

Year: 2014

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
for the period from 

Task: 1	Dept. of Environmental Quality	Current Federal Total: \$295,235.00
Coastal Program Management		
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Project Period Open
Open	Start:      End:      Closeout:	
	10/1/2014   3/31/2016   6/30/2016	

Policy Products: A Coastal Policy Team meeting was held on Sep 29. Meeting notes are available at <http://www.deq.virginia.gov/Programs/CoastalZoneManagement/DescriptionBoundary/VirginiaCoastalPolicyTeam.aspx>.

RPCs and Amendments: Based on a discussion between NOAA staff and Virginia CZM and EIR staff in June, 2015, CZM staff presented a recommendation to the Coastal Policy Team on September 29 to move toward developing narrative enforceable policies for Virginia to replace the current policies. The Policy Team agreed that this would be beneficial and directed staff to use available funds to begin this process.

FY 2015 CZM Grant Application: The FY 2015 Draft application was submitted to NOAA on April 3 2015, and the Final application on May 7, 2015 via the CAMMP, Grants Online, and Grants.gov systems. Six PDC projects totalling \$170,000 were selected for funding through a competitive process. The topics addressed through these grants are 1) coastal resiliency, 2) public access planning and 3) public access construction.

FY 2015 CELCP and Section 309 PSM Grant Applications: No appropriation for CELCP was made for this fiscal year. The CZM Coastal Planner is working with Middle Peninsula PDC on other land conservation efforts. The CZM Manager completed a complex acquisition of two parcels on the E. Shore using 306A funds and initiated plans for a study on the economic costs and benefits of conserved lands on the E. Shore. A local government advisory team for the study was established and a first meeting set for Nov 3 2015. Virginia received a 309 PSM grant to evaluate and improve local shoreline management decisions. The grant was awarded in September, and a final scope of work is currently being negotiated with VIMS and VMRC. A second PSM funding application regarding an Inventory and Legal Assessment of Roadside Ditches in Mathews County was not funded.

Grants Management & Reporting: The Section A, Semiannual Grant Progress Report, Section B Agency Report, and Section C Success Story were compiled and submitted to NOAA on April 30, 2015 for the reporting period of Oct. 1, 2014-Mar. 31, 2015. 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, 2015-Sept. 30, 2015. The CZM Manager and Coastal Planner monitored grant activities through phone calls and 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 conducted routine project management and planning and participated in the installation of a native plant landscape at Captain Sinclair's Recreation Area in Gloucester County.

Performance Measures: In September, CZM staff solicited information from the necessary sources to assist in completing the Oct. 1, 2014 – Sept. 30, 2015 Performance Measures report.

Mid-Atlantic Regional Council on the Ocean and Regional Planning Body Documents: In May, the VA CZM Manager became Chair of MARCO and led the every other Wednesday conference calls. She continued as Co-Chair of the RPB's Data Synthesis Work Group overseeing development of and implementation of two MARCO contracts: marine life data synthesis and human use data synthesis. Held a workshop on July 13 and Sep 22 on data synthesis. Final products are expected by Dec 31 2015. She also became "champion" of the RPB's Healthy Ocean Ecosystem actions for the Ocean Plan as well as the Portal actions and presented concepts at the Sep 23-24 RPB meeting (see: <http://www.boem.gov/MidA-RPB-Meetings/>). Drafts of those actions are due to the RPB in December. She was interviewed for Surfrider's video on ocean planning: <https://vimeo.com/126415192>. She also continued to manage the BOEM contract on Collaborative Fisheries Planning for VA's Wind Energy Area holding port visits with UK and RI fishermen and a workshop on best management practices. See <http://www.deq.virginia.gov/Programs/CoastalZoneManagement/CZMIssuesInitiatives/OceanPlanning/FishingandVirginiaOffshoreWind.aspx> for more info. She also participated in a June 23-25 Mid-Atlantic regional marine debris conference and on June 26 briefed the Secretary of Natural Resources on Mid-A ocean planning efforts and timeline.

309 Needs Assessment and Strategy: The Final 2016-2020 Section 309 Assessment and Strategy was completed and submitted on October 19, 2015. It is now available for public comment through Nov 21 at: <http://www.deq.virginia.gov/Programs/CoastalZoneManagement.aspx> and <http://townhall.virginia.gov/L/ViewNotice.cfm?gnid=570>.

Outreach Materials: The CZM Program Manager and Coastal Planner 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.

**312 Metrics & Evaluation Materials:**

CZM staff prepared presentations for the NOAA evaluation team on multiple topics and held a public meeting in May. Information was gathered from VIMS staff and updates were made for the 312 Metrics report due Oct. 30.

Final Products	% Completion	Anticipated Completion Date
Policy Products	100	
RPCs and Amendments	100	
Grant Management & Reporting	100	
FY 2015 CZM Grant Application	100	
FY 2015 CELCP and Section 309 PSM Grant Applications	100	

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### Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141 for the period from #Name?

Performance Measures	100
MARCO and RPB Documents	100
Outreach Materials	100
Section 312 Evaluation Materials	100
309 Needs Assessment & Strategy	100

Task: 1.01 Virginia Institute of Marine Science - Chesapeake Bay National Estuarine Research R				Current Federal Total: \$112,368.00
Coastal Management Support				
<u>Project status:</u>		<u>Current approved</u>		<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:	
	10/1/2014	9/30/2015	12/31/2015	

Progress on all tasks, except MARCO-CCAT, 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-CCAT state representatives through periodic calls. The CCAT evaluated proposals for climate change adaptation funds obtained through a \$340,000 grant from the U.S. Fish and Wildlife Service through the North Atlantic Landscape Conservation Cooperative. Grants were awarded to the Environmental Law Institute and to the National Wildlife Federation to undertake separate projects to advance the use of natural and nature based features as climate change adaptation techniques in the Mid-Atlantic.

Task: 1.02 Virginia Commonwealth University				Current Federal Total: \$92,717.00
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
Closeout	Start:	End:	Closeout:	
	10/1/2014	9/30/2015	12/31/2015	

**VCU CES staff:**

- Performed Coastal Gems maintenance including installing software/security updates and refreshing map services as necessary. Using symbolized data provided by Coastal GIS Coordinator, updated three in production GEMS layers and added a new map service containing five new layers to the application. From April 1, 2015 to September 30, 2015, Coastal GEMS received 557 visits from 356 unique visitors with an average site visit time of 1 minute and 37 seconds. Coastal GEMS can be accessed online at: [www.coastalgems.org](http://www.coastalgems.org).
- The Coastal GIS Coordinator:
  - Assisted on various aspects of the BOEM/DMME funded, VA CZM led, VWEA Collaborative Fisheries Planning Project including: actively participating in project team and outreach meetings, staffing pGIS sessions with fishermen, creating project specific spatial data, and printing large scale map layouts for display at public meetings
  - Created multiple maps highlighting CZM projects at CZM staff request for inclusion in presentations and printed materials prepared for 2015 CZM Section 312 Evaluation meetings
  - Obtained tabular population data from the Demographics Group at the UVA Weldon Cooper Center and used to create spatial data optimized for display on the GEMS application. Provided VCU CES staff with a symbolized ArcGIS map package to create a new Coastal Population map service available through Coastal GEMS and created GEMS fact sheets for the new population layers, incorporating information and links about the data and how it was created
  - At request of MARCO staff, consulted on the use of participatory GIS to map tribal uses of the mid-Atlantic ocean
  - Worked with ANPDC staff to create maps for their Seaside SAMP report including maps of commercial fishery landing values on the seaside utilizing VMRC data as well as labeled map layouts portraying intensity for various commercial fishing uses on the seaside created by digitizing/processing hand drawn data provided by commercial fishermen denoting their activity within state waters
  - Coordinated with NOAA staff and VGIN staff to ensure that state priorities for high resolution elevation data acquisition in coastal VA were reflected in NOAA priorities submitted to USGS for use in evaluating and ranking proposals for their 3D Elevation Program
  - Worked with VMRC Conservation and Replenishment staff on maps used for oyster harvest enforcement in the Rappahannock River, James River, Great Wicomico River, and Mobjack Bay including updating six existing map layouts and producing four new maps by creating spatial data from VMRC regulation text
  - Responded to all data requests in a timely manner, including in this evaluation period, requests from federal and state agencies, planning district commissions, academic institutions, and private contractors

Final Products	% Completion	Anticipated Completion Date
Coastal GEMS Application Maintenance	100	September 30th, 2015
Coastal GEMS Data Management	100	September 30th, 2015
Coastal GIS Coordination	100	September 30th, 2015
Coastal GEMS Training and Outreach	100	September 30th, 2015
GIS Map Products and Services	100	September 30th, 2015

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**Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
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Task: 1.03	Dept. of Environmental Quality	Current Federal Total: \$96,754.00	
Virginia CZM Program Outreach & Social Marketing			
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:
	10/1/2014	9/30/2015	12/31/2015

**Grant Management:**

- Reconciled FY 12 Task 1.03 grant expenditures in preparation for closing out this task; prepared final report.
- Drafted Section C on Virginia Marine Debris Reduction Plan and marine debris monitoring efforts and native plant marketing projects.

**General Coordination:**

- Participated on CB Citizen Stewardship Team which is developing a Citizen Stewardship Indicator – measuring leadership, volunteerism and physical behaviors/actions.
- Continued to serve on VRUEC which is implementing actions called for Executive Order (42) on “Establishing the Virginia Environmental Literacy challenge”. Drafted new sections for Virginia Natural Resources Directory on Virginia Atlantic Coast and Ocean, Marine Debris and Native Plants including actions/behavior change steps for schools/communities as it relates to marine debris and other czm issues
- Distributed VACZM e-news on development of 309 strategies; revised workshop and 309 web pages to reflect the update.
- Work on the CZM magazine was delayed due to staff workloads. An extension will be requested in order to complete the magazine in Spring 2016.

