

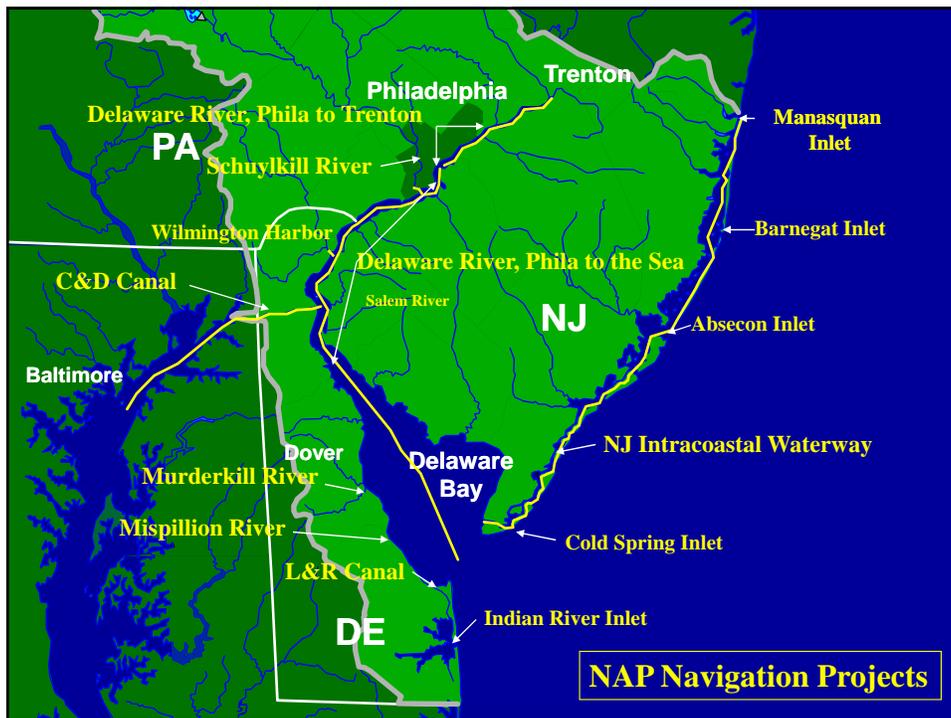
Philadelphia District North Atlantic Division Dredging Program

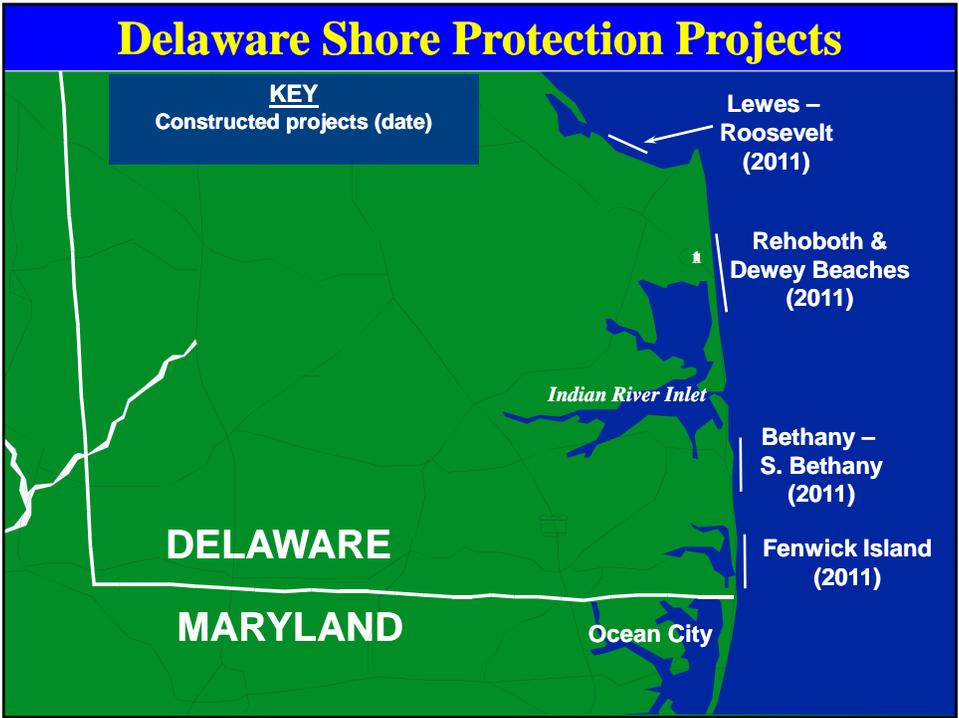
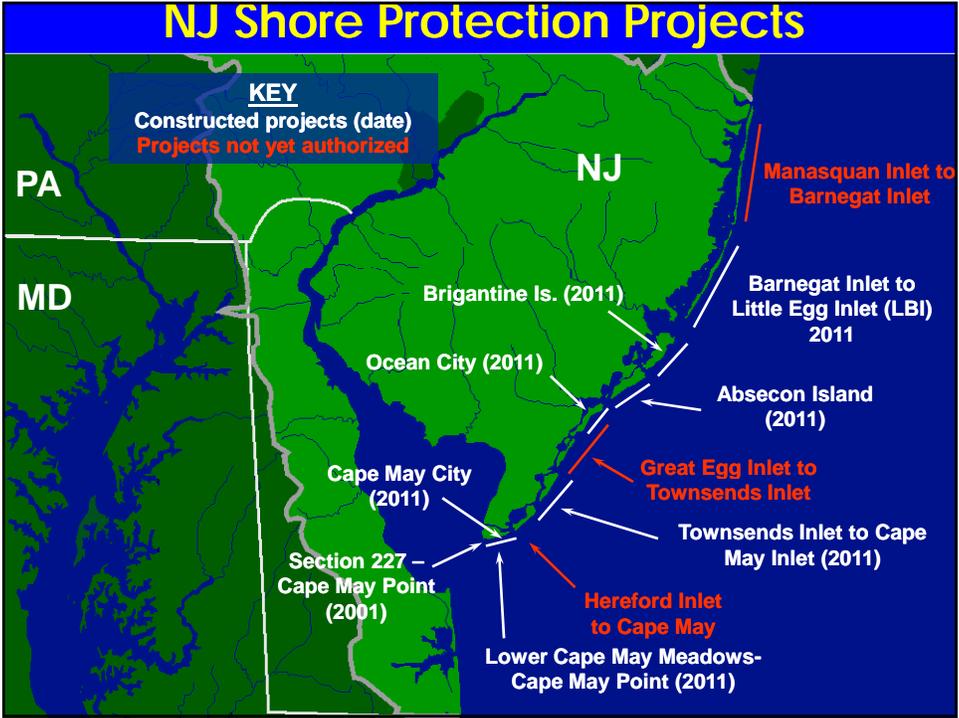
Timothy Rooney
Project Manager
Operations Division

