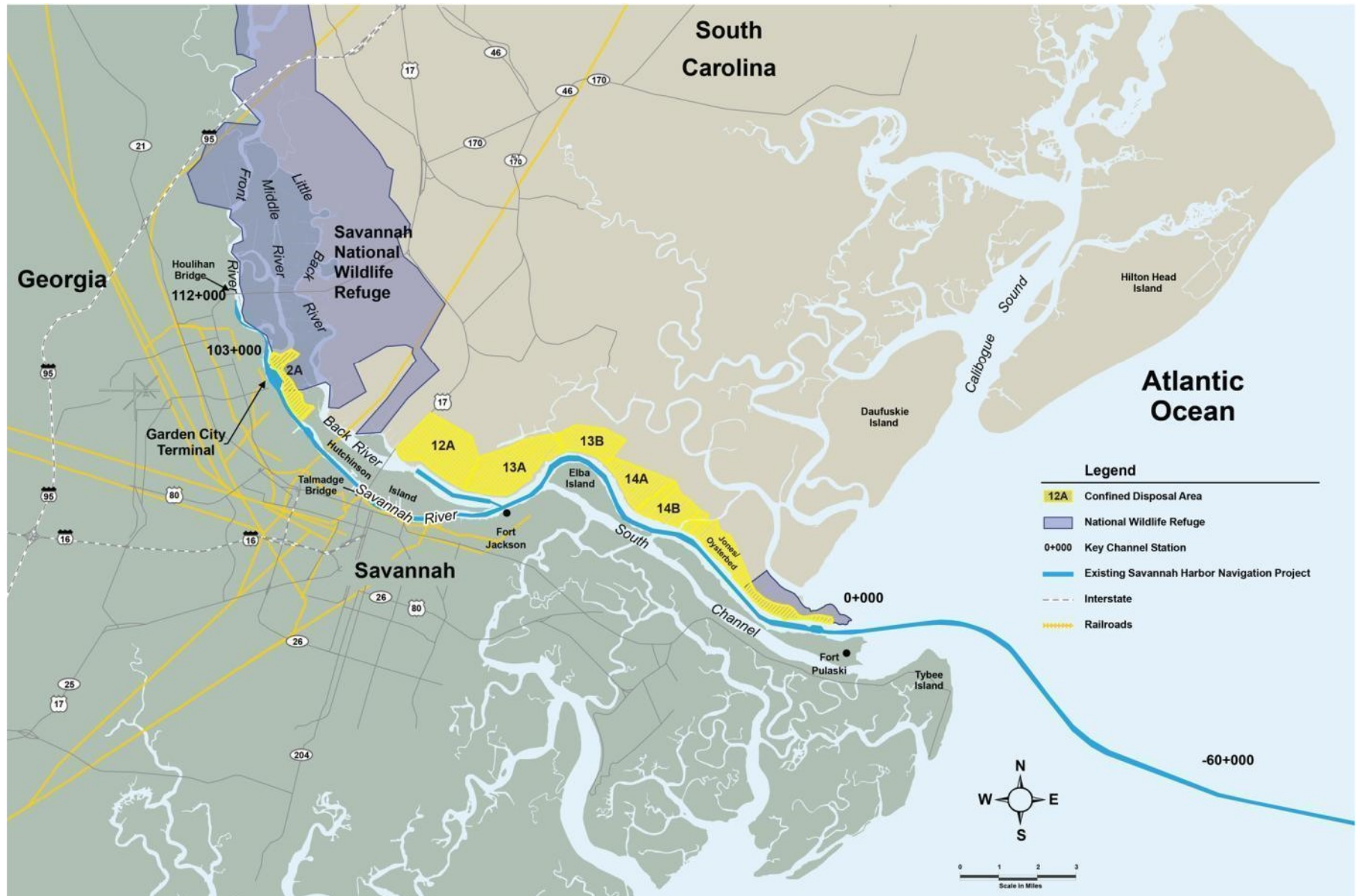
