

Shallow Draft Dredging Activities in the Philadelphia District

Monica Chasten

Philadelphia District

North Atlantic Division

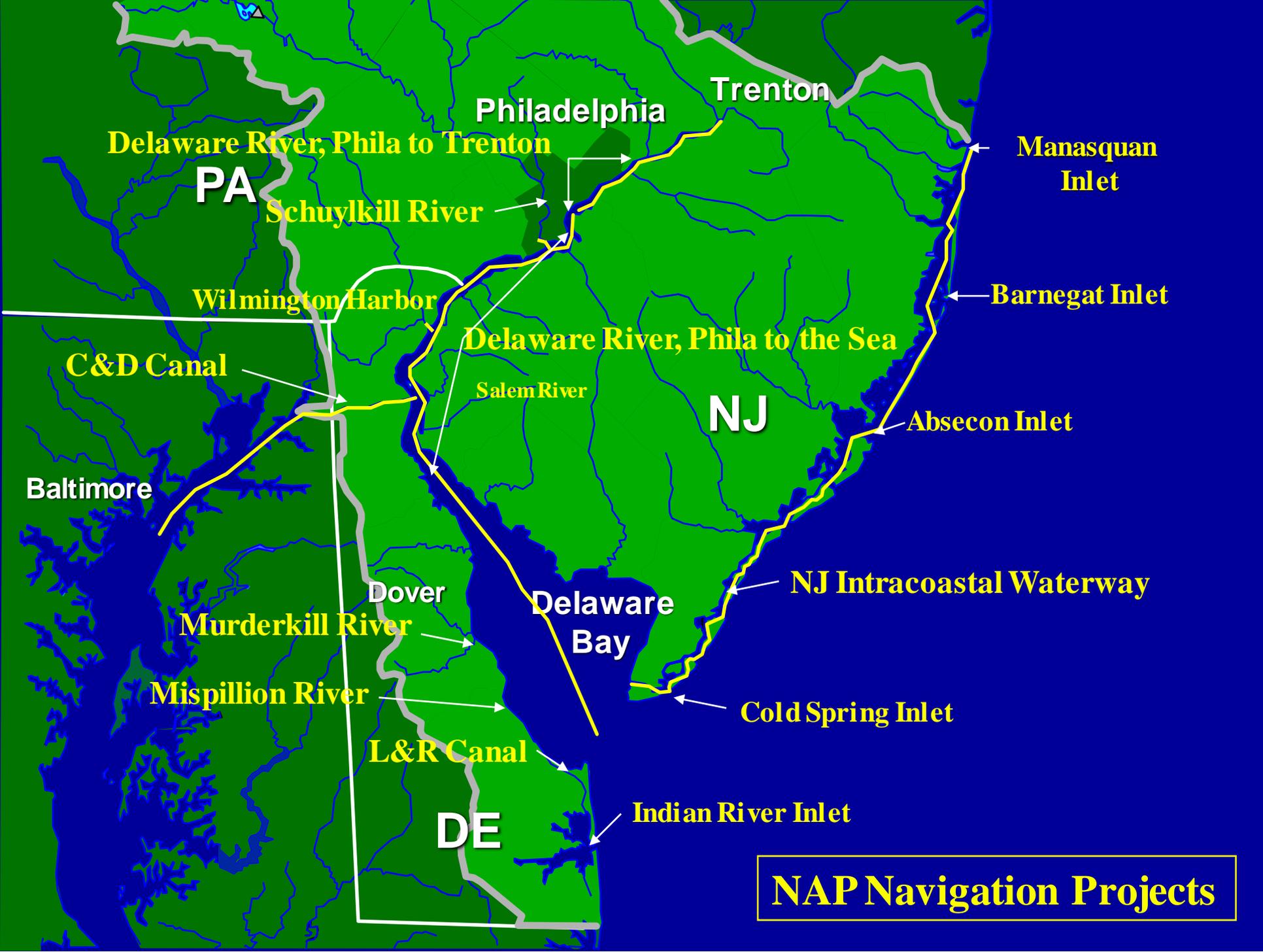
18 January 2012



®

US Army Corps of Engineers
BUILDING STRONG®





Delaware River, Phila to Trenton

PA

Schuylkill River

Philadelphia

Trenton

Manasquan Inlet

Wilmington Harbor

Delaware River, Phila to the Sea

Barnegat Inlet

C&D Canal

Salem River

NJ

Absecon Inlet

Baltimore

Dover

Delaware Bay

NJ Intracoastal Waterway