WEDA Eastern Chapter Meeting
October 2011



US Army Corps of Engineers
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FY 2011 Shore Protection Projects

| <u>Project</u> | <u>Description</u> | <u>Award Date</u> |
|--------------------------|--|-------------------|
| ➤ Absecon Island, NJ | 2 nd Renourishment | Sep 11 |
| ➤ Cape May, NJ | 9 th Renourishment | Sep 11 |
| ➤ Roosevelt-Lewes, DE | 2 nd Renourishment | Sep 11 |
| ➤ Bethany-S. Bethany, DE | 2 nd Renourishment – Contract Mod | Sep 11 |
| ➤ Rehoboth-Dewey, DE | 2 nd Renourishment – Contract Mod | Sep 11 |
| ➤ LBI – Brant Beach, NJ | Initial Construction-Beachfill | Sep 11 |



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Philadelphia District

FY 2012-16 Shore Protection Projects

| <u>Project</u> | <u>Description</u> | <u>Cost</u> |
|--|--------------------|-------------|
| ➤ Lower Cape May Meadows- Cape May Pt, NJ | Renourishment | \$5M-\$8M |

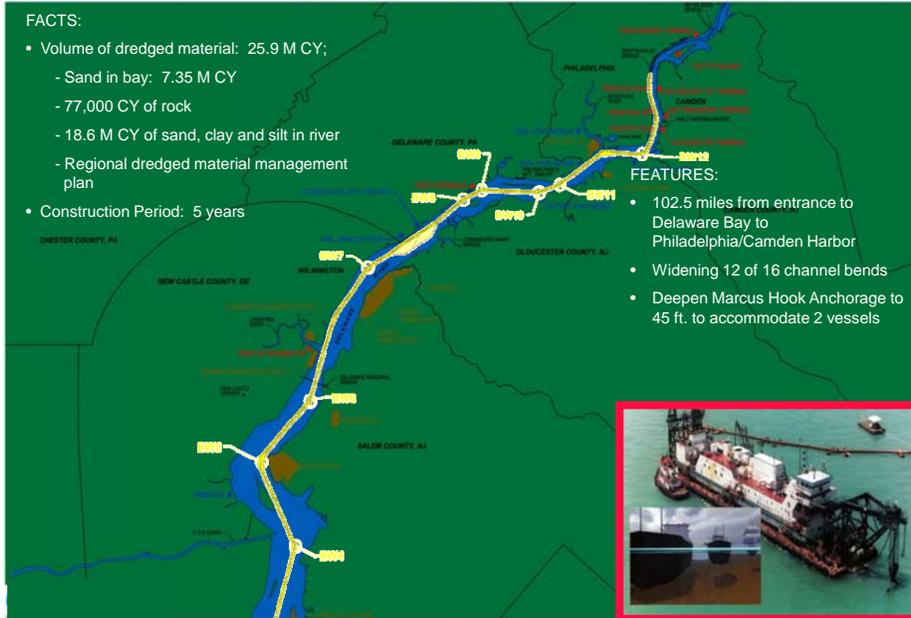


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Deepening the Main Channel to 45': The Project

