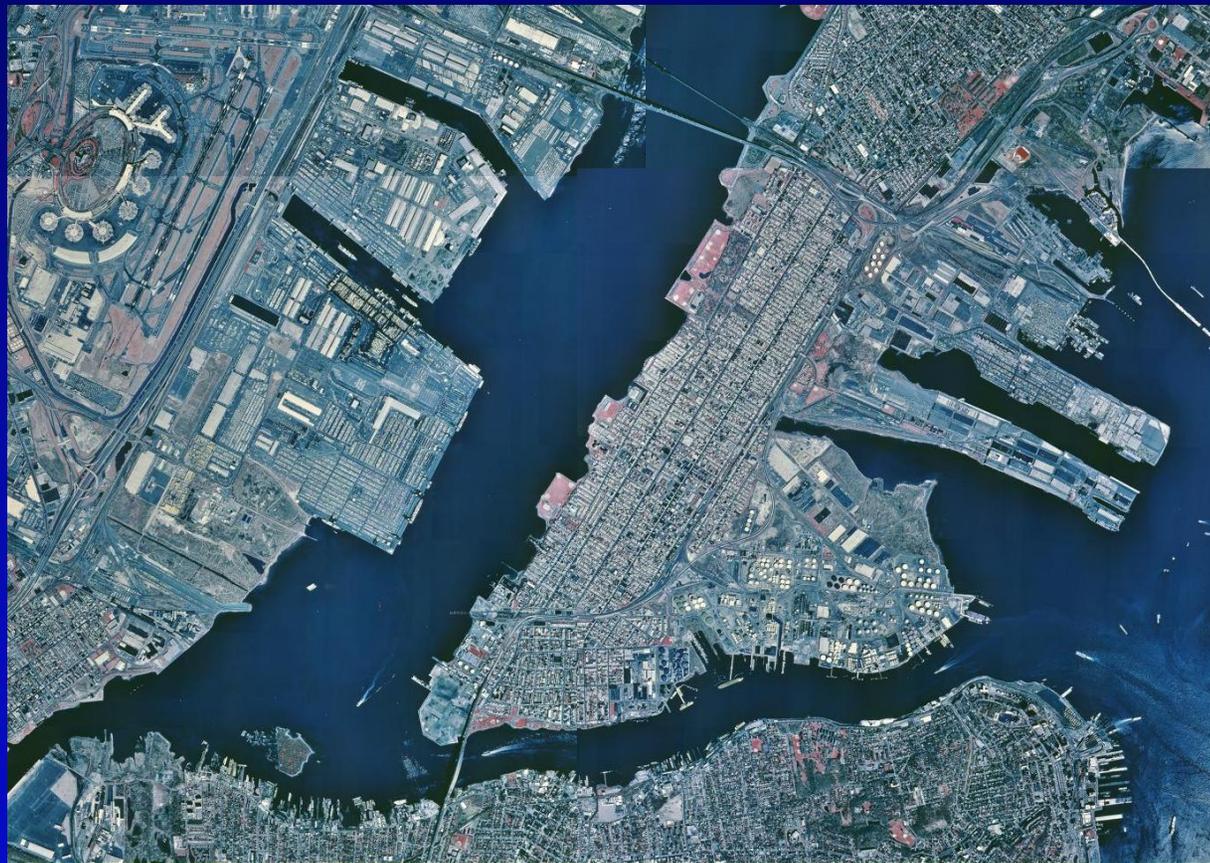




US Army Corps  
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New York District

# New York and New Jersey Harbor-Estuary



*One estuary, One port, One vision*

*William F. Slezak, P.E.*



**US Army Corps  
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New York District**

# What We Do



**Col. John B. O'Dowd  
District Engineer**

**Plan, design, construct, operate and maintain  
civil works facilities and infrastructure**

**Plan, design, construct and support facilities and  
infrastructure for military and other customers**

**Conduct environmental remediation and  
restoration**

**Execute the regulatory program**

**Respond to emergencies and  
contingency operations**

**Provide management, administrative and  
logistical support for district programs  
and projects**



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# Civil Works Value to the Nation

