

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2013

**Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015**

Task: 1	Dept. of Environmental Quality - Virginia Coastal Zone Management Program	Current Federal Total: \$292,519.00						
Coastal Program Management								
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Project Period Open						
Open	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Start:</td> <td style="width: 33%;">End:</td> <td style="width: 33%;">Closeout:</td> </tr> <tr> <td>10/1/2013</td> <td>3/31/2015</td> <td>6/30/2015</td> </tr> </table>	Start:	End:	Closeout:	10/1/2013	3/31/2015	6/30/2015	
Start:	End:	Closeout:						
10/1/2013	3/31/2015	6/30/2015						

Policy Products: A Coastal Policy Team meeting was held on September 30, 2014. Meeting notes will be posted at <http://www.deq.virginia.gov/Programs/CoastalZoneManagement/DescriptionBoundary/VirginiaCoastalPolicyTeam.aspx>. The CZM Manager participated in a sea turtle conservation plan workshop June 17-18 and was able to provide input to the plan to connect efforts to ocean planning and the VA CZM's Program's marine debris reduction efforts. She also convened Seaside SAMP members and negotiated designation of 4 additional SAV set-aside areas totaling 1768 acres on the Seaside for consideration by the Marine Resources Commission. The Coastal Planner assisted in planning, coordination and facilitation of the quarterly PDC meeting held on June 12, 2014 where PDC partners were updated on topics of concern such as the Community Rating System, results of Section 309 Water Quality projects and general programmatic information. She also participated in the Native Plant Marketing Partnership semiannual meeting on September 16, 2014 where she provided insight to small group discussion on strategies for use of native plants in local government landscaping contracts and provided background on CZM native plant project efforts to date.

RPCs and Amendments: CZM staff developed a briefing paper for the DEQ Director on state-listed T & E species in the federal consistency review process and presented it at the 9/30/14 CPT meeting. Other RPC issues discussed at the meeting included local ordinances as enforceable policies, the need to develop or revise several RPC packages with identified enforceable policies, and potential contracting issues for future RPC package development.

FY 2014 CZM Grant Application: The FY 2014 Draft application was submitted to NOAA on May 21, 2014, and the FY 2014 Final application was submitted to NOAA on June 6, 2014 via the CAMMP, Grants Online, and Grants.gov systems. Five PDC projects totalling \$140,000 have been selected for funding through a competitive process. The topics to be addressed are 1 coastal resiliency, 1 native plants, 1 public access planning and 2 306A public access enhancement projects.

FY 2014 CELCP Grant Application: No appropriation for CELCP was made for this fiscal year. The CZM Coastal Planner is working with PDC partners on other land conservation efforts, specifically in the Middle Peninsula region, in the absence of available CELCP funds.

Grants Management & Reporting: A Section A, Semiannual Progress Report, a Section B Agency Report, and a Section C Success Stories Report was compiled and submitted to NOAA on April 30, 2014 for the reporting period of Oct. 1, 2013-Mar. 31, 2014. Semiannual Progress reports from grantees and information for the Section B and Section C reports was gathered by CZM staff for the reporting period of April 1, 2014-Sept. 30, 2014. The CZM Manager and Coastal Planner monitored grant activities through phone calls and site visits. The Grants Coordinator and CZM Manager processed extension and budget amendment requests, 306 A documentation approvals, SAC removals, and reprogrammed funds using the Grants Online system. The Coastal Planner assisted planning and participated in the Phase I NVRC conservation landscaping workshop in Falls Church on July 16, 2014 where participants learned about Falls Church, Fairfax, and Arlington County incentive programs, residential BMPs for storm water, selecting the right plants and landscape design. Participants also took part in a site design planning exercise.

Performance Measures: In September, CZM staff solicited information from the necessary sources to assist in completing the Oct. 1, 2013 – Sept. 30, 2014 Performance Measures report.

Mid-Atlantic Regional Council on the Ocean Documents: The CZM Manager participated in weekly MARCO Management Board calls and Board meetings in April and August and helped design and conduct a meeting of scientists in September to assess the state of knowledge regarding submarine canyons. Efforts are described in MARCO newsletters available at: <http://midatlanticocean.org/category/news-and-events/>. She also participated in monthly Regional Planning Body calls and public meetings the results of which are posted at: <http://www.boem.gov/Environmental-Stewardship/Mid-Atlantic-Regional-Planning-Body/index.aspx>. She continued to serve as lead for MARCO's Ocean Mapping & Data Team and held a quarterly conference call on Aug 12. Meeting notes are available. She represented MARCO at a meeting of tug and barge operators in September to collect data on their spatial needs. She served on the RPB's Ocean Action Plan Workgroup participating and weekly calls and was a major author of the ocean action plans document which is also available on the RPB website and was released to the public in October 2014. The CZM Manager was asked to prepare a \$200k grant application to BOEM and VA Dept. of Mines, Minerals & Energy for a project to conduct collaborative fisheries planning in and around VA's offshore wind energy area. The grant was awarded in October.

Section 312 Evaluation Materials: A 312 evaluation for 2015 has been scheduled for Virginia CZM. In preparation CZM staff has collected background information and some sections of the initial report have been written. Data collected will be submitted by November 15, 2014.

Outreach Materials: The CZM Program Manager, Coastal Planner and Grants Coord./Outreach Specialist planned story ideas, wrote articles, gathered photos and developed layout ideas for publication of the CZM Magazine. The Birding Festival poster, CZM ad for the Birding Festival program, Birding Festival schedules and exhibit for the Festival were developed and student artwork prizes were developed and framed by the CZM Program Manager and Outreach Specialist and presented by the CZM Manager at the festival's opening reception.

Final Products	% Completion	Anticipated Completion Date
Policy Products	100	
RPCs and Amendments	100	
Grant Management & Reporting	100	
FY 2014 CZM Grant Application	100	

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FY 2014 CELCP Grant Application	n/a
Performance Measures	100
Mid-Atlantic Regional Council on the Ocean Documents	100
Outreach Materials	100
Section 312 Evaluation Materials	100

Task: 1.01	Virginia Institute of Marine Science - Chesapeake Bay National Estuarine Research R	Current Federal Total:	\$106,015.00
Coastal Management Support			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Progress Reports Constitute Final Product
Closed	Start: 10/1/2013	End: 9/30/2014	Closeout: 12/31/2014

Progress on all tasks, except MARCO and other climate change adaptation-related issues as described below, is reported under Task 1.

Mid-Atlantic Regional Council on the Ocean – Climate Change Action Team (MARCO-CCAT): The Coastal Planner worked with other MARCO state representatives to set and achieve the goals of the MARCO-CCAT. Through monthly calls and a CCAT meeting on May 19, 2014 in Wilmington, DE, the group identified coastal climate change impacts in the Mid-Atlantic region and recommended priorities for engagement of state coastal programs. CCAT efforts were facilitated and assisted by staff from NOAA and Rutgers University. The group also entered into a partnership with the North Atlantic Landscape Conservation Cooperative through a \$340,000 sole-source grant from the U.S. Fish and Wildlife Service. MARCO-CCAT members identified a number of initial priorities for this project, and will be refining the scope of work during a meeting in November, 2014.

Policy Products – Climate Change Adaptation: The Coastal Planner reviewed and commented on a number of climate adaptation products during the reporting period, including participating in development of the report of the Recurrent Flooding Sub-Panel of Virginia’s Secure Commonwealth Panel. The Coastal Planner also provided information on Virginia CZM Program climate adaptation efforts for reports by the Virginia Institute of Marine Science – Center for Coastal Resource Management and the Coastal Policy Clinic at the William and Mary Law School, and to the Director of the Department of Environmental Quality. This information is being used in deliberations of the Governor’s Commission on Climate Change and the Virginia General Assembly’s Recurrent Flooding Joint Subcommittee. The Planner also participated, as a team member, in development and testing of the “Climate Change Vulnerability Assessment Tool for Coastal Habitats” along with staff from VIMS-CBNERRS and NERRS staff from other states.

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Task: 1.02	Virginia Commonwealth University	Current Federal Total: \$89,815.00						
Coastal Management GIS Support and Coastal GEMS Maintenance								
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report						
Closed	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Start:</td> <td style="width: 33%;">End:</td> <td style="width: 33%;">Closeout:</td> </tr> <tr> <td>10/1/2013</td> <td>9/30/2014</td> <td>12/31/2014</td> </tr> </table>	Start:	End:	Closeout:	10/1/2013	9/30/2014	12/31/2014	
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VCU CES GIS staff:

-Performed Coastal Gems maintenance including installing software/security updates and refreshing map services as necessary. From April 1, 2014 to September 30, 2014, Coastal GEMS received 737 visits from 401 unique visitors with an average site visit time of 2 minutes and 23 seconds. Layers updated during the grant period include: anadromous fish use, conservation lands, public access lands, public access sites, private oyster leases, scenic rivers, oyster gardening, and important bird areas. Layers and map services added during the grant period include: the ES Coastal Change Archive and sea level rise, with layers in 1 ft increments from MHHW through 6 feet of projected sea level rise. www.coastalgems.org

The Coastal GIS Coordinator:

- Obtained data updates for current Coastal GEMS layers from data providers, processed data for display on GEMS, and updated Coastal GEMS factsheets and website as necessary.
- Obtained sea level rise data from NOAA Office for Coastal Management's Sea Level Rise and Coastal Flooding Impacts Viewer so that it could be incorporated into Coastal GEMS and considered in conjunction with other data hosted on GEMS. Processed data to allow fast, simple display on the Coastal GEMS application. Provided VCU CES GIS staff with symbolized ArcGIS map package to create new sea level rise map service available through Coastal GEMS. Created fact sheet incorporating information and links about the data, sea level rise in general, its specific impacts in Virginia, and the additional features and functions of the Sea Level Rise and Coastal Flooding Impacts Viewer available through Digital Coast.
- Worked with ANPDC staff on Coastal Change Archive project including helping design and run participatory GIS sessions with long term residents of the Eastern Shore to map climate change witnessed over their lifetimes, processed data to create final geodatabase, and symbolized for inclusion under Coastal GEMS 'Coastal Land' category.
- Presented on VA CZM's experience utilizing participatory GIS to map recreational uses of the ocean to over 60 participants on a NOAA Office for Coastal Management Ocean Uses webinar on May 1, 2014.
- Organized a call and subsequent webinar with VMRC regulatory staff, VIMS scientists, and local planners, successfully utilizing participatory GIS to design and digitize new proposed SAV set-aside areas on the Seaside of the Eastern Shore.
- Assisted VA CZM Program Manager with preparatory work for forthcoming BOEM/DMME funded grant to VA CZM to study and make recommendations on collaborative fisheries planning for Virginia's offshore wind energy area.
- Performed additional GIS services and produced maps as requested by VA CZM staff and partners including DHR archive searches and project area maps as required for 306A SHPO clearance for two VA CZM funded projects; set up GIS data input process for the VA CZM Ocean Planning Stakeholder Engagement Coordinator facilitating creation of recreational use spatial data from geotagged aerial photos of Virginia Beach consistent to data created for the Eastern Shore of Virginia portion of the project; created location maps for use in VA CZM magazine articles highlighting CZM funded public access projects; and worked with VA CZM Outreach Coordinator to create aerial imagery panels and a route map to the Cape Charles Natural Area Preserve for an interpretive signage kiosk in Cape Charles, VA.

