it to the Virginia Coastal Program.

The Environmental Law Institute's research staff reviewed the amendments to Virginia’s coastal dunes protection legislation and reviewed the relationship of the amendments to the existing approved Dunes protection provisions in the Virginia Coastal Program. ELI prepared the draft routine program change for these provisions. Following the Nov. 5 meeting with Coastal Policy Team, ELI further revised the final draft routine program change to take into account the fact that prior changes had not yet been submitted in final form to NOAA, and accommodating NOAA’s suggestions on the prior changes. ELI submitted the final document and supporting materials to the Virginia Coastal Program.

The Environmental Law Institute’s research conducted research and interviews and developed a detailed briefing paper for Virginia on the pros and cons of becoming a “cooperating agency” for NEPA purposes in connection with proposed Outer Continental Shelf oil and gas lease sale #220 off the coast of Virginia. The briefing paper was delivered on December 11.

Task: 2 TBD				
Quick Response Grants				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Period Open
Proposed	Start:	End:	Closeout:	
	10/1/2007	12/31/2008	3/31/2009	

\$4,176 remains in this task. The CZM Program has received several requests including one from the James River Association to assist with a televised PSA video competition called "The James & Me" that they are doing in conjunction with Fox News. We have also received a request for a post-construction living shoreline monitoring project at Hull Springs Farm. Longwood University already conducted extensive pre-construction monitoring and is looking for \$6,000 for post-construction monitoring. A project will be submitted within the next quarter for the final SAC release on this task.

Task: 2.01 Back Bay Restoration Foundation				
Back Bay Restoration Foundation "State of the Bay" Conference				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Previously Submitted 10/30/2008
Closed	Start:	End:	Closeout:	
	1/1/2008	6/30/2008	9/30/2008	

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Task: 2.02 Eastern Shore Soil and Water Conservation District
Model Native Plant Landscape Design for the Eastern Shore's Onley Medical Center

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached	4/30/2009
Closeout	Start: End: Closeout:			
	10/15/2008 12/31/2008 3/31/2009			

This project concluded on December 31, 2008. Please see final products attached.

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

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

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

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	In Mailed Attachments	4/30/2009
Closeout	Start: End: Closeout:			
	10/1/2007 9/30/2008 12/31/2008			

Task: 5 Dept. of Environmental Quality - Chesapeake Bay Program
WQIF Match - Arlington County Treatment Plant Upgrades

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Previously Submitted	4/30/2008
Closed	Start: End: Closeout:			
	10/1/2007 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>	In Mailed Attachments	4/30/2009
Closeout	Start: End: Closeout:			
	10/1/2007 9/30/2008 12/31/2008			

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

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	In Mailed Attachments	4/30/2009
Closeout	Start: End: Closeout:			
	10/1/2007 9/30/2008 12/31/2008			

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Performance Report, Section A, for Cooperative Agreement No. NA07NOS4190178
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Task: 8 Virginia Institute of Marine Science
Tidal Wetlands Management Technical Support

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached and in Mailed Attachments	4/30/2009
Closeout	Start:	End:	Closeout:			
	10/1/2007	9/30/2008	12/31/2008			

Task: 9 Virginia Institute of Marine Science
2007 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	4/30/2009
Closeout	Start:	End:	Closeout:			
	10/1/2007	12/31/2008	3/31/2009			

Final Project Summary with links to VIMS SAV site and Coastal GEMS constitute final product.

Task: 10.01 Virginia Institute of Marine Science
Restoration of Seagrasses in Virginia's Seaside Bays - Year 6

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached	4/30/2009
Closeout	Start:	End:	Closeout:			
	10/1/2007	3/31/2009	6/30/2009			

COLLECT WATER QUALITY WITH DATAFLOW IN AREAS WITH EXISTING EELGRASS AND ADJACENT UNVEGETATED AREAS – water quality collection for year 6 started in April 2008 and went through November 2008. This included the deployment of a continuously recording sensor at South Bay.

