## VIMS Shoreline Permit Application Report # 03-0531

**APPLICANT:** DONALD G. CRAWFORD  
Immediate Waterway: Cod Creek  
Locality: NORTHUMBERLAND COUNTY  
Purpose: Erosion Control  
Application Type: Wetlands  
Site Inspection: 3/25/03  
Report Date: 4/25/03

### Type of Activity

<table>
<thead>
<tr>
<th>Activity</th>
<th>Proposed Extent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Riprap (ft)</td>
<td>165</td>
</tr>
<tr>
<td>Impact Saltmarsh Cordgrass Community (Type I) (ft²)</td>
<td>208</td>
</tr>
<tr>
<td>Fill Saltmarsh Cordgrass Community (Type I) (ft²)</td>
<td>104</td>
</tr>
<tr>
<td>Impact Sand/Mud Mixed Flat Community (Type XV) (ft²)</td>
<td>452</td>
</tr>
<tr>
<td>Fill Sand/Mud Mixed Flat Community (Type XV) (ft²)</td>
<td>226</td>
</tr>
</tbody>
</table>

Total Impacts (ft²) 660  
Total Impacts (Wetlands) 660  
Total Impacts (Subaqueous) 0  
Total Impacts (Beach/Dune) 0  
Total Fill (ft²) 330

### Project Location

![Northumberland County Map](image_url)
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:

A riprap revetment and bank grading are proposed to stabilize erosion of a high bank. This is a joint bank grading and stabilization project with the adjacent property owner (APO Lister). If the revetment is constructed as indicated by the flagged alignment, then a vegetated marsh area will be impacted. If possible, the toe of the revetment should be placed as far landward from mean high water as possible to allow some recovery of the marsh grass. Erosion and sediment control measures will be needed until the graded bank is permanently stabilized with a cover of vegetation.

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.
VIMS Shoreline Permit Application Report # 03-0531

Permit Site Study Area

Northumberland County
LOWER POTOMAC RIVER
Cod Creek

Open water
Intertidal flat
Roads
Primary
Secondary
Tertiary

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

Project site
Lower Potomac River watershed

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

Application Number:  03-0531
Name:  Donald G. Crawford
Locality:  Northumberland County
Waterway:  Cod Creek

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>Riprap (ft) 165</td>
<td>_____</td>
</tr>
<tr>
<td>Impact Saltmarsh Cordgrass Community (Type I) (ft2) 208</td>
<td>_____</td>
</tr>
<tr>
<td>Fill Saltmarsh Cordgrass Community (Type I) (ft2) 104</td>
<td>_____</td>
</tr>
<tr>
<td>Impact Sand/Mud Mixed Flat Community (Type XV) (ft2) 452</td>
<td>_____</td>
</tr>
<tr>
<td>Fill Sand/Mud Mixed Flat Community (Type XV) (ft2) 226</td>
<td>_____</td>
</tr>
</tbody>
</table>

Comments:  __________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________
__________________________________________________________________________________

Certified by:  __________________________________________