Final Products	% Completion	Anticipated Completion Date
Coastal GEMS Application Maintenance	100%	
Coastal GEMS Data Management	100%	
Coastal GIS Coordination	100%	
Coastal GEMS Training and Outreach	100%	
GIS Map Products and Services	100%	

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Task: 1.03	Dept. of Environmental Quality - Virginia Coastal Zone Management Program			Current Federal Total:	\$93,516.00
Virginia CZM Program Outreach & Publications					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:	End:	Closeout:		
	10/1/2013	3/31/2015	6/30/2015		

In an ongoing effort to coordinate and collaborate with state, federal and other partners on communication, marketing and education efforts, the Outreach Coordinator engaged in the following activities over this reporting period:

- Contributed to the NOAA 312 questionnaire being prepared for the program's upcoming evaluation, completing an overview of the program's outreach efforts over the last 6 years.
- Coordinated production of, and designed, the Fall 2014 issue of Virginia Coastal Zone Management magazine - <http://www.deq.virginia.gov/programs/coastalzonemanagement/reportspublications/vaczmmagazine.aspx>
- Maintained the Virginia CZM website including adding new content such as a "Virginia CZM in the News" feature.
- Continued to coordinate and chair the Virginia Native Plants Marketing Partnership (VNPMP), including working with members to draft a 3-5 Year Action Plan for the partnership and to conduct a facilitated workshop for the partners to review the draft plan's goals and strategies and determine next steps in finalizing the plan. Collaborated with partners to focus on building a rapport with the business community to increase the availability of Virginia native plants, including a presentation and exhibit at the Virginia Nursery and Landscape Association's Annual Field Day, and development and distribution of a market survey to native plant growers, suppliers and specifiers. Feedback from the businesses serving on the VNPMP Steering Team has been very instructive and positive – recently a VNLA board rep highlighted all the positives she has seen resulting from the Partnership.
- Continued to provide guidance on implementation of the Plant NNK Natives campaign, including assistance in planning and participation in a public event at the historic Stratford Hall property in October (a presentation by an historical reactor portraying the 18th century naturalist John Clayton at this event and at an event on the Eastern Shore was supported through funds remaining in FY12 Task 1.03). Stratford Hall was so pleased with the event that they would like to make it an annual one. The Hall will be installing a native plant demo and ultimately a native plant trail through the grounds in cooperation with Plant NNK Natives partners.
- Continued to serve on the planning team for the Plant NoVA Natives campaign. Designed the new regional native plant guide – "Native Plants for Northern Virginia" - https://docs.google.com/a/henricostudents.org/file/d/0B25LXUJQvd_6YIBhd1ByTzY2ZW8/edit. A regional native plant campaign in the Charlottesville/Albermarle area – Piedmont Natives – has asked to use the regional native plant guides as templates to produce a guide for their region.
- Continued to coordinate implementation of the Plant ES Natives campaign, including a new component of the campaign – the Shore Big Trees program. In July, a book author presented on the value of native plants to pollinators. A three-day celebration in September included: a book author presentation on the value of native trees, and a public event and "Shore Big Tree" dedication in Wachapreague attended by Virginia Delegate Rob Bloxom. A marker, designed and printed through this grant, was placed in Wachapreague as well as in Accomac during the celebration. "John Clayton" (mention above) also made an appearance at this event. The celebration also included 2 presentations to 4th graders at Accomack and Northampton county schools (by former Virginia Tech professor and author of "Remarkable Trees of Virginia"). Use of new technology to support the campaign included use of digital signage, operated by a local citizen group, to advertize the fall 2014 events. Media coverage included an article in the Eastern Shore News on the new "Shore Big Trees" program.
- Continued to participate on the CSO Communications Workgroup to implement a communications strategy for CSO in collaboration with NOAA. As a direct result of conversations with Felton Communications staff, also serving on the workgroup, an article will appear in an upcoming APA publication on the Program's successes in land acquisition and conservation, particularly its work on prioritizing land for protection (Coastal VEVA) and support for and work with regional governments (Public Access Authorities).
- Assigned to Chesapeake Bay Program's Stewardship Goal Implementation Team (GIT) in September.

Funds remain in this task, and an extension of this grant has been requested through march 2015. Monies may be spent on publications developed through the Virginia marine Debris Reduction Plan.

Final Products	% Completion	Anticipated Completion Date
Multi-Media Outreach Strategies	100%	
Printed Media	50%	3/31/15
Events and Training	100%	
Electronic Media	100%	

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Task: 2	Back Bay Restoration Foundation	Current Federal Total:	\$2,500.00
Virginia Beach Watersheds Forum			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closed	Start: End: Closeout:		
	10/1/2013 9/30/2014 12/31/2014		

With funding and support from the Virginia Coastal Zone Management Program and NOAA, Back Bay Restoration Foundation (BBRF) and Lynnhaven River NOW (LRNow) co-hosted the 2014 Virginia Beach Watersheds Forum on March 13, 2014, for 114 attendees comprised of BBRF members, LRNow members, Master Naturalists, students, home/land owners, Virginia Beach City officials and staff, and representatives from state and federal agencies. The Forum agenda began with a panel presentation "How Our Schools are Teaching Sustainability" with Tim Cole (Virginia Beach City Public Schools Sustainability Officer), Melani Loney (Middle School Science Coordinator), Deedra Dills (Parent and PTA Member), and Brent Horner (Landstown High School Teacher). The Forum agenda then had two break-out sessions, each included information to benefit Virginia Beach Watersheds as a whole as well as watershed specific information. The first break-out session talks included: "Back Bay Fisheries Update" (Chad Boyce, VDGIF), "Compost Blankets for Erosion and Run-Off Control" (Chip Hall, N.O.P.E. VA), and "Virginia Beach Wildlife and Fishing Line Recycling Program" (Barbara Gipson, VBSPCA). The second break-out sessions talks included: "What Happens to Our Trash and Recycling?" (Linda Minner, V.B. Waste Management), "Diamondback Terrapin Research: Learn More About this Fascinating and Beautiful Terrapin that Lives in Our Wetlands" (Diane Tulipani, VIMS), and "How Can You Help Green Your Faith Community?" (Karen Forget and Pam Northam, LRNow, Penny Moulis, Eastern Shore Chapel, and Rev. James Christian, Bayside Christian Church). The VB Watersheds Forum concluded with a panel titled "Sea Level Rise: What Do You Think We Should Be Doing?" with Whitney McNamara (City of VB, Environment and Sustainability Office), Skip Stiles (Wetlands Watch), Mark Swingle (Homeowner and Marine Biologist), Laura Habr (Small Business Owner, Resort Area Advisory Commission), and Steve Lawson (Tidewater Builders Association).

Pertinent displays featuring area conservation/environmental non-profits including Master Naturalists, Back Bay National Wildlife Refuge, Sierra Club, and others were available to attendees throughout the day. Forum agendas and forms acknowledged VA CZMP support. Presentations from presenters are available on the BBRF website (<http://www.bbrf.org>). The BBRF website was down for 45 days in the spring delaying BBRF's ability to put the presentations on the website. The website was completely reconstructed during this time and presentations are currently available on the site. CDs containing PowerPoint presentations of all presentations were provided upon request.

BBRF and LRNow staff and volunteers used the feedback form, discussion results and other thoughtful feedback to identify issues and format suggestions that will be used to improve future Forums. LRNow staff compiled the forms BBRF and LRNow staff meet in April, June, and September to plan for future forums. LRNow staff compiled the results of the surveys in April. BBRF staff analyzed the results in June and will send the results with the deliverables in the final report.

Final Products	% Completion	Anticipated Completion Date
Deliverables: Forum agenda and nametags	100%	3/13/2014
Deliverables: Forum presentations on CD and available on website	100%	5/15/2014
Deliverables: Action plan and survey review	80%	11/15/2014

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Task: 3	Dept. of Environmental Quality - Environmental Impact Review	Current Federal Total: \$219,135.00
EIR and Federal Consistency		
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Open	Start: End: Closeout:	
	10/1/2013 12/31/2014 3/31/2015	

During the second half of FY 2013, the Office of Environmental Impact Review/Federal Consistency (OEIR) reviewed 113 development projects and management plans for consistency with the Virginia Coastal Zone Management Program (VCZM). This represents 85.6% of the total amount of projects reviewed (132) during this period. Major state projects accounted for 16 projects, 65 were federal actions, and 32 were federally funded projects (predominantly local government projects). The 65 federal projects included 32 federal agency activities, 15 federal licenses and approvals, and 18 projects submitted under the residual category pursuant to the federal consistency regulation (15 CFR 930.31(c)) which consisted of 14 U. S. Department of Housing and Urban Development (HUD) mortgage insurance projects and 4 financial assistance from USDA Rural Development to private entities. All federal consistency determinations and federal consistency certifications were completed within the established legal deadlines.

A representative from the Office of Environmental Impact Review (OEIR) attended a public meeting held on September 25, 2014 in Franklin, Virginia hosted by Dominion pertaining to the proposed Atlantic Coast Pipeline project. Four major U.S. energy companies (Dominion, Duke Energy, Piedmont Natural Gas and AGL Resources) formed a joint venture to build and own the proposed Atlantic Coast Pipeline. The partnership, called Atlantic Coast Pipeline LLC, will own the pipeline initially proposed by Dominion as the Southeast Reliability Project. The \$4.5 billion to \$5 billion, 550-mile natural gas pipeline would run from Harrison County, W. Va., southeast through Virginia with an extension to Chesapeake, Va., and then south through central North Carolina to Robeson County. The Franklin meeting was one of a series of meetings held throughout North Carolina and Virginia during September. The Atlantic Coast Pipeline will impact Virginia's Coastal Zone in Suffolk and Chesapeake cities.

The OEIR continues to provide informal training on federal consistency requirements to consultants who prepare consistency documents for federal agencies and applicants for federal permits, and maintains a website for Federal Consistency Reviews which can be accessed through DEQ's main webpage or found at <http://www.deq.virginia.gov/Programs/EnvironmentalImpactReview.aspx>. The OEIR webpage is updated weekly.

This project has been extended to allow for continued work by the part-time employee, Charles Ellis, to continue through upcoming staff transitions.

Final Products	% Completion	Anticipated Completion Date
Federal consistency determinations and certifications responses	85%	Feb 15 2015
Consistency outreach effort (one-on-one consultations with agencies)	85%	Feb 15 2015

Task: 4	Dept. of Environmental Quality	Current Federal Total: \$0.00
Water Quality Improvement Fund (WQIF) Match- City of Richmond Wastewater Treatment Plant Nutrient Removal Upgrade		
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closed	Start: End: Closeout:	
	10/1/2013 9/30/2014 12/31/2014	

Construction of the City of Richmond's wastewater treatment plant upgrade with enhanced nutrient removal technology continues. Construction began in December 2008 and is scheduled for completion by July, 2015. To-date, \$44,672,877 of the \$50,131,031 grant has been paid to the City.

In the period since October 2013, reimbursements totaling \$10,448,560 have been made to the City for this project, which exceeds the \$853,038 in State General Funds needed to provide a match for the Coastal Zone Management Program.

Final Products	% Completion	Anticipated Completion Date
Construction Project Report	91%	November 15, 2014

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Task: 5	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> Submit w/next Semiannual Report						
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During the reporting period, VMRC received a total of 1002 joint permit applications. Actions were completed on 955 projects, some of which were received prior to the reporting period. During the reporting period, 180 compliance inspections were conducted for previously issued permits. Also, 98 compliance inspections for the random sample of 130 projects permitted by local wetland boards were completed.