FACTS:

- Volume of dredged material: 25.9 M CY;
 - Sand in bay: 7.35 M CY
 - 77,000 CY of rock
 - 18.6 M CY of sand, clay and silt in river
 - Regional dredged material management plan
- Construction Period: 5 years



FEATURES:

- 102.5 miles from entrance to Delaware Bay to Philadelphia/Camden Harbor
- Widening 12 of 16 channel bends
- Deepen Marcus Hook Anchorage to 45 ft. to accommodate 2 vessels



**US Army Corps
of Engineers**
Philadelphia District

Delaware River Main Channel Deepening Reach B

| | |
|---------------------|--|
| Cubic Yards: | 1,000,000 |
| Type of Material : | Silt/Sand |
| Type of Equipment : | Pipeline |
| Type of Disposal : | Confined Upland Disposal-Pedricktown South |
| Advertise: | 24 May 2011 |
| Bid Opening Date : | 21 July 2011 |
| Dredging Timeframe: | Mid Dec to 15 March |
| Env. Window: | No Dredging 15 March to 31 July |

Remarks: 5-year Construction Period



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Delaware River, Phila. to Sea Maintenance Dredging - Hydraulic

Cubic Yards: 1,400,000
Type of Material : Maintenance – Silt/Sand
Type of Equipment : Pipeline
Type of Disposal : Confined Upland Disposal
Bid Opening Date : Summer
Frequency : Annual
Award Date: 23 Aug 2011 (Norfolk)

Conditions: Issue work assignments for different ranges. First work assignment is normally issued by September.



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Wilmington Harbor, DE Maintenance

Cubic Yards : 500,000
Type of Material : Silt
Type of Equipment : Pipeline
Type of Disposal : Confined Upland Disposal
Frequency : Annual
Advertise: April 2012

Remarks : No dredging allowed between 1 April and 15 June



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DE River, Phila to Trenton Fairless Turning Basin Deepening

Cubic Yards : 175,000
Type of Material : Silt
Type of Equipment : Pipeline
Type of Disposal : Confined Upland Disposal (Money Island)
Advertise: Aug 2011
Award: Sept 2011
Timeframe for Work: Two Weeks

Remarks : Planning Division, Section 207 project



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Philadelphia District

DE River, Phila to Trenton 40 ft Channel

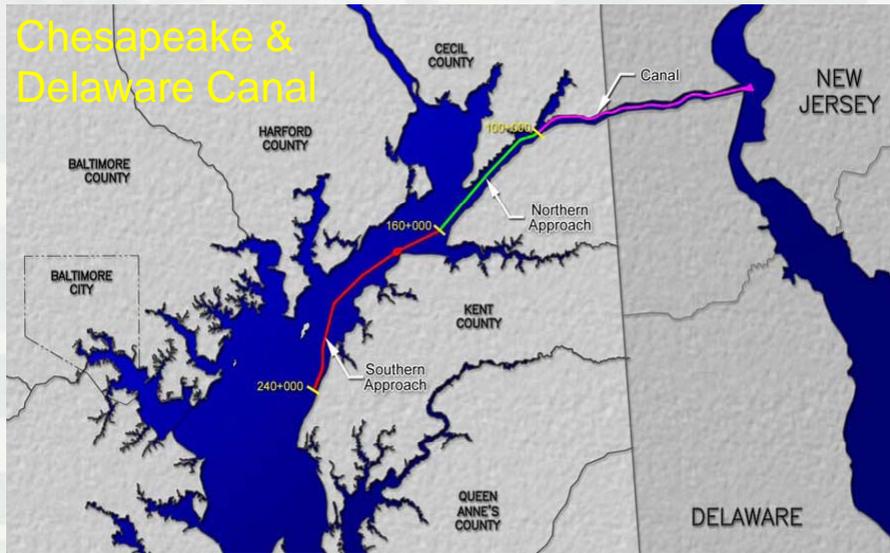
Cubic Yards : 700,000
Type of Material : Silt
Type of Equipment : Pipeline
Type of Disposal : Confined Upland Disposal
Advertise: Aug 2014
Award: Sept 2014
Timeframe for Work: Two Weeks

Remarks : Two Year Cycle/Frequency



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Chesapeake & Delaware Canal



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US Army Corps
of Engineers
Philadelphia District

