VIMS Shoreline Permit Application Report # 01-1665

**APPLICANT:** ERNST, ANDREW N.
**Immediate Waterway:** Carters Creek E/B
**Locality:** LANCASTER COUNTY
**Purpose:** Erosion Control
**Application Type:** Wetlands
**Site Inspection:** 10/1/01
**Report Date:** 10/3/01

<table>
<thead>
<tr>
<th>Type of Activity</th>
<th>Proposed Extent</th>
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</thead>
<tbody>
<tr>
<td>Riprap (ft)</td>
<td>116</td>
</tr>
<tr>
<td>Impact Sand Flat Community (Type XIV) (ft2)</td>
<td>412</td>
</tr>
<tr>
<td>Fill Sand Flat Community (Type XIV) (ft2)</td>
<td>206</td>
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<tr>
<td>Total Impacts (ft2)</td>
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<tr>
<td>Total Impacts (Wetlands)</td>
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<tr>
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<tr>
<td>Total Impacts (Beach/Dune)</td>
<td>0</td>
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<tr>
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**Project Location**

Virginia Institute of Marine Science
School of Marine Science
P.O. Box 1346, Route 1208 Greate Road
Gloucester Point, Virginia 23062-1346
phone: (804)684-7380, fax: (804)684-7179, e-mail: wetlands@vims.edu
ANNOUNCEMENT

Information provided in this report is only the environmental and marine resources input into the decision making process and is based on biological, chemical, geological, and physical factors affecting the marine environment at and in the vicinity of the proposed activity. Parameters of the marine environment which may influence recreational, commercial, or industrial activities which are dependent on the marine environment are also considered where applicable.

The Virginia Institute of Marine Science (VIMS) is aware that regulatory or administrative bodies who weigh the overall potential public and private benefits and detriments in arriving at decisions must also consider other factors such as economics, aesthetics, zoning, or community desires.

Comments:

We have reviewed this proposal from a marine environmental viewpoint. A 2:1 slope for the revetment is recommended, which can be achieved by reducing the height of the structure by 1-2 feet. The revetment should not extend to the west property line through the marsh area. It should tie into the upland bank as depicted in the plan view. If the revetment is constructed as suggested, then the individual and cumulative adverse impacts resulting from this activity will be minimal.

Karen A. Duhring
Marine Scientist
Hydrologic units represent smaller, isolated watersheds defined by topography and flow direction. These units can be thought of as insulated ecosystems or landscapes within which resources can be managed at a larger scale. The cumulative impact of a project to resources within a hydrologic unit may be significantly greater than the impact to the larger watershed above.
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Permit Site Study Area

Project site

Rappahannock River watershed

Tidal Marsh Inventory - TMI
- Arrow Arum-Pickerelweed
- Big Cordgrass
- Black Needle rush
- Brackish Water Mixed
- Cattail
- Freshwater Mixed
- Reed Grass
- Saltbush
- Saltmeadow
- Saltmarsh Cordgrass
- Yellow Pond Lily

Rappahannock River watershed
Carters Creek E/B

N

0 0.5 1 Miles
To Wetlands Board: Please indicate Wetlands Board action on this sheet and return to VIMS

Application Number: 01-1665
Name: Ernst, Andrew N.
Locality: Lancaster County
Waterway: Carters Creek E/B

Please check here if this application was approved as proposed ____
Complete the form below if the application was modified.

<table>
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Comments: __________________________________________________________
__________________________________________________________
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Certified by: _____________________________________________