Great Lakes Dredging Team Annual Meeting
Great Lakes Dredging Update

Great Lakes Inspection Tour

WRRDA 2014 – Impacts to Great Lakes Funding

Dredging
  FY16 and FY17 Program
  Recent Trends

NOAA Marine Sanctuaries/Bottomland Preserves
Great Lakes Inspection Tour June 2015

Participants: LRD and MVD Commanding Generals and senior leaders from Division, Buffalo, Chicago, and Detroit Districts

Objectives:

• To gain a better understanding of the GL Navigation system value to the nation
• Observe an “origin to destination” operation from raw material receipt and loading to destination port destined for manufacturing
• Experience challenges of waterborne transit at the key node in the system, the Soo Locks
• Observe offloading and manufacturing into a finished product
Great Lakes Inspection Tour - 2016

• Plans are underway for early September 2016

• Focus on lower Great Lakes – Milwaukee, Chicago, Toledo, Ann Arbor
• Focus areas:
  • Ecosystem restoration
  • Invasive species
  • Flood risk management
  • Harmful algal blooms

Key to success is strong stakeholder participation!
Water Resources Reform & Development Act (WRRDA) 2014

- WRRDA14 is an authorization bill; it provides authority or direction to the Corps, it does not provide funding
- Funding comes from Congressional Appropriations
- We are awaiting implementation guidance from HQ

Water Resources Reform & Development Act (WRRDA) 2014

- The Corps must manage all the individually authorized projects in the Great Lakes Navigation System as components of a single, comprehensive system, recognizing the interdependency of ports.

- The Corps shall not allocate funds solely on tonnage.

- Establishes funding targets for expenditure of HMTF funds for the next 10 years.

- Emerging harbors (less than 1M tons) receive no less than 10% of 2012 HMTF appropriated funds ($898M).

- Great Lakes system receives not less than 10% of priority funds.
GL Navigation Funding History

- **Executable – Backlog Reduction Funding Range**
- **Sustainable Funding Range**

### Fiscal Year

- **ARRA**
- **Adds and National Provisions**
- **President's Budget**
Dredging
FY16 Corps Funding Status

• Congress passed the FY16 Consolidated Appropriations Act; enacted Dec 18, 2015.

• The FY16 Appropriations bill included FY16 President’s Budget with some adjustments, plus additional O&M funds for ongoing work – to be allocated by USACE HQ

Additional Funding for Ongoing Work
- Navigation Maintenance $23.5M
- Deep-draft harbor and channel $250M
- Small, remote, or subsistence nav $48M
FY16 Projects Funded from Additional Funds for Ongoing Work ($32.9M)

$14M Dredging
Additional funds for:
- Duluth, MN
- Green Bay, WI
- Saginaw, MI
- Calumet, IL

New funding for:
- Alpena, MI
- Lorain, OH
- Fairport, OH
- Monroe, MI
- Manistique

$10.9M Soo Asset Renewal
$1.3M Chicago Lock Repairs
$6.2M Structure Repairs (Ludington, Waukegan, Sandusky, Barcelona, Grand Haven)
FY 16 Great Lakes Navigation Program

$142.8M  Great Lakes Navigation Operations & Maintenance

Key Items

$59.2M in Dredging (30 projects – 4.4M cubic yards)
$8.6M in Dredged Material Management
$14.6M in Soo Asset Renewal
$2.3M Chicago Lock Repairs
$7.9M Structure Repair by Contract
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FY 17 Great Lakes Navigation
President’s Budget

$102.8M  Great Lakes Navigation Operations & Maintenance

**Key Items**
- $38.4M in Dredging (20 projects – 3.2M cubic yards)
- $8.2M in Dredged Material Management
- $5.9M in Soo Asset Renewal
FY17 PBUD Dredging Projects

- Ashtabula
- Burns Waterway
- Buffalo
- Calumet
- Channels in Lake St. Clair
- Cleveland
- Detroit River
- Duluth-Superior
- Fairport
- Grand Haven
- Green Bay
- Holland
- Indiana Harbor
- Keweenaw Waterway
- Saginaw River
- Sandusky
- St. Joseph
- Sturgeon Bay
- Toledo
- Waukegan
Historical Funding
Great Lakes Low Use Projects (<1M Tons)
Historical Shallow Draft/Recreational Harbor Funding

# Projects Funded

Fiscal Year
Recreational Harbor Success Stories

Port Washington: $950K funded in FY14 Corps budget
City has obtain $1M in funding from grants – providing to Corps through contributed funds process; additional work will be done in spring 2016

Portage Lake – contributed funds agreement in process for repair of revetment

Barcelona Harbor, NY – funds received in the FY16 workplan to begin repairs on structure that blew out in late 2015.

