VIMS Shoreline Permit Application Report # 03-0356

**APPLICANT:** MARK KRIKSTAN  
**Immediate Waterway:** Potomac River  
**Locality:** WESTMORELAND COUNTY  
**Purpose:** Shoreline Stabilization  
**Application Type:** Wetlands, Subaqueous  
**Site Inspection:** 4/4/03  
**Report Date:** 4/14/03

**Type of Activity**  
<table>
<thead>
<tr>
<th>Proposed Extent</th>
<th>Project Location</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Riprap (ft)</strong></td>
<td></td>
</tr>
<tr>
<td>Fill Intertidal Beach Community (Type XIII) (ft2)</td>
<td>120</td>
</tr>
<tr>
<td>Impact Intertidal Beach Community (Type XIII) (ft2)</td>
<td>800</td>
</tr>
<tr>
<td>Impact Subaqueous Bottom (ft2)</td>
<td>1080</td>
</tr>
<tr>
<td>Fill Subaqueous Bottom (ft2)</td>
<td>200</td>
</tr>
<tr>
<td><strong>Total Impacts (ft2)</strong></td>
<td>1280</td>
</tr>
<tr>
<td>Total Impacts (Wetlands)</td>
<td>1080</td>
</tr>
<tr>
<td>Total Impacts (Subaqueous)</td>
<td>200</td>
</tr>
<tr>
<td>Total Impacts (Beach/Dune)</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Fill (ft2)</strong></td>
<td>1000</td>
</tr>
</tbody>
</table>

**Project Location:** Westmoreland County
ATTENTION

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.

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.

Comments:

We have reviewed this proposal from a marine environmental viewpoint and it is our opinion that the individual and cumulative adverse impacts resulting from the use of riprap to replace a failing bulkhead will be approximately 980 sq.ft. of impact to the beach, of which approximately 680 sq.ft. would be considered fill. It is my opinion that this is the preferred alternative from an environmental perspective.

Thomas A. Barnard, Ph.D.
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

Westmoreland County
LOWER POTOMAC RIVER
Potomac River

Project site

Lower Potomac River watershed

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

Roads
- Primary
- Secondary
- Tertiary

Intertidal flat

Open water

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

Application Number: 03-0356
Name: Mark Krikstan
Locality: Westmoreland County
Waterway: Potomac River

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

<table>
<thead>
<tr>
<th>ACTIVITIES</th>
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<th>PERMITTED</th>
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Comments: __________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________

Certified by: __________________________________________