VIMS Shoreline Permit Application Report # 02-0838

APPLICANT: CHARLIE CLEMONS
Immediate Waterway: Rappahannock River
Locality: MIDDLESEX COUNTY
Purpose: Erosion Control
Application Type: Wetlands, Subaqueous
Site Inspection: 5/23/02
Report Date: 6/3/02

Type of Activity

<table>
<thead>
<tr>
<th>Proposed Extent</th>
<th>Project Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Groins (ft)</td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>Middlesex County</td>
</tr>
<tr>
<td>Groins</td>
<td></td>
</tr>
<tr>
<td>1 Unit(s)</td>
<td></td>
</tr>
<tr>
<td>Impact Brackish Water Mixed Community (Type XII) (ft2)</td>
<td>24</td>
</tr>
<tr>
<td>Fill Brackish Water Mixed Community (Type XII) (ft2)</td>
<td>24</td>
</tr>
<tr>
<td>Impact Sand Flat Community (Type XIV) (ft2)</td>
<td>10</td>
</tr>
<tr>
<td>Fill Sand Flat Community (Type XIV) (ft2)</td>
<td>10</td>
</tr>
<tr>
<td>Impact Subaqueous Bottom (ft2)</td>
<td>12</td>
</tr>
<tr>
<td>Fill Subaqueous Bottom (ft2)</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Impacts (ft2) 46
Total Impacts (Wetlands) 34
Total Impacts (Subaqueous) 12
Total Impacts (Beach/Dune) 0
Total Fill (ft2) 46
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 application from a marine environmental perspective and it is our opinion that the individual and cumulative adverse impacts resulting from the proposed activity will be minimal.

David L. O’Brien
Marine Scientist
Total Permitted Wetlands Loss by Type for
RAPPAHANNOCK RIVER : 1996-1999

<table>
<thead>
<tr>
<th>Community Type</th>
<th>Extent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegetated Wetlands</td>
<td>24894 ft²</td>
</tr>
<tr>
<td>Non-Vegetated Wetlands</td>
<td>148289 ft²</td>
</tr>
<tr>
<td>Subaqueous Bottom</td>
<td>46349 ft²</td>
</tr>
</tbody>
</table>

Total Permitted Wetlands Loss by Type for
Middlesex County : 1996-1999

<table>
<thead>
<tr>
<th>Community Type</th>
<th>Extent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegetated Wetlands</td>
<td>17443 ft²</td>
</tr>
<tr>
<td>Non-Vegetated Wetlands</td>
<td>60332 ft²</td>
</tr>
<tr>
<td>Subaqueous Bottom</td>
<td>20753 ft²</td>
</tr>
</tbody>
</table>

Total Proposed Shoreline Structures and Activities for
Middlesex County -- 1996-1999

<table>
<thead>
<tr>
<th>Structure Type</th>
<th>Extent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Ramps</td>
<td>2217 ft²</td>
</tr>
<tr>
<td>Boat Slips</td>
<td>1 Openpile</td>
</tr>
<tr>
<td>Boat Ramps</td>
<td>2 ft</td>
</tr>
<tr>
<td>Breakwater</td>
<td>610 ft</td>
</tr>
<tr>
<td>Bulkhead</td>
<td>7404 ft</td>
</tr>
<tr>
<td>Commercial Structure</td>
<td>46379 ft²</td>
</tr>
<tr>
<td>General Fill</td>
<td>1222 ft²</td>
</tr>
<tr>
<td>Groins</td>
<td>180 ft</td>
</tr>
<tr>
<td>Groins</td>
<td>152</td>
</tr>
<tr>
<td>Groins</td>
<td>6997 ft</td>
</tr>
<tr>
<td>Bulkhead Toe Protection</td>
<td>5659 ft</td>
</tr>
<tr>
<td>Bulkhead Replacement</td>
<td>4383 ft</td>
</tr>
<tr>
<td>Beach Nourishment</td>
<td>6495 ft²</td>
</tr>
<tr>
<td>Beach Nourishment</td>
<td>419 ft</td>
</tr>
<tr>
<td>New Dredging</td>
<td>22811 yd³</td>
</tr>
<tr>
<td>Maintenance dredging</td>
<td>8849 yd³</td>
</tr>
<tr>
<td>Riprap</td>
<td>14420 ft</td>
</tr>
<tr>
<td>Submarine Crossings</td>
<td>90 ft</td>
</tr>
</tbody>
</table>

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

Middlesex County
RAPPAHANNOCK RIVER
Rappahannock River

Project site
Locality boundaries
Rappahannock River watershed
Tidal Marsh Inventory - TMI
Arrow Arum-Pickerelweed
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: 02-0838
Name: Charlie Clemons
Locality: Middlesex County
Waterway: Rappahannock River

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

ACTIVITIES

<table>
<thead>
<tr>
<th>PROPOSED</th>
<th>PERMITTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Groins (ft) 48</td>
<td>___</td>
</tr>
<tr>
<td>Groins 1 Units</td>
<td>___</td>
</tr>
<tr>
<td>Impact Brackish Water Mixed Community (Type XII) (ft2) 24</td>
<td>___</td>
</tr>
<tr>
<td>Fill Brackish Water Mixed Community (Type XII) (ft2) 24</td>
<td>___</td>
</tr>
<tr>
<td>Impact Sand Flat Community (Type XIV) (ft2) 10</td>
<td>___</td>
</tr>
<tr>
<td>Fill Sand Flat Community (Type XIV) (ft2) 10</td>
<td>___</td>
</tr>
<tr>
<td>Impact Subaqueous Bottom (ft2) 12</td>
<td>___</td>
</tr>
<tr>
<td>Fill Subaqueous Bottom (ft2) 12</td>
<td>___</td>
</tr>
</tbody>
</table>

Comments: __________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________

Certified by: _________________________________