VIMS Shoreline Permit Application Report # 03-0844

APPLICANT: BERNARD & CAROL REILLY
Immediate Waterway: Pocomoke Sound
Locality: ACCOMACK COUNTY
Purpose: Shoreline Stabilization
Application Type: Wetlands
Site Inspection: 5/1/03
Report Date: 5/20/03

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Type of Activity

<table>
<thead>
<tr>
<th>Type of Activity</th>
<th>Proposed Extent</th>
</tr>
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<tbody>
<tr>
<td>Bulkhead Replacement (ft)</td>
<td>210</td>
</tr>
<tr>
<td>Fill Sand Flat Community (Type XIV) (ft2)</td>
<td>1200</td>
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<tr>
<td>Impact Sand Flat Community (Type XIV) (ft2)</td>
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<tr>
<td>Marsh Toe (ft)</td>
<td>343</td>
</tr>
<tr>
<td>Impact Sand Flat Community (Type XIV) (ft2)</td>
<td>1715</td>
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Total Impacts (ft2) 3420
Total Impacts (Wetlands) 3420
Total Impacts (Subaqueous) 0
Total Impacts (Beach/Dune) 0
Total Fill (ft2) 1200

Project Location

Accomack County
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 and it is our opinion that the individual and cumulative adverse impacts resulting from this activity can be reduced.

The replacement bulkhead and approximately half the proposed refurbished bulkhead represent a minor, temporary impact to marine resources. The same is true for the reconstructed groins. Where the upland has eroded away from the bulkhead to be refurbished, we recommend the use of the riprap toe structure following the marsh inland and not filling the open water area now landward of the bulkhead. See photo on page one of this report.

1. Where the riprap structure is to serve as marsh toe protection, its top elevation should be as close to the height of the marsh surface as feasible and it should be contiguous to (constructed up against) the marsh scarp.

2. Where the structure is to serve as a sill across open beach area, the top elevation should be as close to mean high water as feasible or it should follow the marsh contours into and then against the upland before continuing on as toe protection.

These recommendations will allow protection of the property while minimizing the overall loss of wetland and marine resources.

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.
Permit Site Study Area

Accomack County
EASTERN SHORE BAYSIDES
Pocomoke Sound

- Open water
- Intertidal flat
- Roads
  - Primary
  - Secondary
  - Tertiary
- Tidal Marsh Inventory - TMI
  - Arrow Arum-Pickelweed
  - Big Cordgrass
  - Black Needlerush
  - Brackish Water Mixed
  - Cattail
  - Freshwater Mixed
  - Reed Grass
  - Saltbush
  - Saltmeadow
  - Saltmarsh Cordgrass
  - Yellow Pond Lily

Eastern Shore Bayside watershed

Project site

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

Application Number: 03-0844
Name: Bernard & Carol Reilly
Locality: Accomack County
Waterway: Pocomoke Sound

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

**ACTIVITIES**

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Comments: ___________________________________________________________
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Certified by: ________________________________