LARGE SCALE SEAGRASS RESTORATION – Seeds were collected in spring 2008 from South Bay eelgrass beds, for large scale restoration in the fall of 2008 in Hog Island Bay. VIMS broadcast 600,000 seeds into six one-acre plots in Hog Island Bay and 200,000 seeds into four ½ acre plots in Spider Crab Bay.

MAPPING OF SEAGRASS FROM AERIAL PHOTOGRAPHS – 2008 photography was obtained for the coastal bays and was mapped in the VIMS GIS system. A second set of photographs was collected in November 2008.

Final Products	% Completion
Final Report	100%

Task: 10.02 Virginia Institute of Marine Science
Population Assessment of Eastern Oysters (*Crassostrea virginica*) in the Seaside Coastal Bays

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	In Mailed Attachments	4/30/2009
Closeout	Start:	End:	Closeout:			
	1/1/2008	12/31/2008	3/31/2009			

Task: 10.03 Dept. of Conservation & Recreation - Natural Heritage
Phragmites Education and Management

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Attached	4/30/2009
Closeout	Start:	End:	Closeout:			
	10/1/2007	12/31/2008	3/31/2009			

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Task: 10.04 Virginia Eastern Shorekeeper
Shorekeeper

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:		
	10/1/2007	9/30/2008	6/30/2009		

This project ended September 30, 2008. An extended close-out period has been granted. Final products are due to VA CZM by May 15, 2009 and the project will be closed out on June 30, 2009.

Task: 10.05 College of William & Mary - Center for Conservation Biology
Virginia Colonial Waterbird Survey (2008)

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:		
	3/1/2008	3/31/2009	6/30/2009		

Surveys of breeding areas of colonial waterbirds of the Chesapeake Bay were completed by air, boat, and foot during the 2008 breeding season. Transfer of CCB data to permanent data sheets is complete, and all sheets were collected from cooperators. Raw data was digitized and attributes entered. Final decisions on populations are being made, and once complete, the final edit of the digital atlas will be made.

Final Products	% Completion	Anticipated Completion Date
Digital atlas	80%	June 15, 2009

Task: 10.06 Eastern Shore Community College
Establishment of Ecotour Guide Certification Curriculum

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:		
	3/1/2008	6/30/2009	9/30/2009		

During this past six-month reporting period, ESCC completed work on the curriculum and teaching aides for the Eco-Tourism Certification class and began marketing classes that will be offered in May 2009. A waiting list of about a dozen interested businesses and individuals has been compiled as a result of calls to the College based on this advertising.

In addition to this, the College has begun negotiations with Northampton County to use its former Northampton Middle School in Machipongo as a southern instructional site. This site offers a more convenient location for the Eco-Tourism classes due to its proximity to many of the businesses who have expressed interest in the program.

Final Products	% Completion	Anticipated Completion Date
Basic Eco-Tour Guide Certification Course: PwrPnt; Exams; Notes	100%	
Report on Expanded Structure of Ecotour Guide Certification Curriculum	85%	5/31/09
Project Summary for Virginia CZM Website	75%	5/31/09

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**Performance Report, Section A, for Cooperative Agreement No. NA07NOS4190178
for the period from October 1, 2008 - March 31, 2009**

Task: 10.07 Dept. of Environmental Quality - Virginia Coastal Zone Management Program			
Plant Eastern Shore Natives Social Marketing Campaign			
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:
	7/1/2008	12/31/2009	3/31/2010

Virginia CZM staff worked with the campaign planning team to analyze the qualitative and quantitative data gathered between August and December 2008, including a behavioral thematic analysis meeting with the team at the end of October 2008. During this meeting, the team also considered the broader goals of the campaign and, based on the findings, set more specific measurable goals to help evaluate the effectiveness of the campaign. The team also considered what positive, "take action" messages would resonate with our audience and lead to a change in behavior based on the qualitative findings and drafted questions for the written survey to gather the quantitative data needed. The qualitative findings also were presented to focus group participants at the end of October to validate the findings prior to finalizing the written survey, which in turn served as a validation of the qualitative findings. The written survey was distributed to the broader Shore community in the November 19 Eastern Shore News (11,500) in conjunction with publication of a Shore Outdoors educational insert focused on native plants. Just over 300 surveys were returned in December and the responses were incorporated into a final data analysis. The research identified: 1) barriers that have inhibited planting of natives; 2) benefits landowners perceived they would get if they increased their use of natives; and 3) what multi-media approach would be most effective in reaching an Eastern Shore audience. The major barriers discovered were a misperception that native plants are scraggly, weedy and unattractive; a lack of understanding about which species are native to the Shore; and a lack of availability of natives at local garden centers due to limited demand.