**Recreation areas**  
376 M Visitors/yr  
Generate \$15 B in  
economic activity,  
500,000 jobs



**¼ of Nation's  
Hydropower:  
\$500 M + in  
power sales**



**11,000 miles of  
Commercial Inland  
Waterways:  
½ the cost of rail  
1/10 the cost of  
trucks**

**299 Deep Draft  
Harbors**



**627 Shallow Draft  
Harbors**

**US Ports &  
Waterways  
convey > 2B Tons  
Commerce**



**8500 Miles of  
Levees**



**Emergency  
Operations**



**Foreign Trade  
alone creates  
> \$160 B Tax  
Revenues**

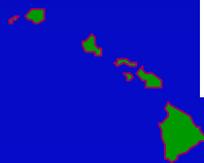
**Stewardship of  
11.7 Million Acres  
Public Lands**



**Environmental  
Restoration**



**Regulatory  
Responsibilities**



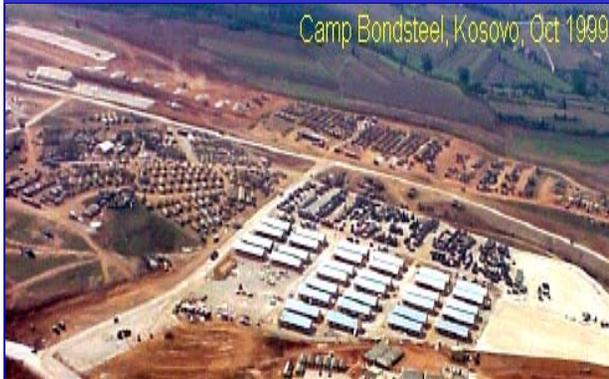


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# USACE Army Missions

## Military Programs

- Military construction
- Base operations
- Environmental restoration
- Geospatial Engineering



## Homeland Security



- Critical Infrastructure
- Anti Terrorism Planner
- The Infrastructure Security Partnership

## Research & Development

- Military engineering
- Terrain & Geospatial
- Structures
- Environment
- Water Resources



## Real Estate



- Acquire, manage & dispose
- DOD Recruiting facilities
- Contingency operations

## Interagency Support

- DOD
- Federal
- State
- Local
- International



## Civil Works



- Navigation, Hydropower
- Flood control, Shore Protection
- Water Supply, Regulatory
- Recreation, Disaster response
- Environmental Restoration



