## Planning Workshop
### Engineering with Nature: Sediment Management in the Coastal Bays
**November 13, 2012**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker/Topic</th>
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<tbody>
<tr>
<td>9:00</td>
<td>Roman Jesien, Introduction, Goals, Objectives</td>
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<td>9:15 – 9:30</td>
<td>Darlene Wells, MD DNR, Nutrient and Sediment Loads</td>
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<td>– St Martins River</td>
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<td>9:30 – 9:45</td>
<td>Evamaria Koch, UMCES, Horn Point Laboratory</td>
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<td>Engineering with Nature</td>
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<td>9:45 – 10:00</td>
<td>Bart Wilson, DE Center for Inland Bays,</td>
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<td>Use of dredge material in wetland restoration</td>
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<td>10:00 – 10:15</td>
<td><strong>Break</strong></td>
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<td>10:15 – 10:30</td>
<td>Dave Brinker, MD DNR - Skimmer Island Update</td>
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<td>10:30 – 12:00</td>
<td>Open Mike Opportunity</td>
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<td>12:00</td>
<td><strong>Lunch</strong></td>
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Open Mike (con’t)

- Needs assessment
- Restoration/creation needs
- **Prioritization (short-term, medium-term & long-term)**
- Funding sources
- Criteria for permit streamlining
  - Identify “take” and “put” sites
  - Establish criteria for material and sites
- Time line

CCMP/NADAG Update
NADAG committee formulation
Boating safety and erosion issues “ditch”

Carlson restoration

Marsh erosion

Sand starved - Oceanic Hotel
• **Relevant Timeline:**

• **1995** MD Coastal Bays Admitted into NEP  
• **1998** COE OC Water Resources Report  
• **2000** CCMP Released  
• **2004** State of the Bays Report  
• **2005** Navigation and Dredging Planning Guide (Navigation and Dredging Advisory Group NADAG) for Maryland’s Coastal Bays (met initially Dec 1999)

• The 1998 COE Report determined five Environmental Restoration Projects that were important to reverse degradation from agriculture, development, and erosion in the coastal bays. (http://mdcoastalbays.org/publications)

• The recommended environmental restoration plan includes  
  • 1. Restore a total of 5 ha (12 ac) of salt marsh at the Isle of Wight Wildlife Management Area and  
  • 2. Restore a total of 3.4 ha (8.5 ac) of salt marsh at Ocean Pines,  
  • 3. Stabilize the eroding South Point Island to its 1997 size of approximately 0.93 ha (2.3 ac),  
  • 4. Construct a new 1.2 ha (3 ac) island in proximity to South Point to create vegetated habitat for colonial waterbirds, and  
  • 5. Create a 1.2 ha (3 ac) island near Dog Island that will be bare substrate with a shell surface for colonial waterbird nesting. The island created near Dog Island will also include three additional cells that will be available to local citizens, businesses, and government for the placement of material dredged locally. Thus, an additional 1.2 ha (3 ac) area of salt marsh will be added in the near future, and up to 8 ha (19 ac) area could eventually be created, increasing the size of this island to as much as 10 ha (25 ac).  
  • Only Items 1 and 2 were completed. Should these projects be revisited?
Navigation and Dredging Advisory Group Planning Guide Update

- NADAG Master Plan

- Recommendation
  A.i.i. Support for and promotion of the beneficial use of dredged materials, including habitat restoration and creation. Beneficial Use Includes:
    - restoration of underwater grasses;
    - restoration of islands;
    - stabilization of eroding shorelines;
    - creation or restoration of wetlands; and
    - creation, restoration, or enhancement of fish or shellfish habitats.

- WC, OC, OP will develop and maintain a list of nonfederal channels in need of dredging

- A Navigation and Dredging Advisory Committee was formed but has not met since about 2003, should this committee be reformed?
Advisory Group

- US Army Corps of Engineers
- Ocean City Engineer
- User Group Representatives
- Private Local Dredging Firms
- Community Representatives
- Harbor/Marina Representatives
- MD Dept. of the Environment
- DNR representatives (Boating Services, heritage, NRP, CZM, POS)
- WC Shoreline Commission, OC Port Warden
- Maryland Environmental Service
- U.S. Coast Guard
- US Fish and Wildlife Service
- Environmental Groups
- Worcester County
- EPA
- Academic institutions
- NOAA
e.g., Chap. 4 Dredge Material Management

• Proposed disposal sites OC dead end canals  (Sediment Management Workshop – Sept. 2010)

• 1. Beach for best material which offers unlimited capacity (possibly 20,000 cubic yards)
• 2. Fill Northside Park Lagoon to -5 feet (15,000 cubic yards)
• 3. County landfill for poor material, limit based on county needs (5 cubic yards)
• 4. Future sites: beach / landfill
• 5. Re-establish wetland mitigation island at Loop Road (139th street) This is the dredge disposal area of the only canal dredge project that has occurred to date. A marsh complex was created, however the island has settled and most of the vegetation is gone.
• 6. Private West OC wetland mitigation sites identified by Coastal Bays – ex. Carlson project
• 7. Dog Island future Corps Project – no OC money available at this time