IWW, Delaware River – Chesapeake Bay Lower Approach Maintenance

| | |
|----------------------|---|
| Cubic Yards : | 1,500,000 |
| Type of Material : | Silts |
| Type of Equipment : | Mechanical |
| Type of Disposal : | Upland Placement |
| Special Conditions : | Mechanical Dredging to be pumped out upland |
| Contract Awarded: | Aug 2012 |
| Remarks: | Upland Site to be determined |



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FY12-FY16 Dredging Schedule NAP Major Navigation Projects



| Maintenance Dredging | Project Quantity (CY) | Placement Site | FY12 | | | | FY13 | | | | FY14 | | | | FY15 | | | | FY16 | | | |
|-------------------------------|-----------------------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | 1st Qtr | 2nd Qtr | 3rd Qtr | 4th Qtr | 1st Qtr | 2nd Qtr | 3rd Qtr | 4th Qtr | 1st Qtr | 2nd Qtr | 3rd Qtr | 4th Qtr | 1st Qtr | 2nd Qtr | 3rd Qtr | 4th Qtr | 1st Qtr | 2nd Qtr | 3rd Qtr | 4th Qtr |
| Delaware River, Ph to the Sea | Hydraulic 1.4M | Upland | █ | | | █ | | | | █ | | | | █ | | | | | █ | | | |
| Delaware River, Ph to Trenton | Hydraulic 700M | Upland | | | | | | | | | | | | █ | █ | █ | | | | | | |
| Wilmington Harbor, DE | Hydraulic 500K | Upland | | | █ | | | | █ | | | | █ | | | | | █ | | | | █ |
| Delaware River Deepening | Hydraulic 1.2M | Upland | █ | | | █ | | | | █ | | | | █ | █ | █ | | | | | | |
| Fairless Turning Basin, PA | Hydraulic ~175K | Upland | █ | | | | | | | | | | | █ | █ | | | | | | | |
| C&D Canal Approach, MD | Mechanica 1.5M | Upland | | | | █ | | | | █ | | | | █ | | | | | | █ | | |
| Schuylkill River, PA | Hydraulic 600K | Upland | | | | | | | | █ | █ | | | | | | | | | | | |
| Salem River, NJ | Hydraulic ~250K | Upland | | | | | | | | █ | █ | | | | | | | | | | | |



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FY12-FY16 Dredging Schedule Coastal Navigation Projects

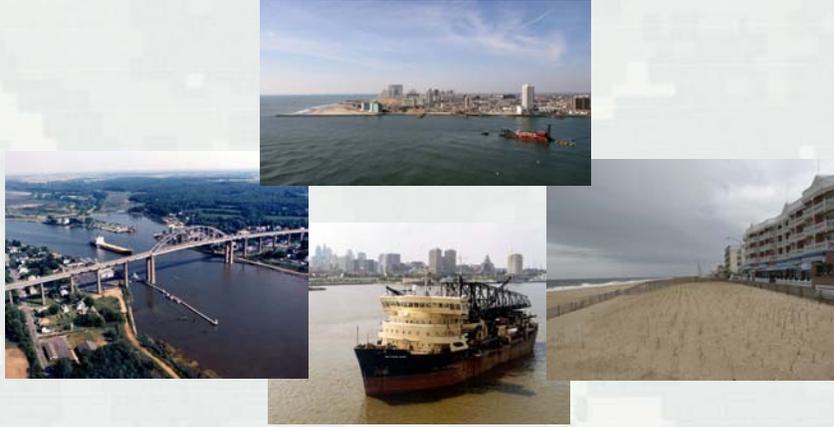


| Maintenance Dredging | Project Quantity (CY) | Placement Site | FY12 | | | | FY13 | | | | FY14 | | | | FY15 | | | | FY16 | | | |
|----------------------|-----------------------|----------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | 1st Qtr | 2nd Qtr | 3rd Qtr | 4th Qtr | 1st Qtr | 2nd Qtr | 3rd Qtr | 4th Qtr | 1st Qtr | 2nd Qtr | 3rd Qtr | 4th Qtr | 1st Qtr | 2nd Qtr | 3rd Qtr | 4th Qtr | 1st Qtr | 2nd Qtr | 3rd Qtr | 4th Qtr |
| NJIWW | Hydraulic 100K | Upland | █ | | | | | | | | | | | | | | | | | | | |
| Cold Spring Inlet | Gov't Plant | Open Beach | █ | | █ | | █ | | █ | | █ | | █ | | █ | | █ | | █ | | █ | |
| Barnegat Inlet | Gov't Plant | Open Beach | | █ | █ | | | █ | █ | | | █ | █ | | | █ | █ | | | █ | █ | |
| Manasquan Inlet | Gov't Plant | Open Beach | | █ | | | | █ | █ | | | █ | █ | | | █ | █ | | | █ | █ | |
| | | | | | | | | | | | | | | | | | | | | | | |
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Questions?



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