

US Army Corps of Engineers  
 Great Lakes Navigation Business Line  
 FY23 President's Budget – with Consolidated Appropriations Act of 2023 and Workplan Additions  
 March 03, 2023

**Navigation O&M**      **\$342.1M (\$205.4M + \$136.7M)**

\$67.9M	Primary Dredging 4.0M cu yds (\$56.1M + \$11.8M / 3.26M cu yds + 0.72M cu yds)
\$1.09M	Ashtabula Harbor
\$1.40M	Buffalo Harbor
<b>\$0.91M</b>	<b>Burns Small Boat Harbor</b>
\$3.36M	Calumet Harbor and River
\$8.52M	Cleveland Harbor
\$2.01M	Conneaut Harbor
<b>\$1.12M</b>	<b>Cornucopia Harbor</b>
\$3.15M	Detroit River
\$2.66M	Duluth-Superior Harbor
<b>\$1.20M</b>	<b>Erie Harbor</b>
\$2.34M	Fairport Harbor
\$0.75M	Grand Haven Harbor
\$2.90M	Green Bay Harbor
\$0.80M	Holland Harbor
\$1.50M	Huron Harbor
\$3.44M	Indiana Harbor
<b>\$1.00M</b>	<b>Leland Harbor</b>
\$0.95M	Lorain Harbor
\$0.65M	Ludington Harbor
<b>\$1.02M</b>	<b>Michigan City Harbor</b>
\$2.41M	Milwaukee Harbor
\$1.13M	Monroe Harbor
<b>\$1.28M</b>	<b>Ontonagon Harbor</b>
\$0.97M	Oswego Harbor
<b>\$0.20M</b>	<b>Pentwater Harbor</b>
\$1.00M	Port Clinton Harbor
<b>\$0.98M</b>	<b>Portage Lake Harbor</b>
<b>\$1.27M</b>	<b>Rochester Harbor</b>
\$2.63M	Saginaw River
\$1.00M	Sandusky Harbor
<b>\$0.90M</b>	<b>Saugatuck Harbor</b>
\$3.00M	St. Joseph Harbor (\$1.89M + \$1.11M)
\$2.66M	St. Marys River
\$5.87M	Toledo Harbor
\$1.00M	Vermilion Harbor
<b>\$0.79M</b>	<b>Whitefish Point Harbor</b>
\$11.6M	Project Condition Surveys
\$25.6M	Lock Operation and Maintenance
\$2.08M	Black Rock Lock
\$3.50M	Chicago Lock
\$0.10M	Inland Route
\$19.9M	Soo Locks

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\$9.05M	Black Rock Lock Maintenance (\$0.10M + 8.95M)
	\$0.10M Evaluate Guard Gates and New Bulkheads
	\$2.30M Comprehensive Lock Evaluation and Gate Sill Stabilization
	\$3.00M Installation of Lower Miter Gates
	\$3.00M Fabrication of Maintenance Bulkheads
	\$0.30M Main Power Cabling Repairs
	\$0.35M Design Upper East Guidewall Repairs
\$1.40M	Chicago Lock Maintenance
	\$0.06M North Pier Resurfacing
	\$0.71M Lock Building Interior Reconfiguration & Renovation
	\$0.62M Parking Lot Resurfacing
\$52.9M	Soo Locks Asset Renewal/Maintenance (\$38.3M + \$14.61M)
	\$21.79M Construction of Backup Generator Replacement (\$16.0M + \$5.79M)
	\$5.50M Construction of Facility Wastewater Sewer Rehabilitation (\$4.40M + \$1.10M)
	\$7.75M Maintenance and Storage Facility Repairs and Improvements (\$7.00M + \$0.75M)
	\$1.60M Facility Service Access Road Rehabilitation
	\$1.25M Facility Lighting Modernization – Phase 1
	\$1.25M Repair and Replace Miter Gate Anchorage Components for Mac Lock
	\$1.15M Maint. & Storage Building West Parking Lot Rehabilitation
	\$1.00M Design for Poe Lock Emergency Open Flow Control System
	\$0.75M Design Poe Miter Gate 1 Replacement Installation
	\$0.50M Poe Lock Ship Arrestor Rehabilitation Construction Oversight
	\$0.50M Admin Bldg. Comprehensive Sustainment Management System (SMS)
	\$0.50M Maint. & Storage Building SMS
	\$0.50M Operations Davis Building Comprehensive SMS
	\$0.50M Comprehensive Annual Inspection & Assessment Plan
	\$0.40M Construction Oversight for Backup Generator Replacement
	\$0.38M Construction Oversight for Mac and Poe Lock Structural Handrail
	\$0.35M Design of Poe Lock Gate 3 Replacement
	\$0.25M Design support/oversight Fabrication & delivery of Poe Gate 1 replacement
	\$2.61M West Neebish and Mooring Facility Maintenance
	\$2.00M West Center Pier Lighting Rehabilitation
	\$0.50M Facility Lighting Modernization Engineering and Design
	\$0.65M Security Upgrades and Improvements for Parking Lot
	\$0.51M Poe Stoplog Storage Foundation
	\$0.40M Procurement and Fabrication of Poe Lock Miter Gate Cylinder Rods
	\$0.30M Medium Tugboat Acquisition Contract Management Support
\$0.71M	Alanson Lock – Inland Route Repairs to Potable Water Supply; Design for Building Facility Improvements
\$14.4M	Floating Plant Fleet Repair (Ashtabula, Buffalo, Burns Waterway, Calumet, Cleveland, Duluth-Superior, Kewaunee, Keweenaw Waterway, Manitowoc, Marquette, Milwaukee)