Based on this research, the planning team met in January 2009 and decided on the campaign's message, imagery and name. The "Plant ES Natives" campaign focuses on the beauty of natives - the slogan is "They're Shore Beautiful!" - and on the habitat value of natives (the hugely significant role the Shore plays as a rest stop to migratory birds each spring and fall). A campaign logo and multi-media materials were designed and produced. The Spring '09 phase of the "Plant ES Natives" campaign runs from April 1 through June 30, 2009. The campaign was officially launched on April 24, 2009 in Willis Wharf at the site of the Wildlife Observation Deck (FY 2005 Task 9.2). The event was well received by just over 60 attendees. Local elected and non-elected officials and members of the media were in attendance along with representatives of the campaign partnership, including garden centers and nurseries, and the general public.

One way campaign success will be measured is through recruitment of new partners. If smaller garden centers and larger landowners contact the campaign to sign on, that will be an indicator of success. Campaign surveys continue to be received well after the December raffle prize drawing deadline, which also indicates a measure of success already.

Because Dr. Barbara Board facilitated the focus groups as a partner in the campaign and did not charge for her services, there are funds remaining in this grant. This task has been extended through December 31, 2009 to spend the remaining \$5,901 on a fall 2009 phase of the campaign, including radio ads and a mid-campaign survey to gage the effectiveness of the campaign (to be conducted after the spring and fall 09 planting seasons). With these results any needed adjustments to the campaign's approach can be made to ensure its continued success.

Final Products	% Completion	Anticipated Completion Date
Summary of Qualitative Research: Focus Groups & Interviews	100%	
Summary of Quantitative Research: Written Survey	100%	
Final Eastern Shore of Virginia Native Plant Social Marketing Campaign Design	100%	
Fall Phase Campaign Multi-media	0%	November 30, 2009
Mid-Campaign Survey	0%	December 31, 2009

Task: 10.08 Virginia Marine Resources Commission			
Oyster Restoration			
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:
	10/1/2007	9/30/2008	6/30/2009

The close-out period for this task has been extended. Final products are now due on May 15, 2009 and the project will be closed out by June 30, 2009.

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Year: 2007

**Performance Report, Section A, for Cooperative Agreement No. NA07NOS4190178
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Task: 11 The Nature Conservancy
Eastern Shore Land Acquisition

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Pending
Proposed	Start: End: Closeout:		
	10/1/2007 12/31/2009 3/31/2010		

The Southern Tip partners met on October 14, 2008 and again on January 13, 2009. It was agreed that the Eastern Shore Land Trust would become a signatory to the formal Southern Tip Partnership agreement originally signed in 2006. This local land trust has been a wonderful source of match for CZM and CELCP grants because they often co-hold easements with a public entity, the local Soil & Water Conservation District. At the January 13 meeting the FY 07 and FY 08 CZM Section 306A available funds were discussed and it was agreed among the partners that the 26 acre in-holding at Kiptopeke State Park would be an excellent fit for these funds along with the \$200,000 in proceeds from the May 2008 James Taylor benefit concert held in Virginia Beach. 306A documentation for this parcel will be submitted through Grantsonline as soon as the title opinion is received. All other 306A documentation is ready. The CZM grant will be awarded to The Nature Conservancy with a contractual requirement that the property be donated to the Department of Conservation and Recreation within a specified time and the appropriate CZM/NOAA grant acknowledgement and conditions regarding future disposition of the property be recorded on the final deed to be held by DCR. This will allow for a fairly quick closing process.

