MEMORANDUM

TO: MPCBPAA

FROM: Lewie Lawrence, Director of Regional Planning

DATE: April 8, 2009

RE: April 10th PAA Meeting

This announcement serves as notice to call a meeting of the Public Access Authority on Friday, April 10th, 2009 at 11:00 a.m. The meeting will be held in the MPPDC Regional Board Room. Lunch will be provided.

All materials related to this agenda are attached. If you have any questions, please call (804-758-2311) or e-mail (LLawrence@mpppc.com) me at your convenience.

AGENDA

1. Welcome and Introductions
2. Approval of February 2009 Minutes
3. Financial Report
4. Public Comment
5. Report on the Clay Tract-Boy Scout trail project
6. Discussion of the PAA Project- American Recovery and Reinvestment Act
   Coastal Tidewater Virginia Eco-Employment Project – Restoration and Enhancement of Our Traditional Natural Resource Based Economy in the Middle Peninsula
7. VA Sea Grant Application for Public Access Website
8. Update on hunting violations penalty schedule
9. Wetlands Banking Update
10. VDOT Road Ending Transfer Update
     Bill Hogs Landing
     Request for information on 12 road endings
11. Public Outreach
12. Other Business
13. Chairman Observations
14. Next Meeting
15. Adjourn
1. Welcome and Introductions
The Middle Peninsula Chesapeake Bay Public Access Authority held its meeting in the Middle Peninsula Planning District Commission Board Room in Saluda, Virginia, at 11 a.m. on February 13, 2008.

Chairman Pleva called the meeting to order. Members and Alternates present were Steven Whiteway, Mathews County Administrator; Louise Theberge, Gloucester County Board of Supervisors; Janet S. Smith, Urbanna Town Council and David Whitlow, Essex County Administrator. Also present were Lewis Lawrence, Director of Regional Planning MPPDC; and Jackie Rickards, Regional Projects Planner I.

2. Approval of October and December 2008 Minutes
Chairman Pleva requested a motion to approve the October and December 2008 minutes. Mr. Whiteway moved that the minutes be approved. Ms. Theberge seconded the motion. Motion carried by unanimous vote.

3. Financial Report
Chairman Pleva requested a motion to approve the October 2008 Revenue and Expenditure Report. Mr. Whitlow moved that the Report be approved. Ms. Smith seconded the motion. Motion carried by unanimous vote.

4. Public Comment
None

5. Appoint a new treasurer and vice chair to fill unexpired terms
There was a need to fill the remaining two years in the vice chair and treasurer unexpired terms Mr. Whiteway nominated Ms. Louise Theberge as Vice-Chair and Ms. Janet S. Smith as Treasure. Mr. Whitlow seconded this motion. Motion carried by unanimous vote.

6. Clay Tract-Boy Scout trail project
Mr. Lawrence shared that Boy scouts working on the Clay track have marked the track’s boundary with placards and have cut a trail around the cypress bowel to the dock. The scouts have also demarked some trails with paint.

7. Thurston-Haworth Recreation Area- Draft Land Management Plan
Mr. Lawrence explained that the draft management plan for the Thurston-Haworth Recreation Area modeled the Brown track plan focusing on both resource protection and recreational needs. Chairman Pleva requested a motion to approve the Thurston-Haworth Recreation Area Draft. Ms. Theberge moved that the draft be approved. Ms. Smith seconded the motion. Motion carried by unanimous vote.
8. Discuss policy on hunting violations
In October a group of hunters were caught violating game law regulations on the Browne Tract. They were convicted on all accounts. Mr. Lawrence provided the committee with examples of how other public and private lands owners are dealing with hunting violations. The majority of the examples were based on a demerit system. In order to better manage the land, the PAA needs to an adaptive management tool. Several of the Authority members were in favor of a zero tolerance policy, however it was concluded that further research was needed. Staff will consult with conservation officers.

Miss. Rickards shared user statistics of the Thurston-Hayworth and Browne Tract (See Appendix 1). Due to the high number of visitors to zones 5 & 6 on the Brown Track, the group discussed the possibility of tighter management of these zones in order to protect waterfowl populations on the Dragon.

9. Review Proposal for legal counsel services
In light of the hunting violations on the Browne Track, there became a noticeable need for the PAA to have legal assistance. Mr. Pleva requested that the PAA signs the contract with SAND, ANDERSON, MARKS & MILLER Professional Corporation. Mr. Whitlow moved that the contract be signed. Ms. Smith seconded that motion. Motion carried with a Gloucester abstention.

10. VDOT Road Ending Transfer Update
   Bill Hogs Landing: No progress
   Request for information on 12 road endings: Mr. Lawrence has contacted VDOT staff concerning 12 landings in Gloucester. VDOT staff is researching each of the 12 landings and will deliver a report to staff when complete.

11. Wetlands Banking Update
Mr. Lawrence updated the PAA with the Wetland Banking Legislation. The legislation had passed through the House unanimously and is currently in the Senate.

12. Aide to Local Ports Funding Opportunity
Mr. Lawrence suggested that the PAA apply for funding with regard to restoration efforts. According to Mr. Whiteway the Port Authority is the only significant source for dredge funding, however it does require a match. To apply a locality needs to supply proof that there are economic benefits to the project.

13. VACO Public Liability Insurance- Mr Pleva will sign the renewal document.

14. Public Outreach
Mr. Lawrence revisited the idea of running newspaper ads in the local paper about the PAA. Ms. Theberge shared that through her experiences with fund raising, that the public donates more if they know exactly where their money is going. She suggested that the PAA choose specific focal areas that could be added to the add. For the annual work plan it was decided that focal areas would be identified.

15. Other Business
Mr. Lawrence asked the committee whether the PAA should submit a regional dredging plan to the Governor’s website. The committee decided that the PAA can submit a plan, but encourages each
Thurston Hayworth Track

- October Statistics:
  - 5 registered user visited the track a total of 21 times
  - Each zone was visited at least once except for Zone 6

<table>
<thead>
<tr>
<th>Zone 1</th>
<th>Zone 2</th>
<th>Zone 3</th>
<th>Zone 4</th>
<th>Zone 5</th>
<th>Zone 6</th>
<th>Zone 7</th>
<th>Zone 8</th>
<th>Zone 9</th>
<th>Total Visits in the month</th>
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<td>14</td>
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<td>Dec</td>
<td>17</td>
<td>8</td>
<td>8</td>
<td>5</td>
<td>9</td>
<td>13</td>
<td>9</td>
<td>10</td>
<td>4</td>
</tr>
<tr>
<td>Jan</td>
<td>11</td>
<td>9</td>
<td>3</td>
<td>3</td>
<td>10</td>
<td>12</td>
<td>2</td>
<td>4</td>
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</table>

Brown Track:

Visits per zone
Total visits: 255
Visits to Each Zone (Oct-Jan)

Users

- Of the 255 visits, there were a total 85 different registered users visiting the track

- When are users visiting the Brown Tract?
county submit individual dredging plans. Mr Wilson, a PAA hunter has offered volunteer maintenance services for the Browne Tract.

16. Chairman Observations
None

17. Next Meeting
The next meeting of the Middle Peninsula Chesapeake Bay Public Access Authority is scheduled for Friday, April 10th at 11:00 am. For the remainder of the year meetings have been scheduled for June 12th, August 14th, October 9th and December 11th.

18. Adjournment
Chairman Pleva requested a motion to adjourn the meeting. Mr. Whitlow moved that the motion be approve; Ms. Theberge, seconded the motion. Meeting was adjourned.

Appendix 1: User Statistics for the Thurston-Hayworth and Brown Tract

User Statistics:
Thurston Hayworth and Brown Track
## Revenue and Expenditure Report by Element

Middle Peninsula Planning District Commission

**Period 07/01/08 to 03/31/09**

**Run Date:** 04/06/2009  
**Run Time:** 2:03:26 pm  
**Page 29 of 37**

### 32007  PAA Administration  
**Project Period:** 7/1/2007 to 6/30/2009

<table>
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<th>Element Code &amp; Description</th>
<th>Budget</th>
<th>Prior Year</th>
<th>Current</th>
<th>YTD</th>
<th>Proj Tot</th>
<th>Un/Ovr</th>
<th>% Bud</th>
</tr>
</thead>
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### 320070 Administration

**Revenues**

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**Expenses**

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<th>YTD</th>
<th>Proj Tot</th>
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<td>63.94</td>
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<td>60.00</td>
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**Balance:**

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<th>Budget</th>
<th>Prior Year</th>
<th>Current</th>
<th>YTD</th>
<th>Proj Tot</th>
<th>Un/Ovr</th>
<th>% Bud</th>
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### 320071 Land Acquisition

**Expenses**

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<th>Element Code &amp; Description</th>
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<th>Prior Year</th>
<th>Current</th>
<th>YTD</th>
<th>Proj Tot</th>
<th>Un/Ovr</th>
<th>% Bud</th>
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# Revenue and Expenditure Report by Element

**Middle Peninsula Planning District Commission**  
**Period 07/01/08 to 03/31/09**  
**Run Date: 04/06/2009**  
**Run Time: 2:03:26 pm**  
**Page 30 of 37**