**Outreach and Social Marketing Strategies:**

- Marine Debris: Worked with program manager to prepare July 2015 marine debris month gubernatorial proclamation and drafted press release to highlight publication of VA Marine Debris Reduction Plan and proclamation – sent to SNR office but not released; Served on DEQ committee to create new natural resource agency exhibit at Virginia State Fair and designed marine debris panel for exhibit and content for public pledge not to release balloons and pledge to plant native; Designed new logo for 2016 Virginia Marine Debris Summit and drafted save-the-date; Arranged MARCO and Clean VA Waterways presentations staff at Sept Hampton Roads Alliance for EE in VA Beach to highlight ocean planning, VA Marine Debris Reduction efforts and monitoring; Displayed at event and led discussion with partners about opportunities to partner on balloon SM campaign.
- Balloon Reduction Campaign: Coordinated with CVW and OpinionWorks to conduct quantitative and qualitative research on balloon release, including: created script to interview retailers; design and distribution of written survey (still being circulated with partner help; over 700 responses to date); thematic analysis of release mention in social media – e.g. wedding blogs; preparation (scripting, recruitment and logistics) and facilitation of two focus groups in Richmond in June – virtually with school administrators and in person with public (meetings held in Sept with regional partners to schedule additional focus groups in Hampton Roads by end of November); and, created PP developed and co-lead June webinar for interested partners highlighting research findings to date and next steps. Created fact sheet about campaign and new exhibit panels. Coordinated with regional partners on continued distribution of survey and use of exhibit at public events.
- Native Plants: Coordinated with Virginia Native Plant Partners to draft a 2016-2020 Action Plan, including immediate actions such as review plant list in E&S manual. Designed logo for partnership. Responded to requests for information on this collaborative effort, including from University of MD Extension staff who included VA materials in training of MD nurseries and landscape professionals, and from the Long Island Native Plant Initiative, who invited us to present at symposium but travel for partners was prohibitive on date in Oct – a future meeting between the initiatives is planned. Exhibited at annual VNLA Field Day in Aug – best event to network with VA growers. Met in July with DGIF, DCR and Wetlands Watch staff regarding Action Plan revisions and next steps in development of native plant module for conservation landscaping certification to be piloted in VA and MD in early 2016 – interest in and demand for native plant module by industry and local govts exceeds other module topics. Continued to consult with partners of Plant NOVA Native and Plant NNK Natives campaigns. Helped draft grant proposal and timeline for George Washington campaign. For NOVA: completed edits to Plant NoVA Natives guide prior to 2nd and 3rd printings and coordinated print production; designed signage for homeowners and businesses to display in their native plant landscaping; provided ½ dozen sets of exhibit panels for use in displays at numerous events – up to 20 in two week period in spring. Arranged presentations to Hampton Roads partners in May about partnership and NOVA and NNK campaigns as the HRPDC completes its grant to assess regional native plant use and availability and develop a strategic plan; discussed with regional partners proceeding with production of regional guide and some marketing materials, such as garden center signage, using existing funds until other funds available.

**Other Events and Training:**

- Worked with ESRCDC to plan/conduct July “BMP Lite” events. Presented on CZM projects at ES Watershed (regional partner) Roundtable meeting and made public presentation about use of native plants. Helped coordinate tour of ES BMP demo projects including CZM-funded projects; EPA Chesapeake Bay Director participated in events, SNR Molly Ward called into roundtable meeting
- Participated in NOAA 312 Evaluation

**Other Signage and Exhibits:**

- Designed and coordinated production of new interpretive 6-panel kiosk and fish ID signs for installation at Town of Cape Charles pier.

Final Products As Outlined in Scope of Work	% Completion	Anticipated Completion Date
Outreach and Social Marketing Strategies	100	9/30/15
Printed Media – magazine production delayed □	50	3/30/16
Events and Training	100	9/30/15
Electronic Media	100	9/30/15

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Task: 2	Back Bay Restoration Foundation Virginia Beach Watersheds Forum	Current Federal Total:	\$2,500.00
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start:      End:      Closeout:		
	10/1/2014    9/30/2015    12/31/2015		

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 2015 Virginia Beach Watersheds Forum on March 30, 2015, for 100 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. Feedback forms were handed out after the presentations in addition to a follow-up e-mail. BBRF collected the feedback forms and e-mails for one month following the forum.

In early April, BBRF uploaded the presentations to the BBRF and LRNow websites. BBRF sent an email out to attendees notifying they could view the presentations online or request a CD. The presentations can still be found on the BBRF website, as well as previous Forum presentations.

BBRF and LRNow staff met in June and September to analyze the feedback forms and generate ideas for the future. After reviewing the feedback forms, the most consistent recommendations were in regards to the catering and type of presentations. Both times we have held a Forum at the Virginia Beach Convention Center, people were not pleased with catering. Since we are required to use their caterers, the only thing to do is change locations. The second most common feedback suggested BBRF bring in more scientific presentations related to Back Bay. Three years ago, we included LRNow to do a Virginia Beach Watersheds Forum. Several people preferred it to be Back Bay specific. Next time, BBRF discussed opting for watershed specific rooms.

In September, BBRF finalized its Action Plan. The plan included soliciting more watershed specific speakers instead of targeting presenters that represent all Virginia Beach watersheds as a whole and considered holding the forum every other year to give more time for new information. In addition, BBRF modified and built on the plan from last year regarding pollution prevention and outreach activities. BBRF has already implemented social media to assist in outreach. In doing so, BBRF has increased its social media network following and reach by 40%. BBRF plans to share outreach events, watershed information, local updates, pollution prevention tips, etc.

Final Products	% Completion	Anticipated Completion Date
Deliverables: Forum registration form, agenda, program and nametags	100	30 March 2015
Deliverables: Action Plan	100	30 June 2015
Deliverables: Addition of work, presentations, summations on website	100	30 June 2015
Deliverables: Result Compilation and Analyses	100	30 September 2015

Task: 3	Dept. of Environmental Quality - Environmental Impact Review EIR and Federal Consistency	Current Federal Total:	\$222,426.00
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start:      End:      Closeout:		
	10/1/2014    9/30/2015    12/31/2015		

During the period of April 1, 2015 and September 30, 2015, the Office of Environmental Impact Review/Federal Consistency (OEIR) reviewed 83 development projects and management plans for consistency with the Virginia Coastal Zone Management Program (VCZMP). This represents 79% of the total amount of projects reviewed (105) during this period. Major state projects accounted for 22 projects, 40 were federal actions, and 43 were federally funded projects. The 40 federal actions included 15 federal agency activities, 25 federal licenses and approvals, and 0 outer continental shelf projects. The 15 federal agency activities included 6 projects submitted under the residual category pursuant to the federal consistency regulation (15 CFR 930.31©), all of which consisted of U. S. Department of Housing and Urban Development (HUD) mortgage insurance projects. All federal consistency determinations and federal consistency certifications were completed within the established legal deadlines.

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.

Final Products	% Completion	Anticipated Completion Date
Federal consistency, Sections A and B Semiannual Reports	100	September 30, 2015
Consistency Information/Outreach Efforts	100	September 30, 2015

Year: 2014

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
for the period from #Name?

Task: 4	Dept. of Environmental Quality	Current Federal Total:	\$0.00
WQIF Match - City of Richmond Treatment Plant Upgrade			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start:      End:      Closeout:		
	10/1/2014    9/30/2015    12/31/2015		

Construction of the City of Richmond's wastewater treatment plant upgrade with enhanced nutrient removal technology has been completed. Construction began in December 2008. To-date, \$47,858,838 of the \$50,131,031 grant has been paid to the City.

In the period since October 2014, reimbursements totaling \$3,284,960 have been made to the City for this project, which exceeds the \$943,322 in State General Funds needed to provide a match for the Coastal Zone Management Program.

Final Products	% Completion	Anticipated Completion Date
Certificate to Operate – City of Richmond nutrient reduction upgrade	100	Completed

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
Closeout	Start:      End:      Closeout:		
	10/1/2014    9/30/2015    12/31/2015		

During the reporting period, VMRC received a total of 1010 joint permit applications. Actions were completed on 928 projects, some of which were received prior to the reporting period. During the reporting period, 161 compliance inspections were conducted for previously issued permits. Also, 91 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 170 projects involving tidal wetlands. Of this total, 133 were approved as proposed, 33 were approved as modified, 0 were denied, 1 is pending, 1 was inactivated, 2 no permit was required, and 32 required compensation either on or off site (15) or through payment of an in lieu fee (17) accounting for 28,548 square feet of tidal wetland impacts.

Final Products	% Completion	Anticipated Completion Date
Subaqueous Lands and Tidal Wetlands Permit Program	100	September 2015
Permit Compliance Evaluation	100	September 2015

Year: 2014

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
for the period from #Name?

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	
Closeout	Start:      End:      Closeout:		
	10/1/2014   9/30/2015   12/31/2015		

DCR worked with NatureServe to update the Natural Heritage Data Explorer Species and Community Search to include a coastal zone filter (<https://vanhde.org/species-search>).

The Locality Liaison held training sessions in April, June and August 2015 for three consultants, two non-profits, five state agencies (9 individuals) and one federal agency from out-of-state. The presentations included an overview of DCR's Natural Heritage Program, the Locality Assistance Program, the Virginia ConservationVision, Landscape, the Virginia Wetlands Catalog, Virginia Ecological Value Assessment (VEVA) and hands-on training on the Natural Heritage Data Explorer (NHDE), which includes the Species and Community Database Search, conservation lands information and project review preliminary screening functions.

The Locality Liaison worked with the database specialist to improve tracking of Natural Heritage Data Explorer license agreements.

The Locality Liaison created a featured natural heritage species to be highlighted quarterly on the Locality Assistance webpage.

- For 4/01/15 through 9/30/15, 435 projects were reviewed for impacts to natural heritage resources in the coastal zone (47% of the projects reviewed statewide). 175 projects were submitted through the Natural Heritage Data Explorer representing 34% of the coastal projects submitted.

- 91% 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](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, 2015
Locality Assistance Program Presentations	100	September 30, 2015
Improvements to Natural Heritage tools	100	September 30, 2015
Final Report	100	November 15, 2015

## VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM

Year: 2014

Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
for the period from #Name?

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	
Closeout	Start:      End:      Closeout:		
	10/1/2014   9/30/2015   12/31/2015		

**Product #1, General Technical Guidance:**

As of Nov 2014, Wetlands Program personnel returned to writing VIMS Reports for all Joint Permit Applications involving shoreline erosion control activities advertised on local wetlands boards' agendas. The advice provided in the new VIMS Report is the preferred shoreline best management practice derived from the CCRMP's (for localities where available) and/or the applicable CCRM Decision Trees. The reports are made available on CCRM's and VMRC's permit websites in addition to being emailed to the local wetlands board members and staff, property owner, agent, and contractor. In addition, other advisory information requests were received and handled covering a variety of coastal management issues. This technical advice continues to be tracked in a database maintained under this grant.