Final Products	% Completion	Anticipated Completion Date
306A Documentation	85	May 20, 2009
Final Report with photos of site with appropriate acknowledgement signage and copy of recorded deed showing TNC ownership and requirement to donate to DCR.	15	November 15, 2009

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

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Attached	4/30/2009
Closeout	Start: End: Closeout:			
	10/1/2007 9/30/2008 12/31/2008			

Task: 42 Crater Planning District Commission
Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	In Mailed Attachments	4/30/2009
Closeout	Start: End: Closeout:			
	10/1/2007 9/30/2008 12/31/2008			

Task: 43 Hampton Roads Planning District Commission
Technical Assistance Program

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	In Mailed Attachments	4/30/2009
Closeout	Start: End: Closeout:			
	10/1/2007 9/30/2008 12/31/2008			

Year: 2007

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
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Task: 44 Middle Peninsula Planning District Commission
Technical Assistance Program

Project status: Current approved Final deliverable(s) status: Attached 4/30/2009
Closeout Start: End: Closeout:
10/1/2007 9/30/2008 12/31/2008

Task: 45 Northern Neck Planning District Commission
Technical Assistance Program

Project status: Current approved Final deliverable(s) status: In Mailed Attachments 4/30/2009
Closeout Start: End: Closeout:
10/1/2007 9/30/2008 12/31/2008

Task: 46 Northern Virginia Regional Commission
Technical Assistance Program

Project status: Current approved Final deliverable(s) status: Attached 4/30/2009
Closeout Start: End: Closeout:
10/1/2007 9/30/2008 12/31/2008

Task: 47 George Washington Regional Commission
Technical Assistance Program

Project status: Current approved Final deliverable(s) status: Attached and in Mailed Attachments ~~4/30/2008~~
Closeout Start: End: Closeout:
10/1/2007 9/30/2008 12/31/2008

Task: 48 Richmond Regional Planning District Commission
Technical Assistance Program

Project status: Current approved Final deliverable(s) status: Attached 4/30/2009
Closeout Start: End: Closeout:
10/1/2007 9/30/2008 12/31/2008

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Year: 2007

**Performance Report, Section A, for Cooperative Agreement No. NA07NOS4190178
for the period from October 1, 2008 - March 31, 2009**

Task: 49 Virginia Beach/Virginia Aquarium and Marine Science Center				
Marine Mammal & Sea Turtle Stranding Response				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> In Mailed Attachments 4/30/2009
Closeout	Start:	End:	Closeout:	
	1/1/2008	12/31/2008	3/31/2009	

This grant officially started on January 1, 2008 and ended on December 31, 2008. During the period from October through December 2008, the Virginia Aquarium Stranding Response Program (VAQS) recorded 60 strandings in Virginia. There were 51 strandings during the same period in 2007.

The VAQS Stranding Team responded to 11 marine mammal strandings in Virginia during this reporting period and all were cetaceans. Of the Strandings, seven (64%) were located in Virginia Beach and Norfolk, three (27%) on Virginia's Eastern Shore, and the remaining animal along the western shores of Chesapeake Bay. The cetacean species included nine bottlenose dolphins (*Tursiops truncatus*) and two common dolphins (*Delphinus delphis*).

The VAQS Stranding Team and our cooperators responded to 49 sea turtle strandings during this reporting period, compared with 44 strandings during this same period in 2007. Sea turtle strandings included 25 loggerhead (*Caretta caretta*), 19 Kemp's ridley (*Lepidochelys kempii*), and five green (*Chelonia mydas*). There were two live loggerhead strandings during this period. The two loggerheads and one green remained in rehab at the end 2008.

The VAQS Staff attended six professional meetings and made two formal presentations during this reporting period. There were many educational and/or training presentations by Stranding Team members to groups in the Hampton Roads area. Grant funded VAQS staff worked more than 480 hours and Stranding Team volunteers contributed more than 8,000 hours to the stranding response program during this reporting period. A detailed list of all trainings, presentations and publications is included in the final report.