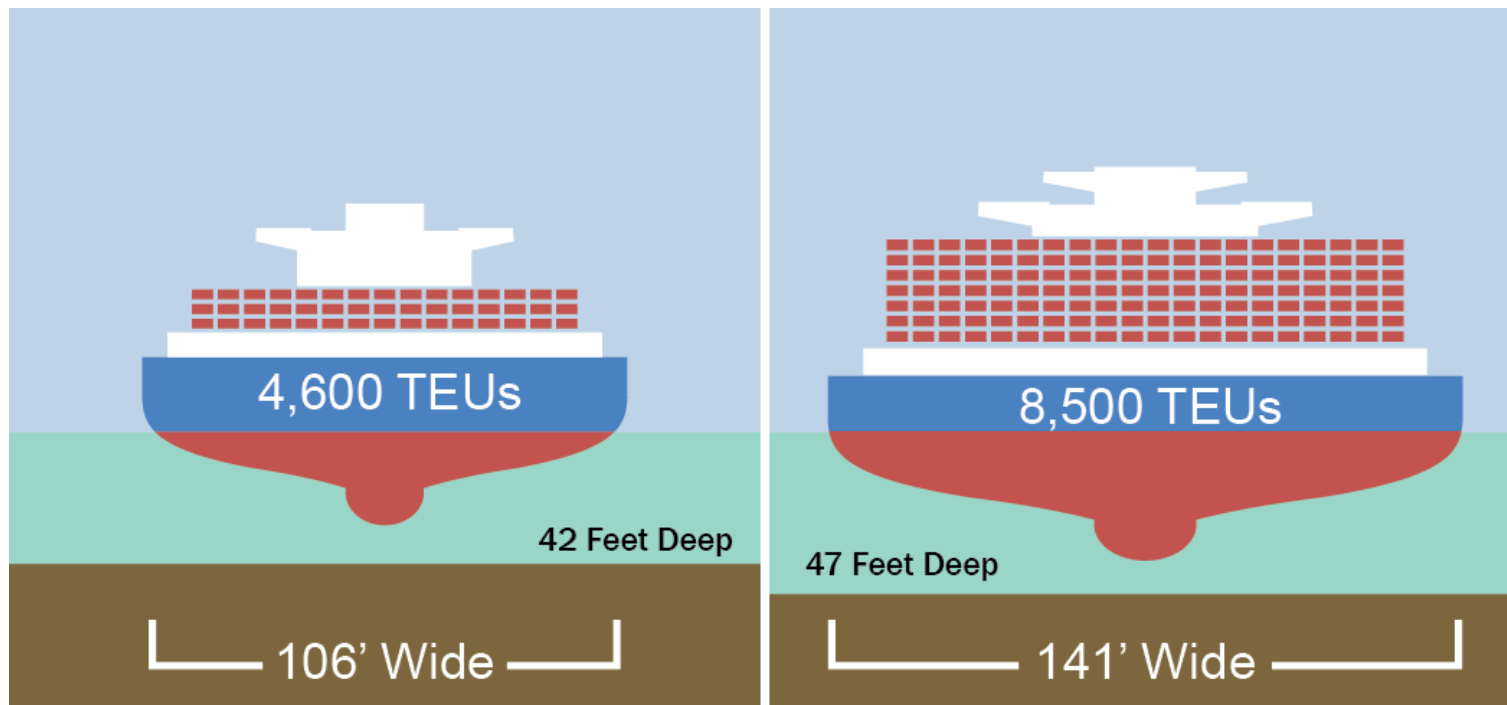