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# Global Engagement

Countries Supported: 91+

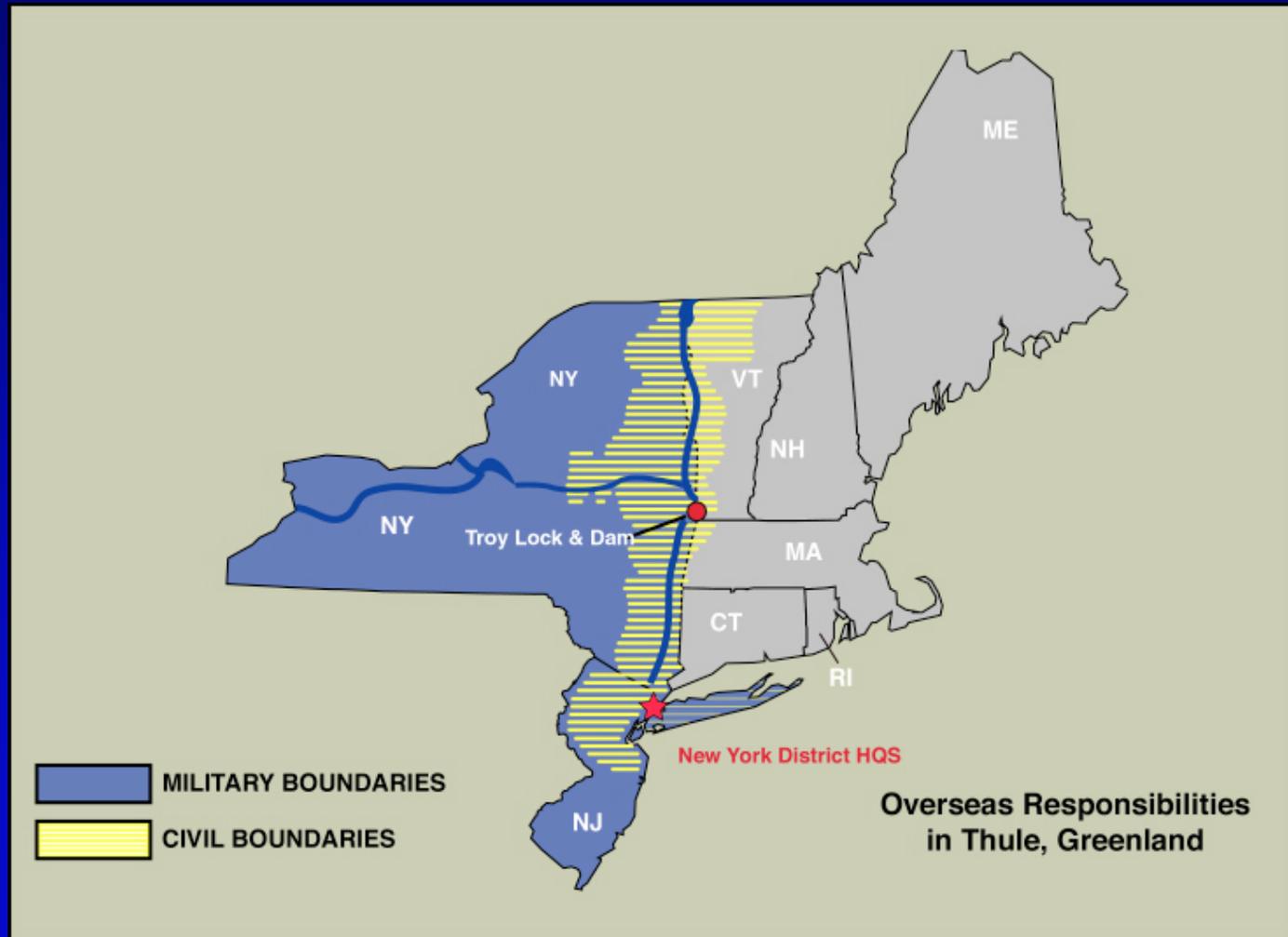




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# New York District

## Military Program and Civil Works Projects





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# Federal Navigation Channels within Port of NY & NJ





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# Significance of The Port of New York and New Jersey