Final Products	% Completion	Anticipated Completion Date
VA Sea Turtle & Marine Mammal Stranding Response & Reporting	100 %	
Personnel Training Activities	100 %	
Public Education Activities	100 %	

Task: 91.01 Virginia Institute of Marine Science				
Program Implementation: Coordinator Position				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Previously Submitted 10/30/2008
Closed	Start:	End:	Closeout:	
	10/1/2007	9/30/2008	12/31/2008	

Task: 91.02 Environmental Law Institute				
Assessment for Off-shore Energy Development Impact Readiness:Identifying Potential Impacts				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Attached 4/30/2009
Closeout	Start:	End:	Closeout:	
	4/1/2008	12/31/2008	3/31/2009	

The Environmental Law Institute's research staff conducted interviews and reviewed environmental impact statements, technical literature, and other materials to identify the likely impacts of offshore energy development. Environmental Law Institute staff met on July 11 with Virginia's Coastal Management team, and participated in an interagency meeting on August 18 in Richmond to examine a proposed wind energy proposal. 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 7, the Environmental Law Institute provided a draft final review report including evaluation of potential impacts (along with policy analysis prepared pursuant to a separate grant). On November 5 and 21 ELI staff met with the Virginia Coastal Policy Team to explain results and examine responses to impacts. On December 22, ELI submitted a final report.

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Task: 92.01 Virginia Institute of Marine Science - Center for Coastal Resources Management Assessment of Aquaculture Potential within Baylor				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Attached & In Mail 4/30/2009
Closeout	Start:	End:	Closeout:	
	10/1/2007	9/30/2008	12/31/2008	

Task: 92.02 Virginia Polytechnic Institute & State University Economic Implications of Promoting the Aquaculture Industry in Virginia: Alternative Management Strategies				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Attached 4/30/2009
Closeout	Start:	End:	Closeout:	
	10/1/2007	9/30/2008	12/31/2008	

Task: 92.03 Virginia Institute of Marine Science Development of an Environmental Code of Practice and Best Management Practices for Virginia - Year 2				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Attached 4/30/2009
Closeout	Start:	End:	Closeout:	
	10/1/2007	9/30/2008	12/31/2008	

Task: 93.01 Middle Peninsula Planning District Commission York River Use Conflicts- Issue Framing and Policy Need Identification (Phase 3)				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> In Mailed Attachments 4/30/2009
Closeout	Start:	End:	Closeout:	
	10/1/2007	3/31/2009	6/30/2009	

Product #1 Report on issues and conflicts affecting local government's ability to maximize their waterfront and policy recommendations The York River Use Conflict Committee has completed the final report and offers seven recommendations for consideration by the Gloucester County Board of Supervisors. Use conflict management will become more complex as Gloucester County transitions from a rural to a more suburban community. Using political will, courage, and consistency Gloucester County can successfully manage this transition. The York River Use Conflict Committee ("Use Conflict Committee") recommends that the Gloucester Board of Supervisors demonstrate leadership and enact seven recommendations.

Recommendation 1 –Develop and adopt a Coastal Living Policy to educate and inform County residents. Recommendation 2 –Denote the County's Land, Air and Water territorial boundaries in the County's Comprehensive Plan and supporting maps. Recommendation 3 –Take no action for now regarding aquaculture within the County's jurisdiction. Recommendation 4 –Develop and adopt a policy for the protection of working waterfronts. Recommendation 5 –Develop and adopt a Waterfront Outdoor Lighting Ordinance. Recommendation 6 –Develop and adopt a policy restricting floating homes within the County. Recommendation 7 –Develop and implement a master plan for public access infrastructure to ensure safe and equal water access for all user groups to the waterways within the County.

Product #2 Presentation to Gloucester County Board of Supervisors
PDC staff presented the report and recommendations to the Gloucester Board of Supervisors on Tuesday, Feb 17, 2009 Mr. Woodard moved, seconded by Mr. Allen, that the seven recommendations be adopted. The motion was approved by the following vote: Mr. Allen, yes; Ms. Altemus, yes; Mr. Crewe, yes; Mr. Rilee, yes; Ms. Theberge, yes; Mr. Woodard, yes; Mrs. Ressler, yes.

