VIMS Shoreline Permit Application Report #03-0616

APPLICANT: EDWARD & CAROL CLARK
Immediate Waterway: Rappahannock River
Locality: ESSEX COUNTY
Purpose: Shoreline Stabilization
Application Type: Wetlands
Site Inspection: 4/16/03
Report Date: 4/22/03

Type of Activity

<table>
<thead>
<tr>
<th>Proposed Extent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulkhead Toe Protection (ft)</td>
</tr>
<tr>
<td>Impact Intertidal Beach Community (Type XIII) (ft²)</td>
</tr>
<tr>
<td>Riprap (ft)</td>
</tr>
<tr>
<td>Impact Intertidal Beach Community (Type XIII) (ft²)</td>
</tr>
</tbody>
</table>

Total Impacts (ft²) 230
Total Impacts (Wetlands) 230
Total Impacts (Subaqueous) 0
Total Impacts (Beach/Dune) 0
Total Fill (ft²) 0

Project Location

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Virginia Institute of Marine Science
School of Marine Science
P.O. Box 1346, Route 1208 Great 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 application from a marine environmental perspective and it is our opinion that the individual and cumulative adverse impacts resulting from the proposed bulkhead toe and riprap revetment will include approximately 230 square feet of intertidal beach community. The current structure appears to be failing and has in fact failed in one section. A bulkhead toe revetment may be the Best Management Practice that can provide protection for the very steep bank as well as have the least impact to the intertidal zone.

Rebecca J. Thomas
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

Essex County
RAPPAHANNOCK RIVER
Rappahannock River

Project site

Locality boundaries

Rappahannock River watershed

Tidal Marsh Inventory - TMI
- Arrow Arum-Pickerelwee
- Big Cordgrass
- Black Needle rush
- Brackish Water Mixed
- Cattail
- Freshwater Mixed
- Reed Grass
- Salt bush
- Salt meadow
- Salt marsh Cordgrass
- Yellow Pond Lily

Roads
- Primary
- Secondary
- Tertiary

Intertidal flat

Open water

0 0.5 1 Miles

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

Application Number: 03-0616
Name: Edward & Carol Clark
Locality: Essex County
Waterway: Rappahannock 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>
<th>PROPOSED</th>
<th>PERMITTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulkhead Toe Protection (ft)</td>
<td>100</td>
<td>____</td>
</tr>
<tr>
<td>Impact Intertidal Beach Community (Type XIII) (ft²)</td>
<td>200</td>
<td>____</td>
</tr>
<tr>
<td>Riprap (ft)</td>
<td>16</td>
<td>____</td>
</tr>
<tr>
<td>Impact Intertidal Beach Community (Type XIII) (ft²)</td>
<td>30</td>
<td>____</td>
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Comments: __________________________________________________________________________________
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Certified by: __________________________________________