**Largest Port on the East  
Coast**

**Largest petrochemical  
product port in the U.S.**

**230,346 direct & indirect  
jobs**

**\$14 B in NJ & NY wages  
& taxes**

**Over 600,000 vehicles  
imported/exported**

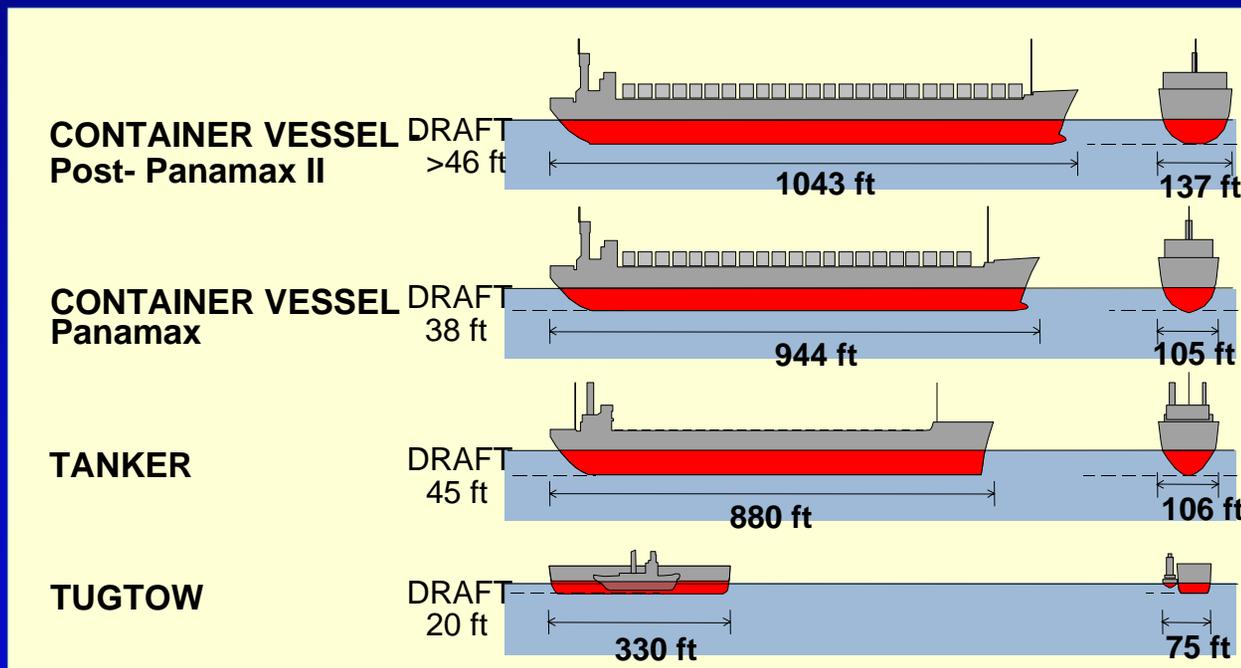
**Serves 35 percent  
of America's population**



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# Problem Identification

Existing channels do not provide sufficient depths for the current and projected fleet





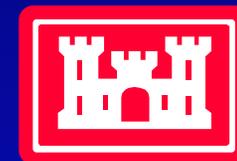
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# NY/NJ Harbor Partnerships

Unique agency partnership to address challenging environmental, navigation, and social issues and opportunities within the Port of New York New Jersey

- **USACE**

**THE PORT AUTHORITY OF NY&NJ** 



- *The Port Authority Of New York and New Jersey*

- **USEPA**



- **NMFS**

- **USCG**



- *State of New York (ESDC, NYSDEC, NYSDOS)*



- *State of New Jersey (DOT-OMR, NJDEP)*

- *City of New York (EDC, DEP)*



- *Non-governmental (Env. Defense, NRDC, Baykeeper, etc...)*

# Our Vision of a World Class Harbor Estuary

Navigation

Environment

## O & M

- Drift Removal
- Dredged Material Management
- Channel Maintenance

## Channel Deepening

- Kill Van Kull & Newark Bay 45'
- Port Jersey 41'
- Arthur Kill 41/40'

- 50' Deepening

## Hudson-Raritan Estuary

- Comprehensive Plan
- Liberty State Park
- Gowanus Canal
- Lower Passaic River
- NJ Meadowlands

Harbor Estuary Program  
Jamaica Bay  
Gerritsen Cr.