During the reporting period, local wetland boards throughout Tidewater Virginia acted on 191 projects involving tidal wetlands. Of this total, 141 were approved as proposed, 38 were approved as modified, 5 were denied, 3 are pending, 3 were inactivated, 1 no permit was required, and 41 required compensation either on or off site (18), or through payment of an in lieu fee (23) accounting for 9,851 square feet of tidal wetland impacts.

Final Products	% Completion	Anticipated Completion Date
Collect permit Compliance data for projects permitted by VMRC	Ongoing	
Collect permit Compliance for wetland projects permitted in 2012	100 %	September 2014
Compile data for entry into database	100%	September 2014

Task: 6	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> Submit w/next Semiannual Report						
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- The Locality Liaison held training sessions in April and June of 2014 for two land trusts, two state agencies, one federal agency, and one consultant. In addition, a webinar session sponsored by VDOT was held in June where 18 participants from PDCs and VDOT planning staff were trained. Also, instruction on the Natural Heritage Data Explorer was given to twelve Virginia Master Naturalists at their annual meeting in September. The presentations included an overview of DCR's Natural Heritage Program, the Locality Assistance Program, the Virginia Conservation Vision, Landscape, the Wetlands Catalog, Virginia Ecological Value Assessment and hands-on training on the Upgraded Natural Heritage Data Explorer (NHDE), which now includes the Species and Community Database Search, and the Land Conservation Data Explorer.

- For 4/01/14 through 9/30/14, 428 projects were reviewed for impacts to natural heritage resources in the coastal zone (44% of the projects reviewed statewide). 179 projects were submitted through the Natural Heritage Data Explorer website representing 42% of the coastal projects submitted for review.

- As Virginia moves towards more renewable sources of energy, projects related to solar and wind have come in for review. One such renewable energy project was a request for review of a proposed solar project for potential impacts to natural heritage resources. DCR noted the potential for Awmed mountain-mint, Pine-barrens peanut grass and other powerline rare plants within the project area as well as Bronze copper potential habitat. DCR recommended inventories for these resources if habitat exists on the sites chosen. DCR also noted the location of the proposed sites within the Coastal Aviation Protection Zone 5, as defined in the solar permit by rule, recommending avian studies regarding actual or likely occurrences of these resources.

- The James River National Wildlife Refuge Comprehensive Conservation Plan is being updated. DCR reviewed the draft plan and recommended inventories for the Barking tree frog, Rare skipper and rare crustaceans in the study area and Sensitive joint-vetch and Parker's pipewort in the tidal areas. DCR also recommended the development and implementation of an invasive species management plan for the refuge.

- 86% of the localities, 100% of the Planning District Commissions and 66% of the Land Trusts in the coastal zone have Natural Heritage data. The website map (http://www.dcr.virginia.gov/natural_heritage/localitiesmap.shtml) displaying localities with natural heritage data has been updated reflecting the current status.

Final Products	% Completion	Anticipated Completion Date
Project Review	100%	September 30, 2014
Locality Assistance Program Presentations	100%	September 30, 2014
Improvements to Natural Heritage Tools	100%	September 30, 2014
Final Report	100%	November 15, 2014

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Task: 7	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> Submit w/next Semiannual Report	
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Product #1, General Technical Guidance:

Tidal wetland or beach/dune jurisdictional determinations = 6
 Living Shoreline advice = 14
 JPA review & comments = 11
 Other advisory requests = 47
 Total = 78

Product #2, Outreach Education:

4/03/14 – Charles City, York, Suffolk, Northampton, & Poquoson – CCRMP Launch – 11 people
 4/17/14 – Fairfax LWB – Shoreline BMP’s – 10 people
 4/17/14 – Prince William Staff – CCRMP Orientation – 6 people
 5/01/14 – Northern Neck Master Naturalists – Coastal Management & Policy – 15 people
 5/22/14 – Tidal Wetlands Workshop – Living Shorelines in VA: Current Practices, Research & Policy – 149 people
 5/31/14 – Tidewater Oyster Growers Association – Living Shorelines Workshop – 50 people
 6/09/14 – Prince William Wetlands Board – CCRMP Orientation – 6 people
 7/23/14 – Hampton Master Gardeners – Shoreline Landscapes – 45 people
 Shoreline Best Management Practices Online Course – 5 certificates of completion http://ccrm.vims.edu/education/shoreline_BMP/index.html
 CCRM e-News April 2014 (Workshop Deadline, New Guidance for Wetlands Boards)
 CCRM e-News May 2014 (American Wetlands Month, Living Shorelines Webinar)
 CCRM e-News Sept 2014 (R&C, CCRMP’s, Marine Debris – Terrapin Research)
 Rivers & Coast, Vol. 9 - No 2 Living Shoreline Implementation: Challenges and Solutions
<http://ccrm.vims.edu/publications/pubs/rivers&coast/RC914.pdf>

Product #3, Public Permit Records Website Report:

Website Activity/Hits = Apr – 22, May – 26, Jun – 33, Jul – 42, Aug – 34, Sep – 58
 The Center for Coastal Resources Management continues to post Joint Permit Applications with VRMC assigned numbers in a searchable database on our website. To view the original shoreline permit applications, as well as the associated VIMS report, additional information, photos, and public hearing information please see:
<http://ccrm.vims.edu/perms/newpermits.html>

Final Products	% Completion	Anticipated Completion Date
Product #1	100	September 30, 2014
Product #2	100	September 30, 2014
Product #3	100	September 30, 2014

Task: 8	Virginia Institute of Marine Science	Current Federal Total:	\$60,000.00
2013 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> Submit w/next Semiannual Report	
Open	Start: End: Closeout:		
	10/1/2013 12/31/2014 3/31/2015		

VIMS submitted the baywide 2013 SAV numbers on April 1. The 2013 SAV data can now be viewed at:
<http://web.vims.edu/bio/sav/sav13/index.html> and also on the interactive map: <http://web.vims.edu/bio/sav/maps.html>.

A draft report of the 2013 SAV monitoring was submitted to VA CZM on Sept. 22. VIMS is awaiting comments for the draft. Ground data from numerous surveyors are being completed now. The final report is under assembly and will be completed on time.

Final Products	% Completion	Anticipated Completion Date
Draft Final Report	50%	July, 2014
Final Report	0%	Dec., 2014

Year: 2013

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015

Task: 9	Dept. of Conservation & Recreation - Natural Heritage	Current Federal Total: \$27,000.00						
Healthy Waters Initiative and VNEMO Program in Coastal Zone								
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report						
Closed	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Start:</td> <td style="width: 33%;">End:</td> <td style="width: 33%;">Closeout:</td> </tr> <tr> <td>10/1/2013</td> <td>9/30/2014</td> <td>12/31/2014</td> </tr> </table>	Start:	End:	Closeout:	10/1/2013	9/30/2014	12/31/2014	
Start:	End:	Closeout:						
10/1/2013	9/30/2014	12/31/2014						

For the grant reporting period, the Environmental Scientist/Analyst with the Virginia Commonwealth University Center for Environmental Studies in the Department of Life Sciences continued to serve as the Program Manager of the Virginia Healthy Waters Program.

During the reporting period significant effort was placed to advance the VA Healthy Waters Program. Programmatically, the assessment of program resources and needs has continued to determine gaps and areas of improvement. Data integration and geographic expansion were two of top focal areas of the analysis with immediate attention addressed to integrate existing INSTAR data into the NHD data explorer and the creation of new Ecological Occurrences (EOs) and Stream Conservation Units (SCUs). Challenges to administering the Program are the resource and staffing needs to conduct field assessments. The DNH supported the Healthy Waters Program by contributing two field biologists for the purpose of being trained in the INSTAR data collection and field identification process. This improved capacity permits the collection of data by additional field personnel aside from specific grant related activities. The collection of data will be in the raw form still requiring the development of models to interpret such information to make relevant to the Program as a whole. The development of an INSTAR model is typically done on a basin scale to provide for comparable results within a defined area. The collection of raw data will permit an additional cataloging of resources to further inform the development of an INSTAR model when resources are present for the specific region or basin. This increased capacity in the program is a critical advancement in the program within the Division of Natural Heritage. the Program Manager oversaw the re-sampling CBIG funded project to conduct sampling in Coastal plain streams in the Commonwealth of data older than ten years. These sites, initially supported with VA CZM funding, included the two above mentioned Natural Heritage personnel. The Program Manager oversaw the scheduling, training and collected photo documentation of resources resampled as part of this effort. These sites, given the date of initial acquisition, were likely to have significantly changed over time. This analysis was conducted to determine if and how streams have maintained their designation as Healthy. Streams were sampled in Fairfax County, Richmond County, Goochland and Prince William Counties. An analysis and integration of the data will be completed in the upcoming months with a discussion on the possible changes in their designation. These data will be included in the Natural Heritage Data Explorer and update if their status changes.

The Healthy Waters Program Manager continued to oversee the development of the Chowan Basin study. While outside the Coastal Zone and funded through EPA 319 Region 3, this project has created a draft A-I Criteria for watershed protection based on an aquatic community analysis as opposed to a water quality based approach. The Criteria for watershed protection, being referred to as, the Criteria for Ecologically Healthy Watershed Conservation is under review with the VA DEQ Waters Division. However, significant progress was made between the Natural Heritage Division and the VA DEQ Waters Division to reach a consensus on the language. The Criteria will be vetted with EPA Region 3 and EPA HQ in the upcoming months. Once approved, this new criteria will be used as a National model for watershed protection and applied statewide, to include the coastal zone.

Through funding from EPA 319, and yet relevant to the CZMA due to programmatic applicability and the core of significant negotiations and discussions with the VA DEQ Waters Division, the Program Manager oversaw the initiation of revisions to the means by which watersheds and waterbodies are identified as Healthy and how the Program communicates outward. The Watershed Integrity Layer, used and developed by the Natural Heritage Division and VCU, began a revision process to update and streamline the process for identification. Discussions included utilizing the latest data available due to programmatic updates to the Healthy Waters Program. Additionally, the development of a statewide Healthy Watersheds discussion and process was initiated, Additionally, language to revise the identification of Healthy Catchments was initiated. Healthy Catchments are those subwatersheds that drain to a Healthy Waters INSTAR site. Only where the Healthy Waters Program has an identified INSTAR site will this designation be utilized. During this discussion, the language by which the Healthy Waters Program identifies the highest ranking water bodies was changed from Exceptional to Outstanding so as not to conflict with any regulatory language associated with water quality. This language is also consistent with the Natural Heritage Division ranking of highest quality. Also during the reporting period, the Healthy Waters Program Manager worked toward the updating of the Healthy Waters Web page in both content and location. The Healthy Waters Program Web was located under the Soil and Water Division page and was moved to the Natural Heritage Division site. The site is still under construction and revision. Additionally, revisions and updates to the INSTAR web were initiated including discussions about the need for a more stable platform due to changing Web browsers. This process to maintain the INSTAR site has proved to be a challenge for both staff and resources, as in most web pages.