OVERVIEW



Project Objectives

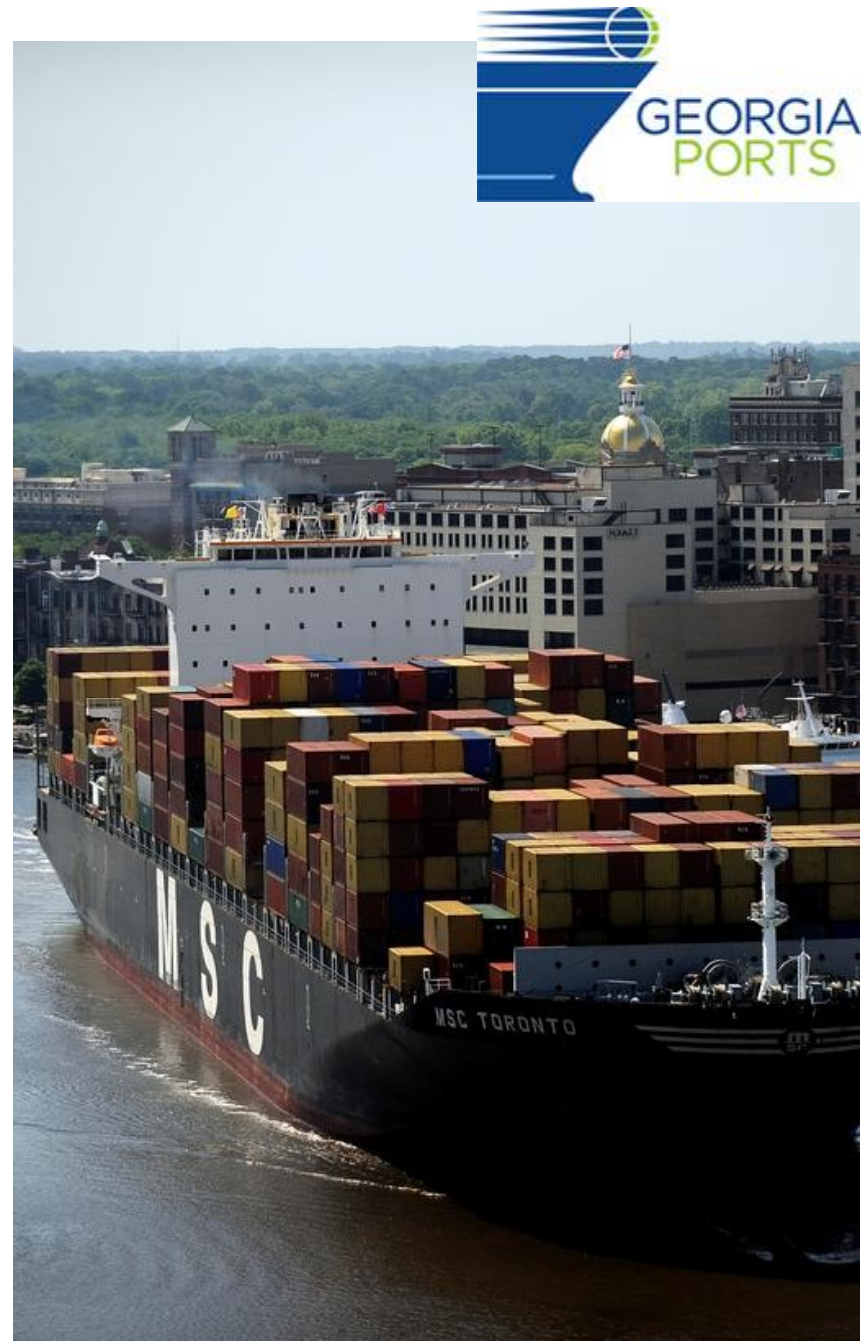
- Improve the efficiency of moving goods through Savannah Harbor
- Reduce tidal constraints
- Avoid, minimize and mitigate impacts to maximum extent practicable



SAVANNAH HARBOR EXPANSION PROJECT (SHEP)

MILESTONES

- **Reconnaissance Study** completed in 1996
- GPA completes **Feasibility Study** in 1998
- Project **authorized by Congress** in 1999
- **MOU** signed with Corps in 2001
- **Draft Reports** released in November 2010
- Final Cooperating **Agency approvals** July 2012
- **Final Report** released for review July 2012
- **Chief of Engineers Report** issued August 2012
- **Record of Decision** issued October 2012
- **Global Settlement Agreement** with South Carolina and environmental interests May 2013
- **Final Project Permits** issued in July 2013
- **WRRDA** signed by President June 10, 2014



AUTHORIZATION



PUBLIC LAW 106–53—AUG. 17, 1999.