Green Port Opportunities

Ben. Use of Dredged Material



Comprehensive Port Improvement Plan

Cross-Harbor Freight Inland Distribution Network

Terminal Improvements

Port

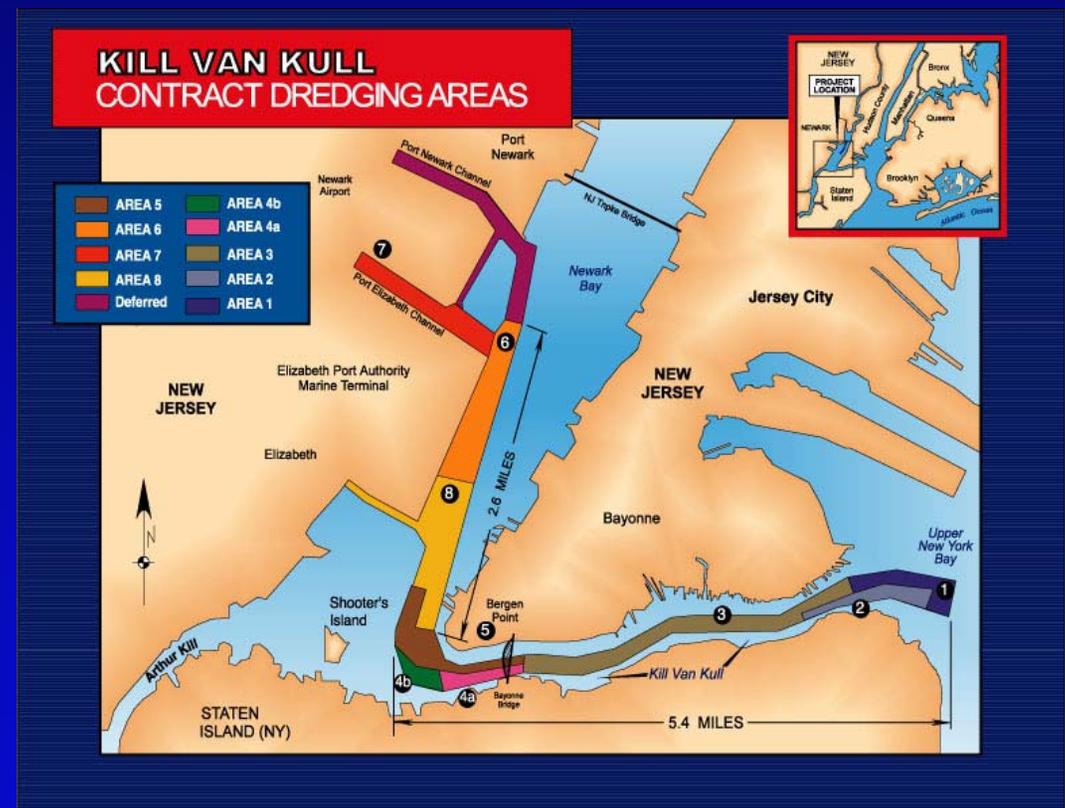




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# Kill Van Kull & Newark Bay Channels (45 foot Project)

- **DESCRIPTION:** Channel deepening from 40 ft to 45 ft.
- **STATUS:**
  - ◆ 6 Contracts Completed
  - ◆ 2 Contracts On-Going
- **PLANNED COMPLETION:** Aug. 2004
- **TOTAL PROJECT COST:** \$335 million
- **SPONSOR:** Port Authority of NY & NJ
- **POINT-OF-CONTACT:** Harold Hawkins P.E., Project Manager, 212-264-9092