JPA Reviews/ VIMS Reports = 159

Living Shoreline Advice = 19 (7 included site visits)

Other Advisory Information Requests (climate change, mitigation, etc.) = 55

Total = 233

**Product #2, Outreach Education:**

CCRM e-News April 2015 (VA Wetlands Report, Workshop Registration, Garden Club of America Scholarship)

CCRM e-News July 2015 (Living Shoreline General Permit, Workshop Presentations, Tidal Marsh Inventory)

CCRM e-News Sept 2015 (Rivers & Coast, Announcing SAGE, CCRM Sponsors Virginia Master Naturalist Program)

Rivers & Coast, Vol. 10 – Marine Debris & Microplastics: Sources & Solutions for Coastal Virginia

<http://ccrm.vims.edu/publications/pubs/rivers&coast/RC915.pdf>

6/05/15 – Tidal Wetlands Workshop – Adaptive Management for VA's Tidal Shorelines – 72 people

Although not included in the grant task, additional outreach education training was completed for CCRMP orientation & Shoreline Best Management Practices. Five CCRM training sessions were held for a total of 125 participants.

**Product #3, Public Permit Records Website Report:**

Website Activity/Hits, Apr – 31, May – 24, Jun – 33, Jul – 35, Aug – 14, Sep – 21

The Center for Coastal Resources Management has stopped populating our digital permit records website as of January 2015. We continue to maintain and serve complete historical records for Joint Permit Applications with VMRC assigned numbers for years prior to 2010, including any additional information that may still be generated for those records. This searchable database is available here:

<http://ccrm.vims.edu/perms/newpermits.html>. The Virginia Marine Resource Commission (VMRC) is now serving permit records at this website

<https://webapps.mrc.virginia.gov/public/habitat/>. Use the VMRC website to access information regarding JPA records, including associated VIMS Wetlands Reports starting with the year 2010 to the current date.

Final Products	% Completion	Anticipated Completion Date
Product #1, General Technical Guidance	100	30 Sep 2015
Product #2, Outreach/ Education	100	30 Sep 2015
Product #3, Public Permit Records Website Report	100	30 Sep 2015

Task: 8	Virginia Institute of Marine Science	Current Federal Total:	\$60,000.00
2014 Submerged Aquatic Vegetation Distribution and Abundance Survey			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report	
Open	Start:      End:      Closeout:		
	10/1/2014   12/31/2015   3/31/2016		

VIMS has successfully completed ortho-rectifying all flightlines, mosaicing all the quadrangles, and photo-interpreted SAV on all quadrangles for the Chesapeake Bay. VIMS submitted the baywide 2014 SAV numbers on July 15. The 2014 SAV data can now be viewed at: <http://web.vims.edu/bio/sav/sav14/index.html> and also on the interactive map: <http://web.vims.edu/bio/sav/maps.html>.

Final Products	% Completion	Anticipated Completion Date
Draft Final Report	50	July, 2015
Final Report	0	Dec., 2015

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Task: 9	Dept. of Conservation & Recreation - Natural Heritage	Current Federal Total: \$27,000.00						
Healthy Waters Program in the Coastal Zone								
<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>10/1/2014</td> <td>3/31/2016</td> <td>6/30/2016</td> </tr> </table>	Start:	End:	Closeout:	10/1/2014	3/31/2016	6/30/2016	
Start:	End:	Closeout:						
10/1/2014	3/31/2016	6/30/2016						

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 at the Virginia Department of Conservation and Recreation, Division of Natural Heritage.

The Healthy Waters Program is supported through funding from several grant sources including the VA CZM Section 306, US EPA 319 Nonpoint Source Program, and the Chesapeake Bay Implementation Grant. These sources fund various aspects of the Program including the administration and oversight, Program growth and expansion, improvement in capacity, acquisition and analysis of new data and data integration.

Programmatically, the assessment of program resources and needs has continued to determine gaps and areas of improvement. Data integration, geographic expansion and data re-sampling were the 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 development of new data to complete the statewide coverage, and 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 increased capacity in the program is a critical advancement in the program within the Division of Natural Heritage and is planned to continue for the 2015 sampling season. This increased capacity permits the collection of data by additional field personnel aside from specific grant related activities. The field personnel conducted field assessments with VCU Biologists in the locations of Madison, Fauquier and Hanover Counties. While two of those are not in the Coastal Zone, they all provided sampling in locations that had previously been sampled by VCU Biologists but the data were determined to be old enough to warrant a resample. This process provides the Healthy Waters Program the ability to identify and track trends in Healthy Waters.

During the reporting period, the Program Manager continued to participate in the Chesapeake Bay Management Strategy development process to coordinate the involvement of VA Departments of Conservation and Recreation, Environmental Quality and Forestry. The Chesapeake Bay Program identified three management measure outcomes for the Healthy Waters Goal Implementation Team Four (GIT4) that included: Healthy Waters, Land Use Metrics and Land Use Options Evaluation. The Bay Program sent the overall strategies out for public comment in mid-summer with the anticipated development of State two-year workplan strategies to begin in the winter of 2015. During this reporting period, the Goal Implementation Team for Healthy Watersheds released a limited Request for Proposals for projects to be implemented under the GIT. The VDCR DNH submitted a proposal to develop a Healthy Waters tracking mechanism using the soon to be completed vulnerability model and to pilot the use of the Criteria for Ecologically Healthy Watershed Conservation in a threatened watershed. The VDCR DNH Healthy Waters Program also provided critical comments and review on all the proposals submitted under this limited RFP.

Through funding from EPA 319, the Program Manager continued to manage the process by which watersheds and waterbodies are identified as Healthy and how the Program communicates outward. The Watershed Integrity Model, used and developed by the Natural Heritage Division and VCU, has been identified to be updated and streamlined to improve the utility.

The Healthy Waters Program Manager also updated the 2014 Chesapeake Bay and Virginia Waters Clean-up Plan, also referred to as the Consolidated Water Quality Report. Key points in the update included identifying broadening partnerships with the VA Department of Forestry to expand the applicability of the Healthy Waters Program and identification of ongoing strategies to achieve the 2025 Chesapeake Bay Goal of 100% of State Identified Healthy Waters Maintained.

Also supported through this grant is the acquiring of materials to support the VA Oyster Shell Recycling Program. During the reporting period, decals with Program logos, tagline stickers and banners were developed to continue to increase awareness of the Program. Those materials were seen at the Shockoe on the HalfShell Oyster Festival and throughout the Commonwealth, including the Executive Mansion. The VOSRP was also invited to participate in the VA Oyster Trail and have information relevant to shell recycling made available at various events, venues and on the VOT web.

Final Products	% Completion	Anticipated Completion Date
Healthy Waters Program Growth and Admin	10	Sept, 2015
Healthy Waters Capacity Development	15	Sept, 2015
Healthy Waters resampling in the Coastal Zone	3	Sept, 2015
Estuarine Healthy Waters, Oyster replenishment in the Coastal Zone	0	Sept, 2015

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2014**

**Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
for the period from #Name?**

Task: 10	Dept. of Conservation & Recreation	Current Federal Total: \$117,351.00	
A Beautiful Woods - the Fee Purchase of 36.9% of a 1.145 acre dune woodlands to expand the Pickett's Harbor Natural Area Preserve, No			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Attached	
Closeout	Start:	End:	Closeout:
	10/1/2014	9/30/2015	12/31/2015

All work was completed on this task. Please see attached final report.

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:
	1/1/2015	3/31/2016	6/30/2016

**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. Initial seed counts in July were approx. 8 million seeds. Our plan was to distribute seeds the last week of September but windy weather forced us to cancel field work that week. Faunal samples were collected in South Bay in June, while fishes were sampled in May, June, July, August, and September. Eelgrass area in the coastal bays increased 33% from 2012 with 4640 acres mapped in 2012, increasing to 6195 acres in 2015.

**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 23, May 26, June 22, July 21, August 24 and September 17, 2015 for the South Bay, Cobb Bay, Spider Crab Bay and Hog Island Bay restoration areas. Taking similar measurements as the dataflow cruises, but taken at 15 minute intervals, the continuous water quality monitoring in South Bay and Spider Crab Bay were finally installed and operational again as of September 9, 2015. These stations were destroyed in February during heavy icing conditions in the Coastal Bays. Real-time data are still not available as weather has not permitted the installation of the telemetry equipment and towers.

**Scallop Restoration:** Three scallop spawns were conducted at the VIMS Eastern Shore Lab (ESL) during April and May, resulting in 120,000 scallops being placed into cages in the grassbed in South Bay in mid-summer. Another spawn in September 2015 at the ESL produced another 245,000 scallop seed that are destined to be placed in cages in the South Bay grassbed during Fall 2015. In addition, VIMS staff worked with a commercial shellfish hatchery in the region to produce scallop seed from the Virginia scallop stocks. 200,000 of these seed were then purchased with support provided by the ACOE and the Nature Conservancy. Current plans are to release 100,000 of these scallops into Cobb Bay in early October 2015 and retain an additional 100,000 in cages in South Bay through the winter.

During the week of July 13-17, VIMS staff conducted an extensive survey of wild (not caged) adult scallops in three grass beds—the original grassbed in South Bay grassbed in which most of the scallops have been caged or released (1354 acres), a newly established bed further south in South Bay (603 acres) and a grassbed in Cobb Bay (779 acres). These beds were found to contain estimated adult scallop abundances of 103,444, 53,688 and 84,376, respectively, for a total abundance of over 240,000 adult scallops. These data indicate that the bay scallop population is continuing to grow and expand spatially through the region.

Final Products	% Completion	Anticipated Completion Date
Final Report	0	May 15, 2016

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2014**

**Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
for the period from #Name?**

Task: 41	Accomack-Northampton Planning District Commission			Current Federal Total:	\$30,000.00
A-NPDC Technical Assistance Program					
<u>Project status:</u>	<u>Current approved</u>			<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:		
	10/1/2014	9/30/2015	12/31/2015		

**Climate Adaptation Working Group Newsletters**  
Newsletters were distributed to over 500 subscribers in May and August including numerous research and news items.

**Coastal Management Trainings**  
A-NPDC has successfully directed 8 events reaching 197 people. Trainings included educational activities regarding ground water, surface water quality planning, and coastal resiliency and events including collecting household hazardous waste to protect the regional sole source aquifer.

**Technical Assistance**  
A-NPDC coordinated a GIS Users Group and served on local & state committees including the ES Environmental Education Council, ES Watersheds Network, and VCZM Coastal Policy Team. A-NPDC continued overseeing a comprehensive survey and strategic planning process for rehabilitating properties lacking indoor plumbing.

**Groundwater Committee**  
A-NPDC coordinated two groundwater public workshops in June and October to educate the public on localized groundwater issues. The committee is exploring options to create a public workshop specifically focusing upon the issues of poultry and groundwater concerns. Two groundwater permits were reviewed, one in January and one in March. Sample results of the Virginia Household Water Quality Program were reviewed. Results of the Virginia Tech Household Water Quality Sampling were presented to the committee and used to assess spatial distribution in GIS. The committee also reviewed final regulatory Bills and Joint Resolutions passed under the General Assembly.

