



US Army Corps
of Engineers®



St. Joseph Harbor, MI

Harbor Features

- Located on the east shore of Lake Michigan, 60 miles east of Chicago, IL, and 24 miles south of South Haven, MI.
- Authorization: River & Harbor Acts of 3 Mar 1875, 14 Jun 1880, 3 Mar 1899, 30 Aug 1935, 2 Jun 1937, Mar 1945, 3 Jul 1958
- Deep draft commercial harbor
- Project depths of 21 feet in the entrance and inner channel; 18 feet in the inner river channel and turning basin.
- Five year average (2007-2011) tonnage is 388,575 tons of material shipped and received
- Over 5,300 feet of structures including piers and revetments
- Over 1.5 miles of maintained channel
- Outer channel dredged material is used for beach nourishment. Inner channel material is placed upland.
- Major stakeholders include U.S. Coast Guard, Lake Carriers' Association, Lafarge North America, Dock 63, and Central Dock Company.

Project Requirements

- Approximately 40,000 cubic yards of material must be dredged from the entrance channel annually. Approximately 30,000 to 60,000 cubic yards of material must be dredged from the inner harbor on a 2 to 4 year cycle.
- Dredging of the outer harbor was completed in 2013 using Hurricane Sandy Relief Funds to remove shoaling that occurred due to the storm event.
- Commercial traffic is currently not able to access the inner harbor due to significant shoaling that occurred in the Spring of 2013 as a result of a Midwest Flood Event.



Consequences of Not Maintaining the Project

- If dredging is not conducted in the spring of 2013, the harbor will remain closed to commercial traffic. The severe shoaling resulted from gale force winds generated by Hurricane Sandy.
- Reduction of bulk commodities that pass through the harbor and generate \$12.2M annually in direct revenue while supporting 324 direct, indirect, and induced jobs that produce over \$21M per year in personal income.
- Light loading; loss of between 4 and 5 feet of channel depth results in increased transportation costs of between \$3.6M and \$5.5M.

Transportation Importance

- Regionally significant receiving port on the Great Lakes.
- Commodities received include limestone, sand, gravel, armor stone, cement, slag, salt, and petroleum products.
- Project serves as an important Harbor of Refuge
- Harbor is home to the U.S. Coast Guard Station Saint Joseph.

**U.S. Army Corps of Engineers Fiscal Year (FY) 2013, 2014 and 2015
St. Joseph Harbor, MI - Project Requirements and President's Budget (\$1,000)**

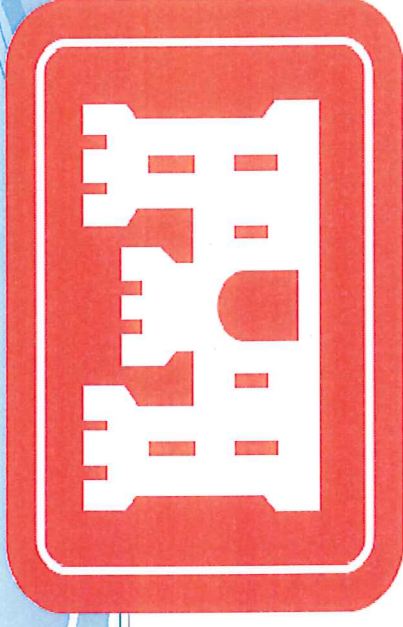
Work Package	FY13 Requirement	FY13 Allocation	FY14 Requirement	FY14 Appropriation	FY15 Requirement	FY15 President's Budget	Sandy Supplemental Funding
Project Condition Surveys	190		190	190	190		
Maintenance Dredging of Outer Harbor – Primary Work Package	570		570	570	570		550
Maintenance Dredging of Inner Harbor – Primary Work Package	900		740	740			
Maintenance Dredging – Backlog Work Package	225		225		225		
Emergency Dredging of Outer Harbor							
Structure Repair – by Govt. Floating Plant							
Shoreline Mitigation (Court Decision)	750						
Sediment Budget Analysis, Section 111	150		150		150		
Structure Repair - by contract	280		280		280		
TOTALS	3,065	0	2,155	1,500	1,415	0	550

Congressional Interests

- Representative Fred Upton R-MI-6
- Senator Carl Levin D-MI
- Senator Debbie Stabenow D-MI