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\$7.27M	Strike Removal
	\$3.04M Detroit River
	\$0.62M St. Clair River
	\$3.62M St. Marys River
\$9.73M	Dredged Material Management (\$8.16M + \$1.57M)
	\$1.24M CDF Fill Management (Calumet, Saginaw)
	\$1.70M CDF Maintenance (Detroit River, Indiana, Monroe, Saginaw River) (\$0.95M + \$0.75M)
	\$5.04M CDF Operations (Cleveland, Indiana, Saginaw)
	\$1.75M Dredged Material Management Plan and Assessment (Cleveland, Conneaut, Fairport, Grand Haven, Lorain, St. Joseph, St. Marys River) (\$0.93M + \$0.82M)
\$126.3M	Structure Design, Maintenance, and Repairs (\$31.9M + \$94.4M)
	\$7.49M Algoma Harbor – Repair of Breakwater North & South of Harbor Entrance
	\$0.03M Alpena Harbor – Critical Breakwater Safety Maintenance
	\$0.25M Barcelona Harbor - Design West Breakwater Repair
	\$10.0M Black Rock Lock - Construction of Bird Island Pier Repair
	\$0.10M Buffalo Harbor - Harbor Structure Maintenance Plan
	\$0.55M Charlevoix Harbor - Design Repairs for North Revetment
	\$0.53M Charlevoix Harbor - Maintenance of Navigation Structure
	\$0.05M Cheboygan Harbor - Critical Breakwater Safety Maintenance
	\$7.50M Cleveland Harbor – Construction of West Pier Repair
	\$0.25M Conneaut Harbor - Design of West Breakwater Repair
	\$0.23M Duluth-Superior Harbor - Design Ship Canal Shoreline Protection
	\$4.75M Dunkirk Harbor - Design and Construction of East Breakwater Repair
	\$8.00M Erie Harbor - Construction of North Pier Repair
	\$0.25M Fairport Harbor – Design of West Breakwater Repair
	\$0.03M Frankfort Harbor - Critical Breakwater Safety Maintenance
	\$1.41M Frankfort Harbor - Design Repair to North Breakwater and Connector
	\$0.85M Grand Haven Harbor - Design South Pier Nose & Revetment Resurfacing
	\$1.20M Grand Haven Harbor - Government Basin Shore Protection
	\$0.57M Grand Haven Harbor - Design Repair to North Pier
	\$20.0M Great Sodus Bay Harbor - Design and Construction of East Breakwater Repair
	\$10.0M Huron Harbor - Construction of West Pier Repair
	\$3.50M Kenosha Harbor - Maintenance of Coastal Structures
	\$0.48M Keweenaw Waterway - Design Repair to Lower Entry
	\$14.7M Lorain Harbor - Design and Construction of West Breakwater
	\$1.61M Manistique Harbor - Design for Repair to East and West Breakwater
	\$6.00M Milwaukee Harbor - Maintenance of Coastal Structures for Navigation
	\$0.97M Muskegon Harbor – Design and Temporary Repairs to South Revetment
	\$17.0M Oswego Harbor - Construction West Arrowhead Breakwater Repair (\$5.0M + \$12.0M)
	\$0.32M Pultneyville Harbor - Design of West Pier Repair
	\$0.61M South Haven Harbor - Design for Repair to South Revetment
	\$0.98M St. Joseph Harbor - Design for Repair to North Pierhead
	\$0.56M St. Joseph Harbor –Design for Repair to North Revetment
	\$5.60M Sturgeon Bay Harbor - Maintenance of Coastal Structures for Navigation

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\$4.29M	Sediment Sampling Analysis (Black River, Bolles, Cheboygan, Duluth-Superior, Inland Route, Lac La Belle, Little Lake, Monroe, Port Wing, Rouge River, Sebawaing River)
\$2.50M	Section 111 Beach Nourishment (Grand Haven, Holland, Lexington, Ludington, Port Sanilac)
\$0.02M	Sturgeon Point Marina Sand Bypassing with Cost-Share Reimbursement
\$0.32M	Section 216 Initial Reports (Grand Traverse, Inland Route, Knife River, La Pointe, Leland, Little Lake, New Buffalo)
\$0.26M	Regional Economic Data Collection
\$0.18M	Breakwater Assessment Team
\$1.52M	Lake Michigan Diversion Accounting
\$1.41M	Real Estate Management for Navigation
\$0.40M	Environmental Compliance (Black Rock Lock, Calumet, Chicago Lock, Cleveland, Detroit River, Duluth-Superior, Grand Haven, Indiana, Kewaunee, Keweenaw Waterway, Lorain, St. Marys River, Toledo)
\$0.23M	Cultural Resources (Black Rock Lock, Detroit River, Duluth-Superior, Grand Haven, Kewaunee, Keweenaw, St. Marys River)
\$0.44M	Dam Safety; Bridge Safety; Hydraulic Steel Structure Safety (Charlevoix, Chicago Lock, Indiana, St. Marys River) (\$0.36M + \$0.08M)
\$0.46M	Navigation Visitor Center Support (Duluth-Superior, St. Marys River)
\$2.95M	St. Marys Security and Grounds (Estimated Navigation Business Line Portion)
\$0.07M	Industrial Hygiene Services (Detroit River, Duluth-Superior, St. Marys River)
\$0.30M	Beneficial Use Dredged Material Evaluation Erie Pier (Duluth-Superior)