**Eastern Shore Water Access Authority Development Facilitation**  
After conducting research on similar Access Authorities and holding initial discussions with individual county representatives, it was requested that the A-NPDC not proceed with the planned activities. As a result, the A-NPDC has developed a report summarizing all completed activities.

**Shore Big Tree Program Outreach and Implementation**  
A-NPDC successfully gained interest from two local governments, Exmore and Parksley. A-NPDC is developing a design and maintenance plan for both. Accomack County Public Schools has also expressed interest in planting one tree at each school. A-NPDC is awaiting a decision by the school board on budgetary restrictions in regards to the plantings. Other places reached out to include the Eastern Shore Community College, Onley, Northampton County, and Cape Charles.

**Benefits Accrued from Prior CZM Grants Report –** The report has been updated to include FY14 activities.

Final Products	% Completion	Anticipated Completion Date
Climate Adaptation Working Group Newsletter Report	100	9/30/2015
Coastal Management Training Report	100	9/30/2015
Technical Assistance Report	100	9/30/2015
Ground Water Committee Report	100	9/30/2015
Eastern Shore Water Access Authority Development Facilitation	100	9/30/2015
Shore Big Tree Program Outreach and Implementation	100	9/30/2015
Benefits Accrued from Prior CZM Grants Report	100	9/30/2015

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2014**

**Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
for the period from #Name?**

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
Closeout	Start:      End:      Closeout:		
	10/1/2014    9/30/2015    12/31/2015		

(1) Crater PDC staff processed 24 environmental impact reviews for local, state, and federal projects. (2) One coastal meeting/training session was held during the reporting period (6/18/15). Topics of discussion were the Virginia Draft 2015 Wildlife Action Plan, the Appomattox River Interpretive Guide Update, the VCU Development Tracker, and the Crater PDC Rural Transportation Planning Program. (3) Crater PDC staff coordinated and administered regional review of the State Water Resources Plan, the Virginia Draft 2015 Wildlife Action Plan, and the Appomattox River Recreation and Economic Development Plan. (4) Commission staff participated in several environmental planning efforts pertaining to stormwater regulations, solid waste and recycling, the James River National Wildlife Refuge, Chesapeake Bay TMDL, the Greater Richmond Environmental Educators Network (GREEN), 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 4/25/15 RiverFest event and its continued strategic planning process. (6) Staff composed the latest version of the Appomattox River Interpretive Guide. Staff also updated and produced internet and smart phone applications for the Appomattox River Interpretive Guide.

Final Products	% Completion	Anticipated Completion Date
Environmental Impact Review Comments	100	9/30/15
Coastal Meetings	100	10/14/15
Coastal Training	100	10/14/15
FOLAR Assistance	100	9/30/15
Benefits Accrued From Prior CZM Grants	100	9/30/15

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
Closeout	Start:      End:      Closeout:		
	10/1/2014    9/30/2015    12/31/2015		

**Environmental Impact Review.** Twenty-five (25) 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, six (6) entries related to coastal resources management were posted to the HRPDC website. HRPDC hosted the APA's AICP webinar series (3 sessions), coordinated with Old Dominion University on a NOAA training session on coastal inundation mapping methods, and coordinated with Old Dominion University on two Hampton Roads Adaptation Forum meetings (2 sessions).

**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 developed regional consensus on state and federal regulatory and legislative issues, coordinated plans addressing these issues, and exchanged information on program activities. During this period, five (5) meetings were held of the Regional Environmental Committee (REC). Topics covered included regional studies and projects, sea level rise, the Chesapeake Bay Program, local plans and projects, and stormwater management BMPs, and native plants.

**Regional Technical Studies and Assistance.** HRPDC staff completed work on two special projects. The first was a summary of local floodplain management ordinances. The second was an assessment of different methodologies that could be used to estimate the economic impacts of sea level rise.

**Benefits Accrued from Prior CZM Grants.** HRPDC staff summarized the continued benefits of CZM grants addressing sea level rise and climate change impacts on regional programs and projects.

Final Products	% Completion	Anticipated Completion Date
EIA/EIS and Coastal Consistency Review	100	September 30, 2015
Public Information, Education, and Training	100	September 30, 2015
Regional Coordination Process	100	September 30, 2015
Regional Technical Studies and Special Projects	100	September 30, 2015
Benefits Accrued from Prior CZM Grants	100	September 30, 2015

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2014**

**Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
for the period from #Name?**

Task: 44	Middle Peninsula Planning District Commission	Current Federal Total:	\$30,000.00
Middle Peninsula Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:
	10/1/2014	9/30/2015	12/31/2015

Product #1- Coastal Management Policy and Support: MPPDC staff continued to provide coastal management support to local government elected officials on floodplain management, wetland protection and restoration and storm water management. MPPDC Executive Director received a request from DEQ Director David Paylor to participate in the DEQ 1.) Storm water Advisory Group (SAG) to consider ways to streamline and consolidate the Commonwealth's current stormwater and erosion and sediment control and to identify any needed statutory changes. 2.) Eastern Virginia Groundwater Management Advisory Committee Credit and Banking sub-committee to examine options for developing long term alternatives to address water resources challenges across the Commonwealth. On May 19th, MPPDC staff in collaboration with Old Dominion University, Wetlands Watch and College of William and Mary Coastal Policy Clinic conducted a training workshop for Middle Peninsula realtors, property owners and the banking community to understand the FEMA Flood Insurance Reform on coastal property sales and insurance premiums. MPPDC staff applied for FEMA Flood Mitigation funds to assist a homeowner in Essex County with alterations to their home located in a repetitive flood loss area. MPPDC staff provided research assistance to the Town of West Point on septic modification triggered by a change in land use.

Product #2 - Convened Meetings: MPPDC staff convened monthly-quarterly meetings with local government administrators and local planners. Local Government Administrators meetings (5) included discussion on funding opportunities for local projects, Chesapeake Bay Local Ordinance update and storm water management requirements. Local Planners meetings (2) discussion topics included VDOT's HB2 process and local storm water management programs. MPPDC staff convened a special meeting of local governments across the Middle Peninsula, Northern Neck, and Eastern Shore of Virginia and DEQ to discuss potential changes to the Virginia Stormwater Management Program, which many rural coastal local governments opted out of administering at the local level.

Product #3 – Middle Peninsula Chesapeake Bay Public Access Authority (PAA) MPPDC and VCU finalized the Captain Sinclair Master Plan in May 2015 which featured both passive and active features and is available for review at www.mppaa.com. Because of our expertise in addressing public access issues, MPPDC was contacted by a commercial charter boat captain from Gloucester County concerning an issue of public access on the Barrier Island sand spit located on the Eastern Shore of Virginia. MPPDC staff consulted with Tony Watkinson, Chief of Habitat Management for the Virginia Marine Resources Commission, concerning issues regarding ownership and public access being prohibited by the Nature Conservancy to Dawson Shoal located outside of the Wachapreague Inlet. MPPDC staff coordinated with Curt Smith, Director of Regional Planning at the Accomack-North Hampton PDC, for further assistance. It was later determined that TNC did not own Dawson Shoal. TNC did the research on the quitclaim they had acquired from the original quitclaim and found it was invalid and turned over to MRC.

Final Products	% Completion	Anticipated Completion Date
Coastal Management Analysis and Policy Support	100	September 30, 2015
Local Planning Coordination	100	September 30, 2015
MP CBPAA Work Plan & Support for Online Facility Reservation System	100	September 30, 2015
Benefits accrued from prior Coastal Zone Management funding	100	September 30, 2015

Year: 2014

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
**Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141**  
**for the period from #Name?**

Task: 45	Northern Neck Planning District Commission	Current Federal Total:	\$30,000.00
Northern Neck PDC Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:
	10/1/2014	9/30/2015	12/31/2015

NNPDC staff assisted Northumberland County in the revision of their comprehensive plan, by updating more than 25 maps contained in the Comprehensive Plan. New map information was used to update the maps when possible, and though this was not a specific task in this grant, all of the maps will be detailed in the Coastal Management Support subtask. Local coordination and training meetings were held on 7/21/15, 8/27/15 and 9/17/15. NNPDC completed dissolving the boundaries of the current GIS zoning layer for Northumberland County and have created a single layer for zoning information for use in the county's GIS system. This zoning layer will be much easier to use than having to load all of the 54 tax maps, and easier to update when zoning changes are made. NNPDC staff completed two new water trails guides for Northumberland County, one for Cockrell Creek near Reedville and one on the upper reaches of the Coan River featuring steamboat landings. The new water trail guides will be added to the other NNK water trails on the Northern Neck Tourism Website. NNPDC staff issued a press release in May from the Northern Neck Chesapeake Bay Access Authority that highlighted a recent estate donation, and announcing the Northern Neck Water Trail website. None of the local papers published the release. NNPDC staff resissued the press release in early July and three of the four local newspapers published the press release. NNPDC staff coordinated with the Northern Neck Tourism Commission (NNTC) and the staff of Belle Isle State Park to paddle part of the Mulberry/Deep Creek Water Trail in July and document the experience for another press release. NNPDC staff launched at the Belle Isle State Park cartop boat launch on Mulberry Creek and paddled from there to the newly created paddle-in primitive camp site at the mouth of Mulberry Creek in Belle Isle State Park, taking photos along the way. Wildlife observed and photographed (when possible) were ospreys, blue herons, seagulls and a couple croaker. NNPDC staff sent the Mulberry Creek water trail press release to the local newspapers, along with six photographs, and none of the newspapers published the story. One newspaper expressed interest in using the story for their summer supplement that is geared to tourists, but if published, would be after the grant period ended. NNPDC staff coordinated with NNTC staff and published the water trail experience story on the Northern Neck Tourism Facebook, Pinterest, Twitter and Tumblr account. In addition, the water trail experience, along with the six photos were uploaded on the Northern Neck Tourism blog at: <http://visitvirginiasnorthernneck.blogspot.com/> NNPDC staff also paddled and wrote about the Currioman Bay Water Trail, which is near the mouth of the Nomini Creek in the Potomac River in Westmoreland County. The Hollis Island marsh island is the focal point of this water trail. And although erosion has taken its toll, it still provides a bit of protection from the wind and waves of the Potomac River. This water trail experience story was posted to all of the above social media outlets, as well as some of the photos to the NNTC Instagram account. NNPDC staff have created a Google Earth portal on the Northern Neck Chesapeake Bay Access Authority website to explore the Northern Neck Water Trails, and sent the water trails to DCR to be added to the Virginia Outdoors Plan interactive mapping website as well.

