VIMS Shoreline Permit Application Report # 03-2420

**APPLICANT:** CITY OF POQUOSON
- Locality: CITY OF POQUOSON
- Immediate Waterway: Unnamed canal
- Watershed: PENINSULA BAYSHORE
- Purpose: Improve Navigation
- Application Type: Subaqueous
- Site Inspection: 1/7/04
- Report Date: 1/21/04

**Type of Activity**
- Maintenance dredging (yd³) 40
- Impact Subaqueous Bottom (ft²) 3200

**Proposed Extent**
- Total Impacts (ft²) 3200
  - Total Impacts (Wetlands) 0
  - Total Impacts (Subaqueous) 3200
  - Total Impacts (Beach/Dune) 0
  - Total Fill (ft²) 0

**Project Location**
- City of Poquoson

Center for Coastal Resources Management
P.O. Box 1346
Gloucester Point, VA 23062-1346
(804)684-7380, fax: (804)684-7179, e-mail: http://ccrm.vims.edu/
NOTE

The Virginia Institute of Marine Science (VIMS) recognizes that the regulatory process considers all aspects of a particular project, including socioeconomic factors. This report, however, only addresses marine environmental concerns.

Findings & Recommendations:

We have reviewed this proposal from a marine environmental viewpoint. An increase in turbidity as a result of the dredging operation is expected. However, given the small volume of material to be removed and the limited areal extent of the dredging, the water quality impacts should be very localized and short-lived.

Pamela A. Mason
Marine Scientist
Total Permitted Wetlands Loss by Type for
PENINSULA BAYSHORE : 1996-1999

<table>
<thead>
<tr>
<th>Community Type</th>
<th>Extent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegetated Wetlands</td>
<td>64434 ft²</td>
</tr>
<tr>
<td>Non-Vegetated Wetlands</td>
<td>41134 ft²</td>
</tr>
<tr>
<td>Subaqueous Bottom</td>
<td>13294 ft²</td>
</tr>
</tbody>
</table>

Total Permitted Wetlands Loss by Type for
City of Poquoson : 1996-1999

<table>
<thead>
<tr>
<th>Community Type</th>
<th>Extent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegetated Wetlands</td>
<td>15577 ft²</td>
</tr>
<tr>
<td>Non-Vegetated Wetlands</td>
<td>5412 ft²</td>
</tr>
<tr>
<td>Subaqueous Bottom</td>
<td>1810 ft²</td>
</tr>
</tbody>
</table>

Total Proposed Shoreline Structures and Activities for
City of Poquoson -- 1996-1999

<table>
<thead>
<tr>
<th>Structure Type</th>
<th>Extent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boat Ramps</td>
<td>190 ft²</td>
</tr>
<tr>
<td>Breakwater</td>
<td>130 ft</td>
</tr>
<tr>
<td>Bulkhead</td>
<td>661 ft</td>
</tr>
<tr>
<td>Commercial Structure</td>
<td>4274 ft²</td>
</tr>
<tr>
<td>General Fill</td>
<td>3374 ft²</td>
</tr>
<tr>
<td>Bulkhead Replacement</td>
<td>830 ft</td>
</tr>
<tr>
<td>New Dredging</td>
<td>1292 yd³</td>
</tr>
<tr>
<td>Riprap</td>
<td>6589 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

Unnamed canal
City of Poquoson

Project site

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

Roads
- Primary
- Secondary
- Tertiary

Intertidal flat

Open water

0 0.25 0.5 Miles
To Wetlands Board / VMRC: Please indicate Wetlands Board / VMRC action on this sheet and return to VIMS

Application Number: 03-2420
Name: City of Poquoson
Locality: City of Poquoson
Waterway: Unnamed canal

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>Maintenance dredging (yd³)</td>
<td>40</td>
<td>_____</td>
</tr>
<tr>
<td>Impact Subaqueous Bottom (ft²)</td>
<td>3200</td>
<td>_____</td>
</tr>
</tbody>
</table>

Please specify required modifications: _______________________________________________________
_______________________________________________________________________________________
_______________________________________________________________________________________
_______________________________________________________________________________________
_______________________________________________________________________________________

Thomas A. Barnard, Director