City of Buffalo – Bird Island structure/walkway repair; obtained grant funds and provided to Corps through contributed funds process

Hurricane Sandy funds – close to $200M in total to GL
Portage Lake Harbor, MI – Contributed Funds – Design and Partial Repairs

**Issue:**
- Little to no USACE funding available for recreation harbors nation-wide.
- Excessive settlement/sinkholes behind both North/South revetment structures indicative of subsurface structural degradation.
- Concerns with structural stability and impact to navigation channel.

**Contributed Funds Letter of Intent:**
- $800,000 Total Proposed.
- Contribution:
  - $250,000 to Complete Revetment Repair Design.
  - $550,000 for Partial Repairs using USACE Floating Plant.
Proposed Multi-Project/Multi-Year Contributed Funds – Memorandum Of Agreement
State of Michigan

• Would cover maintenance work on shallow draft Federal navigation projects (channels, harbors, and structures) that serve the State of Michigan.

• Once executed, the MOA would allow for transfer of funds for maintenance work at any shallow draft harbor in a matter of days versus many months under the current process.

• Draft Letter of Intent (LOI) has been provided to State for review/comment and it has been returned to USACE for concurrence.

• Once State signs the LOI and submits to USACE, the process for establishing the Memorandum of Agreement (MOA) can begin and take will take 4-8 months to complete and execute the MOA.
Water Levels on Great Lakes

• All of the Great Lakes are currently at or above average and all but Lake Superior are above levels of a year ago.

• With the recent rise in water levels, coastal bluffs are beginning to erode again after nearly a decade of low water and apparent stability.

• Reports of significant erosion on Lakes Superior and Michigan

• Low water levels over the past decade allowed offshore bottom profile to quietly erode.

• Now with increased lake levels, waves now have access to bluffs and dunes.
Coastal Bluff Erosion

Lake Michigan coastal erosion near New Buffalo, MI

Lake Superior coastal erosion near Paradise, MI
Great Lakes NOAA National Marine Sanctuaries

- Apostle Islands - Development
- WI-Lake MI NMS - Proposed
- Keweenaw - Development
- Thunder Bay NMS - Existing
- White Fish Point - Development
- Erie Quad NMS – In Inventory
- Oswego - Development
- Erie Niagara - Development
- Lake Huron
- Lake Michigan
- Lake Erie
- Lake Superior

Legend:
- Existing
- Proposed
- In Inventory
- Development - Cultural
- Development - Ecological
Dredged Material Management
Dredged Material Management by State

Average Annual Material Placement by Volume
1998-2014
Dredged Material Management Initiatives

- Maximize the use of fill management and facility adaptation, such as routine raising of perimeter dikes and reworking the material within the facility to create additional capacity.

- Aggressively pursue opportunities for beneficially using dredged material to preserve or create CDF capacity.

- Collaborate with partner agencies leveraging local and federal programs to reduce the amount of material entering federal navigation channels.

- Engage state agencies and other partners and stakeholders in developing innovative long-term solutions to dredged material management challenges.

- Foster partnership with USEPA with its Great Lakes Legacy Act (GLLA) and Great Lakes Restoration Initiative (GLRI) programs to leverage funding for projects supporting both environmental goals and navigation benefits.
Outreach

- Stakeholder Meetings: two meetings were held in 2016
  - Shallow Draft/Recreational Harbor Stakeholder Meeting - March 2, 2016; Detroit, MI
  - Annual Stakeholder Meeting
    April 14, 2016 Chicago, IL

- Web Site:
  www.lre.usace.army.mil/greatlakes/navigation
  - Fact Sheets, Surveys, Funding Summaries, Stakeholder Meeting Notices, Presentations, Publications
  - Requests for information, to be added to mailing list, etc.: email us at: glnavigation@usace.army.mil
Key Great Lakes Contacts

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Questions