(B) **CONDITIONS.**—The project authorized by subparagraph (A) **may be carried out only after—**

(i) **the Secretary, in consultation with affected Federal, State of Georgia, State of South Carolina, regional, and local entities, reviews and approves an environmental impact statement** for the project that includes—

(I) an analysis of the impacts of project depth alternatives ranging from 42 feet through 48 feet; and

(II) a selected plan for navigation and an associated mitigation plan as required under section 906(a) of the Water Resources Development Act of 1986 (33 U.S.C. 2283(a)); and

(ii) **the Secretary of the Interior, the Secretary of Commerce, the Administrator of the Environmental Protection Agency, and the Secretary approve the selected plan and determine that the associated mitigation plan adequately addresses the potential environmental impacts of the project.**

(C) **MITIGATION REQUIREMENTS.**—The mitigation plan shall be implemented before or concurrently with construction of the project.

PARTIAL LIST OF INVOLVED AGENCIES



USACE Deep Water Navigation Center of Expertise
USACE South Atlantic Division Office
USACE Savannah District – Project Management
USACE Mobile District/Nav. PCX – Planning and Policy
USACE Wilmington District – Engineering
USACE Charleston District – Engineering Support
USACE North Atlantic District – LNG Analysis
USACE Walla Walla District – Cost Engineering Analysis
USACE Oklahoma District – Cadmium Analysis
USACE ERDC- Engineering Research and Modeling
USACE Institute for Water Resources (IWR)
Secretary of the Interior - USFWS Regional HQ-Atlanta
Secretary of Commerce – NMFS Regional HQ-Atlanta
US Environmental Protection Agency Regional HQ-Atlanta
US Geological Survey – Columbia, SC
US Fish & Wildlife Service – Savannah National Wildlife Refuge
US Fish & Wildlife Service – Charleston Ecological Services Office
National Marine Fisheries Service – Charleston Office
National Marine Fisheries Service – Tampa Office
US Environmental Protection Agency – Water Quality modeling/analysis
US Department of the Navy
Georgia Dept of Natural Resources – Coastal Resources Div; Wildlife Resources Div; State Historic Preservation Office
Georgia Environmental Protection Division
South Carolina Department of Natural Resources
South Carolina Department of Health and Environmental Control
City of Savannah
Skidaway Institute of Oceanography
University of Georgia University of Florida Clemson University

ENVIRONMENTAL INVOLVEMENT



GEORGIA ENVIRONMENTAL GROUPS

Georgia Conservancy
Chatham Environmental Organization
Savannah Riverkeeper
Center for Sustainable Coast
Georgia Sierra Club

SOUTH CAROLINA ENVIRONMENTAL GROUPS

Coastal Conservation League
South Carolina Wildlife Federation

NATIONAL ENVIRONMENTAL GROUPS

National Wildlife Federation
Taxpayers for Common Sense
Southern Environmental Law Center
Coalition for a Safe Environment
Natural Resources Defense Council

AGENCY and PUBLIC INVOLVEMENT



➤ 72 Stakeholder Evaluation Group Meetings (plus numerous committee meetings)