Final Products	% Completion	Anticipated Completion Date
Coastal Management Support	100	September 30,2015
Local Planning Coordination and Training	100	September 30,2015
Northumberland County Digital Zoning Map Production	100	September 30,2015
Northumberland County Water Trail Maps/Website	100	September 30,2015
Marketing Northern Neck Water Trails	100	September 30,2015
Benefits accrued from prior CZM Grants	100	September 30,2015

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2014**

**Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
for the period from #Name?**

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
Closeout	Start:	End:	Closeout:
	10/1/2014	9/30/2015	12/31/2015

**Technical Assistance and Coordination:**

NVRC provided technical assistance to Leesylvania State Park by convening a collaborative workgroup to address shoreline erosion at the park near the Visitor's Center. The workgroup designed a living shoreline and obtained permits for the project. NVRC wrote a grant application to the National Fish and Wildlife Foundation for construction of the project at the park. The project was selected for funding and a grant in the amount of \$174,636.60 was awarded on September 25, 2015.

NVRC also continued to support the Plant NOVA Natives Campaign by coordinating monthly meetings, serving as a member of the steering committee and outreach committee, securing additional grant funds from CZM and serving as a liason between the PNN Campaign and the Virginia Native Plants Marketing Partnership. NVRC also maintained and updated the website [www.plantnovanatives.org](http://www.plantnovanatives.org).

NVRC also collaborated with the Coastal Zone Management Program and other PDC's in the Virginia coastal zone by participating in the summer coastal PDC meeting held at the Accomack-Northampton Planning District Commission and Tangier Island.

NVRC provided technical assistance to the Coastal Zone Management Program by providing input on CZM's draft Coastal Hazards Strategy.

NVRC also continued to support the Virginia Coastal Policy Team by participating in the September 29, 2015 meeting at DEQ in Richmond, VA.

**Special Project – Northern Virginia Clean Water Partners:**

During this reporting period, NVRC continued to coordinate the Northern Virginia Clean Water Partners. The partners continued their annual Only Rain Down The Storm Drain campaign which uses a multi-media approach to educate people in Northern Virginia on stormwater pollution. Five 30-second ads that feature rubber duckies aired on several networks to illustrate the importance of picking up pet waste, reducing fertilizer application and implementing other general household stormwater pollution reduction measures. One ad was translated into Spanish and is airing on several Spanish language networks. The campaign also featured banner ads on Xfinity.com and in-stream video. These cable television ads delivered 4.8 million household impressions and the digital ads delivered 895,897 impressions. NVRC also maintained and updated the website [www.onlyrain.org](http://www.onlyrain.org). This campaign fulfilled the outreach and education requirements of the jurisdictions' MS4 permits.

A post-campaign survey was conducted of 500 northern Virginia residents 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/>

NVRC hosted a Clean Water Partner's meeting on August 26, 2015 which included presentations from the Director of Research at Comcast Spotlight. Two representatives from the Department of Environmental Quality were also present at the August 26th meeting.

**EA/EIS/EIR Reviews:**

During this reporting period NVRC has reviewed several EIR requests across the region.

Final Products	% Completion	Anticipated Completion Date
Annual Report – NoVA Coastal Resources TA Program	100	September 30, 2015
Summary of Regional Stormwater Education Campaign	100	September 30, 2015
Benefits Accrued from Prior CZM Grants	100	September 30, 2015

Year: 2014

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
**Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141**  
**for the period from #Name?**

Task: 47	George Washington Regional Commission	Current Federal Total:	\$30,000.00
George Washington Regional Commission Technical Assistance Program			
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:
	10/1/2014	9/30/2015	12/31/2015

Below is a summary of the tasks completed during the fourth quarter of George Washington Regional Commission's FY14 CZM Program. The on-call consulting group continues to pursue funding for an effort to abate impacts on the Chesapeake Bay water quality. GWRC also assisted DEQ and DOF in completing a Proof of Concept study on forest retention as it pertains to serving as a future BMP. The U.S. EPA is now reviewing the results of this study. During the fourth quarter, GWRC sought out additional funding through National Fish and Wildlife Foundation Technical Grant Program to undertake the George Washington Regional Commission Green Infrastructure Plan Enhancement and Community Implementation Effort.

Also during the fourth quarter, the consultant, with assistance from Mary Washington University and an intern, have completed about all of the soil mapping project. With the stepped up timeline, the project was expanded to include all of the Virginia localities in the Chesapeake Bay watershed. The final product includes a separate GIS layer that identifies the most infiltrative soils (A&B soil ratings) in each locality that had NRCS data along with any associated attribute data. The intern and consultant have also completed developing the metadata and conducting QC and QA on the GIS information.

Lastly, GWRC helped coordinate and sponsor the Rappahannock River Basin Summit, held on September 23, 2015 at Mary Washington University, Stafford Campus. Over 75 participants attended and were briefed on a wide variety of stormwater and Chesapeake Bay related topics. Materials and summaries have been included in the final report attached to this quarterly report.

Final Products	% Completion	Anticipated Completion Date
Quarterly Coordination/Training	100	9/30/15
BMP Inventory and Tracking System for Caroline County	100	9/30/15
Infiltrative Soils GIS Layer for Caroline County	100	9/30/15
VSMP Roundtable	100	9/30/15
Benefits Accrued From Prior CZM Grants	100	9/30/15

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2014**

**Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
for the period from #Name?**

Task: 48	Richmond Regional Planning District Commission	Current Federal Total:	\$30,000.00
Richmond Regional PDC Technical Assistance			
<u>Project status:</u>	<u>Current approved</u>		<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closeout	Start:	End:	Closeout:
	10/1/2014	9/30/2015	12/31/2015

Technical Assistance Report - RRPDC staff processed 20 environmental reviews and 12 intergovernmental reviews during the reporting period.

Coordination and Training – On May 7, 2015, RRPDC staff hosted an Environmental TAC meeting. Chesterfield County staff provided a presentation of the County’s IDDE Traveling Car Wash Kit. The kit is free to county residents who plan to hold a car wash to benefit a non-profit or community or school group, such as a girl scout troop or soccer team. The kit prevents the wash waste water from illegally entering the County’s MS4 system. Timmons and City of Richmond staff led a discussion about future opportunities of a regional Army Corps permit in the Richmond Region. City of Richmond staff provided a presentation on the Integrated Permit Planning Process currently underway, RVA H2O. The meeting concluded with a round robin discussion around the table of current and future projects and issues.

Regional Existing Land Use Trends Analysis – RRPDC staff has completed the second iteration of the regional existing land use inventory and is finalizing and editing the data before conducting analysis of the new 2013 data (based on VGIN aeriels) and the original 2009 base-year data in order to see changes in land use patterns over four years. (Please note that only a small portion of this work is billed to CZM, as the work is relevant to so many focus areas of RRPDC work.)

Green Infrastructure Base Map Update – RRPDC staff used building/structure data (locally and regionally sourced) updated to the 2013 VGIN aerial imagery to “update” the DCR-NH Virginia Natural Landscape Assessment ecological core data. The last update of this data was performed in 2008/9 by RRPDC staff making the original dataset, current as of 2000, updated to 2007. Using a methodology developed in cooperation with DCR-NH modeling staff, RRPDC staff removed forested areas lost to development and rescored the ecological cores.

Local Implementation Advocacy – RRPDC staff worked in FFY14 to support and guide Groundwork RVA, a burgeoning 501(c)3 organization which aims to provide youth in underserved Richmond neighborhoods with the knowledge and the tools to create sustainable environmental change in their neighborhoods, including greenway development, vacant land remediation and environmental education. By serving as board chair, RRPDC staff has been able to provide a strong foundation for the organization and its programs and projects moving forward.

Benefits Accrued from Past CZM Grants – RRPDC staff has cataloged items for this report. The final report will be included in the grant Final Report.

Final Products	% Completion	Anticipated Completion Date
Technical Assistance	100	
Coordination and Training	100	
Regional Existing Land Use Trends Analysis	100	
Green Infrastructure Base Map Update	100	
Local Implementation Advocacy	100	
Benefits Accrued from Past CZM Grants	100	

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2014**

**Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
for the period from #Name?**

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:		
	1/1/2015 12/31/2015 3/31/2016		

This grant officially started on January 1, 2015. During the period from April through September 2015, the Virginia Aquarium Stranding Response Program (VAQS) recorded 240 strandings in Virginia. There were 270 strandings recorded during the same period in 2014.

The VAQS Stranding Team responded to 80 marine mammal strandings in Virginia during this reporting period, 76 cetaceans and 4 pinnipeds. Stranding distribution included 30 (38%) in Virginia Beach, 6 (7%) in Norfolk, 20 (25%) on the eastern shore, and 24 (30%) on the western shores of the Chesapeake Bay north of the James River. The cetacean species included 70 bottlenose dolphin (*Tursiops truncatus*), 1 common dolphin (*Delphinus delphis*), 3 harbor porpoise (*Phocoena phocoena*), 1 humpback whale (*Megaptera novaeangliae*) and 1 minke whale (*Balaenoptera acutorostrata*). The pinniped species included 3 gray seal (*Halichoerus grypus*) and 1 harbor seal (*Phoca vitulina*). Three of the cetaceans were alive upon first reports of stranding. One bottlenose dolphin was disentangled from crab pot line and one minke whale died on the beach at New Point Comfort in Mathews County. Two live gray seals were examined. One was released on site at False Cape State Park and one from North Carolina was rehabilitated and released in Virginia Beach

There were 160 sea turtle strandings recorded in Virginia during this reporting period, compared with 195 during the same period in 2014. Stranding distribution included 74 (46%) in Virginia Beach, 19 (12%) in Norfolk, 39 (24%) on the eastern shore, and 28 (18%) on the western shores of the Chesapeake Bay north of the James River. The sea turtle species included 92 loggerheads (*Caretta caretta*), 50 Kemp's ridley (*Lepidochelys kempii*), 7 greens (*Chelonia mydas*), 4 leatherbacks (*Dermochelys coriacea*) and 7 animals that were unidentified to species. There were 60 live sea turtles that stranded during the reporting period (including incidental hookings and entanglements) and many were rehabilitated and released. A complete summary of live sea turtle recovery, rehabilitation and release will be included in the final 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 6,000 hours to the stranding response program during this reporting period. A detailed list of all trainings, presentations and publications will be included in the final report.