Final Products	% Completion	Anticipated Completion Date
Healthy Waters Initiative and VNEMO Program Final Report	90	Nov 15, 2014

Year: 2013

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015

Task: 10	Dept. of Conservation & Recreation			Current Federal Total:	\$0.00
Acquisition of Dune Woodlands Adjacent to Pickett's Harbor NAP					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Funds Transferred Out of Task
Proposed	Start:	End:	Closeout:		
	5/1/2014	12/31/2014	3/31/2015		

This task is for Acquisition of Dune Woodlands Adjacent to Pickett's Harbor NAP. However funds are transferred to a Task 10.01 and 10.02 to reflect partial acquisition of Lots 1 and 2. 306A documentation is in preparation as details of the land agreement continue to be negotiated with the landowners.

Task: 10.01	Dept. of Conservation & Recreation			Current Federal Total:	\$28,500.00
A Beautiful Woods - the Fee Purchase of 1.1 acres of dune woodlands to expand the Pickett's Harbor Natural Area Preserve, Northampton					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:	End:	Closeout:		
	10/1/2014	3/31/2015	6/30/2015		

Funds are being transferred from FY 13, Task 10 to this task for partial acquisition of a lot adjacent to Pickett's Harbor Natural Area Preserve. 306A documentation is being prepared.

Task: 10.02	Dept. of Conservation & Recreation			Current Federal Total:	\$107,500.00
A Beautiful Woods - the Fee Purchase of 1.1 acres of dune woodlands to expand the Pickett's Harbor Natural Area Preserve, Northampton					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:	End:	Closeout:		
	10/1/2014	3/31/2015	6/30/2015		

Funds are being transferred from FY 13, Task 10 to this task for partial acquisition of a lot adjacent to Pickett's Harbor Natural Area Preserve. 306A documentation is being prepared.

Year: 2013

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015

Task: 11	Virginia Institute of Marine Science	Current Federal Total: \$161,000.00
Seaside Restoration		
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Project Period Open
Open	Start: End: Closeout: 4/1/2014 3/31/2015 6/30/2015	

Eelgrass Restoration: Eelgrass flowering shoots were collected in late May from both Mobjack and South bay beds, manually and mechanically, and placed in holding tanks at VIMS and Oyster. Seeds were subsequently removed and placed in our holding tanks at VIMS under appropriate salinity and temperatures. Our initial seed counts yielded 7.97 and 1.74 million seeds from Mobjack and South bays, respectively. Seeds were broadcast in September into 40 one acre plots in Spider Crab and South bays at a seed density of 150,000 seeds per acre for a total of 6 million seeds. Faunal samples were collected in South Bay in June, while fishes were sampled in May, July, August and September.

Water Quality Monitoring: Dataflow cruises for integrated measure of shallow water quality were recorded every 50 meters of the cruise track (e.g. salinity, temperature, turbidity, etc) and were successfully completed on April 4, May 5, June 17, July 16, August 14 and September 15, 2014 for the South Bay, Cobb Bay, Spider Crab Bay and Hog Island Bay restoration areas. The continuous water quality monitoring stations in South Bay and Spider Crab Bay continued to operate for the entire April 1, 2014, through September 30, 2014 period, taking similar measurements to the dataflow cruises, but taken every 15 min. Real time data can be observed at <https://stormcentral.waterlog.com/public/vims>.

Scallop Restoration: During this period, VIMS staff maintained 50,000 scallops produced in 2013 in cages in South Bay; these animals spawned during the spring and again in September in the grassbed. Through the summer the over 700,000 scallops produced during the spring of 2014 grew to exceed the capacity of the cage system in the South Bay grassbed. On Aug. 28 the 200,000 largest of these animals were split into 40 bags and the remaining surviving scallops were released directly into the grassbed, where they will continue to grow throughout the fall and are expected to spawn in spring 2015. During July 2014, an extensive survey of 1275 acres within the South Bay grassbed was conducted using divers and suction sampling. This survey yielded an estimate of 521,000 juvenile scallops and 113,000 free-living adult scallops within this region of the grassbed.

Final Products	% Completion	Anticipated Completion Date
Draft Final Report	0	July, 2015
Final Report	0	Nov., 2015

Year: 2013

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015

Task: 41	Accomack-Northampton Planning District Commission			Current Federal Total:	\$32,617.00
A-NPDC Technical Assistance Program					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closed	Start:	End:	Closeout:		
	10/1/2013	9/30/2014	12/31/2014		

Climate Adaptation Working Group

A-NPDC has held 2 CAWG meetings, and sponsored a living shoreline workshop for landowners with afternoon hands-on installation project that received good regional press coverage.

Coastal Management Trainings

A-NPDC has successfully directed 3 events that reached 41 people and involved 4 stakeholder groups. Trainings have included educational activities regarding sea level rise and ground water and a coordination event for the development of the Shore Big Trees program which will promote planting of native deciduous hardwoods in the region.

Technical Assistance

A-NPDC coordinated a GIS Users Group to provide training, information, and a forum for data sharing within the region. A-NPDC served on local & state committees including the ES Environmental Education Council, ES Resource Conservation & Development Council, ES Watersheds Network, VA Secure Commonwealth Panel Recurrent Flooding Subpanel, and VCZM Coastal Policy Team. A-NPDC participated in VA Coastal PDC meetings and leveraged the development of 3 NFWF Coastal Resiliency Grant Proposals and local County funding for litter control and recycling activities in the region.

Ground Water Committee

A-NPDC held 4 Committee meetings. The committee has reviewed 11 groundwater withdrawal permits, submitted 4 letters of comment for permits, submitted 2 letters of commendation to agricultural water users of the unconfined aquifer, and completed reviews of 6 relevant research publications. The committee submitted 3 comments regarding proposed amendments to state ground water regulations. The committee completed its update to the 20 year old ESVA Ground Water Supply Protection & Management Plan and presented the Plan to Accomack & Northampton Cos. for approval. The committee completed a ground water quality study in 2 communities in partnership with Randolph-Macon College. The committee awarded the 2013 Ground Water Award to the ES Rural Health Onley Community Health Center for their exemplary conservation and stormwater management efforts. The Committee ran a simulation of a groundwater model scenario for a hypothetical withdrawal in Northampton Co. to determine potential supply and quality concerns for the area.

Uniform Land Preservation & Policy Report for Northampton County & Accomack County

A-NPDC has held initial discussions with stakeholders to determine an appropriate stakeholder meeting agenda. A-NPDC has compiled initial information regarding how lands protected by conservation easements impact local government protection measures and which land preservation tools are appropriate for long term planning horizons in the region.

Benefits Accrued from Prior CZM Grants Report – no activity to report

Final Products	% Completion	Anticipated Completion Date
Climate Adaptation Working Group Report	50%	11/15/2014
Coastal Management Training Report	75%	11/15/2014
Technical Assistance Report	50%	11/15/2014
Ground Water Committee Report	50%	11/15/2014
Uniform Land Preservation & Policy Report	50%	11/15/2014
Benefits Accrued from Prior CZM Grants Report	0%	11/15/2014
Plant ES Natives Campaign Partnership		

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2013

**Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015**

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>	Submit w/next Semiannual Report
Closed	Start:	End:	Closeout:		
	10/1/2013	9/30/2014	12/31/2014		

(1) Crater PDC staff processed 10 environmental impact reviews for local, state, and federal projects. (2) Two coastal meeting/training sessions were held during the reporting period (6/25/14, 9/24/14). Topics of discussion were the Beaches to Bluegrass Trail, Performance Contracting, the Chesapeake Bay Agreement, the Virginia Outdoors Plan, and the Crater PDC Rural Transportation Planning Program. (3) Crater PDC staff coordinated and administered regional review of the Beaches to Bluegrass Trail and the Virginia Outdoors Plan. (4) Commission staff participated in several environmental planning efforts pertaining to the Chesapeake Conservancy, the Albemarle-Chowan Watershed, and the Middle James Round Table. (5) Crater PDC staff continued to provide technical support to FOLAR – Friends of the Lower Appomattox River. This included hosting meetings, providing website maintenance, preparing brochures, and preparing and submitting grant proposals. Staff also assisted FOLAR with its scheduled 9/27/14 Paddle or Battle and its continued strategic planning process. (6) Staff continued work on maintaining and producing internet and smart phone applications for the Appomattox River Interpretive Guide.

Final Products	% Completion	Anticipated Completion Date
Environmental Impact Review Comments	100%	9/30/14
Coastal Meetings	100%	9/30/14
Coastal Training	100%	9/30/14
FOLAR Assistance	100%	9/30/14
Benefits Accrued from prior CZM Grants	100%	9/30/14

Task: 43	Hampton Roads Planning District Commission			Current Federal Total:	\$60,000.00
Hampton Roads Technical Assistance Program					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Open	Start:	End:	Closeout:		
	10/1/2013	12/31/2014	3/31/2015		

Environmental Impact Review. Thirtyone (31) environmental impact assessments/statements and coastal zone consistency determinations were reviewed. This included coordination of local government input and providing comments to DEQ for inclusion in official state positions.

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. During this period, fourteen (14) entries related to coastal resources management were posted to the HRPDC website. HRPDC hosted the APA's AICP webinar series (4 sessions) and a three-day training workshop in Newport News, Virginia, with NOAA's Coastal Services Center on Climate Adaptation for Coastal Communities. HRPDC staff provided logistical and planning support for the training, which was attended by over forty local staff, federal agency staff, and other stakeholders.

Regional Coordination Process. HRPDC staff facilitated monthly regional advisory committee meetings addressing wetlands, Chesapeake Bay issues, and other coastal and environmental issues. Through these committees, the localities develop regional consensus on state and federal regulatory and legislative issues, coordinate plans addressing these issues, and exchange information on program activities. During this period, six (6) meetings were held of the Regional Environmental Committee (REC). Topics covered included regional studies and projects, the Chesapeake Bay Program, living shorelines regulations, and stormwater management.

Regional Technical Studies and Assistance. HRPDC staff received new LIDAR data from VGIN and began putting together packages with all deliverables for local staff. So far, the data has been delivered to Poquoson and Portsmouth, and three others (Hampton, Norfolk, and Virginia Beach) have been completed. HRPDC staff also began a comprehensive literature review of research related to the economic impacts of climate change and sea level rise, which will inform future local and regional analyses and plans.

Benefits Accrued from Prior CZM Grants. This deliverable will be completed by the end of the grant.

Final Products	% Completion	Anticipated Completion Date
EIA/EIS and Coastal Consistency Review	100%	September 30, 2014
Public Information, Education, and Training	100%	September 30, 2014
Regional Coordination Process	100%	September 30, 2014
Regional Technical Studies and Special Projects	75%	December 31, 2014
Benefits Accrued from Prior CZM Grants	0%	December 31, 2014

Year: 2013

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015

Task: 44 Middle Peninsula Planning District Commission
Technical Assistance Program

Current Federal Total: \$30,000.00

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closed	Start:	End:	Closeout:		
	10/1/2013	9/30/2014	12/31/2014		

Product #1- Coastal Management Support: MPPDC staff has been successful at providing ongoing coastal management support to local government elected officials, chief administrative officers, local planning staff, and local planning commission staff on issues such as sea level rise, hydraulic fracturing in the Taylorville Basin, ditch drainage and maintenance, strengthening working waterfronts and ongoing education on FEMA Flood Insurance and the Community Rating System. Staff attended several hydraulic fracturing workshops and seminars, including a VACO Local Government workshop by which staff was able to provide information to member localities on the environmental impacts of the process of "fracking." Staff also attended the Climate Adaptation Workshop July 29-31 in Newport News, VA presented by NOAA, CZM, and Hampton Roads Planning District Commission. The workshop provided detailed training on the issues surrounding climate change, performing vulnerability assessments, adaptation planning, communicating with local residents on the issues of flooding and sea level rise, and provided various tools for researching and addressing the issues on the local level. MPPDC researched and obtained private funding to assist the Urbanna Oyster Festival Foundation with a shoreline restoration project along Urbanna Creek. This project proposes collaboration with Virginia Department of Transportation, Dominion Power, Verizon, VIMS-Shoreline Studies Program, a private land owner, the Urbanna Oyster Festival Foundation, and Christ Church School. MPPDC has also secured funding for a project that will assist Mathews County with creating a plan that will address flooding as a result of improper ditch maintenance.

