**VIMS Shoreline Permit Application Report # 01-1589**

**APPLICANT:** SLOAN, JOHN F.  
Immeidate Waterway: Moran Creek  
Locality: LANCASTER COUNTY  
Purpose: Improve Navigation  
Application Type: Subaqueous  
Site Inspection: 10/4/01  
Report Date: 10/29/01

<table>
<thead>
<tr>
<th>Type of Activity</th>
<th>Proposed Extent</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Dredging (yd³)</td>
<td>465</td>
</tr>
<tr>
<td>Impact Subaqueous Bottom (ft²)</td>
<td>8760</td>
</tr>
<tr>
<td>Total Impacts (ft²)</td>
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<tr>
<td>Total Impacts (Wetlands)</td>
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<td>Total Fill (ft²)</td>
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**Project Location**

Virginia Institute of Marine Science  
School of Marine Science  
P.O. Box 1346, Route 1208 Greate Road  
Gloucester Point, Virginia 23062-1346  
phone: (804)684-7380, fax: (804)684-7179, e-mail: wetlands@vims.edu
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. The applicant proposes to dredge a new 292-foot channel from an existing pier to a control depth of 6 feet below mean low water in Moran Creek. When possible, open pile piers should be lengthened as much as possible to reach desired water depths in order to minimize the amount of dredging required. Dredging is a significant, though temporary, disruption which must be repeated in order to maintain water depths. Natural wind, wave and current forces will eventually restore the existing bottom contours. Periodic dredging will be needed to maintain the new channel.

Although the exact location of the dredge material disposal area was not staked in the field, it appears it will be located at the foot of the hill by the shed only 25 feet landward from mean low water. The vegetation present in this vicinity is indicative of a tidal wetland occasionally flooded during extreme high tide events. Where feasible, controlled disposal of dredged material on upland property is the preferred method.

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.
Lancaster County
RAPPAHANNOCK RIVER
Moran Creek

Permit Site Study Area

Project site

Rappahannock River watershed

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

SAV - 1998
- Density
  - less than 10%
  - 10-40%
  - 40-70%
  - 70-100%

Roads
- Primary
- Secondary
- Tertiary
- Open water

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

Application Number:  01-1589
Name:  Sloan, John F.
Locality:  Lancaster County
Waterway:  Moran Creek

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

ACTIVITIES

<table>
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Comments:  __________________________________________________________________________________
__________________________________________________________________________________
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__________________________________________________________________________________

Certified by:  __________________________________________