Final Products	% Completion	Anticipated Completion Date
Stranding Response Data Sharing and Reporting	75	December 31, 2015
Personnel and Cooperator Training Activities	85	December 31, 2015
Public Education and Outreach Activities	90	December 31, 2015

Task: 50	TBD	Current Federal Total:	\$31,988.00
PDC Competitive Grants			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Funds Transferred Out of Task
Proposed	Start: End: Closeout:		
	10/1/2014 9/30/2015 12/31/2015		

Task: 51	Hampton Roads Planning District Commission	Current Federal Total:	\$12,000.00
Development and Implementation of Public Outreach and Adaptation Responses to Sea Level Rise			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Canceled
Cancelled	Start: End: Closeout:		
	10/1/2014 9/30/2015 12/31/2015		

Hampton Roads PDC cancelled this grant at the request of the City of Virginia Beach on April 10, 2015. No funds had been spent and CZM staff are considering these funds for development and printing of a Hampton Roads Native Plants Guide.

Year: 2014

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
**Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141**  
**for the period from #Name?**

Task: 52	Middle Peninsula Planning District Commission	Current Federal Total: \$40,000.00
Public Access Authority Private Land Giving Program Development for Enhancement of Public Water Access on the Middle Peninsula		
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closeout	Start:      End:      Closeout:	
	10/15/2014 9/30/2015 12/31/2015	

Product #1: Research other public land gift programs. MPPDC staff conducted extensive internet research; consulted with Neal Barber, President of Middle Peninsula Land Trust and Elizabeth Friel, Director for the Northern Neck Land Conservancy; received resources from Lynda Frost with Lands for Public Trust and other state agencies on land gift programs and their marketing and outreach strategies. The information was synthesized and compiled into best practices recommendations and used to assist with the development of the marketing materials for the MPCBPAA Altruistic Giving Outreach Campaign. Documentation of the finding will also be included in the final report.

Product #2: Technical research on Virginia Conservation Tax Credit Program and Charitable Donations to Public Entities. MPPDC staff worked with various consultants to draft a white paper research document outlining the income tax credits that donors may receive under various federal and state programs. The information was used in the outreach campaign materials and will be included as a part of the final report.

Product #3: Altruistic Giving Media Outreach Campaign MPPDC staff met with Janet Krenn of Strategic Communication Consultants to discuss the development approach for a waterfront land donation outreach campaign. The approach identifies goals for marketing to target audiences, content, strategies and time line for completion. MPPDC staff discussed final changes for publications and received final media outreach materials from Ms. Krenn which included flyers, a press release, web design layout and a specialized icon design. MPPDC staff prepared all documents for launch of a targeted land donation campaign in Essex County.

Product #4: Donated Lands Legal Closing and Real-estate Legal Research Framework MPPDC staff consulted with Lee Stephens Law specializing in Protecting Real Property Through Conservation and Estate Planning to develop principle points for working with legal professionals on donated lands issues. The points will guide others interested in altruistic giving for public benefit and get the deal to closing.

Product # 5: Quantify the benefit and loss of public donations MPPDC staff analyzed revenue figures from MPCB public access sites compared with revenue figures prior to donation to assess the economic benefits of public land donations for recreational use. MPPDC also analyzed formulas and methods used in various studies to assess direct economic value of services and uses provided through donated land for public recreational uses. Staff attempted to use similar methods in the economic benefit of donated MPCB public access sites using the information available.

Final Products	% Completion	Anticipated Completion Date
Hard Copy of research findings (final report)	100	September 30, 2015
Hard Copy of research findings and social media publication findings (final report)	100	September 30, 2015
Hard Copy of research findings ( final report)	100	September 30, 2015
Report on Legal Framework for advancing private giving for public benefit and including report on land acquired under grant (Final report)	100	September 30, 2015

Year: 2014

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
for the period from #Name?

Task: 53	Middle Peninsula Planning District Commission	Current Federal Total:	\$39,977.00
Captain Sinclair's Recreational Area Water Access Improvement and Native Coastal Landscaping Project			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Open	Start: 2/1/2015	End: 11/30/2015	Closeout: 2/29/2016

Product #1: Middle Peninsula Planning District Commission (MPPDC) staff met with Denise Greene of Sassafras Farm in Hayes, VA to discuss the project. A contract was negotiated and executed for provision of a landscape design for the approximately 3 acres surrounding the main structure and plantings for the waterfront and rain garden at the back of the house. The landscape design was completed and submitted to the Virginia Coastal Zone Management Program for approval. Plants have been ordered, and planting is scheduled for the 2nd week of October, weather permitting.

Product #2: Materials for the dock were received as was the gangway. The dock has been completed to the water's edge. Additional materials to complete the dock have been ordered.

Product #3: Deeds for the donated Mathews County properties for project match have been recorded. Donated properties include: (1) 18 acre parcel – Mathews tax map # 31-A-116B and (1) 3 acre parcel – Mathews tax map #31-A-200, known as Bethel Beach, and (2) parcels of 5.06 acres in aggregate – Mathews tax map #36-14-3&4, known as Winter Harbor.

Final Products	% Completion	Anticipated Completion Date
Captain Sinclair Landing Native Coastal Landscape Design Plan & Plantings	50	11/30/2015
Pier Construction	50	11/30/2015
Recordation of Match Donated Lands and Legal Closing	90	11/30/2015

Year: 2014

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
for the period from #Name?

Task: 54	Northern Neck Planning District Commission	Current Federal Total: \$16,035.00						
Phase 2 Implementation of the Plant NNK (Northern Neck) Natives Campaign								
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report						
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>10/15/2014</td> <td>12/31/2015</td> <td>3/31/2016</td> </tr> </table>	Start:	End:	Closeout:	10/15/2014	12/31/2015	3/31/2016	
Start:	End:	Closeout:						
10/15/2014	12/31/2015	3/31/2016						

Revisions to the guide entitled Native Plants of the Northern Neck were completed and 3,000 copies of the revised guide were printed in time for distribution at the Northern Neck Chapter of the Virginia Native Plant Society's premier outreach event on September 12, 2015. Revisions included the addition of a section on the need to plant milkweeds to conserve monarch butterflies and revision of the map of demonstration gardens to reflect the new gardens that have been developed since the last printing. These new gardens will be featured in the new Northern Native Plant Trail under development. To complement the revised guide, the Campaign developed a comprehensive listing of all native plants found on the Northern Neck. The list was developed using data from the Digital Atlas of the Virginia Flora and contains links to the Atlas for easy online reference. Along with the revised guide, it is available on at the Campaign's website, [www.nnnp.org](http://www.nnnp.org).

Native Plant Trail Inventory—To prepare for development of the Northern Neck Native Plant Trail, formerly called the Northern Neck Native Plant Library, Campaign members visited the gardens to be included in the trail guide. The purpose of the visits was to take inventory of the plants currently found in the gardens and determine which needed identification stakes, to take photos and to consult with the garden managers. The data collected will guide the next steps in development of the trail, including preparing and printing a guide, supplementing identification stakes for the plants in the gardens and developing common signage for the gardens in the trail.

Outreach--Each month a native plant is featured as the "Plant of the Month" in local newspapers. The articles include a photo and description of the plant and refers readers to the Plant NNK Natives website for more information. The Northern Neck Chapter of the Virginia Native Plant Society also hosts meetings that are open to the public and advertised in the local newspapers. In April, the Native Plant Society meeting was followed by a field trip to three of the demonstration gardens to be included in the Native Plant Garden Trail, including the stormwater management garden at the Northern Neck Planning District Commission. Stuart McKenzie, Environmental Planner with the PDC, met with participants to explain the design of the garden and discuss maintenance challenges. Other outreach events included participation in a regional celebration of Earth Day, several native plant days at partner garden centers and a local land conservation special event.

Mid-campaign Survey—Work has begun on this product. A draft questionnaire has been prepared, however it has been difficult to find a university student to assist in the design and analysis of the survey. The project manager is pursuing a few more leads and if an intern cannot be found, will consult with Virginia Witmer at the Virginia Coastal Zone Management Program who has managed similar surveys. Should the funds for the intern stipend not be needed, the Campaign manager may request to apply those funds to additional outreach materials.

Extension Request—In August the project manager requested a three month no cost extension until Dec 31, 2015 to complete the projects under this phase of the campaign. The project manager expects to complete work by December 31, 2015.

Final Products	% Completion	Anticipated Completion Date
Plant NNK Natives Social Marketing Materials	100	September 30, 2015
The NNK Native Plant Library: Demo Gardens on the Northern Neck	50	September 30, 2015
Mid Campaign Assessment of Plant NNK Natives	15	September 30, 2015
Final Report	60	September 30, 2015

Year: 2014

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
for the period from #Name?

Task: 55	Richmond Regional Planning District Commission	Current Federal Total:	\$31,988.00
Brown's Island Dam Walk South Bank Habitat Restoration and Native Plant Demonstration			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start:      End:      Closeout:		
	7/15/2015   3/31/2016   6/30/2016		

Prior to the official grant start date and throughout the first weeks of this grant, RRPDC staff worked with City of Richmond staff to design a project that would accomplish the goals of the Coastal Zone Management Program and greatly benefit the City of Richmond as part of the overall Brown's Island Dam Walk project, of which the South Bank Habitat Restoration and Native Plant demonstration is part. Work charged to the grant thus far is administrative preparation for tasks to be accomplished in the near future including:

- A subcontract between the City of Richmond and the RRPDC detailing roles and responsibilities. This subcontract should be complete by the end of calendar year 2015.
- Final site design and layout. Final decisions related to site design and layout will be made and recorded.

Earth moving and planting will begin in calendar year 2016.

Final Products	% Completion	Anticipated Completion Date
RRPDC and City of Richmond Subcontract	10	12/31/2015
Site Layout and Design	0	3/31/2016
Brown's Island Dam Walk South Bank Native Habitat Restoration <input type="checkbox"/>	0	3/31/2016

Task: 91	TBD	Current Federal Total:	\$30,000.00
Routine Program Change and Section 309 Assessment/Strategy Development Assistance			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Pending
Proposed	Start:      End:      Closeout:		
	10/1/2014   3/31/2016   6/30/2016		

The Virginia CZM Program is contemplating a switch to rewriting enforceable policies as "narrative policies." If this approach is approved by DEQ's Director and the AG's Office, a scope of work will be submitted to NOAA for approval to contract with William and Mary's Coastal Policy Center to begin the work.