Product #2 - Convened Meetings: MPPDC staff convened monthly-quarterly meetings with local government level planners (1) as well as government administrators. Local Government Administrator meetings (6) focused on a variety of topics including emerging and ongoing uses related to Bio-solids monitoring and FEMA Floodplain Insurance Program and the Community Rating System. MPPDC staff also convened quarterly local planners meeting where participants discuss and explore solutions to various ongoing issues such as oil and natural gas exploration in the region and changes to the Virginia storm water management regulations and how it affected non-MS4 areas.

Product #3 – Middle Peninsula Chesapeake Bay Public Access Authority(PAA): MPPDC staff continues to provided direct research and facilitation support for the implementation of the PAA's annual work plan: Continued to coordinate with Virginia Commonwealth University for the first Captain Sinclair's Waterfront Property Reuse and Community Development public meeting; Provided GIS data sets for VCU environmental site assessment; Consulted with Delegate Keith Hodges 98th District concerning funding for public working waterfront infrastructure; Convened August 11th at Perrin Wharf with MPPDC staff, local elected officials and watermen to discuss funding options; Discussed history behind 58.1-2289; Disposition of tax revenue generally for public wharfs; Lastly, met with several citizens considering donating additional waterfront property in Middlesex, Gloucester and Mathews Counties to the Middle Peninsula Chesapeake Bay Public Access Authority. Tentative closing on approximately 140 acres valued as~ \$2,000,000 is scheduled for closing in November 2014.

Final Products	% Completion	Anticipated Completion Date
Coastal Management Analysis and Policy Support	100%	September 30, 2014
Local Planning Coordination	100%	September 30, 2014
MP CBPAA Work Plan & Public Waterfront Management	100%	September 30, 2014
Benefits Accrued from Prior CZM Grants	100%	September 30, 2014

Year: 2013

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015

Task: 45	Northern Neck Planning District Commission Northern Neck PDC Technical Assistance Program	Current Federal Total: \$30,000.00						
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report						
Closed	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Start:</td> <td style="width: 33%;">End:</td> <td style="width: 33%;">Closeout:</td> </tr> <tr> <td>10/1/2013</td> <td>9/30/2014</td> <td>12/31/2014</td> </tr> </table>	Start:	End:	Closeout:	10/1/2013	9/30/2014	12/31/2014	
Start:	End:	Closeout:						
10/1/2013	9/30/2014	12/31/2014						

On May 13, 2014, NNPDC staff conducted a training session entitled the Wetlands Summit, in conjunction with The Wetlands Project, a local non-profit organization. NNPDC staff gave a presentation on the impacts of sea level on natural areas in the Northern Neck, and environmental web mapping tools. Over thirty five people attended, representing 26 non-profit organizations and government agencies, including Friends of the Rappahannock and local county wetlands board members. Major challenges to wetlands conservation were identified at the summit. Education of the general public and lack of funding resources for conservation projects emerged as the key issues. NNPDC staff conducted a combination local coordination/training session on August 19, 2014. Staff from the USF&WS presented an update on the Rappahannock River Valley National Wildlife Refuge (RRVNW). Local county staff inquired about any new public access plans, and RRVNWR staff replied there may be a fishing pier project on Cat Point Creek in the future. Groundwater management was discussed after the training. NNPDC staff summarized the presentation made by Scott Kudlas regarding the Virginia Water Supply Plan at the June Rappahannock River Basin Commission Meeting at Belle Isle State Park in Lancaster County. NNPDC staff had a follow up training presentation on September 24, 2014 given by Clear Creek Associates on Artificial Aquifer Recharge (AR). The presenters explained that only one site in Virginia was engaged in Artificial Aquifer Recharge, but elsewhere in the nation and internationally several coastal communities were using AR to keep saltwater from intruding into their freshwater aquifers. Coordination activities following the meeting included an update on the current VACZM grant and future grant activities. NNPDC staff completed assisting Richmond County with their Septic Pumpout Tracking program. The septic database was updated to include new construction, and the new landbook database was relationally joined to the septic database in an MS Access environment. Those with documentation of an installed effluent filter as well as those who have submitted proof of pumpout were filtered out. MS Access was used to perform a mail merge that resulted in 836 septic pumpout notification letters being created to be sent out by Richmond County from the Farnham Magisterial District. NNPDC staff completed research on three VDOT road endings in Lancaster County; Old Ferry Road (VSH F689), Beach Road (VSH 639) and at Bertrand (VSH 354), which included researching Deeds, Wills and Board of Supervisors meeting minutes as well as VDOT highway plans. Most properties were traced back to the 1920s, and no evidence was found that would prove the endings are available for public access today. NNPDC staff downloaded all 337 tiles of LIDAR information for Westmoreland County, created an ArcGIS project to view them, and adjusted the legends so that they all match for seamless viewing, and loaded the ArcGIS project onto Westmoreland County GIS computers. NNPDC staff also created an ArcGIS Westmoreland County Road Map that has all 911 road names labeled as well as route numbers, and downloaded several layers from the VAZM Coastal GEMS website. NNPDC staff created four stormwater brochures for locality use, and distributed those brochures electronically as well as 40 hard copies of each brochure to each of the four counties.

Final Products	% Completion	Anticipated Completion Date
Coastal Management Support	100%	September 30, 2014
Local Planning and Coordination	100%	September 30, 2014
Richmond County Septic Pumpout Track Program Update	100%	September 30, 2014
Lancaster County VDOT Road Ending Analysis	100%	September 30, 2014
Westmoreland County GIS Enhancement	100%	September 30, 2014
Northern Neck Regional Stormwater Educational Brochures	100%	September 30, 2014
Benefits Accrued from Prior CZM Grants	100%	September 30, 2014

Year: 2013

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015

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> Submit w/next Semiannual Report
Closed	Start:	End:	Closeout:
	10/1/2013	9/30/2014	12/31/2014

Coordination & Training:

During the reporting period, Northern Virginia Regional Commission (NVRC) staff coordinated and hosted the Spring Coastal PDC Meeting on June 12, 2014 at Leesylvania State Park. Representatives from seven Coastal PDC's, the VA Coastal Zone Management Program, the Virginia Coastal Policy Clinic, and Wetlands Watch were in attendance. Topics discussed at the meeting included the Community Rating System, Section 309 water quality project updates and grant opportunities as well as PDC competitive grant opportunities.

NVRC also continued to support the Virginia Coastal Policy Team by participating in the September 30, 2014 meeting at DEQ in Richmond, VA.

Special Project – Northern Virginia Clean Water Partners:

During this reporting period, the Northern Virginia Clean Water Partners continued their annual Only Rain Down The Storm Drain campaign. The Partners used television, print, internet advertising and the Only Rain Down the Storm Drain website to distribute messages linked to specific stormwater problems, such as proper pet waste disposal, over fertilization of lawns and gardens and proper disposal of motor oil. In addition to the multi-channel media campaign, educational events hosted throughout the Northern Virginia region also raised awareness and encouraged positive behavior change in residents. The television and internet ads featured the well known national symbol of non-point source pollution; the rubber ducky.

One ad was translated into Spanish and is airing on several Spanish language networks. The campaign also featured banner ads on Xfinity.com and 390 taggable spots. The TV ads resulted in approximately 3,193,924 impressions in Northern Virginia households. Digital banner ads were also displayed on Xfinity.com and resulted in 527,863 total impressions and over 300 click throughs to the www.onlyrain.org website. In addition to the advertisement shown on TV and on-line, the Partners distributed 10,000 pet waste bag dispensers to dog owners at community events to promote proper handling and disposal of dog waste. The campaign fulfilled the outreach and education requirements of the jurisdictions' MS4 permits.

A post-campaign survey of 500 northern Virginia residents was conducted to measure the effectiveness of the campaign. A summary report for the campaign including the number of people who viewed the ads was prepared and distributed to the Partners in September 2014 for inclusion in their annual MS4 reports. [Http://www.onlyrain.org/](http://www.onlyrain.org/)

In addition, the Northern Virginia Clean Water Partners welcomed two new members, Northern Virginia Community College and Fairfax County Public Schools.

EA/EIS/EIR Reviews:

Since April 2014, NVRC staff have reviewed and commented on several EIS/EIR requests across the region.

Final Products	% Completion	Anticipated Completion Date
Annual Report – NoVA Coastal Resources TA Program	85%	November 15, 2014
Summary of Regional Stormwater Education Campaign	100%	September 30, 2014
Benefits Accrued from Prior CZM Grants	100%	September 30, 2014

Year: 2013

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015

Task: 47 George Washington Regional Commission Current Federal Total: \$30,000.00
GWRC Coastal Technical Assistance

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closed	Start:	End:	Closeout:		
	10/1/2013	9/30/2014	12/31/2014		

In April, the Consultant (Conservation Concepts, LLC) worked with Mary Washington (MWU) students and faculty to develop a database metadata file and construct the database based on input from Caroline County staff needs and uses. The GPS data collected during field work conducted in March by the MWU class (GEO 355) was incorporated into an Excel Spreadsheet for eventual incorporation into the finished database. A call for summer interns resulted in the hiring of three students who would continue working with Caroline County staff and the consultants over the summer months. These summer interns completed all of the GPS field work, documenting the location of all 86 BMP sites, taking pictures and recording qualitative observations of the condition of the facilities. The interns also developed the Microsoft Access database based on the metadata. The interns also scanned all of the existing site plans that Caroline County had in its files that pertained to any of the BMP sites. These pdf files will be hyperlinked to the Access database, along with photographs of the BMP facilities and GPS data. The interns also reviewed the site plans to gather stormwater facility related data (i.e., drainage area of each BMP, type of facility, maintenance agreement, etc.) and transferred this information into the Access database. Caroline County staff, the consultants and MWU faculty worked with Caroline County's GIS consultants to insure that all of the new BMP data and database were incorporated into the County's existing GIS. At the conclusion of the project, the intern team, with assistance from the consultants and MWU faculty, prepared a presentation for Caroline County staff on the project and how to use the information.

On April 2, GWRC co-sponsored with the Virginia Association of Environmental Professionals a regional educational conference that examined the details of the impending implementation of Virginia's Stormwater Management Program (VSMP). The seminar was attended by approximately 160 private and public sector engineers, planners, landscape architects and other professionals who would be impacted by the impending VSMP implementation. Joan Salvati and other DEQ staff made presentations, as well as presentations from private sector consultants providing their insights on the impending changes to Virginia's stormwater program.

In July, Conservation Concepts, working closely with Caroline staff, identified a site on which a BMP retrofit would be designed. The site chosen was the Planning and Development office for Caroline County. A couple of reasons were cited for choosing this site: 1) it is in a high traffic area that could be used as an educational demonstration of LID practices; 2) it is on public property and, according to County staff, could be built using substantial donated materials and labor from the County and its partners; and 3) the current site is eroding badly and creating significant sediment and nutrient runoff into nearby tributaries. Conservation Concepts completed the designs for the BMP facility and once the County is prepared, the site can be retrofitted according to these designs.