Murderkill River

Mispillion River

Cold Spring Inlet

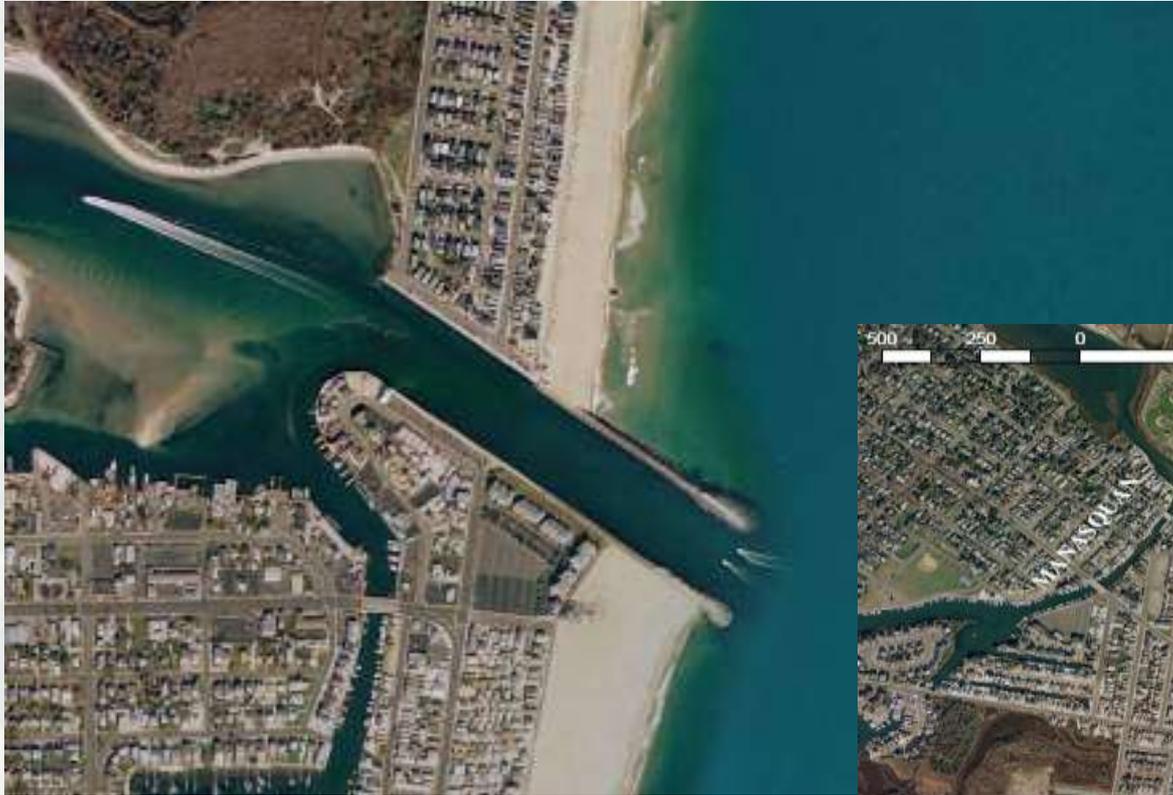
L&R Canal

DE

Indian River Inlet

NAP Navigation Projects

Manasquan Inlet, NJ



Shallow Draft Dredging Projects

Manasquan Inlet, NJ

- Authorized Depth is 14 ft MLW
- Twice per year, approx 4 days each cycle
- Environmental windows: None
- Volume: Approx. 50,000 cu yd/yr
- Fine Sand
- Updrift, in support of NAN beachfill
- Shoaling reduced due to lack of NAN beachfill
- No funding received in FY11, supplemental only