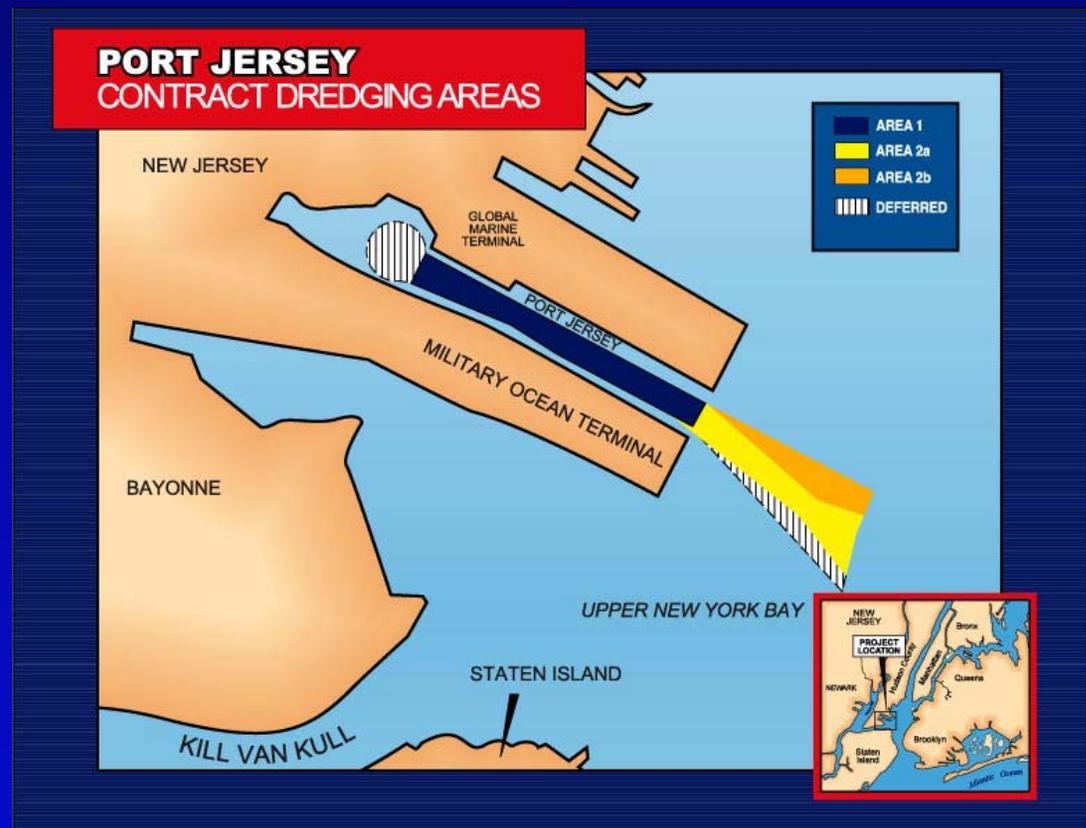




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New York District

# Port Jersey Channel (41-foot Project)

- **DESCRIPTION:**
  - ◆ Channel Deepening from 35/38 ft to to 41 ft.
- **STATUS:**
  - ◆ Contract Area 1- initiated Jan 03, scheduled completion: Mar 04
  - ◆ Contract Area 2a- scheduled to begin June 04
  - ◆ Contract Area 2B – Scheduled Award – Jan 05
- **PLANNED COMPLETION:** Aug 2007
- **PROJECT COST:** \$119 Million
- **SPONSORS:** New Jersey Office of Maritime Resources (primary) & Port Authority of NY & NJ (limited sponsor)
- **POINT-OF-CONTACT:** Bryce Wisemiller, Project Manager (212) 264-5797





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# Arthur Kill Channel

## Howland Hook Marine Terminal

(41/40 foot Project)

- **DESCRIPTION:**
  - ◆ Channel Deepening from 35 ft to 41/40 ft
- **STATUS:**
  - ◆ 1<sup>st</sup> Contract underway
  - ◆ 2<sup>nd</sup> Contract to be awarded in June 04
  - ◆ 3<sup>rd</sup> Contract to be awarded in FY 06
- **PLANNED COMPLETION:**
  - ◆ To Howland Hook: 2005
  - ◆ Complete Project: 2007
- **PROJECT COST:** \$393 Million
- **SPONSOR:** Port Authority of NY & NJ
- **POINT-OF-CONTACT:** Michael Millard,  
Project Manager, 212-264-2054





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# Clamshell Dredge in Newark Bay





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# Working Equipment Drill Boats in Newark Bay





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# Working Backhoe Dredge Dredge New York





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# New York & New Jersey Harbor (50-foot Project)

- **DESCRIPTION:** Deepen Ambrose, Anchorage, Bay Ridge, Port Jersey, Kill Van Kull, Newark Bay and Arthur Kill to Howland Hook channels to 50 ft
- **STATUS:**
  - ◆ PCA execution – 28 May 04
  - ◆ Construction scheduled to begin in Fall 04 with completion in FY 14
- **FUNDING:**
  - ◆ Total Project Cost: \$1.6 billion
- **SPONSOR:** Port Authority of NY & NJ
- **POINT-OF-CONTACT:** Tom Shea, Project Manager, 212-264-5570