Conservation Concepts staff presented lessons learned and discussed GWRC's VSMP regional process at the Annual VAPDC conference on July 24th. The panel included the Secretary of Natural Resources and examined some other issues, such as water supply planning.

The GWRC coordination/training meeting forums were held 4 times between April 1, 2014 and September 30, 2014. The meetings were attended by local environmental planners, MS4/stormwater program managers/staff and/or planning directors, development review personnel, Rappahannock River Basin Commission and Soil & Water Conservation Districts and Friends of the Rappahannock staff, and the consulting team.

Final Products	% Completion	Anticipated Completion Date
Quarterly coordination/training	100%	September 30, 2014
BMP Database for Caroline County	100%	September 30, 2014
BMP Retrofit Plan for dilapidated/non-conforming BMP	100%	September 30, 2014
Benefits Accrued from Prior CZM Grants	100%	September 30, 2014

Year: 2013

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015

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> Submit w/next Semiannual Report
Closed	Start:	End:	Closeout:
	10/1/2013	9/30/2014	12/31/2014

Technical Assistance – RRPDC staff processed 30 environmental reviews and 15 intergovernmental reviews.

Coordination & Training – RRPDC staff hosted 2 Environmental Technical Advisory Committee (ENV TAC) meetings. The first meeting was held on April 29, 2014. Henrico County staff presented a draft version of the Henrico County Storm Water Pollution Prevention Plan (SWPPP) template. This template is now being used by other localities in the Region with slight modifications to suit their own locality. Use of a common template across the Region creates efficiencies for local staff as well as the development community. The second ENV TAC meeting was held on August 8, 2014. The discussions included the RRPDC environmental review process seeking local input for improvements, a presentation of Stormwater Training Modules developed by Chesterfield County through a grant from DEQ, plans for the RRPDC to host a meeting with DCR on the Virginia Outdoors Plan, and a roundtable discussion of updates on local stormwater programs.

Existing Land Use Layer Update and Midlothian Corridor Analysis as prototype for Underutilized Corridors
Existing Land Use Update - RRPDC staff is currently conducting an update of 2009 – 2011 Existing Land Use GIS base layer using 2013 VGIN aerial imagery. The data for all localities in the Coastal Zone is currently being updated, with preliminary analysis for Charles City and New Kent Counties, and Richmond City already completed.

Midlothian Corridor Prototype – RRPDC staff finished Maximizing Potential: Midlothian – Belt Boulevard Corridor Study. RRPDC staff worked with a team of City staff from multiple departments to analyze and make recommendations for the Midlothian Turnpike (US Route 60) corridor between Belt Boulevard and Chippenham Parkway in the City of Richmond. Key recommendations include: need to reduce impervious surfaces, ways to integrate plans for the James River Branch Trail and Reedy Creek Greenways into revitalization of the area, and opportunities to capitalize on existing urban agriculture locations.

Groundwork RVA – RRPDC staff attends monthly full board meetings, Projects Committee meetings, and weekly meetings with Executive Director.

RRPDC staff is helping to guide the direction of the organization as they tackle projects including greenways in riparian areas, brownfield education and awareness, landscaping of underutilized areas and outdoor education.

Final Products	% Completion	Anticipated Completion Date
Technical Assistance	100%	
Coordination and Training	100%	
Existing Land Use	100%	
Midlothian Corridor Analysis	100%	
Groundwork RVA	100%	

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2013

**Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015**

Task: 49	Virginia Aquarium and Marine Science Center Foundation	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>	Submit w/next Semiannual Report
Open	Start: End: Closeout:		
	1/1/2014 12/31/2014 3/31/2015		

This grant officially started on January 1, 2014. During the period from April through September 2014, the Virginia Aquarium Stranding Response Program (VAQS) recorded 270 strandings in Virginia. There were 531 strandings recorded during the same period in 2013 and the elevated numbers resulted from the bottlenose dolphin unusual mortality event.

The VAQS Stranding Team responded to 75 marine mammal strandings in Virginia during this reporting period, 74 cetaceans and one pinniped. Twenty three (31%) of the strandings were located in Virginia Beach and other cities south of the James River, 31 (41%) were located on Virginia's eastern shore and 21 (28%) were located along the western shores of the Chesapeake Bay north of the James River. The cetacean species included 65 bottlenose dolphin (*Tursiops truncatus*), five common dolphin (*Delphinus delphis*), one Risso's dolphin (*Grampus griseus*), one dwarf sperm whale (*Kogia sima*), one Blainville's beaked whale (*Mesoplodon densirostris*), one sei whale (*Balaenoptera borealis*). There was one pinniped species represented by one harbor seal (*Phoca vitulina*). Four of the cetaceans were alive upon first reports of stranding. One common dolphin and one bottlenose dolphin were euthanized on the beach due to their very poor conditions. One bottlenose dolphin was disentangled from crab pots and one sei whale eventually died in the Elizabeth River. The necropsy of the sei whale revealed that, in addition to a presumed vessel strike, the animal had ingested a large piece of plastic that appeared to have damaged the stomach lining and may have prevented the animal from feeding.

There were 195 sea turtle strandings recorded in Virginia during this reporting period, compared with 160 during the same period in 2013. The sea turtle species included 123 loggerheads (*Caretta caretta*), 52 Kemp's ridley (*Lepidochelys kempii*), six greens (*Chelonia mydas*), four leatherbacks (*Dermochelys coriacea*) and 10 animals that were unidentified to species. There were 27 live sea turtles that stranded during the reporting period and many were rehabilitated and released. A complete summary of live sea turtle recovery, rehabilitation and release will be included in the final project report.

VAQS Staff attended six professional meetings and workshops and made several formal presentations during this reporting period. There were also educational and/or training presentations by Stranding Team members to groups in the Hampton Roads area and to stranding network cooperators. Grant funded VAQS staff worked more than 500 hours, and Stranding Team volunteers contributed more than 5,000 hours to the stranding response program during this reporting period. A detailed list of all trainings, presentations and publications will be included in the final report.

Final Products	% Completion	Anticipated Completion Date
Stranding Response Data Sharing and Reporting	75 %	December 31, 2014
Personnel and Cooperator Training Activities	85 %	December 31, 2014
Public Education and Outreach Activities	90 %	December 31, 2014

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
Pending	Start: End: Closeout:		
	10/1/2013 9/30/2014 12/31/2014		

Funds were transferred to subtasks in the Task 50 series.

Year: 2013

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015

Task: 51	Middle Peninsula Planning District Commission	Current Federal Total: \$40,000.00
Preserving Aberdeen Creek Working Waterfronts: Survey and Study of Dredging, Working Waterfront Infrastructure and Financial Need		
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closed	Start: End: Closeout:	
	10/1/2013 9/30/2014 12/31/2014	

Product #1: Utilizing Tax Increment Financing (TIF) as a strategy to generate revenue to fund future dredging projects: MPPDC staff selected Thomas Wysong, Virginia Sea Grant Fellow, to assist the MPPDC with the Aberdeen Creek TIF project. MPPDC provided guidance on expectations of the TIF analysis section of the report, timeline and expectations for the final product and variations in the method by which to formulate scenarios and recommendations on increasing and/supplementing funding generated through TIF. MPPDC staff assembled baseline real-estate assessment data and received GIS data sets from Gloucester County Department of Technology, to assist with the spatial analysis of the TIF dredging district. MPPDC compiled information and drafted an analysis of TIF programs implemented throughout the Commonwealth as well as in other states to be used as examples for program and policy design. The Crystal City TIF district created by Arlington County, Virginia is being considered as a possible model for this project. MPPDC staff reviewed and revised the preliminary draft of the Aberdeen Tax Increment Financing report and provided oversight for compilation of the final report.

Product #2: Aberdeen Creek Historic Shoreline Change: MPPDC staff discussed bathymetry data collected by Scott Hardaway, Director of the Virginia Institute of Marine Science (VIMS) Shoreline Studies program to help determine the rate of shoaling within Aberdeen Creek. MPPDC staff received and reviewed the report on shoreline change along Aberdeen Creek submitted by Scott Hardaway, (VIMS) Shoreline Studies program. MPPDC staff consolidated the shoreline change report with the infrastructure assessment and the Tax Increment Financing feasibility study for inclusion in the Aberdeen Creek Tax Increment Financing final report.

Product #3: Assess Aberdeen Creek's Waterfront Infrastructure: MPPDC staff analyzed the current use of Aberdeen creek waterfront infrastructure by working watermen. MPPDC staff received and reviewed the report on Aberdeen Creek working waterfront infrastructure assessment and maintenance cost provided by Scott Hardaway, Director of the VIMS Shoreline Studies program. MPPDC staff synthesized the information for inclusion into the final report.

Product#4: Survey the navigation channel and determine dredge placement options: Scott Hardaway, Director of the VIMS Shoreline Studies program, reports some sand appears suitable for beach nourishment. Soft clay will have to be disposed in an approved upland site. Some sand is suitable for beach fill that is hydraulically-dredged. Areas have been identified that might be suitable for beach fill. MPPDC received the survey and sampling report on the creek's dredge materials from Scott Hardaway of VIMS to be included in the final report.

Product #5: Aberdeen Creek navigation channel and associated Working Waterfront Plan: MPPDC staff has compiled the report on shoreline change, Aberdeen creek waterfront infrastructure, the survey on the navigation of the channel and Tax Increment financing scenarios and methodologies into a draft report that will be considered as a policy making tool for funding dredging and other waterfront maintenance projects.

Final Products	% Completion	Anticipated Completion Date
Feasibility and Cost Estimate Study utilizing a TIF as a strategy to generate revenue to fund future dredging projects	100%	September 30, 2014
Aberdeen Creek Historic Shoreline Change	100%	September 30, 2014
Assessment of Aberdeen Creek Waterfront Infrastructure	100%	September 30, 2014
Survey of the Navigation Channel and Determine Dredge Material Placement Options	100%	September 30, 2014
Aberdeen Creek Navigation Channel and Associated Working Waterfront Plan	100%	September 30, 2014

Year: 2013

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015

Task: 52 Middle Peninsula Planning District Commission Current Federal Total: \$16,798.00
Middle Peninsula Water Reuse Study

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closed	Start:	End:	Closeout:		
	10/1/2013	9/30/2014	12/31/2014		

Product #1: Research and Assess Water Reuse: Middle Peninsula Planning District Commission (MPPDC) staff conducted research on water reuse/reclamation and organized this information in a report. In addition to providing a brief overview of the water reuse/reclamation technology, case studies from Cary, North Carolina and New Kent County, Virginia were gathered. Discussions of local regional projects were also initiated by staff. First, MPPDC staff spoke with Jim Pyne, Hampton Roads Sanitation District (HRSD) regarding a new water reclamation project being pursued with Nestle Purina Tidy Cat Litter Company in King William County. Nestle Purina plans to utilize all 30,000 gallons per day of treated effluent from the King William Wastewater Treatment plant from a 2.5 mile water reuse pipe that HRSD will construct to the business's property line. Second MPPDC staff met with Carole Hamner, RockTenn Environmental Manager, and Nina Butler, RockTenn Senior Vice President of Environmental Affairs regarding water reuse and supply. As the RockTenn facility in the Town of West Point is the largest groundwater user in the Middle Peninsula region, there was interest in understanding the company's perspective about water reuse and supply. RockTenn stated that while they are looking into water reuse within their facility, utilizing HRSD reclaimed water is less feasible due to limited amounts of available water, the quality of water, and the distance in which the water would need to travel and associated costs.