➤ 43 Interagency Coordination Team Meetings

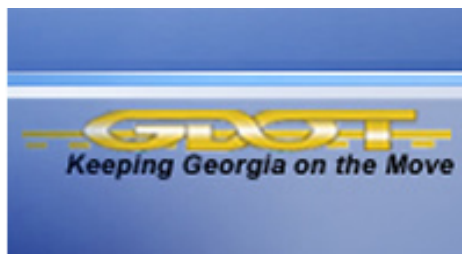
➤ 3 Executive Management Group Meetings

➤ 13 Executive Steering Committee Meetings

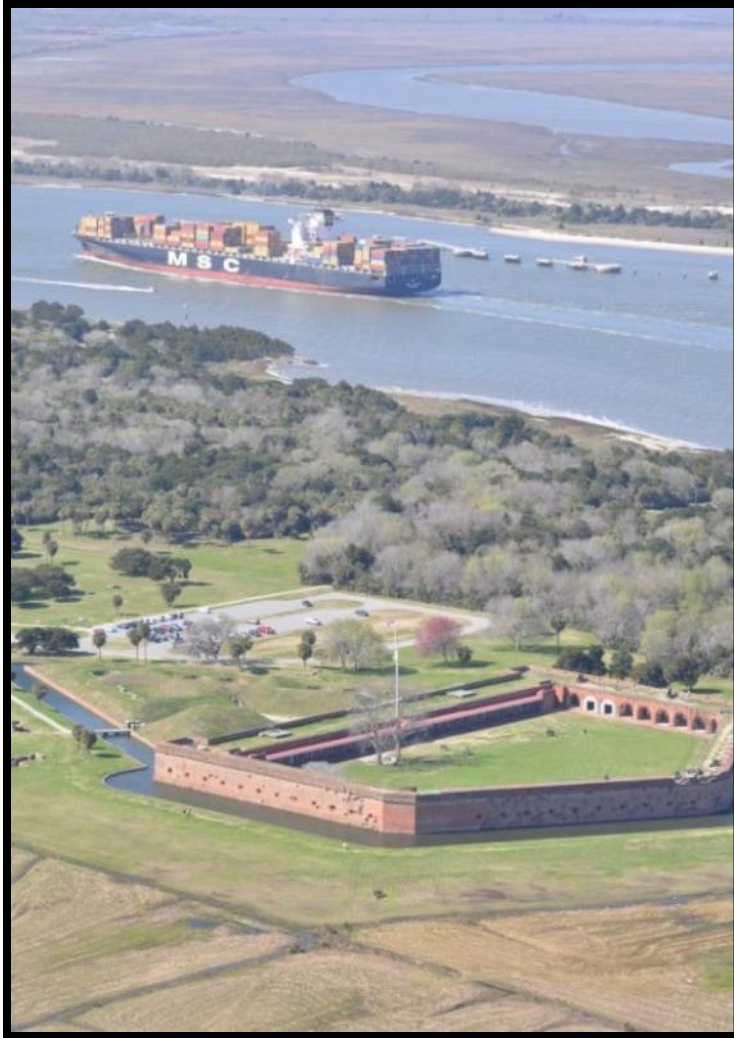
➤ Public Review of Draft Report

➤ Public Workshop

➤ Public Review of Final Report



ENVIRONMENTAL IMPACTS



Project features adequately mitigate for:

- Loss of 16 AC brackish marsh
- Conversion of tidal marshes
- 223 AC freshwater marsh to brackish marsh
- 740 AC salt marsh to brackish marsh

- Loss of fish habitat
- 7% loss in shortnose sturgeon winter habitat
- 10% loss in striped bass spawning habitat

- Impacts to dissolved oxygen

- Impacts to drinking water

SHEP AT A GLANCE

NAVIGATION FEATURES

Entrance Channel Dredging

Inner Harbor Dredging

Kings Island Turning Basin

USCG Navigation Aids

Environmental Monitoring
& Adaptive Management

Environmental Sequencing
Requirements

SHEP: \$706M Cost

MITIGATION FEATURES

Environmental Monitoring

Dissolved Oxygen Injection System

CSS Georgia Recovery

Raw Water Storage Impoundment

Fish Bypass

Flow Rerouting

Remove Tidegate & Sediment Basin

Striped Bass Stocking Payment

Acquire & Preserve Freshwater Wetlands

1S Marsh Restoration

Boat Ramp

SAVANNAH HARBOR EXPANSION PROJECT (SHEP)