Final Products	% Completion	Anticipated Completion Date
Product #1 Report on issues and conflicts affecting local government's ability to maximize their waterfront and policy recommendations	100	8/08
Product #2 Presentation to Gloucester County Board of Supervisors	100	2/09

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2007

**Performance Report, Section A, for Cooperative Agreement No. NA07NOS4190178
for the period from April 1, 2008 - September 30, 2008**

Task: 93.02 Virginia Commonwealth University Coastal GEMS Enhancements				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Attached 4/30/2009
Closeout	Start:	End:	Closeout:	
	4/1/2008	9/30/2008	12/31/2008	

Task: 93.03 Dept. of Conservation & Recreation - Natural Heritage Virginia Biodiversity Assessment - Part 2				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Attached 4/30/2009
Closeout	Start:	End:	Closeout:	
	4/1/2008	3/31/2009	3/31/2009	

VNHP staff manipulated the natural land network of the Virginia Natural Landscape Assessment for use in the VBA. The network layer is a 30-meter grid containing all ecological cores with very high to outstanding integrity, all landscape corridors, and all corridor nodes. The ecological integrity values of cores and nodes were reassigned such that outstanding cores had a value of 5 and the lowest ranked cores and nodes had a value of 1. Landscape corridors were assigned to the lowest value and the background was converted to a value of zero.

VNHP staff compiled a 30-meter grid of conservation sites with values representing biodiversity significance rankings. The b-rank values were assigned such that the numbers 5 and 1 represented the highest and lowest classes, respectively. A Euclidean distance operation was performed to add three cells to the outside of each feature so that narrow aquatic features would not drop out during the analysis. A maximum operation was performed to combine the information in these five grids while ensuring the maximum value from overlapping cells would be assigned to the corresponding cell in the resulting grid. The background values of this grid were converted to zero.

VDGIF staff provided a summary grid, with a cell size of 100 meters, of predicted essential habitats for species in tiers I and II, plus listed species from tiers III and IV. The summary layer was created by multiplying the tier II plus listed species layer by 0.5, adding it to the tier I layer, and then classifying the results into five classes, with class 5 being the highest. VNHP staff reprojected this grid to Virginia Lambert and converted the background values to zero in preparation for the VBA analysis.

VNHP staff combined the above products into a single layer, while making certain the highest value at any location showed through in the resulting grid. The analysis was conducted at the resolution of the Wildlife Action Plan summary grid, thus the resulting grid had 100-meter cells. A series of 5 smoothing operations using a majority filter was performed on the interim product to remove isolated cells and to further distort the boundaries of known sensitive species habitats. The grid was converted to a polygonal layer with biodiversity significance ranks from moderate to high. Full FGDC metadata were completed for the shapefile product. VNHP also completed the final report and GEMS factsheet during this period.

Final Products	% Completion
VBA shapefile	100%
VBA final report	100%
VBA fact sheet for GEMS	100%

Task: 93.04 TBD TBD				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Pending
	Start:	End:	Closeout:	

\$12,950 remains in this task. Within the next few weeks a scope of work for this task (Priority Estuarine Conservation Areas Part 1) will be submitted through Grantsonline to release the current SAC on this task. A second scope of work for FY 2008 Task 11.03 Priority Estuarine Conservation Areas Part 2 for \$40,752 will be submitted for SAC release at the same time.

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2007

**Performance Report, Section A, for Cooperative Agreement No. NA07NOS4190178
for the period from October 1, 2008 - March 31, 2009**

Task: 94.01 Virginia Institute of Marine Science				
Shoreline Management: Better Sill Design 2				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> In Mailed Attachments 4/30/2009
Closeout	Start:	End:	Closeout:	
	10/1/2007	12/31/2008	3/31/2009	

In order to determine the encroachment of rock sills on subaqueous areas and the overall performance, three sites were examined. They were selected for review because of the availability of pre-construction data, design data, and the length of structures. They represent sill installations in low, (fetch <1 miles), medium (1-5 miles) and high energy (>5 miles) environments. The sites are St. Mary's, Jefferson Patterson Park & Museum (JPPM), and Webster Field Annex, respectively. St. Mary's was surveyed in 2007 and JPPM and Webster Field in 2008. These projects were constructed in 2002, 1999, and 2003, respectively. After experiencing different but direct effects of Hurricane Isabel and Tropical Storm Ernesto, the sills at each site performed as expected with minimal bank scarping and no bank failure. This suggests that this method of sill design should be a reasonable standard to begin the design process. To minimize encroachment, systems should be designed to the needed level of protection elevation and then be graded on an average slope to the back of the sill.