Product #2: Water Reuse Stakeholder Committee: MPPDC staff hosted a second meeting of the Water Reuse Steering Committee on May 22, 2014. At this meeting, Mr. Larry Dame, Utility Director of New Kent County, gave a presentation about the Water Reclamation Plant in New Kent County and how the plant came to fruition with the support of the County's Board of Supervisors and available funding through the American Recovery and Reinvestment Act. Upon committee discussions, it was concluded that a larger meeting with State agencies and other coastal stakeholders was needed. Therefore MPPDC staff organized a third meeting with Committee and invited representatives from Virginia Department of Environmental Quality, RockTenn, as well as Delegate Keith Hodges representing Virginia's 98th District. As a result of the meeting, the committee generated recommendations to move forward with focus on water reuse and supply including: (1) Local governments may need to implement water conservation measures as identified in the Regional Water Supply Plan; (2) Develop a model/ plan for an exchange program/trading program for groundwater; (3) Explore the idea of developing a funding opportunities for public infrastructure improvements; (4) Identify issues that Virginia Department of Health has with water reclamation and assuming risk, in light of the dwindling water supply; (5) Research surface water rights and how these rights can be relinquished; and (6) Develop cost estimates of water reuse, aquifer recharge, and other technologies to present to General Assembly so that funds could be allocated.

Final Products	% Completion	Anticipated Completion Date
Research and Assess Water Reuse	100%	Complete
Water Reuse Stakeholder Committee	100%	Complete

Year: 2013

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015

Task: 53	Accomack-Northampton Planning District Commission	Current Federal Total:	\$16,667.00
Eastern Shore Transportation Infrastructure Inundation Vulnerability Assessment			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Open	Start: 10/1/2013	End: 12/31/2014	Closeout: 3/31/2015

ES TIIVA Data

GIS data for the NOAA inundation models and VDOT roadway data was compiled and all GIS buffer analyses completed. The final maps have been produced illustrating road segments expected to be inundated at various sea level scenarios from 1-6' at one foot increments. Assessments have been completed to determine communities that may not become inundated but are likely to become disconnected or access limited due to inundation of access roads.

ES TIIVA Report

A-NPDC has completed draft maps for inclusion in the report. Work continues on the final report and an extension has been requested for December 31, 2014 to allow for ample time to incorporate input from VDOT and local governments. A-NPDC has defined a draft GIS protocol for evaluating inundation vulnerability that can be used by other localities within the coastal zone.

ES TIIVA Government and Community Engagement

A-NPDC has briefed the A-NPDC Board on the project's progress during the June, July, August, and September 2014 monthly meetings. A-NPDC consulted the ES Climate Adaptation Working Group to solicit input regarding which sea level rise projections from the VIMS Recurrent Flooding Study should be included in the vulnerability assessment. The group reached consensus that projection based from historic data not be used and that the low, medium, and high sea level projections be incorporated by including the range of dates over which sea level scenarios could occur. The ES Rural Technical Transportation Advisory Committee was briefed and consulted at its quarterly meeting in August 2014 to solicit input and guidance regarding how disconnected communities be mapped/identified in the report. The group reached consensus that each county should select which communities be included in the analysis.

Final Products	% Completion	Anticipated Completion Date
ES TIIVA Data	95%	December 31, 2014
ES TIIVA Report	90%	December 31, 2014
ES TIIVA Government & Community Engagement	90%	December 31, 2014

Year: 2013

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015

Task: 54	Hampton Roads Planning District Commission	Current Federal Total:	\$19,834.00
Hampton Roads Sea Level Rise Planning and Technical Assistance			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Open	Start: 1/1/2014	End: 12/31/2014	Closeout: 3/31/2015

Sea Level Rise Inundation Map Update. HRPDC staff has received new LIDAR data from the U.S. Geological Survey and is processing that data. HRPDC staff has also acquired data used for the FEMA Region III storm surge analysis and will be using that with the new LIDAR data to create sea level rise and storm surge vulnerability maps. HRPDC staff has identified the methodology that will be used to create these maps.

Sea Level Rise Adaptation Technical Working Group. The HRPDC Special Committee on Recurrent Flooding and Sea Level Rise held two (2) meetings during this period, the first on June 20 and the second on September 26. The first meeting focused on identifying issues for the committee to focus on and on providing an overview of existing efforts in the region. The second meeting focused on a discussion of local floodplain management regulations and identifying consensus recommendations for local governments to adopt.

Sea Level Rise Analysis Case Studies. HRPDC staff is working with localities to identify useful and appropriate locations and scenarios for case study analysis.

Adaptation Technical Assistance to Local Governments. HRPDC staff is working with localities to identify planning needs related to sea level rise and flooding.

Public Outreach/Education and Coordination. HRPDC staff has made several presentations on local and regional efforts to prepare for sea level rise and flooding (outreach and education) and has also coordinated with other institutions on various efforts, including grant applications and general government-academic-stakeholder collaboration.

Final Products	% Completion	Anticipated Completion Date
Sea Level Rise Inundation Map Update	15%	December 31, 2014
Sea Level Rise Adaptation Technical Working Group	50%	December 31, 2014
Sea Level Rise Analysis Case Studies	15%	December 31, 2014
Adaptation Technical Assistance to Local Governments	15%	December 31, 2014
Public Outreach/Education and Coordination	75%	December 31, 2014

Task: 55	Hampton Roads Planning District Commission	Current Federal Total:	\$19,651.00
Developing a Native Plants Promotion Strategy for Hampton Roads			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Open	Start: 1/1/2014	End: 12/31/2014	Closeout: 3/31/2015

HRPDC has been networking with various interested stakeholders in the region. This includes meetings with groups of retailers to refine the needs assessment for the region. Continued research indicates varied levels of interest from the native plant and retail communities.

Final Products	% Completion	Anticipated Completion Date
#1: Stakeholder Steering Committee	30%	12/31/14
#2: Native Plants Needs Assessment	50%	12/31/14
#3: Hampton Roads Native Plants Strategic Plan	0%	12/31/14

Year: 2013

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015

Task: 56	Northern Virginia Regional Commission	Current Federal Total: \$12,177.00
Site Selection and Design of a Conservation Landscaping Workshop		
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closed	Start: End: Closeout:	
	1/1/2014 9/30/2014 12/31/2014	

Workgroup

During this period, NVRC staff formed the collaborative workgroup that worked together to plan and implement the workshop. Stakeholders in the workgroup included Arlington County, Northern VA Soil and Water Conservation District, George Washington University, Chesapeake Stormwater Network, Northern VA Conservation Trust, Wetlands Watch, Chesapeake Conservation Landscaping Council, and City of Falls Church.

Site Selection and Analysis

A site located in the City of Falls Church was selected for installation of the conservation landscape. The site was selected for several reasons; 1) it could be converted from turf to conservation landscape, 2) it is located in the riparian zone of an impaired stream (Tripps Run), 3) the site enhances the green infrastructure of an urban landscape, 4) it connects to an existing native plant trail, 5) the City offered to provide matching funds, 6) it is publicly owned land, and 7) the site is highly visible from the roadway and offers an excellent opportunity for educational signage.

Conservation Landscaping Technical Design Workshop

During this period, NVRC worked with speakers to design the agenda and conduct the workshop. The Chesapeake Stormwater Network staff, Arlington County staff, City of Falls Church staff, and Northern Virginia Soil and Water Conservation District staff have all agreed to develop presentations to give at the workshop and help to advertise the workshop. The City of Falls Church explained their incentive program for property owners to reduce their stormwater fees by removing turf or hardscape and installing rain gardens or conservation landscaping. Arlington County presented on their program called Stormwater Wise Landscapes that provides grants to homeowners to install residential scale BMP's on their property. An instructor from the George Washington University Landscape Architecture program gave a presentation on native plants and the principles of Conservation Landscaping. A representative from the Chesapeake Stormwater Network provided an overview of all the different BMP practices that could be done on a homeowner's property. In addition, NVRC led participants through a design exercise to apply what they learned.

306 A Documentation

NVRC staff completed the 306A documents for the selected site.

Final Products	% Completion	Anticipated Completion Date
Workgroup Outcome Report	75%	November 15, 2014
Site Selection and Analysis Report	50%	November 15, 2014
Workshop	100%	September 30, 2014
306A Documentation	100%	September 30, 2014

Task: 57	Northern Virginia Regional Commission	Current Federal Total: \$10,873.00
Installation of Conservation Landscaping Project		
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Open	Start: End: Closeout:	
	9/15/2014 12/31/2014 3/31/2015	

Documentation for this task was sent to NOAA on 8-29-14 and was approved on 10-2-14. The contract for this task was sent out on 10-7-14 and received signed on 10-15-14, after the reporting period.

Year: 2013

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015

Task: 81	Virginia Aquarium and Marine Science Center Foundation	Current Federal Total:	\$45,000.00
Monitoring Marine Debris in Virginia's Coastal Zone			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: End: Closeout:		
	1/1/2014 3/31/2015 6/30/2015		

Survey coordinator Christina Trapani completed volunteer training sessions in April and has developed a volunteer team of up to 20 persons. Volunteers were recruited from Tidewater and Eastern Shore Chapters of the Virginia Master Naturalists, Virginia Beach Clean Community Commission, BBNWR, CNWR and the Virginia Aquarium Stranding Response Team. April was also the first month of data collection. Beach surveys were initiated and conducted monthly through September at the four study sites: Back Bay National Wildlife Refuge (BBNWR), Grandview Nature Preserve (GNP), Fisherman Island National Wildlife Refuge (FINWR) and Chincoteague National Wildlife Refuge (CNWR). Survey coordinator Trapani developed some procedures (to supplement those in NOAA's "Shoreline Survey Field Guide") to make the survey transects easier to follow. One method was to temporarily place re-useable bamboo stakes at the start and end of each transect to use as visual guides. Ms. Trapani also communicated with organizations that are known to do beach cleanups, alerting them to the research sites in this study, and asking that they do not remove debris items during the study.

A total of 26 beach surveys were conducted during the current reporting period: BBNWR (7), GNP (7), FINWR (6), CNWR (6). In addition to the coordinator and project organizing team, volunteers have contributed more than 340 hours of time to the project. Data have been collected monthly and photos have been taken per the protocol. The team also has started to enter data in NOAA's Marine Debris Monitoring and Assessment Project Field Survey Data Collection Site (<http://md-map.net>).

Final Products	% Completion	Anticipated Completion Date
Program Set-up	100 %	April 30, 2014
Data Collection	33 %	September 30, 2015
Data Management & Analysis	10 %	December 31, 2015 (an award extension will be requested)
Final Report	0 %	March 31, 2016 (an award extension will be requested)

Task: 92	Virginia Institute of Marine Science	Current Federal Total:	\$47,000.00
Developing a Working Waterfronts Plan for Virginia's Coastal Zone; Year 3			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: End: Closeout:		
	10/1/2013 3/31/2015 6/30/2015		

An overview of the project status was presented at the VCP partner meeting 9/30/14 in Richmond.