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# Hudson Raritan Estuary (HRE) Study Area



Hackensack River,  
Passaic River  
Newark Bay

Arthur Kill

Raritan River

Lower Bay

Lower Hudson

Harlem River,  
East River and  
Western LI  
Sound

Upper Bay

Jamaica Bay

Figure 1:  
HRE Study Area



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# Harbor-Estuary Improvement Goals for the Port of New York and New Jersey

- ◆ Restore degraded aquatic habitats and ecosystems
- ◆ Improve water quality
- ◆ Brownfield Reclamation and Landfill Closure
- ◆ Remove undesirable fill and contaminated sediments
- ◆ Apply Green Port Planning Principles



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# HRE -Gowanus Canal (Environmental Restoration Feasibility Study)



◆ Hardened Shorelines

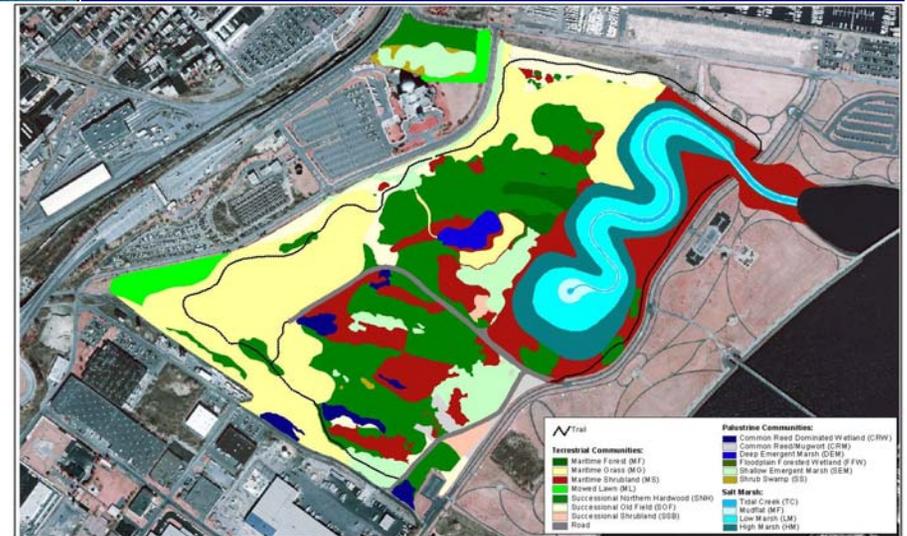


◆ Poor Water Quality



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# HRE-Liberty State Park (Environmental Restoration Feasibility Study)



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NEW YORK DISTRICT

HUDSON - RARITAN ESTUARY  
ECOSYSTEM RESTORATION PROJECT  
LIBERTY STATE PARK

SCALE  
1" = 1000'

Note: This map was prepared by Stephen J. Anderson, Cartographer, USACE, NY District, Planning Division, 4 Jan. 2002.

LIBERTY STATE PARK  
MAXIMUM HABITAT PLAN

Scale: 0 100 200 Feet

Figure #

◆ Former Industrial Site to Restored  
Habitat



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# HRE-Lower Passaic River (Environmental Restoration Feasibility Study)