During the reporting period the final report for the project "Encroachment of Sills onto State-owned Bottom: Design Guidelines for Chesapeake Bay" was completed. The report addresses products 1 - 4 in the scope of work for this project.

Final Products	% Completion
Literature Search	100%
Site Surveys	100%
Hydrodynamic Analysis	100%
Development of Guidelines	100%

Task: 94.02 Virginia Institute of Marine Science				
Recommendations for Revision of the Dunes/ Beaches Guidelines				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:	End:	Closeout:	
	10/1/2007	9/30/2009	12/31/2009	

A change in the final deliverables was agreed upon during this reporting period. The final report(s) will be submitted as 1) draft proposed recommendations to the Coastal Primary Dune/Beaches Guidelines, and 2) a special report publication on the proposed changes to be distributed to the CCRM mailing list comprised of Wetlands board members and staff, regulatory personnel, policy-makers, and shoreline contractors.

A workshop was held on Beaches and Dunes in February 2009. Content covered the changes to the implementing legislation, the history of Beach and Dune management in Virginia, ecosystem services, preferred management approaches and some case studies. There were 113 attendees and feedback on the workshop was positive.

An additional product will be added to this grant in the form of a brochure for waterfront property owners. The brochure will provide an overview of living shorelines and their benefits and direct readers to the VIMS living shoreline website. Significant upgrades to the website are planned if funded through an FY '09 Virginia CZM grant proposal.

Final Products	% Completion	Anticipated Completion Date
Proposed guidance recommendations, Special report	75%	September 30, 2009

Task: 94.03 Virginia Institute of Marine Science				
Shoreline Situation Reports for Tidewater Localities				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> In Mailed Attachments 4/30/2009
Closeout	Start:	End:	Closeout:	
	10/1/2007	9/30/2008	12/31/2008	

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2007

**Performance Report, Section A, for Cooperative Agreement No. NA07NOS4190178
for the period from April 1, 2008 - September 30, 2008**

Task: 95 Middle Peninsula Planning District Commission Dragon Run SAMP				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> In Mailed Attachments 4/30/2009
Closeout	Start:	End:	Closeout:	
	10/1/2007	9/30/2008	12/31/2008	

Task: 96.01 TBD Seaside SAMP: Identification of Potential New Enforceable Policies				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Project Pending
Proposed	Start:	End:	Closeout:	
	10/1/2007	9/30/2009	12/31/2009	

\$22,548 remains unspent in this task which has been extended through September 2009. The Seaside SAMP project has not yet been contracted. However, The Nature Conservancy held a workshop February 11-12 in Virginia Beach that pulled scientific experts (most members of the Seaside Heritage Program) together to determine potential impacts of climate change on the Seaside of the Eastern Shore. A follow-up conference is to be held in June to determine possible policy options to better prepare the seaside for climate change. These results will be very helpful in shaping the next steps for a Seaside SAMP. In addition, we need to complete the Priority Estuarine Conservation Areas assessment incorporating all Seaside Heritage Program data layers to be conducted by VIMS on the Seaside. It may be necessary to use some of the \$75k available in FY 07 Seaside SAMP funds to accomplish that. Hopefully a scope of work for this task will be created and submitted to NOAA for approval by early summer.

Task: 96.02 Accomack-Northampton Planning District Commission Seaside SAMP: Community Forum on Buildout Analysis Using Community Viz				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Attached 4/30/2009
Closeout	Start:	End:	Closeout:	
	4/15/2008	9/30/2008	12/31/2008	

Task: 96.03 Accomack County Accomack County Seaside Water Quality Protection Act Project				
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u> Attached 4/30/2009
Closeout	Start:	End:	Closeout:	
	10/1/2008	12/31/2008	3/31/2009	