## 32007 PAA Administration

<table>
<thead>
<tr>
<th>Element Code &amp; Description</th>
<th>Project Period 7/1/2007 to 6/30/2009</th>
<th>Budget</th>
<th>Prior Year</th>
<th>Current</th>
<th>YTD</th>
<th>Proj Tot</th>
<th>Un/Ovr</th>
<th>% Bud</th>
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### 320072 Access Infrastructure Improvements

#### Revenues

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<th>900.00</th>
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<td>9,616.15</td>
<td>9,616.15</td>
<td>-9,616.15</td>
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#### Expenses

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<td>64.51</td>
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<tr>
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**Balance:**  
0.00 | 1.01 | 0.00 | 9,743.31 | 9,744.32

## 320073 Water Access Strategic Planning

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**Balance:**  
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## 320076 WL Mitigation

#### Expenses

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<td><strong>0.00</strong></td>
<td><strong>0.00</strong></td>
<td><strong>10,000.00</strong></td>
<td><strong>0.00%</strong></td>
</tr>
</tbody>
</table>

**Balance:**  
-10,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00

**Project Revenues:**  
99,185.10 | 45,013.43 | 0.00 | 54,171.67 | 99,185.10 | 0.00 | 100.00% |

**Project Expense:**  
92,608.94 | 45,013.43 | 491.73 | 13,022.22 | 58,035.65 | 34,573.29 | 62.67% |

**Project Balance:**  
6,576.16 | 0.00 | -491.73 | 41,149.45 | 41,149.45 | 41,149.45 | 41,149.45 | 41,149.45 |
My project will be of benefit to the group because:

The Middle Peninsula Public Access Authority is a political subdivision that acts to serve the public access needs of the encompassed communities, created by the Virginia Assembly on April 7, 2002, and ratified by participating localities on June 13, 2003. The Public Access Authority was established to identify, acquire, and manage public water access opportunities in the Middle Peninsula that can be used by the general public for outdoor activities, such as walking, fishing, picnicking, bicycling and educational opportunities. The organization functions through volunteers and grants mostly, so any work done for them is appreciated. They need to make the reserve presentable and useable to the public and by creating a trail I hope to make it more accessible to the public. The boundaries of the reserve also need to be marked. This project will benefit the people of the Middle Peninsula, as well as the surrounding counties who would like to visit the preserve.

This concept was discussed with my unit leader on: September 2, 2008

Date

The project concept was discussed with the following representative of the group that will benefit from the project.

Mr. Lewis Lawrence
Representative’s name
Director of Regional Planning
Representative’s title

September 8, 2008
Date of meeting
804-758-2311
Phone No.
Project Description

Project name: Blazing of a Nature Trail and Marking Boundaries in the Dragon Run Reserve

Describe the project you plan to do.

The project will consist of several parts. The first and most important part is the creation of a hiking trail within the small reserve on the Dragon Run near to the Dragon Bridge, between Middlesex and King and Queen Counties. The goal of this part is to wrap the trail close to a cedar bowl which surrounds the actual river. This is so that the trail goers will be able to see the wildlife in the bowl and not have to canoe in. The second part of the project is to place a series of markers which will mark the property boundaries of the reserve. Both of these actions will need no fundraising, as all materials are provided by grant money acquired by the organization.

What group will benefit from the project?

Middle Peninsula Chesapeake Bay Public Access Authority

804-758-2311

Name of religious institution, school, or community

Telephone No.

125 Bowden Street

Saluda

Virginia

23149

Street address

City

State

Zip code
Carrying Out the Project

Record the progress of your project. Keep a record of how much time you spend planning and carrying out the project. List who besides yourself worked on the project, the days they worked, the number of hours they worked each day, and the total length of time others assisted on the project.

If appropriate, list the type and cost of any materials required to complete the project. If your original project plan changes at any time, be sure to document what the change was and the reason for the change.

Hours I Spent Working on the Project

The length of time spent should be as adequate as is necessary for you to demonstrate your leadership of two or more individuals in planning and carrying out your project.

Hours I spent:

<table>
<thead>
<tr>
<th>Planning the project:</th>
<th>20 and ¾ Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carrying out the project:</td>
<td>22 Hours</td>
</tr>
<tr>
<td>Total hours I spent working on the project:</td>
<td>42 and ¾ Hours</td>
</tr>
</tbody>
</table>

Hours Spent by Scouts, Venturers, or Other Individuals Working on the Project

<table>
<thead>
<tr>
<th>Name</th>
<th>Date (mm/dd/yy)</th>
<th>No. of Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roy Hennigar</td>
<td>February 10, 24</td>
<td>26 Hours</td>
</tr>
<tr>
<td></td>
<td>March 7, 22</td>
<td></td>
</tr>
<tr>
<td>Mike Knez</td>
<td>February 10, 24</td>
<td>17 and ½ Hours</td>
</tr>
<tr>
<td></td>
<td>March 7</td>
<td></td>
</tr>
<tr>
<td>Nick Choppa</td>
<td>February 10</td>
<td>8 Hours</td>
</tr>
<tr>
<td>Victor Knez</td>
<td>February 24</td>
<td>10 Hours</td>
</tr>
<tr>
<td></td>
<td>March 7</td>
<td></td>
</tr>
<tr>
<td>Michel Knez</td>
<td>March 7</td>
<td>6 Hours</td>
</tr>
<tr>
<td>Joe Nelson</td>
<td>February 10</td>
<td>7 and ½ Hours</td>
</tr>
<tr>
<td>Hughes Nelson</td>
<td>February 10</td>
<td>7 and ½ Hours</td>
</tr>
<tr>
<td>Tommy Norman</td>
<td>February 10</td>
<td>7 and ½ Hours</td>
</tr>
<tr>
<td>James Williams</td>
<td>February 10</td>
<td>7 and ½ Hours</td>
</tr>
<tr>
<td>John Williams</td>
<td>February 10</td>
<td>7 and ½ Hours</td>
</tr>
<tr>
<td>Brett</td>
<td>February 10</td>
<td>6 and ½ Hours</td>
</tr>
<tr>
<td>Gracejean Hennigar</td>
<td>February 10</td>
<td>3 and ½ Hours</td>
</tr>
<tr>
<td>Evan LeFevre</td>
<td>March 7</td>
<td>8 Hours</td>
</tr>
<tr>
<td>Lewis Lawrence</td>
<td>December 14 January 23</td>
<td>8 and ¼ Hours</td>
</tr>
<tr>
<td></td>
<td>February 3, 13</td>
<td></td>
</tr>
<tr>
<td></td>
<td>March 4,</td>
<td></td>
</tr>
<tr>
<td>John Ridley</td>
<td>March 7</td>
<td>6 and ½ Hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Total number of hours others worked on the project: 137 and ¾ Hours

For a grand total, add the total number of hours you spent on the project to the total number of hours others worked on the project: 180 and ½ Hours
1. Project Summary (2 pages)

- **Applicant Organization** - Middle Peninsula Chesapeake Bay Public Access Authority, a special purpose political subdivision of the Commonwealth of Virginia.

- **Project Title** - Coastal Tidewater Virginia Eco-Employment Project – Restoration and Enhancement of Our Traditional Natural Resource Based Economy in the Middle Peninsula.

- **Site Location** - Across the 5 counties and 3 towns encompassing the political boundary of the Middle Peninsula Chesapeake Bay Public Access Authority.

- **Land Owner** - Middle Peninsula Chesapeake Bay Public Access Authority, P.O. Box 286, Saluda, VA 23149. Phone 804-758-2311. Fax 804-758-3221.

- **On-the-Ground Implementation Start Date** - Administrative start-up within 1 week of award start date from NOAA. Forest and Marine Workers on sites 2 months after project start date.

- Number and types of jobs created or maintained, labor hours and anticipated duration for each:

<table>
<thead>
<tr>
<th>Employment Types</th>
<th>Jobs</th>
<th>NAICS</th>
<th>Labor Hours</th>
<th>Duration Months</th>
<th>Hourly Wage</th>
<th>Employment Wages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coastal habitat improvement (Public Land + CELCP- 800 Acres)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project habitat site manager</td>
<td>1</td>
<td>541620</td>
<td>2.080</td>
<td>12</td>
<td>$15</td>
<td>$55,200</td>
</tr>
<tr>
<td>Cutter</td>
<td>1</td>
<td>115310</td>
<td>519</td>
<td>3</td>
<td>$15</td>
<td>$12,975</td>
</tr>
<tr>
<td>Dragger</td>
<td>1</td>
<td>115310</td>
<td>519</td>
<td>3</td>
<td>$25</td>
<td>$12,975</td>
</tr>
<tr>
<td>Top cutter and stecker</td>
<td>1</td>
<td>115310</td>
<td>519</td>
<td>3</td>
<td>$15</td>
<td>$12,975</td>
</tr>
<tr>
<td>Truck Driver</td>
<td>2</td>
<td>122310</td>
<td>1,058</td>
<td>3</td>
<td>$20</td>
<td>$20,790</td>
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<tr>
<td>Habitat resilient Labor</td>
<td>5</td>
<td>119910</td>
<td>5,055</td>
<td>3</td>
<td>$15</td>
<td>$78,830</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>$156,610</strong></td>
</tr>
</tbody>
</table>

| Tidal wetland restoration of the Shenk parcel (5 Acres) | | | | | | |
| Restoration manager | 1 | 541620 | 2.080 | 12 | $15 | $55,200 |
| Clear and grub | 3 | 116910 | 1,884 | 4 | $15 | $27,660 |
| Replant labor | 8 | 115310 | 2,076 | 4 | $15 | $41,830 |
| All Purpose project labor | 1 | 561320 | 2.080 | 12 | $15 | $51,200 |
| **Total** | | | | | | **$152,460** |

| Wetland debris removal initiative (250 Miles) | | | | | | |
| Marine Debris Project Coordinator and Manager | 1 | 541620 | 2.080 | 12 | $15 | $55,200 |
| Marine Debris Labor jobs | 15 | 119910 | 26,000 | 0 | $15 | $290,000 |
| VIPSA Truck Driver | 10 | 562111 | 1,250 | 6 | $15 | $18,750 |
| GIS Property Research Planner | 1 | 541320 | 2.080 | 6 | $15 | $52,000 |
| **Total** | | | | | | **$512,750** |

| Overall Project Coordinator | 1 | 541320 | 8,120 | 18 | $15 | **$78,000** |
| **Total** | | | | | | **$78,000** |

| TOTAL Wages | 58 | 49,420 | 107 | $89,760 |
| Direct Restoration Costs- Seedlings and plants | | | | $465,000 |
| **TOTAL FEDERAL REQUEST** | | | | **$1,358,760** |
| Cash Match | | | | $14,958 |
| **Total Project Costs** | | | | $1,673,718 |
• **Coastal and marine habitats to benefit from the project**

Project elements will improve the habitat for 25 state and globally rare plants (e.g. Cypress Knee Sedge - *Carex decomposita*), habitat for the Bald Eagle was recently on the Federal List of Threatened and Endangered Wildlife and Plants and 55 fish species in the Dragon Run Watershed. This Dragon Run population has been described as a “time capsule of what coastal plain rivers looked like 100 years ago.” Additionally, 1 project element will remove marine debris to restore ecosystem health and allow tidal wetlands to migrate further inland. The final element is an effort will restore 5 acres of wetlands to combat the gradual loss due to sea level rise in Tidewater Virginia.

• **Project Scope** – Create employment with 3 habitat restoration projects:

1. **Dragon Run Coastal Habitat Improvement Project**
2. **Middle Peninsula Marine Debris Removal Initiative.**
3. **Severn River Wetland Restoration Project**

These restoration activities have considerable economic impact and job creation potential.

• **Project Outputs/Outcomes** – Project outcomes include the following: Chesapeake Bay tidal salt marsh restoration of 5 acres; Coastal Plain riverine habitat enhancement of 300 acres of public coastal and PAA-owned CELCP land will be restored to a more pre-colonial Coastal Fluvial Terrace (an enigmatic group of communities occurring on flat, sandy terraces and islands along Coastal Plain rivers in eastern Virginia) and Tidal Bald Cypress Forests habitat (lunar-tidal Dragon Run Swamp); Removal of marine debris from 250 linear miles of tidal salt and tidal fresh wetlands. Project outcomes will offer long-term improvements in the region’s ecosystems including habitat improvement and job creation in several sectors of the local economy. Coastal restoration and wetland restoration projects are diverse and include a variety of labor-intensive and equipment-intensive activities that range from riparian planting and noxious weed treatments (invasive) to mechanical forest thinning and wetland reconstruction, respectively. Each of these activities creates long-term improvements in ecosystems health and economic activity all of which are important to the Middle Peninsula. Economic and employment multipliers, in the context of coastal forest and wetland restoration, represent the voyage of an investment in restoration.

• **Project Time Line:** 18 months

• **Permits and Approvals** – VA Dept of Forestry for silviculture (pine plantations) removal (forestry activities are exempt from local government permitting). Local Wetlands Boards for tidal marsh restoration permits.

• **Federal Funds Requested & Non-Federal Match Anticipated**

Federal Funds: $1,358,760       Cash Match: $314,958
**Overall Project Cost $1,673,718**
2. Project Narrative (15 pages)

One of the goals of President Obama’s economic recovery plan is to prepare workers for new green jobs. The decline of the primary economy over the past several years has had devastating socioeconomic effects on many urban and rural communities. Coastal Virginia and, more specifically, the 8 coastal localities of the Middle Peninsula PAA service area are not immune to this economic down turn. The Middle Peninsula of Virginia, positioned south of the Rappahannock River, north of the York and Pamunkey Rivers and east along the Chesapeake Bay, is blessed with an economy that is natural resource based. The foundation of the Middle Peninsula economy depends on a healthy, vital and vibrant green and blue infrastructure. Sadly, even a natural resources based economy is no longer immune to an economic down turn.

The American Recovery and Reinvestment Act of 2009 has opened an opportunity to restore ecosystem health while rebuilding local communities - by organizing resource management efforts so that their objectives include not only environmental health but also the creation of jobs, wealth and promotion of strong long-standing local social institutions. The Middle Peninsula Chesapeake Bay Public Access Authority (PAA), a special purpose political subdivision of the Commonwealth of Virginia, is uniquely qualified to administer a job creation-coastal and marine habitat restoration project. The PAA has experience is managing projects over $1,000,000 and has the fundamental belief that ecology, economy, and sound governance are intimately interconnected. The PAA believes that by understanding the relationships between ecological health, economic well-being, and a vibrant democracy, we create the building blocks of a sustainable society.

The PAA proposes the 3 following habitat restoration initiatives and job creation programs:

**CONCEPT: Dragon Run Coastal Habitat Improvement Project**

The PAA is the fee simple owner of approximately 800 acres of multi-parcel coastal and estuarine land across the Middle Peninsula of Virginia. Many parcels were acquired under the CELCP program administered by NOAA. This habitat restoration project will restore 300 acres of land from a single species management of loblolly-pine to a more diverse coastal plain habitat to provide greater biodiversity and water quality benefits with will improve diadromous fish spawning (Example: Dragon Bridge CELCP Parcel: Pine denoted to be restored to Coastal Fluvial Terrace Woodlands, Tidal Bald Cypress Forests and Woodlands). The habit rebalance will include a mix of Coastal Fluvial Terrace Woodlands (an enigmatic group of communities occurring on flat, sandy terraces and islands along Coastal Plain...
Rivers in eastern Virginia) and Tidal Bald Cypress Forests and Woodlands habitat (lunar-tidal Dragon Run Swamp), better described as:

**Fluvial Terrace Woodlands** characterized by xeric, sandy soils and open forest or woodland vegetation. Occurrences have been documented along the Nottoway River (Sussex County), Chickahominy River (New Kent County), Dragon Run Swamp (Middlesex County), and Mattaponi River (Caroline County). At all four sites, hickories (*Carya pallida* and *Carya alba*) are the dominant trees, with drought-tolerant oaks (climate change adaptation strategy) (*Quercus falcata*, *Quercus nigra*, *Quercus marilandica*, *Quercus alba*) and pines (*Pinus taeda*, *Pinus virginiana*) present in smaller numbers. Shrubs occurring at all or most sites include sand post oak (*Quercus margarettiae*), sweetleaf (*Symplocos tinctoria*), American holly (*Ilex opaca* var. *opaca*), and eastern red cedar (*Juniperus virginiana* var. *virginiana*). Typical herbs include sedges (*Carex albicans* var. *australis*, *Carex pensylvanica*, and *Carex tonsa*), Canada frostweed (*Helianthemum canadense*), butterfly-pea (*Clitoria mariana*), late goldenrod (*Solidago tarda*), and prickly-pear (*Opuntia humifusa* var. *humifusa*). The Dragon Run Swamp site is anomalous in the presence (despite low soil pH and base status) of several calciphiles such as eastern redbud (*Cercis canadensis* var. *canadensis*), wild cumbine (*Aquilegia canadensis*), smooth rock-cress (*Arabis laevigata* var. *laevigata*), robin's-plantain (*Erigeron pulchellus* var. *pulchellus*), and elm-leaved goldenrod (*Solidago ulmifolia* var. *ulmifolia*).

**Tidal Bald Cypress Forests and Woodlands** Coniferous or mixed swamp forests and woodlands dominated by bald cypress (*Taxodium distichum*) are known only from the upper tidal reaches of rivers in Maryland, southeastern Virginia and North Carolina. Examples are documented in Virginia from the lunar-tidal Dragon Run Swamp / Piankatank River (Gloucester, King and Queen, and Middlesex Counties), Chickahominy River (Charles City, James City, and New Kent Counties), and James River (Isle of Wight and Surry Counties); and the wind-tidal Northwest and North Landing Rivers (City of Chesapeake and Virginia Beach). At some sites, these communities occur in ecotones between tidal marshes and non-tidal backswamps or uplands. In lunar-tidal stands, bald cypress (*Taxodium distichum*) dominates an open to very open overstory, with or without hardwood associates such as swamp tupelo (*Nyssa biflora*), water tupelo (*Nyssa aquatica*), and green ash (*Fraxinus pennsylvanica*). Stand structure and canopy cover range from closed forest to very open woodland. Shrub and herb layers are variable but generally contain a mixture of species characteristic of both marshes and swamps. Some well-developed tidal bald cypress forests appear floristically similar to palustrine bald cypress-tupelo swamps. Other stands have nearly monospecific herb dominance by shoreline sedge (*Carex hyalinolepis*).
**EMPLOYMENT**: Hire local natural resource based forest workers to assess, extract, transport, remove commercial loblolly pine stands and replant with traditional Coastal Fluvial Terrace Woodlands habitat/Tidal Bald Cypress Forests Woodlands habitat plant materials.