Barnegat Inlet



Shallow Draft Dredging Projects

Barnegat Inlet, NJ

- Authorized Depth is 10 ft MLW
- Twice per year, approx 6 days each cycle
- Environmental windows: None
- Volume: Approx. 100,000 cu yd/yr
- Sand
- Outside of entrance, downdrift of south jetty
- Disposal should be further south for best RSM;
Dredging need is greater than funds allow



Cold Spring Inlet, NJ



Shallow Draft Dredging Projects

Cold Spring Inlet, NJ

- Authorized Depth is 25 ft MLW
- Twice per year, approx 6 days each cycle
- Environmental windows: None
- Volume: Approx. 60,000 – 75,000 cu yd/yr
- Sand
- Outside of entrance, downdrift of west jetty
- Supports USCG/Cape May beachfill



Shallow Draft Dredging Projects

Potential Projects using Currituck or Murden

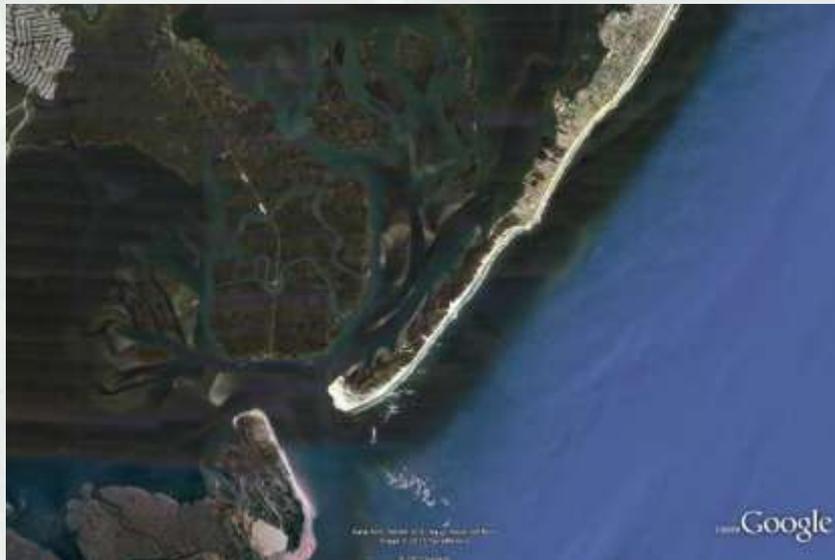
- Absecon Inlet, Clam Creek Entrance



Shallow Draft Dredging Projects

Potential Projects using Currituck or Murden

- NJIWW, Various Locations



BUILDING STRONG®

Shallow Draft Dredging Projects

Potential Projects using Currituck or Murden

- Indian River Inlet, DE



NJ Shore Protection Projects

KEY
Constructed projects (date)
Projects not yet authorized

PA

NJ

Manasquan Inlet to Barnegat Inlet

MD

Brigantine Is. (2005 – 06)

Barnegat Inlet to Little Egg Inlet (LBI)
Initiated 2005

Ocean City (1992)

Absecon Is. (2003)

Cape May City (1990)