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**

**Year: 2014**

**Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
for the period from #Name?**

Task: 92	Middle Peninsula Planning District Commission	Current Federal Total:	\$50,000.00
Policy Development for Virginia's Working Waterfronts Plan			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Closeout	Start:      End:      Closeout:		
	10/1/2014    9/30/2015    12/31/2015		

Product #1: Establish an Overall Working Waterfronts Steering Committee & Executive Committee – The Working Waterfront Steering Committee met for a second time. Agenda items included discussion of developing a state-wide insurance policy for working watermen, review of a public policy diagram developed by MPPDC staff to assist community groups and the general public in understanding how new local policy and state legislation is made, discussion of the Virginia Coastal Zone Management Program 5-year strategy for Working Waterfronts, funding and grant availability for working waterfronts, as well as review of questions to have Mr. Bill Pruitt ask localities about their working waterfront policies.

Product #2: In-depth Research on Policy Tools - MPPDC staff continued to research each of the working waterfront policies identified on the National Working Waterfront Coalition's website and developed a list of definitions for each policy. In many cases, MPPDC staff referenced Virginia Code. This is to help in the development of a State-wide Working Waterfront Plan. In addition to MPPDC staff research, the MPPDC contracted with Mr. Bill Pruitt to work with Tidewater localities to understand current working waterfront policies as well as specific policies that localities are interested in exploring and eventually implementing. More specifically, Mr. Pruitt visited with private sector community and business leaders as well as elected officials and chief government administrators from Lancaster, Northumberland, Richmond, Westmorland, Accomack, Northampton Gloucester, Mathews, Middlesex, Essex, King & Queen, King William Counties as well as Tangier. There was consistent need and concern expressed across the three rural coastal areas that land use change and development patterns have resulted in and will continue to place stressors on public access sites for commercial watermen. Maintaining a network of tie-up facilities is critical for long term sustainability in this industry. This concern was also expressed amongst numerous private business owners, dock owners, and fish houses owners as this may ultimately impact business. Many elected officials expressed interest in expanding or creating new comprehensive plan language to help shape each localities vision for working waterfronts, but expressed concern about the appropriate role of land use planning tools such as zoning to ensure that the waterfront is managed in a harmonious way. Additionally, it expressed that there is a need for better understanding of existing and new tools related to water quality, management and expansion of oyster farming, business legacy planning-transition planning, and adequate state funding to support existing public working waterfront infrastructure. Lastly, Mr. Pruitt reported that there was zero political pushback expressed by any elected official he met with on matters related to the preservation of working Waterfronts.

Product #3: Report on Stakeholder Meetings for Policy Tool Review – The second meeting of the Working Waterfront Steering Committee Meeting took place on April 14, 2015 at the City of Poquoson. MPPDC staff drafted meeting minutes that included meeting outcomes and observations made during a working waterfront tour of the City.

Final Products	% Completion	Anticipated Completion Date
Establish an Overall Working Waterfronts Steering Committee & Executive Committee	100	September 30, 2015
In-depth Research on Policy Tools	100	September 30, 2015
Report on Stakeholder Meetings for Policy Tool Review	100	September 30, 2015

Year: 2014

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
for the period from #Name?

Task: 93	Virginia Institute of Marine Science	Current Federal Total: \$135,000.00
Shoreline Management Planning		
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
Closeout	Start:      End:      Closeout:	
	10/1/2014   9/30/2015   12/31/2015	

A Shoreline Management Plan (SMP) is a guidance document for local governments that recommends strategies for managing tidal shoreline conditions. Development of the SMP includes data developed as part of the Shoreline Inventory. Shoreline Evolution Reports provide important management information associated with the change in tidal shoreline position over time. The products to be generated under this grant include:

- Accomack County: Expanded Shoreline Evolution Report
- Stafford County: Expanded Shoreline Evolution Report
- Gloucester County Shoreline Inventory (updated)
- Stafford County Shoreline Inventory (updated)
- James City County Shoreline Management Plan
- Stafford County Shoreline Management Plan

Progress toward deliverables during the last 6 months of this project have included:

- Posting all products online for Shoreline Inventory for Gloucester County (  
[http://ccrm.vims.edu/gis\\_data\\_maps/shoreline\\_inventories/virginia/gloucester/gloucesterva\\_disclaimer.html](http://ccrm.vims.edu/gis_data_maps/shoreline_inventories/virginia/gloucester/gloucesterva_disclaimer.html))
- Completion of the Stafford County Shoreline Inventory data collection, analysis, map viewer development, and draft final report (future url: [http://ccrm.vims.edu/gis\\_data\\_maps/shoreline\\_inventories/virginia/stafford/staffordva\\_disclaimer.htm](http://ccrm.vims.edu/gis_data_maps/shoreline_inventories/virginia/stafford/staffordva_disclaimer.htm))
- Preparation of final Accomack and Stafford County Shoreline Evolution Reports are nearing completion
- Preparation of final Shoreline Management Plans for Stafford and James City County are underway

Final Products	% Completion	Anticipated Completion Date
Shoreline Evolution Reports	70	November 15, 2015
Shoreline Inventories	95	October 15, 2015
Shoreline Management Plans	70	November 15, 2015

Task: 94	TBD	Current Federal Total: \$0.00
Cumulative and Secondary Impacts: Land & Water Quality Protection Competitive Grants		
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Funds Transferred Out of Task
Proposed	Start:      End:      Closeout:	
	10/1/2014   9/30/2015   12/31/2015	

Year: 2014

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
for the period from #Name?

Task: 94.01 Middle Peninsula Planning District Commission Drainage and Roadside Ditching Authority	Current Federal Total: \$40,000.00
<u>Project status:</u>	<u>Current approved</u>
Closeout	<u>Final deliverable(s) status:</u> Submit w/next Semiannual Report
	Start:      End:      Closeout:
	11/1/2014    9/30/2015    12/31/2015

Product #1: Gather Examples of Ditching Authorities - Middle Peninsula Planning District Commission (MPPDC) staff researched and gathered both domestic and international examples of Ditching Authorities and Programs that could be used as examples for the development of a Regional Drainage and Roadside Ditching Authority. Domestic examples included Maryland's Public Drainage/Watershed Associations, Ottawa County Road Commission in Michigan, and Rodeson County Drainage District in North Carolina. The International examples include the Roadex Network in the Northern Periphery of the European Union and the Ottawa Drainage Act and Conservation Authorities Act in Canada. MPPDC staff organized descriptions of the ditching authorities and programs, the funding mechanisms, as well as structure of the authority/program to provide the MPPDC in the development of a Regional Drainage and Roadside Ditching Authority.

Product #2: Research and Assess Enabling Authority - MPPDC staff has researched enabling authority under which a Regional Drainage and Ditching Authority could be developed. Based on the research, there were two sections of Virginia Administrative Code (VAC) that could allow for the development of a Regional Drainage and Roadside Ditching Authority, including the Virginia Water and Waste Authorities Act (§15.2-5100-§15.2-5159) and Service District (§15.2-2400-§15.2-2403) code. Specifically it was found the Virginia Water and Waste Water Authorities Act may be used if a locality is seeking to create a public entity whereas the Service District code allows for the delegation of the power to another entity which may be considered private (i.e. a Community development authority). Choosing to use one section of code over the other would merely depend on the approach and type of entity local elected officials would prefer utilize. However if the elected officials choose neither of the sections of code, they also have the option of developing new legislation to meet their specific desired needs. MPPDC staff also provided a summary of funding mechanisms that could assist in the sustainability of a Regional Drainage and Roadside Ditching Authority, including grants, taxing districts, tax increment financing, as well as federal programs that could supplement the Authority.

Final Products	% Completion	Anticipated Completion Date
Gather Examples of Ditching Authorities	100	September 30, 2015
Research and Assess Enabling Authority	100	September 30, 2015

Year: 2014

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
for the period from #Name?

Task: 94.02 Northern Virginia Regional Commission		Current Federal Total: \$40,000.00
Land and Water Quality Protection Northern Virginia Phase I: Municipal Policies for Managing Stormwater with Green Infrastructure		
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Project Period Open
Open	Start: End: Closeout: 11/1/2014 3/31/2016 6/30/2016	

Product #1

Title: Common Drivers and Regulatory Framework in Northern Virginia

Local tree canopy and tree preservation ordinances/codes were gathered and evaluated to determine if they are in line with the VDOF tree density per acre standards. A table with links to the pertinent section of county code has been created. The most current state and federal regulatory drivers such as the 2014 TMDL Action Plan Guidance for MS4s, output from the Urban Stormwater Workgroup, and reports from Chesapeake Bay Program Urban Tree Canopy Expert Panels has also been compiled and is currently under review.

Product #2

Title: Green Infrastructure Practices that Make Sense in Northern Virginia

Watersheds that are projected to receive the most growth between 2015 and 2040 were identified by mapping population and household projections by Transportation Area Zone. Neabsco and Powell's Creek were identified in Prince William County. Windy Run, Spout Run, and Four Mile Run were identified in Arlington and Fairfax Counties. The i-Tree canopy tool was used to estimate land cover characteristics in the projected high growth watersheds in the region. Community Viz and GIS was used to conduct buildout analyses of those watersheds based on current zoning and an alternative more dense zoning. The results of the buildout analyses allowed for determining the effects of full buildout and more dense buildout on canopy and impervious. The i-Tree Hydro model was used to simulate the effects of those scenarios on streamflow and pollutants of concern. Currently, Community Viz and GIS are being used to carry out "leaf out" analysis to determine how to integrate forest cover goals into a full buildout scenario and determine priority locations for canopy preservation and/or canopy restoration. The next step in this process is to determine what the area of land is that could potentially be converted from grass or impervious to forest and what that translates into in terms of nutrient and sediment reduction.

Product # 3

Title: Green Infrastructure Policy and Implementation Strategy Recommendations

An initial meeting was held with Prince William County Department of Public Works to discuss how the modeling output could best be utilized by the county. Feedback from the County included: 1) identify locations where canopy preservation is recommended, 2) identify locations where canopy could be increased, 3) identify the monetary benefits associated with preserving or increasing canopy, 4) identify the TMDL credits associated with converting specific sites to forest.

Another meeting was held with Fairfax County Department of Urban Forestry to discuss how the project might align with the county's canopy goals. Similar sentiments were issued by Fairfax County. Another meeting is scheduled for November with a representative from the Urban Tree Canopy Expert Panel to discuss implications of this project in a wider context.

