

BENEFITS OF DREDGING Delaware River Regional Ports Commerce and Navigational Safety

Western Dredging Association Eastern Chapter Annual Meeting October 28-29, 2015

Dennis Rochford, President
Maritime Exchange for the Delaware River and Bay



About the Maritime Exchange

- Membership based non-profit trade association incorporated in 1875
- Comprised of nearly 300 members: steamship companies, private & public terminals, tug operators, law enforcement, first responders, importers, etc.
- Mission: To Promote/Protect Commercial Maritime
 Operations throughout the Delaware River Port Complex
- Two primary areas of operation: Government Affairs/Public Policy & Operations/Maritime On-Line[®]



Government Affairs/Public Policy

The Maritime Exchange works with its regional tri-state Congressional delegation, comprised of 6 U.S. Senators and 10 U.S. House members, on a variety of trade, safety, environmental, and security issues.

- U.S. Army Corps of Engineers Channel deepening, maintenance dredging
- U.S. Coast Guard Waterways Management, Port Security
- U.S. Customs and Border Protection Automated Commercial Environment (ACE), Electronic Reporting, Supply Chain
- National Oceanic and Atmospheric Administration Physical Oceanographic Real-Time System (PORTS®)



Maritime On-Line® (MOL) Modules

- Ship Reporting: Advance scheduling information on expected ship arrivals and departures as well as real-time and historical ship movement information
- TRACS: Cargo manifesting and release system certified on the U.S. Customs and Border Protection's (CBP) Automated Commercial Environment (ACE)
- NOA/D On-Line: Automated tool to submit advanced vessel arrival and departure notices, including crew list information, to CBP and the Coast Guard
- Automatic Identification System (AIS): Real-time positions of commercial cargo vessels and tugs/barges transiting the Delaware River and Bay and the C&D Canal



The Delaware River Port Complex

- 2300 Ship Calls Per Year
- 3 States, 5 Port Authorities
- 39 Regulated Marine Terminals





The Delaware River Port Complex

ECONOMIC IMPACT

- \$53 billion contribution to regional economy
- \$7.8 billion in wages and salaries
- \$781 million in state and local taxes
- 135,000 direct, indirect, and induced jobs





Delaware River Ship Calls



Cargo Report Ship Arrivals by Cargo

Cargo Discharged 09/2014 - 09/2015

CARGO

FRUIT	466	
CONTAINERS	448	
PETROLEUM	433	
STEEL	211	
MINERALS	158	
VEHICLES	130	
CHEMICALS	105	
PAPER	48	
WOOD	33	
MISCELLANEOUS	147	
TOTAL	2179	
Cargo Loaded 09/2014 - 09/2015		
GAS	72	
VEHICLES	38	
PETROLEUM	30	
MINERALS	15	
MISCELLANEOUS	30	
TOTAL	209	
TOTAL VESSELS		238



The World is Changing . . .

- Larger ships require deeper water
- Panama Canal expansion to bring additional cargoes to the East Coast
- Far East manufacturing shifting towards India: utilization of the Suez Canal means more cargoes for the East Coast





East Coast Channel Depths Comparison



45' Channel Deepening Project

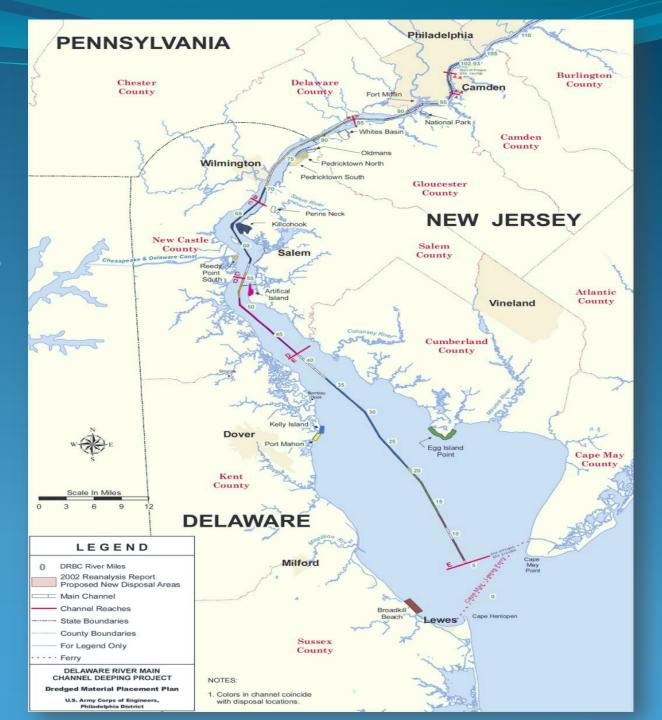
- Construction first authorized by Congress in 1992
- Scheduled for completion in 2017
- > Approximately 80% complete
- Critical to regional economy
- Important economic development priority





45' Channel Deepening Project

- Follows existing 40-foot channel alignment from Philadelphia/Camden to the sea
- Existing authorized channel widths (400-1,000 feet) will not change
- 12 channel bends widened for safer navigation of larger ships
- Marcus Hook Anchorage will be deepened to 45 feet





Dredge Material Disposal

- > 16 million cubic-yards of material to be removed
- 2 million cubic-yards of sand for Broadkill Beach replenishment in State of Delaware
- > 14 million cubic-yards of clay, silt, sand and gravel to be placed in existing federally-owned Confined Disposal Facilities



Environmental Monitoring

During Dredging...

- Monitoring of water quality at the dredge for total suspended solids
- Monitoring at Confined Disposal Facilities for water quality outfall
- Implementation of sturgeon protection plan with National Marine Fisheries Service



45' Channel Project Funding

The federal government will pay 65% of the cost of the project, and the Commonwealth of Pennsylvania, the local sponsor, is responsible for funding the balance.

Funding to date:

- Federal funds \$199.3 million
- Non-Federal funds \$91.5 million



45' Channel Project Benefits

Deeper Water Impacts Investment

 This project has the potential to generate approximately \$1 billion in port infrastructure projects throughout the region.



45' Channel Project Benefits

 Southport: Philadelphia Regional Port Authority in process of development of over 190 acres

- Paulsboro: South Jersey Port Corporation completing construction of new port
- Port of Wilmington: Updating master plan to identify long-term expansion opportunities



Maintenance Dredging Project Costs

PROJECT	Average Annual Budget	Typical Contract Cost	Cubic Yards
Delaware River, Philadelphia to the Sea 40' Project	\$23,000,000	\$12,000,000	2,500,000
Delaware River, Philadelphia to Trenton	\$5,000,000 - \$10,000,000	\$9,500,000	1,025,000
Wilmington Harbor	\$3,850,000	\$2,400,000	400,000



Questions?

Dennis Rochford, President

Maritime Exchange for the Delaware River and Bay

dennis.rochford@maritimedelriv.com 215-925-2615, ext. 205