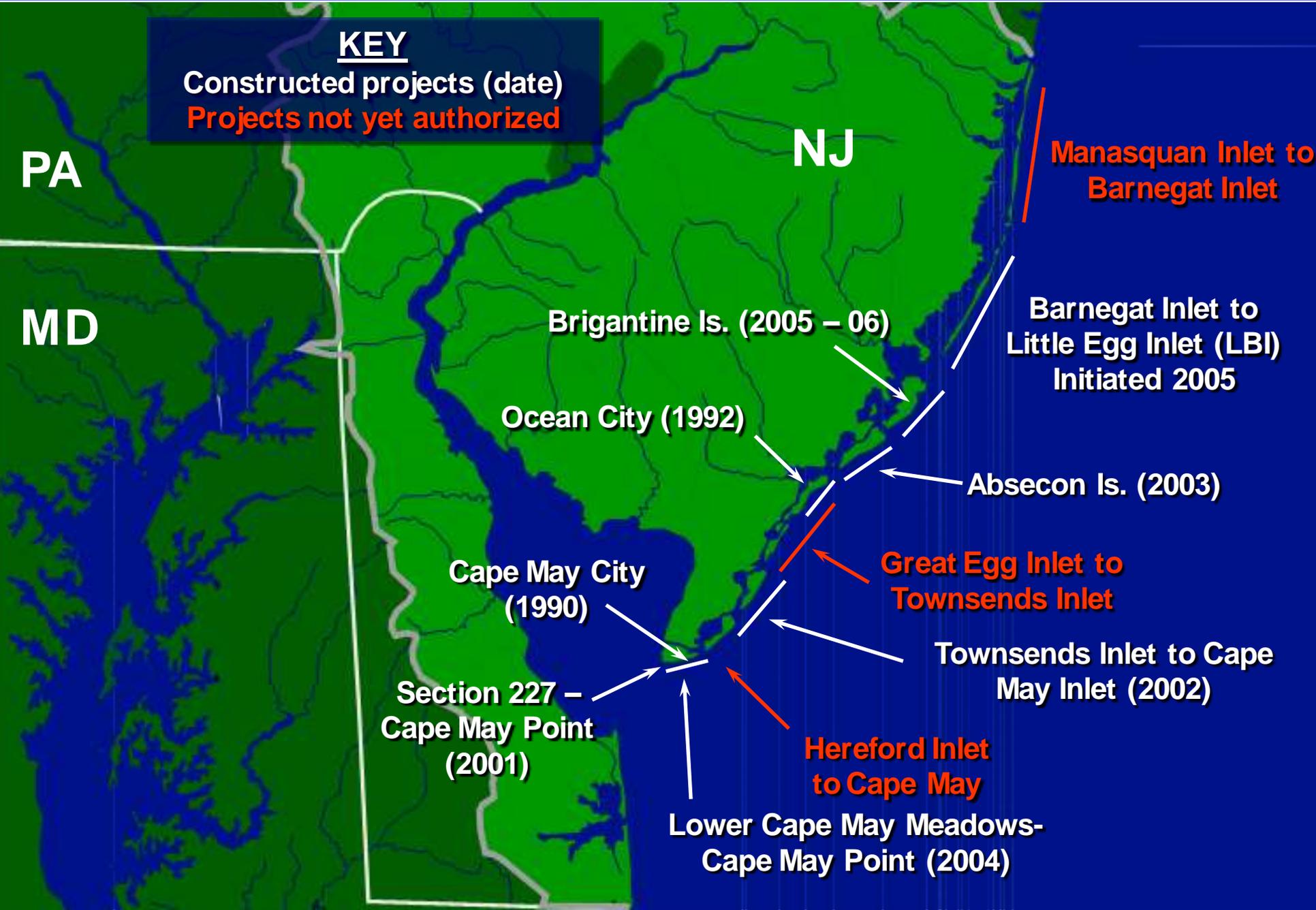
Great Egg Inlet to Townsends Inlet

Section 227 – Cape May Point (2001)

Townsends Inlet to Cape May Inlet (2002)

Hereford Inlet to Cape May

Lower Cape May Meadows-Cape May Point (2004)



Discussion Points

- Fine-grained material vs. sand opportunities (need the science!)
- Nearshore berm research/monitoring
- Low cost of govt dredges vs. beachfill mobilization costs; pump out capability