Economic assessment has been completed for Northampton County Aquaculture and Fisheries working waterfront impact. The L.D. Amory & Company of Hampton Virginia seafood unloading facility draft report is in final review with Amory. Additional case studies are identified with the relevant PDCs. And subcontracts are awaiting approval of the respective PDC boards. Those case studies will concern themselves with Aberdeen Creek in on the York River in Gloucester County Virginia. That study is being completed in conjunction with the MPPDC. As well an assessment of the Ampro Shipyard in Weems Virginia is being conducted in collaboration with the NNPDC.

An extension on implementing the entire suite of economic impact assessments was approved through March 31, 2015.

Final Products	% Completion	Anticipated Completion Date
WWF Economic Assessments	50	3/31/15
Expanded Communication	100	
Development of Plan and tools for WWF retention	25	3/31/15

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2013

**Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015**

Task: 93.01 Virginia Institute of Marine Science - Center for Coastal Resources Management		Current Federal Total: \$126,500.00
Shoreline Management Planning		
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Open	Start: End: Closeout: 10/1/2013 12/31/2014 3/31/2015	

Product #1: Aerial imagery to be used in the historic mapping portion of the Northumberland County Shoreline Evolution Report has been rectified, digitized, QA/QC'd, and the rates of shoreline change calculated. Maps have been created, and the report is nearly complete. Aerial imagery for Fairfax County Shoreline Evolution Report has been rectified and digitized. It is in the process of being QA/QC'd. Maps are being created and the report has been started.

Product #2: Completion of all data collection and processing for the James City County Shoreline Inventory. The QA/QC process is complete and a draft final report has been prepared. The metadata record is under development.

Product #3: Shoreline Management Model for Charles City County was run. Outputs for that model run have been included in the county's Comprehensive Coastal Resource Management Portal (<http://ccrm.vims.edu/ccrmp/charlesciti/index.html>) Shoreline Management Model for Fairfax County was run. Outputs for that model run have been included in the county's Comprehensive Coastal Resource Management Portal (<http://ccrm.vims.edu/ccrmp/fairfax/index.html>) These models support the development of the Shoreline Management Plans for these localities, which are in progress.

Final Products	% Completion	Anticipated Completion Date
#1 Northumberland and Fairfax Shoreline Evolution Reports	85%	January 15, 2014
#2 Shoreline Inventory James City County	95%	November30, 2014
#3 Fairfax & Charles City Co.Shoreline Management Plans	85%	December 15, 2014

Task: 94.01 Hampton Roads Planning District Commission		Current Federal Total: \$84,600.00
Land & Water Quality Protection in Hampton Roads		
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closed	Start: End: Closeout: 10/1/2013 9/30/2014 12/31/2014	

Between April 1, 2014 and September 30, 2014, HRPDC made significant progress on both deliverables for the third project in this series of grants. HRPDC staff met with Suffolk staff to provide an update on the project's status, go over findings from the second year, and discuss potential policies and areas to focus on for implementation. These included changes to the city's Unified Development Ordinance regarding parking and street standards, site planning requirements, and other possibilities. HRPDC staff met again with Norfolk staff to go over specific recommendations and get staff comments on additional possibilities.

Specific recommendations for ordinance changes were developed based on the work done in the FY 12 grant and conversations with staff from both Norfolk and Suffolk. Some of these changes were modeled using the GIS methodologies identified in years 1 and 2. The recommendations for ordnance changes and supporting information will be included in the final report.

Final Products	% Completion	Anticipated Completion Date
Implementing Water Quality Best Practices and Policies	95%	November 15, 2014
Modeling Developing Impacts for Use in Comprehensive Plans	95%	November 15, 2014

Year: 2013

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015

Task: 94.02 Middle Peninsula Planning District Commission Current Federal Total: \$47,022.00
Land and Water Quality Protection in Middle Peninsula Phase III

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closed	Start:	End:	Closeout:		
	10/1/2013	9/30/2014	12/31/2014		

Product #1 – Master Project Report – MPPDC is drafting the Master Report incorporating the studies received from the Virginia Coastal Policy Clinic, located at the College of William and Mary, identifying and assessing funds and programs that exist to assist local governments and citizens to address failing septic systems and failing drainage ditches.

Product #2 – Sustainable Septic Repair Funding Model - MPPDC Staff reviewed the study received from the Virginia Coastal Policy Clinic that included a review and assessment of examples of existing septic repair programs, sources of funding, legal issues, programmatic issues, administration, and recommendations on the establishment of entities that could receive funding not currently available to MPPDC such as public/private partnerships, nonprofit corporations or sanitation districts. MPPDC staff met with Department of Environmental Quality (DEQ) staff to discuss funding options for the MPPDC septic repair program and prepared an application for funding from the Virginia Clean Water Revolving Loan Fund through DEQ to recapitalize its Onsite Revolving Loan Program. The State Water Control Board met on September 29, 2014 and approved the funds. A public review and comment period will end following a public meeting on November 12, 2014 and funding should be in place to provide for homeowner assistance to repair failing septic systems in 2015. MPPDC staff also submitted several proposals to provide for grants to low income homeowners for septic repairs as well as established a partnership with a local bank to provide loan funds for assistance to citizens living in heir situations who cannot provide collateral for conventional loans. MPPDC has been partnering with the Virginia Department of Health to utilize grant funds they received from National Fish and Wildlife Foundation to provide grants to homeowners for 50% of the cost (up to \$7500) for installation of nitrogen-reducing septic systems.

Product #3 – Sustainable Ditching Maintenance Model - MPPDC Staff reviewed the study received from the Virginia Coastal Policy Clinic that identified federal and state programs that exist to assist local governments and citizens with addressing ditching problems to include a list of the different types of assistance available, type of assistance available and how to gain access to such assistance. MPPDC received funding announcement from the Virginia Coastal Zone Management Program for a section 309 grant titled Drainage and Roadside Ditching Authority. The grant will explore how to create a framework for Drainage and Roadside Ditching Authority that can be scalable to the local or regional level. Depending on the need.

Final Products	% Completion	Anticipated Completion Date
Master Project Report	95%	November 15, 2014
Sustainable Septic Repair Funding Model	100%	August 31, 2014
Sustainable Ditching Maintenance Model	100%	August 31, 2014

Year: 2013

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015

Task: 95.01 Dept. of Environmental Quality - Virginia Coastal Zone Management Program Current Federal Total: \$81,884.00
Virginia Ocean Plan

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closed	Start:	End:	Closeout:		
	10/1/2013	9/30/2014	12/31/2014		

The Environmental Scientist continued participating in the weekly MARCO Board conference calls as needed and the MARCO Stakeholder Liaison Committee. The focus of the reporting period was on the development of working relationships with the commercial fishing industries and the finalization of the Vessel Trip Report (VTR) based use maps as being developed by Rutgers University referred to as the Rutgers's University Communities at Sea Maps. Significant effort was dedicated to engage the commercial sector in a meaningful manner through an on-the-ground approach of direct engagement of commercial fishers. Through this direct, personal engagement process, the industries contacted including those from the spiny dogfish, conch, scallop, black seabass, menhaden and pelagic fisheries. The immediate purpose of the contact was to make arrangements and direct invitations to review the Community at Sea Maps at the public venue partnering with the VA Marine Resources Commission and the Finfish Management Advisory Council. On June 16, a subset of the Project Team presented to the VA Marine Resources Commission the overview of the Communities at Sea maps and process and directly requested assistance. The outcome of the meeting resulted in the scheduling and execution of the July 15 meeting with the Finfish Management Advisory Committee and the commercial fishing industry to review the Communities at Sea Maps, approximately 12-18 attendees were present representing spiny dogfish, conch, black sea bass and other fisheries. During the reporting period, a significant partnership with the Virginia Seafood Council was established to provide credibility and directly assist with the relationship building of the industry. This partnership has been critical to the advancement of the outreach to the commercial fishing industry. Additionally, during the reporting period partnerships with the North Carolina Seafood industry were identified and explored as an opportunity to capitalize on the engagement with those potentially impacted industries by the VA Wind Energy Area for upcoming outreach needs.

This reporting period also finalized the draft Marine Debris Reduction Plan. The VCU Environmental Scientist worked closely with the Longwood University and the Clean VA Waterways Program to summarize and finalize the draft plan including the hosting of the Marine Debris Advisory Committee on July 22.

Final Products	% Completion	Anticipated Completion Date
Report on Stakeholder Engagement to Document Needs and Goals of VA users	90	Nov 15, 2014
Report on the Marine Debris Plan Adoption and Initial Implementation	90	Nov 15, 2014

Year: 2013

VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM
Performance Report, Section A, for Cooperative Agreement No. NA13NOS4190135
for the period from April 1 2014 - September 30 2015

Task: 95.02 Virginia Aquarium and Marine Science Center Foundation Current Federal Total: \$63,994.00
Offshore Energy Planning: Documenting Location of Megafauna off Virginia's Coast

<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Open	Start:	End:	Closeout:		
	1/1/2014	12/31/2014	3/31/2015		

During the reporting period, the Virginia Aquarium & Marine Science Center conducted aerial surveys in collaboration with UNCW under NOAA Scientific Permit No. 948-1692-00 which authorizes surveys for endangered species and other cetaceans encountered in the western North Atlantic. Four surveys were conducted in the months of May, June, and September. The May aerial survey completed five track lines which resulted in 20 sightings of 177 (estimated) individual marine mammals and 36 sightings of 56 individual sea turtles. Marine mammal sightings included bottlenose dolphin (*Tursiops truncatus*, n=171) and spotted dolphin (*Stenella frontalis*; n=6), while sea turtle sightings included loggerhead (*Caretta caretta*; n=53) sea turtles, and a single sighting of an unidentified sea turtle species (n=3). Additionally, there were three sightings of a hammerhead shark. The survey on June 20th covered eight track lines which resulted in 20 sightings of 123 (estimated) marine mammals (all of which were bottlenose dolphin) and 107 sightings of 246 individual sea turtles. This included 101 sightings of 239 individual loggerheads and six sightings of seven unidentified sea turtles. At least two discrete species of sharks were observed and included three sightings of individual hammerhead sharks and nine sightings of ~508 unidentified sharks. One sighting included approximately 500 individual sharks congregated in a dense group just below the surface 29 miles east of the coast of Cape Henry, VA. In addition, there were 14 sightings of approximately 2,438 individual cownose rays and four sightings of manta rays (*Manta birostris*). The following day's survey on the 21st of June completed two track lines which resulted in two sightings of two loggerhead sea turtles, three sightings of 470 cownose rays, and two sightings of manta rays. The September aerial survey covered five track lines which resulted in six sightings of 71 (estimated) marine mammals and 20 sightings of 29 sea turtles. Sightings included two cetacean species, bottlenose dolphin (n=63) and a sighting of eight unidentified delphinids. In addition, there were 20 sightings of 29 loggerhead sea turtles. Other sightings included, a single unidentified shark species, three sightings of 176 cownose rays, a sighting of two ocean sunfish (*Mola mola*), and two sightings of manta rays. Over the course of these four surveys, 20 track lines were completed, and there were a total of 46 sightings of 371 marine mammals and 165 sightings of 333 sea turtles. There are approximately 15 hours of survey time remaining. These surveys will document the temporal and spatial occurrence of whales within the WEA and the data will be compared between years for which aerial survey data is available to provide insight into how large whales are utilizing the WEA.

Final Products	% Completion	Anticipated Completion Date
Final CZM Report	10%	Dec 31, 2014
Spatial data	75%	Dec 31, 2014