◆ Industrial Site



◆ Contaminated  
Sediments



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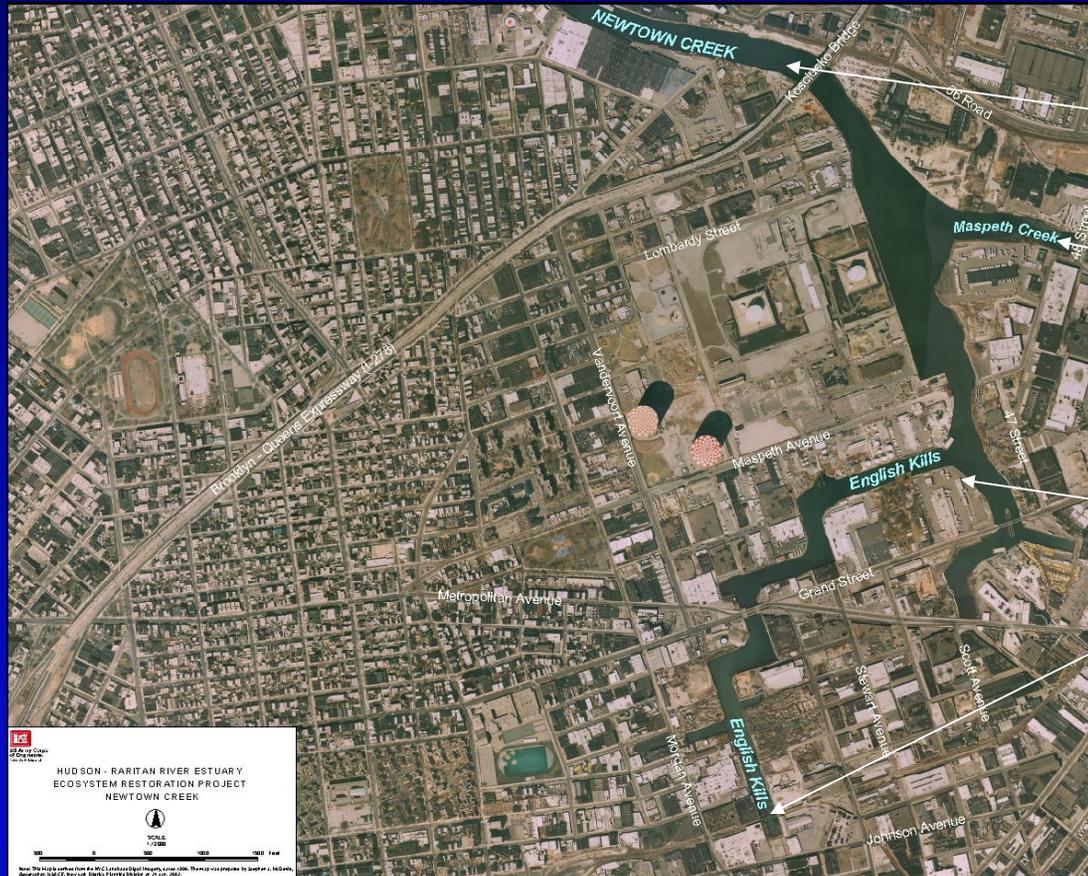
# HRE- Hackensack Meadowlands (Environmental Restoration Feasibility Study)





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# HRE- Newtown Creek (Environmental Restoration Feasibility Study)



Newton  
Creek

Maspeth Creek

English Kills

◆ Heavily Industrialized Site

◆ Contaminated Sediment



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# HRE-Sherman Creek (Environmental Restoration Feasibility Study)



Sherman Creek

Harlem  
River



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# Dredged Material Management Plan

## Port of New York & New Jersey

Beneficial Use of Dredged Material

### Capping Landfills & Brownfields in Port Region



- Identify & implement environmentally sound and economically viable disposal options with emphasis on the beneficial use of dredged material.

### Pennsylvania Coal Mine Reclamation



*Before*



*After*

11:05AM



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# Comprehensive Port Improvement Plan for the Port of NY & NJ

- ◆ **Develop a comprehensive plan addressing the transportation and marine infrastructure needed to handle anticipated cargo to 2060.**



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Terminal Improvements

Port





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# Questions?

## Harbor Programs Branch

- ◆ William Slezak, P.E. (212) 264-0110: Acting Chief,  
Harbor Programs Branch
- ◆ Visit Us at <http://www.nan.usace.army.mil/harbor/index.htm>