Final Products

Final Products	% Completion	Anticipated Completion Date
Common Drivers and Regulatory Framework in Northern Virginia	100	September 30, 2015
Green Infrastructure Practices that Make Sense in Northern Virginia	75	December 31, 2015
Green Infrastructure Policy and Implementation Strategy Recommendations	25	March 1, 2016

Year: 2014

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
**Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141**  
**for the period from #Name?**

Task: 95.01	Virginia Commonwealth University	Current Federal Total: \$60,000.00	
Virginia Ocean Plan and Atlantic Sturgeon EMF Study			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Project Period Open	
Open	Start: End: Closeout:		
	10/1/2014 3/31/2016 6/30/2016		

For the Project 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 Ocean Planning Stakeholder Engagement (OPSE) Coordinator to the VA Coastal Zone Management Program at the VA DEQ. Outreach is focused on the eight sectors to develop the Virginia portion of the Mid-Atlantic Regional Council on the Ocean (MARCO) Mapping and Planning Portal. MARCO identified the sectors: offshore and alternative energy; commercial fisheries; recreational fisheries; recreational users and conservation groups; ports, shipping and navigation; tourism; Defense/ Navy; and other (oil and gas, sand mining, Marine Trades, etc). The OPSE Coordinator supported the VA Coastal Zone Management Program Manager by conducting outreach and communication to 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 OPSE Coordinator focused on the ports of Virginia Beach, Newport News, and Hampton to vet the grouped gear types of dredge, gillnet, and pots and traps. Direct communication with wholesalers, processors, fishing companies and captains was used to verify the validity of these data.

During the reporting period, the OPSE Coordinator focused the majority of time on the BOEM-DMME funded Collaborative Fisheries Planning in the VA Wind Energy Area (WEA) Project through direct communication and coordination with project team members and industry representatives. Reporting on these actions are covered under that grant.

Due to the availability of funding to support the OPSE Coordinator for the Collaborative Fisheries Planning project, the Section 309 grant was reprogrammed to include research relevant to the collection of data demonstrating any electromagnetic field impacts on migratory, Federally-listed, endangered Atlantic Sturgeon (*Acipenser oxyrinchus oxyrinchus*). A partnership between the VCU Department of Life Sciences and the VCU School of Engineering forged to conduct the study. To do this, magnetic and electromagnetic fields will be generated around an elliptical fish tank. The magnetic and electromagnetic fields will be created via induction by driving a current through a wire in close proximity to the bottom of the tank. In order to associate behavioral patterns with magnetic field intensities, the magnetic field inside of the tank must be measured to a very high precision. Construction of the research vessel was the focus during the reporting period with the introduction of animals to take place in the following reporting period.

Final Products	% Completion	Anticipated Completion Date
Report on Ocean Stakeholder Engagement and VA Ocean Users Needs	10	Sept, 2015
Report on the Marine Debris Reduction Plan Implementation	0	Sept, 2015

Task: 95.02	Dept. of Environmental Quality	Current Federal Total: \$0.00	
Virginia Ocean Plan: Community Specialist			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u> Project Canceled	
Cancelled	Start: End: Closeout:		
	10/1/2014 9/30/2015 12/31/2015		

DEQ's Community Specialist left the agency. Funds were transferred to Task 95.03, Marine Debris with NOAA's approval on 10-15-14.

Year: 2014

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
**Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141**  
**for the period from #Name?**

Task: 95.03	Longwood University	Current Federal Total:	\$65,000.00
Virginia Marine Debris Reduction Plan Refinement and Implementation of Balloon Reduction Social Marketing Campaign			
<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Submit w/next Semiannual Report
Open	Start: End: Closeout:		
	11/15/2014 12/31/2015 3/31/2016		

Clean Virginia Waterways (CVW), its contractors, and partners along with CZM staff worked on the following activities this period:

**Monitoring:** Working around bird nesting seasonal restrictions, balloon-related litter was monitored on four barrier islands (Fisherman Island, Hog, Smith and False Cape State Park). More than 780 balloon litter items were recorded, and balloon litter was in the "top three" most commonly found items on these beaches. At an additional monitoring of Cedar Island, 37.85% of all trash items were balloons. Weather balloons were also found during nearly every survey. Partners providing transportation and access: VA Dept of Game & Inland Fisheries, The Nature Conservancy, US Fish & Wildlife Service, and the VA Dept of Conservation and Recreation (state park). After one more monitoring event at Hog Island and one at False Cape, all sites will have been monitored twice in 2015. A new in-the-field data form was developed to facilitate standardized data collection.

**Microplastics:** Two of our team participated in a Chesapeake Bay microplastic sampling in Maryland waters.

**Marine Debris Items of Special Concern:**

**Balloons:** Five years of data (2010—2014) from the International Coastal Cleanup in VA were analyzed in order to better understand the accumulation of balloon litter in coastal environments versus inland sites. Of the 4,916 balloons reported by volunteers 2010-2014, more than 63% were found on ocean beaches. Researchers wrote an article on these findings; the paper is now under review with a peer-reviewed journal. CVW compiled a list of policies at US colleges that restrict balloon releases, and drafted an informative fact sheet and policy that could be a model for other institutions.

**Shotgun wads:** In a collaborative effort, shotgun wads found during beach monitoring were collected and sent to the VA Institute of Marine Science for its ongoing research into this form of marine debris.

**Clam netting:** Partners met with Richard Ayers, author of two CZM research projects (2004 & 2006), to discuss current issues, trends, stakeholders, and possible future actions to address this form of derelict fishing gear.

**Cigarette butts:** Two groups in Virginia won Cigarette Litter Prevention Grants from Keep America Beautiful to do innovative regional efforts to reduce this form of litter in Virginia Beach and the Hampton Roads region, involving dozens of local partners.

**Further Refinement and Phase 1 implementation of the VA Marine Debris Reduction Plan:**

Partners engaged additional partners and informed the public about Virginia's marine debris reduction efforts and the balloon project to: EPA Region III Citizen Water Monitoring Conference, Hampton Roads Alliance for Environmental Education, and NOAA MDP workshop for DE, DC, MD & VA. Staff designed a fact sheet and display that highlights the balloon debris issue and coming campaign. Staff also produced a panel for an exhibit at the Virginia State Fair, including a station where visitors could pledge not to release balloons. CZM's marine debris exhibit is on loan for several upcoming public events. The social marketing survey continues to be distributed, and people are being recruited for focus groups. One finding from the first focus groups was that people are concerned about power outages caused by balloons, so research on this issue was initiated. In addition, Longwood University was approached about adopting a policy that prohibits all balloon releases (and sky lanterns) on all university properties. It is hoped that this policy will serve as a model for other institutions.

**Education and Outreach:** Project staff assisted VIMS with an 8-page newsletter about marine debris, and MARCO on an assessment of marine debris in the mid-Atlantic. Also advised MARCO on a proposal to NOAA MDP on an upcoming grant opportunity. Partners from VIMS, Clean VA Waterways, and others assisted several student groups working on trash-related issues as part of an international contest called "FIRST LEGO League." Virginian students participated in a beach cleanup focusing on balloon litter, while others are focusing on cigarette litter and plastic bags. Aspects of Virginia's MDRP were shared with 1300 students during a "Meet the Experts" event in Alexandria, VA in September.

**Balloon Social Marketing Grant Project:** Project staff conducted an on-line briefing of partners in June, created a fact sheet/handout & table top display, and conducted two focus groups (held with assistance of OpinionWorks). Partners met in Virginia Beach to discuss future focus groups and research and discussed the balloon release trends found during the previous grant reporting period regarding seasonally. Continued research is occurring on compelling messages to influence people's behaviors regarding balloon releases. An extension will be requested on this grant project as the initial background research has taken longer than anticipated.

Final Products	Completion	Anticipated Completion Date
Product #1: Refinement and Implementation of Phase 1 of the VA Marine Debris Reduction Plan	80	12-15-15
Product #2: Conduct Pre-Campaign Qualitative and Quantitative Research (balloon social marketing)	75	12-15-15
Product #3: Production of Campaign Strategy Multi-Media Materials	0	4-1-2016
Product #4: Monitoring balloon debris	80	12-15-15
Product #5: Final Report for A Rising Concern: Reducing Balloon Releases and Debris through a Social Marketing Campaign	0	12-15-16

Year: 2014

**VIRGINIA COASTAL ZONE MANAGEMENT PROGRAM**  
Performance Report, Section A, for Cooperative Agreement No. NA14NOS4190141  
for the period from #Name?

Task: 95.04 Virginia Aquarium and Marine Science Center Foundation Current Federal Total: \$100,000.00  
Offshore Energy Planning: Continued Documentation of Megafauna off Virginia's Coast Using Aerial Survey

<u>Project status:</u>	<u>Current approved</u>	<u>Final deliverable(s) status:</u>	Project Period Open
Open	Start: End: Closeout:		
	11/15/2014 3/31/2016 6/30/2016		

Six days of aerial survey effort were completed in the Virginia Wind Energy Area (VA WEA) from April 1 – September 30, 2015. During this period, we conducted surveys in all months except for July, including two survey days in August. A total of 52 track lines (10567.96 km) flown over 35.5 hours were covered in the VA WEA during the reporting period.

A total of 59 sightings of 863 cetaceans were encountered. Sixteen of these sightings were recorded while “off effort” (i.e. not on a designated transect line and actively surveying). Five species of cetaceans were photo-documented. Total numbers for each of these five species included bottlenose dolphins (*Tursiops truncatus*; n=768), spotted dolphin (*Stenella frontalis*; n=86), fin whale (*Balaenoptera physalus*; n=4), common dolphins (*Delphinus delphis*; n=4), and humpback whale (*Megaptera novaeangliae*; n=1).

Two species and a total of 462 sea turtles were recorded during the current reporting period. “On effort sightings” included loggerhead (*Caretta caretta*; n=430), leatherback (*Dermochelys coriacea*; n=7), and “unidentified sea turtles” (n=13). These unidentified hard shelled turtles could not be classified with 100% certainty as a specific species so were recorded as unidentified sea turtles. Twelve loggerheads were sighted “off effort” and are included in the total listed above.

Other sightings include cownose rays (*Rhinoptera bonasus*; n=5,700), manta rays (*Manta birostris*; n=12), unidentified elasmobranch (n=3), basking shark (*Cetorhinus maximus*; n=1), unidentified vertebrate (n=1), and varying sizes of dense aggregations of bait fish. A total of 128 vessels were recorded and included 54 large vessels (e.g. tankers, car carriers, container, and naval vessels) and 74 small vessels (e.g. recreational vessels- sail, parasail, sport fishing boats).

We expect to conclude the CZM aerial surveys with one more flight day in October or November pending weather and pilot availability. Upon completion, survey data will be analyzed and a final report will be produced including all aerial survey spatial data.

Final Products	% Completion	Anticipated Completion Date
Aerial Surveys	90	November 2015
Data Analysis	50	31 March 2016
Contract Report	20	31 March 2016
Spatial Data	40	30 April 2016