**TOTAL JOBS CREATED 11.3**
(The .3 employment will be a full time project administrator overseeing each of the 3 project elements)

**CONCEPT: Severn River Wetland Restoration**
The PAA is the fee simple owner of 15 acres (Shenk parcel) of typical Chesapeake Bay Coastal Plain highland and lowland at the mouth of the Severn River, 5 miles from the Chesapeake Bay in Gloucester County, Virginia. This element will restore 5 acres of wetlands from a loblolly pine stand. The project will expand the spatial area that is regularly or irregularly flooded, lunar tidal wetlands and irregularly flooded, wind-tidal wetlands comprised of structurally and compositionally diverse vegetation (salt scrub, characterized by halophytic, shrub-dominated vegetation) represented with succession or silvicultural stands of loblolly pine. This will allow for easier migration of wetlands as sea level rise increases. Thereby improving the potential for coastal habitats to respond to climate change through restoration, while encouraging job creation.

**EMPLOYMENT**: Hire local contractors to remove silvicultural stands of loblolly pine and replant-restore to a typical tidal wetland.

**TOTAL JOBS CREATED 7.3**
(The .3 employment will be a full time project administrator overseeing each of the 3 project elements)

**CONCEPT: Middle Peninsula Marine Debris Removal Initiative**
Establish a work program to restore and clean the tidal marshes of the Middle Peninsula. This project will remove in-stream and near stream debris potentially impacting diadromous fish migration. Project manager will obtain access approval from upland property owners and assign workers to tidal marsh areas (250 linear miles of tidal marshes) to “hand carry” hurricane and nor’easter debris that is clogging and choking the tidal marshes of the Middle Peninsula. Each of the 5 counties will have specific
employees dedicated to them. The intent is to create jobs in each locality by offering fair and balanced spatial distribution of job creation). All debris will be weighted and sorted by the Virginia Peninsulas Public Services Authority and maps will be produced illustrating the spatial area cleaned.

EMPLOYMENT: Hire teams of local laborers to remove debris. Work with the Virginia Peninsulas Public Services Authority (VPPSA) to strategically locate debris sorting facilities across the Middle Peninsula at public access sites. Marine debris will be sorted by project and then weighed by VPPSA.

TOTAL JOBS CREATED 37.3
(The .3 employment will be a full time project administrator overseeing each of the 3 project elements)

1. IMPORTANCE and APPLICABILITY (20 points)

Intent of ARRA - 8 Points: The intention of the ARRA is to jumpstart the U.S. economy. The Middle Peninsula Chesapeake Bay Public Access Authority (PAA) is a special purpose government entity enabled and created by Virginia’s General Assembly to deliver state and local solutions to regional public access issues/projects. The PAA works on land protection, conservation, recreation and tourism projects. Restoring coastal and marine habitats and job creation is an issue of regional concern. The PAA was enabled to acquire lands for the benefit of the general public.

The PAA is uniquely and geographically positioned to provide employment and coastal habitat restoration opportunities. Jobs created within a rural community have a direct, indirect and induced benefit on the entire community. For example, every dollar invested in coastal forest and wetland restoration travels through the economy in several ways. Restoration project managers hire consultants, contractors, and employees to design, implement, and maintain projects. Consultants and contractors hire field crews, rent or purchase equipment, and buy goods and services needed to implement projects. Employees spend wages on goods and services to support their lifestyle. Our nation’s forests and watersheds have significant restoration and maintenance needs, including decaying forest roads, degraded streams and forests, coastal and marine habitats, invasive species and overstocked and imbalanced stands in need of rotation, thinning and
species rebalance. These needs present an opportunity to create green jobs—high-skill, high-quality jobs that benefit rural communities, small businesses, natural resource based workers, and the environment.

While there are many ways to think about job quality, in this context, the PAA considers the following benefits of the proposed job creation projects:

(1) wages high enough to support a family,
(2) respectful treatment,
(3) a safe and healthy workplace,
(4) stable, durable employment,
(5) the ability to work close to home, and
(6) structured on-the-job training and skills enhancement.

Project elements under this program will create 56 high quality jobs, restore over 300 acres of coastal habitat, and remove marine debris from 250 miles of shoreline, all of which have lasting ecological and economic value to the Middle Peninsula.

<table>
<thead>
<tr>
<th>Employment Types</th>
<th>Jobs</th>
<th>NACIS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Coastal Habitat Improvement (Public Land including CELCP)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Habitat Site Manager</td>
<td>1</td>
<td>541620</td>
</tr>
<tr>
<td>Cutter</td>
<td>1</td>
<td>113310</td>
</tr>
<tr>
<td>Dragger</td>
<td>1</td>
<td>113310</td>
</tr>
<tr>
<td>Top Cutter and Stacker</td>
<td>1</td>
<td>113310</td>
</tr>
<tr>
<td>Truck Driver</td>
<td>2</td>
<td>113310</td>
</tr>
<tr>
<td>Habitat Replant Labor</td>
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<td>115310</td>
</tr>
<tr>
<td><strong>Tidal Wetland Restoration of the Shenk Parcel</strong></td>
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<td>Restoration Manager</td>
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<tr>
<td><strong>Wetland Debris Removal Initiative</strong></td>
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<tr>
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<td>VPSA Truck Driver</td>
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<tr>
<td>GIS Property Research-Planner</td>
<td>1</td>
<td>541320</td>
</tr>
<tr>
<td><strong>Overall Project Coordinator</strong></td>
<td>1</td>
<td>541320</td>
</tr>
</tbody>
</table>

**TOTAL** 56
NOAA’s Mission - 8 Points: Recognizing that NOAA’s mission is to protect and restore marine and coastal habitats, the Authority is fortunate to hold title to numerous parcels of land which are offered to support NOAA’s mission. Six parcels of land total over 700 acres within the Dragon Run Swamp Watershed alone. The Dragon Run Swamp is a nationally recognized watershed and the following text is given to explain the unique nature of the system:

The Dragon Run flows forty miles along and through non-tidal and tidal bald cypress swamp situated in portions of Essex, King and Queen, Middlesex, and Gloucester Counties and drains into the Piankatank River and out into the Chesapeake Bay (see attached maps) The Dragon Run Watershed is 89,771 acres in size, is dominated by expansive coastal tidal and non-tidal floodplains, bald cypress swamps, upland forest systems, and open agricultural fields many of which harbor rare plant and animal species. Approximately 82 percent of the watershed is forested, compared to a statewide average under 70 percent.

Approximately 13 percent of the watershed is in open agricultural uses, 4 percent of the watershed is open water and only 1 percent is urbanized. The Smithsonian Institute published Natural Areas of the Chesapeake Bay Region: Ecological Priorities, which ranked 232 areas in the Chesapeake Bay Watershed based on their ecological value and the Dragon Run watershed was ranked 2nd overall and 1st in Virginia because of its swamp forests and hardwoods and fauna populations. Mistletoe that grows in the bald cypress trees supports the rare Cypress sphinx, a beautiful moth that is dependent on the habitat provided by this swamp and forest community. Twenty-five (25) state and globally rare plants (e.g., Cypress knee sedge (Carex decomposita)) and animals are supported by
habitat in Dragon Run. Fifty-five (55) fish species (diadromous) have been observed in Dragon Run; this population has been described as a “time capsule of what coastal plain rivers looked like 100 years ago.” Finally, this area supports habitat for the Bald Eagle was recently on the Federal List of Threatened and Endangered Wildlife and Plants. The habitat provided by the Dragon will support and sustain plant, fish and wildlife populations over time if the habitat is protected, enhanced and restored. Conservation partners working in the region have identified two priorities for land conservation (1) preserve large blocks of forested land in the watershed to maintain habitat cores and traditional land cover and uses and (2) acquire parcels along the main stem of the waterway which will provide for some public access to the water and protect the riparian corridor.

The importance of restoration projects in the Dragon Run watershed is supported by its identification as a “high priority area” in several comprehensive conservation plans. The Nature Conservancy has identified the Dragon Run watershed as a “TNC Action” site in its Chesapeake Bay Lowlands Ecoregional Plan (2003) and its Chesapeake Rivers Conservation Area Plan (2001). The Dragon is a high priority for two reasons, based on data provided by the Virginia Natural Heritage program and NatureServe. First, the Dragon is part of a 225,000 acre forested block located between the Pamunkey and Rappahannock Rivers. This block represents the largest relatively unfragmented forest in the lower Chesapeake Bay. Second, the aquatic system of the Dragon itself was identified as an Aquatic Portfolio Conservation Area by TNC, based on its abundance of native fish species and excellent water quality.