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SETTLEMENT AGREEMENT

Federal Lawsuit

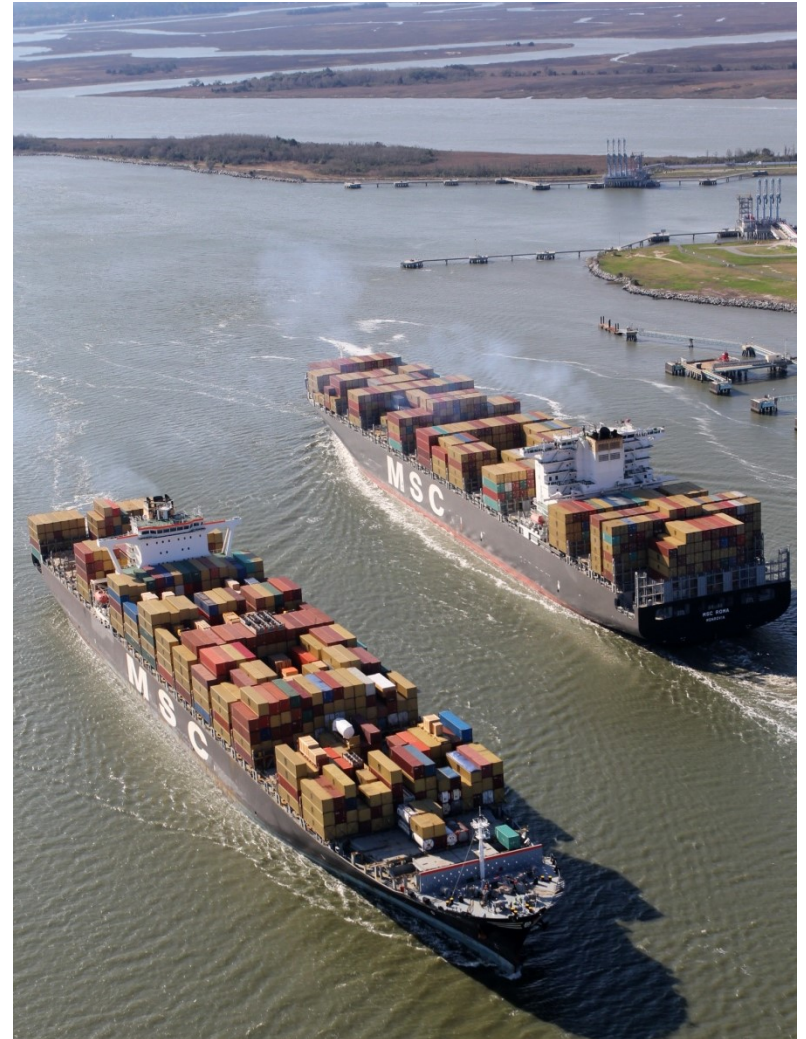


- Settled legal differences between the parties
- Allowed the project to proceed
- Georgia agreed to provide additional funding outside the project
- Corps agreed to delay deepening the inner harbor until it demonstrates the dissolved oxygen system performs as expected
- SC agreed to provide all required environmental approvals
- Parties agreed not to sue the project in the future

ABOUT SHEP

Deepen from 42' to 47' NED selected plan

- \$652M Total First Cost (FY12 Price Levels)**
- Approximately half the cost attributed to mitigation**
- Authorized Cost now \$973M (Oct 16 Levels)**
- \$282M Annual Net Benefits**
- Benefits Derived From Increased Transportation Efficiencies**
- 7.3:1 @ 2.875% (current discount rate) and 3.6:1 @ 7% (budget rate) Benefit to Cost Ratio**
- Remaining Benefit / Remaining Cost Ratio is 10.7.**



SHEP FEASIBILITY STUDY



	SHEP	Future
Duration	15 Years	3 Years
Cost	\$52 Million	\$3 Million
Volume	13 Feet X2	3 Inches X2

WRRDA Title I –

Program Reforms & Streamlining



TITLE I—PROGRAM REFORMS AND STREAMLINING

SEC. 1001. VERTICAL INTEGRATION AND ACCELERATION OF STUDIES.

(a) IN GENERAL.—To the extent practicable, a feasibility study initiated by the Secretary, after the date of enactment of this Act, under section 905(a) of the Water Resources Development Act of 1986 (33 U.S.C. 2282(a)) shall—

- (1) result in the completion of a final feasibility report not later than 3 years after the date of initiation;*
- (2) have a maximum Federal cost of \$3,000,000; and*
- (3) ensure that personnel from the district, division, and headquarters levels of the Corps of Engineers concurrently conduct the review required under that section.*