St. Joseph Harbor

FY 2014 Dredging



Areas to be dredged

53,000 Cubic Yards to be removed

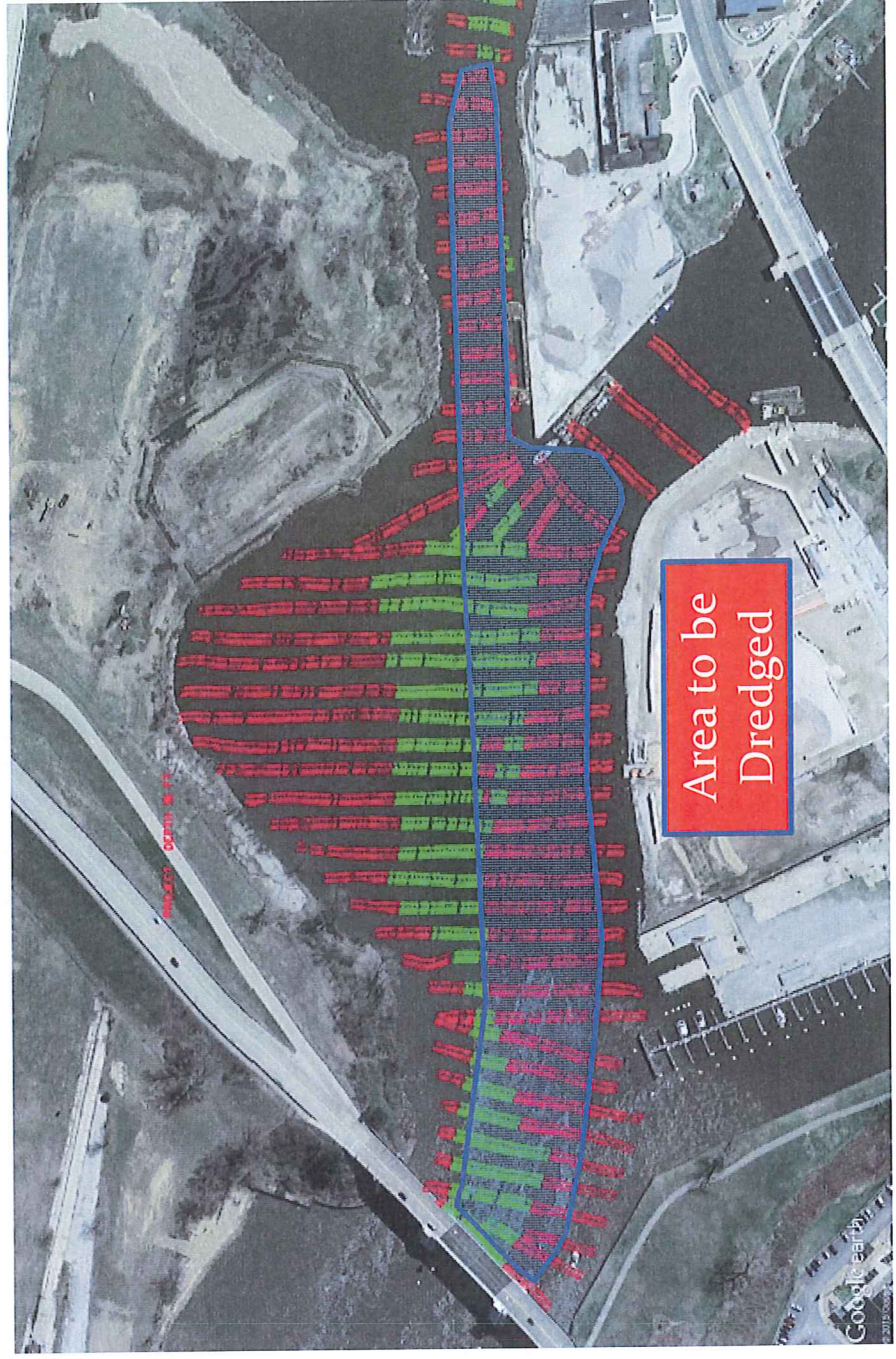
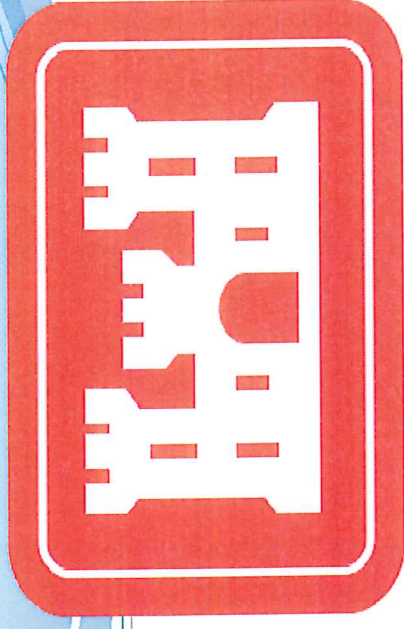
Channel Line 1.0

Channel Line 1.5

ST. JOSEPH MARINE, INC.
CONSTRUCTION OF CHANNEL
FROM 10 DREDGING

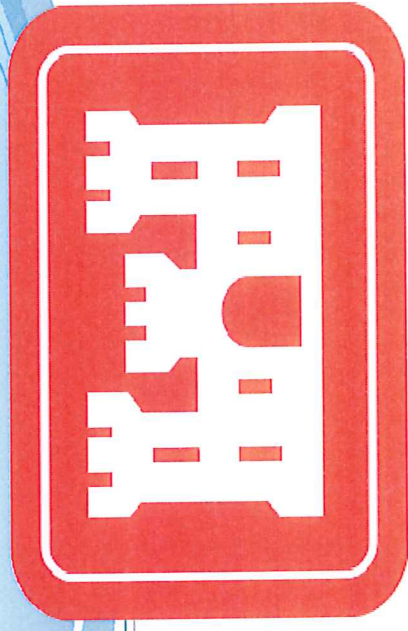
St. Joseph Harbor

Inner Harbor (Prior to Dredging)



St. Joseph Harbor

Inner Harbor (After Dredging)





St Joseph Harbor FY14 Dredging

- Outer Harbor (Hydraulic Dredging)

53,843 cubic yards

\$8.22 per yard

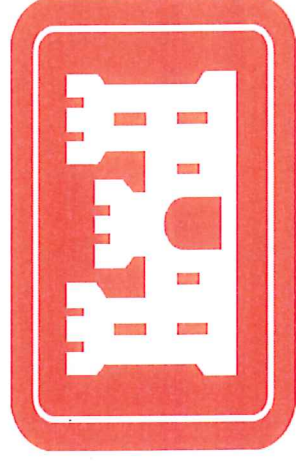
\$442,589 total cost

- Inner Harbor (Mechanical Dredging)

52,491 cubic yards

\$18.29 per yard

\$958,485 total cost



USACE Budget Cycle

- 32 Month Process