The Virginia Conservation Lands Needs Assessment identifies priority cores, corridors and stream conservation units in Virginia for habitat conservation. The majority of the watershed area is ranked as a priority area (58% of the total watershed) (see map to the right).

Recognizing the significance of this area locally and regionally the Virginia Coastal Zone Management Program and the Dragon Run Steering Committee of the Middle Peninsula Planning District Commission entered into a partnership to address the future of the watershed. The Dragon Run Watershed Special Area Management Plan (SAMP) was initiated in 2001 and
advocates for a comprehensive approach to addressing the future of the watershed that balances land use regulations, voluntary agriculture and forestry program participation, education and outreach and land conservation.

The Virginia Outdoors Plan (http://www.dcr.virginia.gov/prr/vopfiles.htm) identifies Dragon Run as an exceptional area for outdoor recreation, particularly for its kayaking and canoeing opportunities, in addition to its abundance of Natural Heritage resources (globally and state rare species and communities). The plan also suggests that the Dragon Run be evaluated for Virginia Scenic River status.

Three of the four counties in the watershed have adopted the Dragon Run Watershed Management Plan as an amendment to the county’s comprehensive plan. Special zoning overlays are currently being developed for each county in the watershed that will strengthen natural resource protection.

It is important to recognize the enhancements to the Dragon Run habitat’s health that will result from this project. Timber on private lands in the Dragon Run watershed is managed mainly for short-term income production. Loblolly pine plantations are typically managed on a 30-35 year rotation. This timber management style is undertaken by the landowners who need to generate revenue with timber that is grown for only a short period of time and then clear-cut. Additionally, private land management is typically a single-species management regime and can be characterized as having low biodiversity value. Private land management of timber maintains water quality in the system assuming timber is not harvested within 100 feet of streams or wetlands.

In contrast to private land management, lands managed by the PAA can be managed for longer rotations which results in more mature timber and improved coastal plain habitat diversity. Additionally, the PAA can restore lands from a single species management of loblolly-pine (Dragon Run CELCP example above) to a more diverse traditional Coastal Fluvial Terrace Woodlands.

The Authority also owns 15 acres of typical Chesapeake Bay Coastal Plain tidally influenced land comprised of succession or silvicultural stands of loblolly pine, tidal to no tidally influenced
area, which is slowly transitioning to salt scrub and characterized by halophytic, shrub-dominated vegetation. Salt scrub stands are strongly influenced by high winds and salt spray typical of their maritime environments. High-tide bush (*Baccharis halimifolia*) and marsh-elder (*Iva frutescens*) are the usual woody dominants. Saltgrass (*Distichlis spicata*), saltmeadow cordgrass (*Spartina patens*), southern bayberry (*Myrica cerifera var. cerifera*), and eastern rose-mallow (*Hibiscus moscheutos ssp. moscheutos*) are common associate communities - *Pinus* – *Quercus* – *Carya* (*Pinus Taeda Juniperus Myrica*) to Tidal Herbaceous Vegetation (*Juncus roemerianus*).

Five of the 15 acres will be restored from a loblolly pine stand. The project will expand the spatial area that is regularly or irregularly flooded, lunar tidal wetlands and irregularly flooded, wind-tidal wetlands comprised of structurally and compositionally diverse vegetation (salt scrub, characterized by halophytic, shrub-dominated vegetation) represented with succession or silvicultural stands of loblolly pine. This will allow for easier migration of wetlands as sea level rise increases. Thereby improving the potential for coastal habitats to respond to climate change through restoration, while encouraging job creation.

The Authority, in partnership with member local governments, manages public access across an estimated 1,000 miles of shore line. The final element of the project that supports NOAA’s mission is marine debris removal across 250 linear miles of shoreline. It is well known that marine debris smothers underlying plants and changes the composition of both high and low marsh. High marsh, which is only periodically flooded by spring and flood tides, is dominated by a mix of salt meadow cordgrass (*Spartina patens*) and short-form smooth cordgrass, with lesser amounts of spikegrass (*Distichlis spicata*), and black grass (*Juncus gerardii*). High marsh may also support switchgrass (*Panicum virgatum*), sea-lavender (*Limonium carolinianum*), salt marsh plantain (*Plantago maritima*). The salt marsh community is characterized by discrete, dense patches, usually strongly dominated by *Juncus roemerianus*, *Distichlis spicata*, *Spartina alterniflora*, *Spartina patens*, and *Limonium carolinianum*. This element will remove marine debris and restore tidal and non-tidal ecological marsh health.

**Project Sustainability (4 Points)** - Given that the PAA owns and maintains most land in perpetuity and for the benefit of the general public, any habitat restoration projects will be for the benefit of both current and future generations. The PAA as a body politic and works to solve short term problems with long term strategies. The PAA recognizes that next to the gulf-states, Virginia is second for loss in habitat to climate change and sea level rise. The PAA intends to manage all land using adaptation strategies to address the loss of habitat from sea level rise. Habitat enhancement and restoration initiatives on publically owned lands will allow for the planned migration of wetland habitat and coastal plain riparian areas inland.
As a second project element, marine debris removal 250 miles of shoreline will have a lasting positive impact on the quality of life within the lower Chesapeake Bay. This effort will work to remove any persistent solid material that is manufactured or processed and directly or indirectly, intentionally or unintentionally, disposed of or abandoned into the marine environment. It is well known that marine debris injures and kills marine life and interferes with migration patterns of fish, interferes with navigation safety, has adverse economic impacts to recreation, tourism, shipping and coastal industries, and poses a threat to human and animal health. The riparian areas of the Middle Peninsula are constantly polluted with a wide variety of marine debris ranging from soda cans and plastic bags to derelict fishing gear and abandoned vessels. This initiative will set the stage for improved public and private land stewardship by cleaning the shore and setting a new standard for Chesapeake Bay riparian health.

2. TECHNICAL/SCIENTIFIC MERIT (12 points)

Implementation (5 Points) - The PAA has a successful track record for managing, permitting, and expending grant amounts in excess of $1,000,000. The Authority has recently acquired over 700 acres of NOAA Coastal and Estuarine Land Conservation Program (CELCP) lands within the Dragon Run Swamp watershed. The Authority successfully administered and closed the CELCP grant. The PAA is staffed by professional planners who have decades of grants management experience.

The financial aspects of the project will be managed using Grants Management Software (GMS) that includes fund accounting software specifically designed to track grants management expenses and project activities. The GMS system has been in place for 15 years and has been audited annually under OMB- A133 with no findings.

The PAA will meet all Federal, state and local accounting and environmental laws, and will ensure that all applicable permits and/or approvals are in hand or will be obtained expeditiously, so that the on-the-ground activities can begin soon after the project’s proposed start date. The PAA has close working relations with all permitting agencies. The PAA anticipates a project time line that hires an overall project coordinator within 2 weeks of grant award. The Coordinator working with PAA administrative staff will then establish three separate projects within the GMS system.

The Coordinator will hire 3 project managers (three weeks). Once hired, each manager will develop a unique time line for project implementation (two weeks). On the ground restoration
planning and implementation work will commence within 2 months of the issuance of notice to proceed. All project work will be completed within an 18 month time line.

**Socioeconomic (3 Points)** – The PAA is confident that employment targets will be met. The Middle Peninsula unemployment rate (6%) has risen above the state average for the first time in over 20 years. The unemployment rate has been increasing each quarter. The Middle Peninsula natural resource based economy is suffering and workers are under-employed and/or unemployed. This project will provide families with wages for food, transportation, health care and other basic human necessities that many are currently going without. The PAA will follow all Davis-Bacon requirements or develop a similar process to ensure that prevailing wages offered under this grant program are paid. Before wages are paid, project management staff will compile a brief construction log associated with hours worked and restoration progress completed to ensure that the nexus between ecological restoration and economic prosperity are maximized.

**Safe/Sound/Appropriate (4 Points)** - All 3 of the proposed project concepts are technically sound, safe and will use appropriate methods and personnel. Much of the economic activity in the Middle Peninsula is natural resource based and our labor pool works on many natural resource projects. Our workers know how to cut trees, dig sand, catch seafood, replant natural plant materials and grow crops. The Middle Peninsula work force is well positioned and trained to provide the labor necessary for this initiative. Specifically:

1. **CONCEPT: Coastal habitat improvement.** This project will restore portions of the Dragon Run Swamp watershed, CELCP holdings and other public holdings to pre-colonial coastal habitats. A project habitat site manager will be hired to oversee the restoration. He/she will set quantifiable targets and project milestones before any habitat restoration work begins. The targets/milestones will be reviewed by a team of natural resource specialists from the Virginia Department of Forestry, Virginia Department of Conservation and Recreation plus Wetlands and Habitat Specialists from the Virginia Institute of Marine Science. PAA staff has a close working relationship and partnership with each of these entities.

