**VIMS Shoreline Permit Application Report # 01-1450**

**APPLICANT:** JOAN B. WARING  
Immediate Waterway: Mill Creek  
Locality: NORTHUMBERLAND COUNTY  
Purpose: Erosion Control  
Application Type: Wetlands  
Site Inspection: 8/27/01  
Report Date: 8/28/01

<table>
<thead>
<tr>
<th>Type of Activity</th>
<th>Proposed Extent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Riprap (ft)</td>
<td>60</td>
</tr>
<tr>
<td>Impact Brackish Water Mixed Community (Type XII) (ft^2)</td>
<td>240</td>
</tr>
<tr>
<td>Fill Brackish Water Mixed Community (Type XII) (ft^2)</td>
<td>120</td>
</tr>
<tr>
<td><strong>Total Impacts (ft^2)</strong></td>
<td><strong>240</strong></td>
</tr>
<tr>
<td><strong>Total Impacts (Wetlands)</strong></td>
<td><strong>240</strong></td>
</tr>
<tr>
<td><strong>Total Impacts (Subaqueous)</strong></td>
<td><strong>0</strong></td>
</tr>
<tr>
<td><strong>Total Impacts (Beach/Dune)</strong></td>
<td><strong>0</strong></td>
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<tr>
<td><strong>Total Fill (ft^2)</strong></td>
<td><strong>120</strong></td>
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**Project Location**

Northumberland County

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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
NOTICE

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. INFORMATION PROVIDED IN THIS REPORT IS, THEREFORE, ONLY THE ENVIRONMENTAL AND MARINE RESOURCES INPUT INTO THE DECISION MAKING PROCESS.

This assessment 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.

Comments:

We have reviewed this proposal from a marine environmental viewpoint. It is our opinion that the individual and cumulative adverse impacts resulting from this activity will be minimal if the new riprap will be placed landward of the marsh vegetation like the adjacent rock, as proposed.

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.
Permit Site Study Area

Northumberland County
NORTHERN NECK BAYSHORE
Mill Creek

Project site

Northern Neck Bayshore watershed

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

Roads
- Primary
- Secondary
- Tertiary
- Open water

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

Application Number: 01-1450
Name: Joan B. Waring
Locality: Northumberland County
Waterway: Mill Creek

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

ACTIVITIES

<table>
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<th>PERMITTED</th>
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Comments: ______________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________
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__________________________________________________________________________________

Certified by: __________________________________________