2. **CONCEPT: Tidal wetlands restoration of the Shenk Parcel.** This project will restore 5 acres of tidal wetlands. A project restoration manager will be hired to oversee the restoration. The restoration manager will set quantifiable targets and project milestones before any habitat restoration work begins. The targets/milestones will be reviewed by a team of natural resource specialists from the Virginia Marine Resource Commission - Habitat Management Division, other Virginia Institute of Marine Science staff and local government codes compliance staff. PAA staff has a close working relationship with each of these entities.
3. **CONCEPT: Wetland debris removal initiative.** This project will restore and clean the tidal marshes of the Middle Peninsula. Local watermen, who are familiar with the area, will be the targeted employment group. Watermen make their daily living plying the waterways of the Middle Peninsula. A marine debris coordinator/project manager will work directly with the watermen and staff at the Virginia Peninsulas Public Service Authority (VPPSA) to coordinate debris loading and transportation logistics to ensure a sound, efficient and safe project. VPPSA staff will provide the PAA with a report on the type and tonnage of debris removed from the waterways. Once again, VPPSA is the Middle Peninsula’s regional governmental organization providing solid waste management services.

**OVERALL QUALIFICATIONS OF THE APPLICANT (6 points)**

**Capacity/Knowledge (4 Points)** - Staff available to assist with the implementation of the grant initiatives are full time regional government employees who specialize in Coastal Zone Management, Economic Development, Land Use Planning, Transportation Planning, Natural Hazards Planning, Climate Change and Sea Level Rise Planning. Additionally, the staff utilizes a Grants Management Software package designed specifically for fund accounting.

As illustrated, the software is designed for specific project level activity and financial accounting at the annual level, year to date, prior fiscal year and current expenses and revenues level. The PAA has a successful track record for managing, permitting, and expending grant funds in excess of $1,000,000. The Authority has recently acquired over 700 acres under the NOAA Coastal and Estuarine Land Conservation Program (CELCP) – the details of which are shown on this revenue and expenditure report.

**Facilities and Equipment (2 Points)** – The staff that will be working on this project are located in the Saluda Professional Center. The Center is a multi-faceted regional government complex offering an array of local and regional policy, technical assistance, and direct project management services. The PAA operates out of the Center in conjunction with the Middle...
Peninsula Planning District Commission (PDC), which has been providing regional planning and project management services continuously since 1972. The PDC provides basic facilities, administrative and accounting services for the PAA. The PDC/PAA is staffed with 10 professional planners and administrative support personnel.

4. PROJECT COST (10 points)

Cost Effectiveness (5 Points) - The PAA has prepared a project budget after consultation with local resource managers, restoration specialists, economic development specialists and Virginia Employment Commission staff with knowledge of prevailing local wage amounts. Blue collar wage rate determinations were primarily based on the average weekly wage by industry classification (agriculture, forestry, fishing and hunting) as determined by the Virginia Employment Commission and as adjusted for local labor market conditions.

Replanting estimates were derived after consultation with local habitat restoration specialists and professional planning/engineering firms specializing in wetland and habitat restoration projects. Labor and transportation estimates for marine debris removal were based on the prevailing wage rate determined by the Virginia Employment Commission for transportation and construction as well as from VPPSA operations staff based on actual costs.

Budget Breakdown (3 Points) - With over 20 years of grants management experience, project staff has developed a budget predicated on providing a quality wage for actual job creation, direct project implementation, direct project expenses and project administration.

Budget Detail (2 Points) - Due to the restoration component of the project, pine timber extracted from each restoration site will be delivered to Smurfit-Stone, the local pulp and paper mill in West Point. The Project Manager will negotiate a sale value price for the pine timber commodity. Proceeds generated from the sale of pine timber will run with the title of each PAA parcel. The Grants Management Software package will recognize revenue from the sale of pine timber and “book in” its cash value. This cash value will be used on each property for long term site management planning and eligible site improvements.

Existing timber valuations for the pine plantations were based on the international log rule. Pulpwood is based on the standard cord and include the following values estimated when the PAA acquired the properties: $114,871 for pine from the Dragon Bridge CELCP tract, $52,450 from pine on the Hayworth CELCP tract, $50,000 from pine from the Clay CELCP tract and $97,637 from pine on the Browne Tract (non-CELCP/non-restricted).
### Total Project Budget

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<th>Employment Types</th>
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<th>Duration Months</th>
<th>Hourly Wage</th>
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### Cost Estimate for Restoration Plant Materials

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<tr>
<th>Dragon Run Habitat Restoration</th>
<th>Seedling cost per acre</th>
<th>Unit cost (acres)</th>
<th>Seedling cost per 100 acres</th>
<th>Total seedling cost for 300 acres</th>
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<tr>
<td>Hardwood seedling cost per acre (with tubes)</td>
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<td><strong>Total</strong></td>
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<table>
<thead>
<tr>
<th>Tidal Wetland Restoration</th>
<th>Seedling cost per acre</th>
<th>Coastal Habitat acres restored</th>
<th>Seedling cost per 5 acres</th>
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<td>Herbaceous plants ($1.25 each X 20,000 plants per acre)</td>
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<td>Fringe Marsh Shrubs ($20 each X 1700 plants per acre)</td>
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<tr>
<td>Infill planting (ensure proper habitat coverage)</td>
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<tr>
<td><strong>Total</strong></td>
<td></td>
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<td><strong>$315,000</strong></td>
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**Grant Total All Direct Plan Costs** $465,000
Sample Timber Valuation Letters for Match Value

18-Jul-07

Calhoun/Clay tract
Route 610, King and Queen County, Virginia
Timber Valuation Estimate

Aug 2004 merchantable timber value $120,057
Desktop update of merchantable timber value $143,000
21 acres of age 7 +/- pine plantation @ $500 10,500
15 acres Age 15 +/- pine hardwood @ $500 7,500
27 acres of 2005 pine pltn (released) @ $190 5,130
Dragon swamp timber (easement encumbered) 0

Total $166,130

Desktop update based on Aug. 2004 timber inventory.

[Signature]
Proposal Submission to

Maine Sea Grant

By

THE VIRGINIA INSTITUTE OF MARINE SCIENCE
COLLEGE OF WILLIAM AND MARY

Accessing the Coastal & Tidal Waters of Virginia: A Web-based Tool

Lisa Ayers Lawrence
Principal Investigator

Margaret Pizer
Co-Principal Investigator

Thomas J. Murray
Associate Director for Advisory Services

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Director, Sponsored Programs

Dr. Roger Mann
Director for Research and Advisory Services

April 2009
Accessing the Coastal Waters of Virginia: A Web-Based Tool
PI: Lisa Ayers Lawrence & Co-PI: Margaret Pizer
Virginia Sea Grant Marine Extension Program, Virginia Institute of Marine Science
P.O. Box 1346, Gloucester Point, VA 23062

Project Period: July 1, 2009 – June 30, 2010  Amount Requested: $4,000

Sea Grant Goals & Stakeholder Needs
Coastal Virginia is developing rapidly, creating major challenges and new possibilities for water access management. Coastal communities are experiencing socio-economic transformations as people flock to live in the coastal zone. These new residents, along with the existing traditional marine businesses and a billion dollar coastal recreation and tourism industry, are leading to increasing conflicts for water access.

Virginia’s Chesapeake Bay Preservation Act, passed in 1988, requires that localities properly plan for water dependent uses, such as public access sites, within their land use tools. The Virginia Outdoors Plan, the state’s official document regarding land conservation, outdoor recreation and open space planning, identifies the need for additional public access as one of the two highest outdoor recreation needs and calls for localities to emphasize water access in their comprehensive plans. Despite the law and policy set forth by Virginia, localities often do not have the resources to make it a priority to study, research, design and implement water access policy solutions.

Virginia Sea Grant (VASG) has established itself as a regional and national leader in coastal community development. VASG initiated a national dialogue on water access issues by hosting a national symposium on water access in 2007. VASG regularly partners with the Virginia Department of Environmental Quality’s Coastal Zone Management Program and the Virginia Coastal Planning District Commissions to support the collective’s program goals of improving public access and developing working waterfront initiatives. VASG’s strategic plan identifies the need to balance economic and environmental competition for water uses as a priority area and commits the organization to playing a leadership role in maintaining and expanding public access. In 2003, the Virginia General Assembly created the Middle Peninsula Chesapeake Bay Public Access Authority (PAA), a new political subdivision, to address public access issues at the regional and local level. Among the efforts of the PAA is the acquisition of lands that serve as habitat restoration and provide passive public access. Together VASG and the PAA are poised to respond proactively to Virginia’s coastal access issues.

There is a great need for a dedicated, single purpose web presence to address public access issues of concern, including private and public access rights and privileges, legal principles and statutes, strategies and solutions, and other basic concepts. By adapting the Accessing the Maine Coast web tool for Virginia, we can continue to strengthen our educational outreach and provide public access assistance to residents and businesses in the Commonwealth.

Coastal Access Web Tool Implementation
Creators of the Accessing the Maine Coast web tool have done an exceptional job researching, explaining and organizing water access issues for their state. Many of these same issues apply to any coastal area, making the majority of the website transferrable to a Virginia-focused website. Like Maine, Virginia is a low water state meaning that property ownership extends out to the mean low tide line. This makes much of the Common Law and Statutes section applicable to Virginia. To make the site more applicable to Virginia, pictures, terminology and, when available, case studies will be updated to reflect specific Virginia access issues. The site will be posted to and maintained on the Virginia Institute of Marine Science (VIMS) Sun SPARC server (APACHE), with an ATM based T3 link to Network Virginia.
Adapting & Enhancing the Web Tool
Because of the unique enabling authority of the Public Access Authority, a new section will be added to the site to provide dynamic and updatable information about public access issues in Virginia. The PAA is a centralized authority for dealing with access issues and such centralization does not exist in many states. The PAA will be able to regularly post updates to public access policies, meeting minutes, and research results on specific access issues and resources.

The site will also serve as the backbone for a dynamic web-based Middle Peninsula Chesapeake Bay Public Access Master Plan. This web tool will provide the background documentation on basic water access principles such as the Public Trust Doctrine and low water versus high water states, thus allowing the Public Access Master Plan to focus on solutions and new policies without having to resupply the basic background information. Website users will be able to quickly and easily toggle between Master Plan documents and educational materials with the assurance that the information is correct and accurate.

Sea Grant Program Resources & Experience
VASG staff has extensive experience in designing and implementing dynamic web-based resources focused on coastal and ocean science education and outreach. VASG websites have received national awards including the National Oceanographic Partnership Program’s Excellence in Partnering Award, the National Marine Educators Association’s President’s Award, and the Mid-Atlantic Sea Grant Marine Extension Network’s Outstanding Achievement Award.

VASG is also an expert in a wide variety of areas important to coastal access issues, including the economic analysis of coastal industries, partnerships with recreational boating and fishing communities, and the development of training programs in marine trades.

Project Partner Resources & Experience
As a project partner, the PAA offers the expertise of a single purpose government entity dedicated only to public access issues. The PAA has become one of the leaders in public access solutions with the Commonwealth. The PAA has been recognized as a national model for public access innovation by the BoatUS Foundation, the Virginia Citizens Planning Academy and Scenic Virginia. The PAA is committed to offering technical and financial resources for this initiative. PAA staff has extensive expertise in coastal zone management planning, authoring legislative solutions, drafting enabling legislation, legal research, land record research, stakeholder and consensus building, coastal conflict mitigation and grant administration.

Outcomes
Communities experiencing the pressures of coastal development generally suffer from the same public access challenges – lack of public access awareness and education and lack of consistent public access policy. A well-designed web-based resource built on solid information architecture will improve the general public’s understanding of water access issues and offer local officials a central knowledge-based repository of information to help inform and frame future public access policy.

The Accessing the Coastal Waters of Virginia web tool will result in numerous short-, mid- and long-term outcomes. Coastal Virginia residents and visitors will be able to answer their questions about access to Virginia’s waters. Waterfront landowners will learn how much of the land they own, what their legal rights are to control public access on their property, and the benefits and liabilities of allowing public access on their land. Access seekers will learn what rights they have and how to find and gain access including through the PAA’s land designated for habitat and wetlands restoration. Local governments developing comprehensive plans will have a central repository for the most current legislation, resources and case studies on water access. This tool will educate the various stakeholder groups and bring them together to begin discussions thus promoting and facilitating the development of public policies and solutions for water access with an end result being an enhanced water access experience for all users.
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Middle Peninsula Chesapeake Bay Public Access Authority  
PO Box 286  
Saluda, VA 23149  
Phone: 804-758-2311  
Fax: 804-758-3221  
Email: LLawrence@mppdc.com

Budget Justification
Funding in the amount of $4,000 is requested to cover project staff salary for Ms. Lawrence and Ms. Pizer to adapt and enhance the Accessing the Maine Coast web tool for Virginia. This cost includes fringe benefits calculated at the rate of 40% and indirect charges at the rate of 10%. Ms. Lawrence will oversee the project and handle installing the web tool, producing new webpages, implementing dynamic database-driven enhancements and converting Maine-specific text and references to Virginia. Ms. Pizer will oversee the graphic design development and serve as content editor.

Mr. Lawrence, Middle Peninsula Chesapeake Bay Public Access Authority, will provide matching funds in the amount of $2,000. Mr. Lawrence will advise the project on public access laws and policy for Virginia.
OBJECTIVE
Improve public ocean literacy through the development of educational resources, websites and professional development institutes.

SUMMARY OF QUALIFICATIONS
An education specialist with a master’s degree in marine science and more than twelve years of experience in ocean science education resource development including development of dynamic websites focused on ocean science topics.

EDUCATION
B.S. in Marine Science and Biology, University of Miami (1992).

PROFESSIONAL EXPERIENCE
Marine Education Specialist, Virginia Sea Grant (VASG), (1998-present)
• Bridge: An Online Ocean Science Education Resource Center. Project coordinator and font-and back-end web-developer for a national, database-drive ocean science education resource website. Duties include development of information management database, website architecture, and custom web-database applications including content delivery pages, custom search engine and other interactive web tools. Additional duties include: evaluate education resources, conduct presentations and workshops, disseminate project information and prepare grant applications and reports. (www.marine-ed.org/bridge/; 1998-present)
• COSEE Networked Ocean World (NOW). Develop online ocean observing system (OOS) data-based classroom activities, accession new activities into Bridge online resource center, advise on development of and contribute to online community center for OOS educators, create online informational and training workshops, and disseminate project information. (2007-present)
• COSEE.net. Centers for Ocean Sciences Education Excellence (COSEE) network website administered through COSEE Central Coordinating Office (CCO). Oversaw organization of COSEE.net site, developed custom web-database applications including a search engine and news & announcements section, coordinated communications, implemented evaluations, demonstrations and training, assisted users and advised regional sites as needed. (2002-2007)
• National Oceanographic & Atmospheric Administration (NOAA) Special Collection. Coordinated creation of a mini-portal site within the Bridge to bring all NOAA education resources together. Developed and management of project database, resource metadata, customized search engine, dynamic webpage production and website visitation statistics. (www2.vims.edu/bridge/noaa/; 2006-2007)
• Digital Library for Earth System Education (DLESE) Integrated Search Engine. Project coordinator for collaboration with the DLESE. Integration of Bridge, NOAA, and COSEE education resource collections into DLESE and the National Science Digital Library (NSDL) as special collections. Restructured metadata architecture, delivered data
in XML to DLESE, customized the DLESE-developed search engines for use on Bridge and COSEE websites. (2003-2007)

- **Chesapeake Science on the Internet for Educators (ChesSIE).** Co-principal investigator for web-based resource center and communications hub for K-12 Chesapeake Bay science education. Coordinated grant activities, developed webpages, created project resource database, discovered and organized content, coordinated project advisory committee, conducted presentations and project dissemination. (www.bayeducation.net; 2001-present)

- **SubmergedLands.com.** Developed conference website for the 2007 International Submerged Lands Management Conference focused on administration of submerged lands and adjacent uplands. Developed and implemented conference website, created and managed email list serve, designed online subscription tool. Transitioning website from conference information to an online resource center for submerged lands administration. (2007-present)

- **WaterAccessUS.com.** Developed conference website for Working Waterways & Waterfronts, a national symposium on water access. Developed and implemented conference website, created and managed email list serve, designed online subscription tool. (2006-2007)

- **Species of Special Concern Professional Development Institute.** Developed, coordinated and conducted a series of annual educator professional development institutes with scientific lectures, hands-on field and laboratory activities, and data-based classroom activities. Topics have included sea turtles, sharks, blue crabs, oysters, sturgeon and submerged aquatic vegetation. (2001-present).

**Editorial Assistant/Associate Scientist,** Center for Coastal Physical Oceanography, Old Dominion University Research Foundation (1997–1998).

- Organized the Arctic System Science Ocean-Atmosphere Interactions (ARCSS OAI) 1997 All Hands Workshop and 1997 Science Steering Committee Meeting.
- Webmaster for the ARCSS OAI project website.
- Designed the ARCSS OAI informational brochure and edited and produced project reports.


- Conducted research project on intertidal fish communities on the CBNERRVA Goodwin Islands reserve site.
- Assistant coordinator of Estuaries Day, public awareness even with ~1,200 visitors.
- Wrote articles for a Fair Bay, the CBNERRVA newsletter.

**PUBLICATIONS**


**COMPUTER SKILLS**
Back- and front-end web development, database design and management, custom web application tools, and web design. ColdFusion, JSP, CSS, Javascript, HTML, MS Word, Excel, PowerPoint, Access, PaintShop Pro, and Dreamweaver.

**PROFESSIONAL DEVELOPMENT**

**Mid-Atlantic Marine Education Association** (MAMEA) (1998-present).
- Webmaster: Update and maintain the MAMEA website, online bulletin board, manage the email discussion list, and compile visitation statistics reports. (2005-present)
- Nomination Chair: Solicited candidates for board positions, contacted nominees, and conducted elections. (2002-2004)
- Virginia Representative: Compiled state activity reports, coordinated annual state mini-conferences, conducted current sessions at annual education conferences, promoted membership in regional chapter and national organization. (2000-2004)

**National Marine Educators Association** (NMEA), member (1998-present).
- *Scuttlebutt* email discussion list manager: Subscribe/unsubscribe members, moderate discussion by approving/discarding members, update list settings as necessary. (1998-present)
MARGARET PIZER
Virginia Institute of Marine Science                  804-684-7167
PO Box 1346
Gloucester Point, Virginia 23062          mpizer@vims.edu
____________________________________________________________________________

OBJECTIVE
Improve public understanding of science through writing and editing.

SUMMARY OF QUALIFICATIONS
An editor with a masters degree in biology and more than six years of experience in science writing, editing, and research as well as web design, layout, and project management.

PROFESSIONAL EXPERIENCE

Communicator, Virginia Sea Grant (VASG), (2008-present)
• Wrote, edited, designed, and produced the VASG magazine, the Virginia Marine Resource Bulletin.
• Coordinated VASG’s strategic planning process, wrote and edited plan sections, and maintained a planning blog.
• Maintained VASG website and set up and maintained sites for conferences and special programs.
• Designed and distributed an e-newsletter for the Virginia Clean Marina Program, and designed, wrote, and edited a variety of reports and other communication products.

• Wrote marketing materials such as newsletter articles, press releases, brochures, and web features for states in New England, translating the details of scientific research and conservation deals into language that was clear and compelling to the general public.
• Helped develop and implement comprehensive marketing plans for Maine, Massachusetts, and Connecticut.
• Managed the creation of newsletters, factsheets, and brochures, coordinating the work of writers, designers, photographers, printers, and production specialists to meet the communication needs of science and philanthropy staff.
• Assisted in the development of communications strategy and marketing materials for marine conservation projects on the East Coast.
• Wrote, designed and updated web pages and electronic newsletters using HTML (see nature.org/maine, nature.org/connecticut, and nature.org/massachusetts).
• Designed newsletters, brochures, postcards, and invitations for The Nature Conservancy in Maine.

Freelance Writer, Editor and Educator, (concurrent with other employment 2002-2008).
• Wrote three to four short book reviews per quarter for Conservation magazine (formerly Conservation In Practice; 2006-present).
• Edited a feature article and a column and wrote a news piece and a short book review while serving as an editorial intern at American Scientist magazine (2003).
• Educated visitors to the North Carolina Museum of Natural Sciences about the hands-on exhibits and activities in the Naturalist Center (2002-2003).

**Associate Editor, Conservation In Practice Magazine** (2004-2005).
- Edited and proofread articles and managed “BookMarks” and “Innovations” sections, including researching and developing story ideas and working with freelance writers, as well as creating figures and graphics and researching photographs.
- Wrote book reviews and author biographies for “In This Issue” section.
- Updated and revised magazine website (www.conbio.org/cip).
- Wrote, executed, and analyzed the results of a reader survey using surveymonkey.com.

**Research Assistant, Marine Conservation Biology Institute** (2005)
- Edited press releases, white papers, grant proposals, and magazine articles on marine conservation, including co-editing a special issue of Current on deep-sea corals.
- Conducted a detailed survey of the published literature on deep-sea conservation biology and created annotated bibliographies.

**Interpretive Specialist and Librarian, North Carolina Zoological Park** (2003–2004).
- Wrote educational sign copy for exhibits and worked with graphic designers on sign layout and design.
- Led team of senior staff members responsible for developing the educational content of new zoo exhibits.
- Managed zoo library collection, including over 4,000 titles and a yearly budget of over $20,000 for books, subscriptions, and AV equipment.
- Obtained research materials for Zoo staff members using online journals and databases and interlibrary loan.

**Graduate Teaching and Research Assistant, Duke University and State University of New York at Stony Brook** (1997–2002).
- Wrote and edited grant proposals and academic research papers during graduate training in marine biology.
- Designed, obtained funding for, and carried out graduate research on the evolution and embryological development of marine invertebrate animals.
- Taught laboratory and discussion sections for courses in Introductory Biology, Developmental Biology and Dinosaur Ecology and Evolution.
- Took courses and conducted research at marine labs, including Friday Harbor Labs in Washington, the Marine Biological Laboratory in Woods Hole, and Lizard Island Research Station in Queensland, Australia.

**COMPUTER SKILLS**
Word processing, database management, graphic design, desktop publishing, and web design. Macintosh and PC. Word, Excel, PowerPoint, Illustrator, PhotoShop, InDesign, Quark, PageMaker, Dreamweaver, Contribute, and EndNote.

**EDUCATION**
**Certificate in Editing, University of Washington Extension** (2005).
**B.A. in Biological Sciences** with Honors, University Of Chicago (1997).
VOLUNTEER EXPERIENCE

Interpretive and Beach Naturalist Volunteer, Seattle Aquarium, Seattle WA (2004–2005).
- Educated visitors to Seattle Aquarium and Seattle city beaches about marine life in Puget Sound.

- Organized and catalogued collections of marine invertebrate specimens.
- Wrote educational labels for Coastal Gallery exhibits.
April 2, 2009

Thomas J. Murray, Associate Director
VIMS Marine Advisory Services
Virginia Institute of Marine Science
College of William & Mary
P.O. Box 1346
Gloucester Point, Virginia 23062

RE: Public Access Web Project

Dear Tom:

The Middle Peninsula Planning District Commission’s Coastal Technical Assistance Program in association with the Middle Peninsula Chesapeake Bay Public Access Authority are pleased to partner with Virginia Sea Grant (VAGS) in the development of a web-based tool to improve public access awareness across Coastal Virginia and to create a web-based central repository for Middle Peninsula public access information.

We are aware of the extensive experience VAGS has in designing and implementing dynamic web-based resources focused on coastal and ocean science education and outreach and are pleased to offer $1,500 in cash match and $500 in staff time to assist with this initiative.

Please do not hesitate to contact me or Lewie Lawrence at 804-758-2311 if you have any questions or need additional information.

Sincerely,

J. Dan Kavanagh
Executive Director
**SEA GRANT BUDGET FORM 90-4**

**GRANTEE:** Virginia Institute of Marine Science  
**PRINCIPAL INVESTIGATOR:** Lisa Ayers Lawrence  
**DURATION**  
First 12 months of 24 month project  
7/1/2009 - 6/30/2010

### SALARIES AND WAGES:

<table>
<thead>
<tr>
<th>No. of People</th>
<th>Amount of Effort</th>
<th>Sea Grant Funds</th>
<th>Matching Funds</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Senior Personnel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a. (Co) Principal Investigator:</td>
<td>2</td>
<td>1.05</td>
<td>$2,600</td>
</tr>
<tr>
<td>b. Associates (Faculty or Staff):</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sub Total:</td>
<td>2</td>
<td></td>
<td>$2,600</td>
</tr>
</tbody>
</table>

2. Other Personnel

| | | | |
| a. Professionals: | | | |
| b. Research Associates: | | | |
| c. Res. Asst./Grad. Students: | | | |
| d. Prof. School Students: | | | |
| e. Pre-Bachelor Student(s): | | | |
| f. Secretarial-Clerical: | | | |
| g. Technicians: | | | |
| h. Other: | | | |
| Total Salaries and Wages: | | | $2,600 |

### B. FRINGE BENEFITS:

- Total Personnel (A and B): $1,038
- Total Personnel: $3,638

### C. PERMANENT EQUIPMENT:

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| | | |

### D. EXPENDABLE SUPPLIES AND EQUIPMENT:

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| | | |

### E. TRAVEL:

1. Domestic
2. International

| | |
| | |

| Total Travel: | |

### F. PUBLICATION AND DOCUMENTATION COSTS:

| | |
| | |

### G. OTHER COSTS:

1. Middle Peninsula Public Access Authority $2,000

| | |
| | |

Total Other Costs: $2,000

**TOTAL DIRECT COST (A through G):** $3,638 $2,000

**INDIRECT COST (On campus 10 % of ):** $362

**INDIRECT COST (Off campus % of ):**

**Total Indirect Cost:** $362

**TOTAL COSTS:** $4,000 $2,000

* salary/stipend costs not subject to indirect  
** other direct costs not subject to indirect
March 30, 2009

Thomas J. Murray, Associate Director
VIMS Marine Advisory Services
Virginia Institute of Marine Science
College of William & Mary
P.O. Box 1346
Gloucester Point, Virginia 23062

Dear Mr. Murray:

I am writing in support of the Middle Peninsula Chesapeake Bay Public Access Authority/Virginia Sea Grant (MPCBPAA/VASG) Public Access Web Template Project which will provide for a single access web presence dedicated exclusively to sharing information about public access to Virginia’s Tidal Waters. This project will enhance the ability of numerous agencies and jurisdictions to provide information to each other and the public regarding public access issues and opportunities.

The Middle Peninsula Planning District Commission supports increasing cooperation between agencies, jurisdictions and the general public to promote the orderly and efficient development of the physical, social, and economic elements of the Middle Peninsula of Virginia. The tidal waters of the Middle Peninsula are the nexus for the region’s economic and recreational activities. Enhancing the ability to provide current information regarding public access matters will assist the Commission in its mission.

The MPCBPAA has proven to be a leader in public access issues and solutions both regionally and nationally. I believe this project will strengthen its ability to continue to provide leadership and frame public access policy.

Sincerely,

J. Dan Kavanagh
Executive Director