

Southwestern Division “Pacesetters”

2012 Texas Water Conservation Association Meeting

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Southwestern Division Commander

15 June 2012



US Army Corps of Engineers
BUILDING STRONG®



AGENDA

➤ Overview of Southwestern Division

Missions

➤ Texas Ports – Value to the Nation

➤ Texas Coastal Initiative

➤ TransCanada Gulf Coast Pipeline

Project

➤ Conclusions



Civil Works Mission Areas

Little Rock District's MV Ted Cook positions the Crane Barge Mike Hendricks at Dam 2 during the flood of 2011

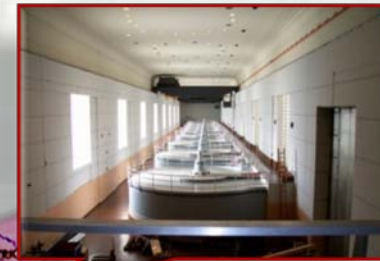
Navigation (Inland)
2 major waterways
(GIWW and MKARNS)

Hydroelectric Power
•18 power plants in 6 states
produce 6.7 billion kw hours
•87% of regional capacity,
third in the Corps

Water Supply
•8.4 million acre-feet of
water storage
•Water control contracts =
water for 1.8 million
households



Sardis Dam, Oklahoma



Bull Shoals
Powerhouse,
Arkansas



Recreation
•20 percent of the Corps' total
recreation projects located
within the regional boundary
•83 million visitors at 90 operating
projects located in five states



Moonshine Beach,
Table Rock Lake, Mo.



Dallas Floodway

Flood Damage Reduction
•74 flood damage
reduction
lakes/reservoirs
•33.22M acre-feet
of flood storage
•760 miles of local flood
protection projects
•\$85 B in cumulative
flood damage prevention

Navigation (Ports and Channels)
•4 of the Nation's "Top Ten" ports
•32 channels (15 deep draft, 17 shallow draft)
•More than 500 M tons of commerce annually



Houston Ship Channel

Regulatory (work in waters & wetlands)
•Over 5000 permit decisions annually
•Protection of waters & wetlands

Regulators examine soils on a
wetland delineation field visit.

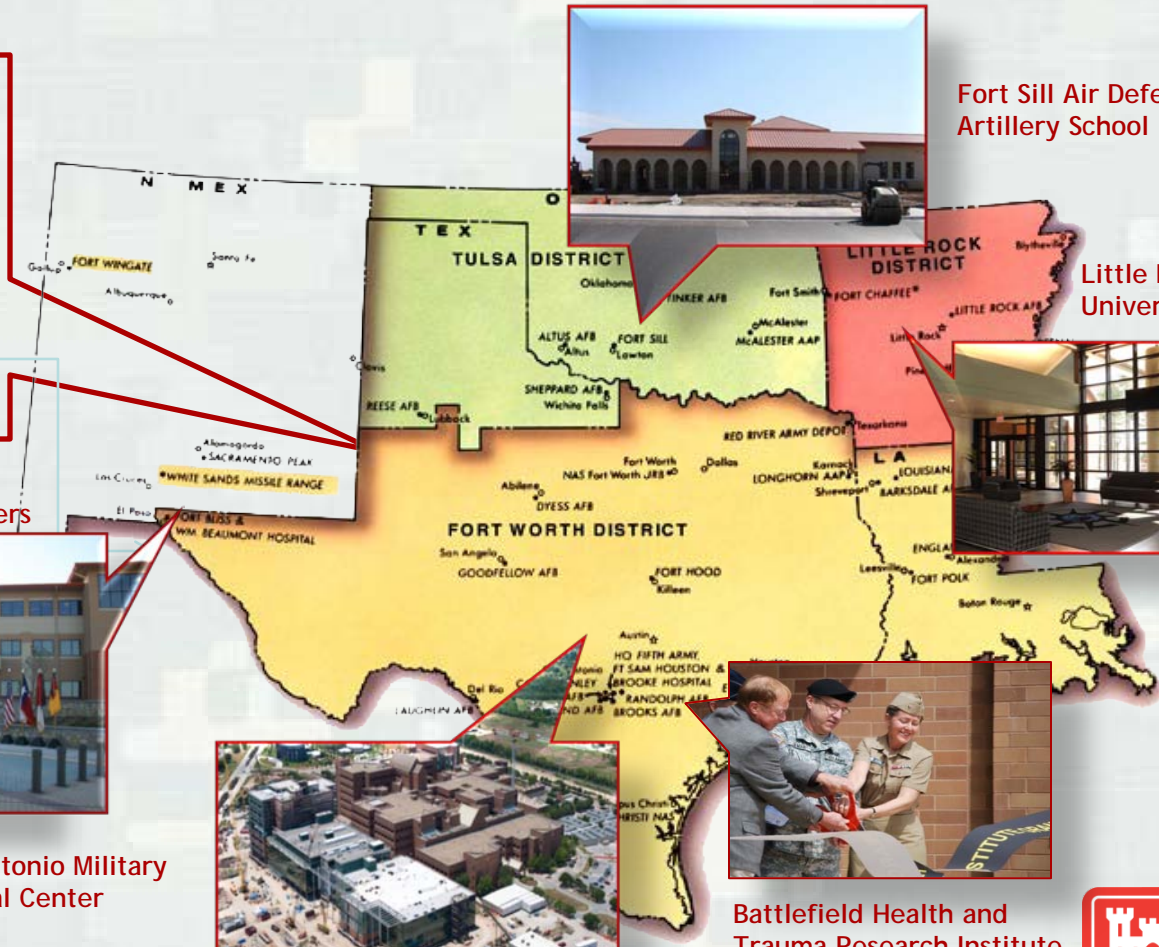


Military Program Mission Areas

•Engineering •Construction •Installation Support

•Environmental management services for the Army & Air Force

9 Major Army Posts
9 Major Air Force Bases
Almost 1/3 of Nation's
Military Activities



Fort Sill Air Defense Artillery School



Little Rock AFB University Center



Fort Bliss 1st Brigade Combat Team headquarters



San Antonio Military Medical Center

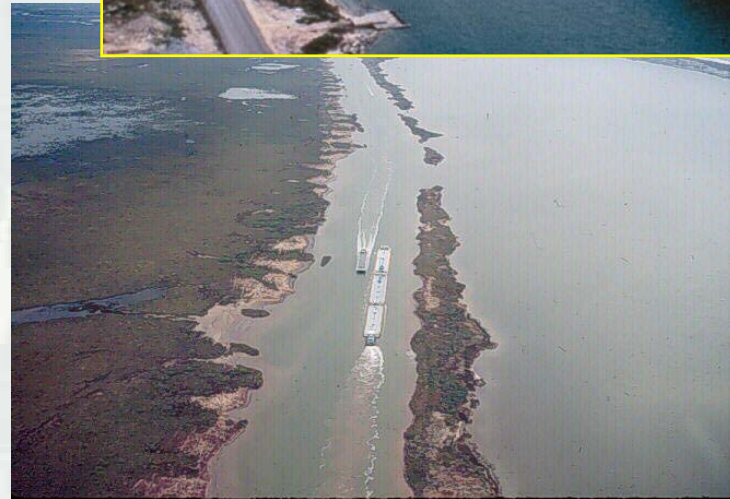


Battlefield Health and Trauma Research Institute

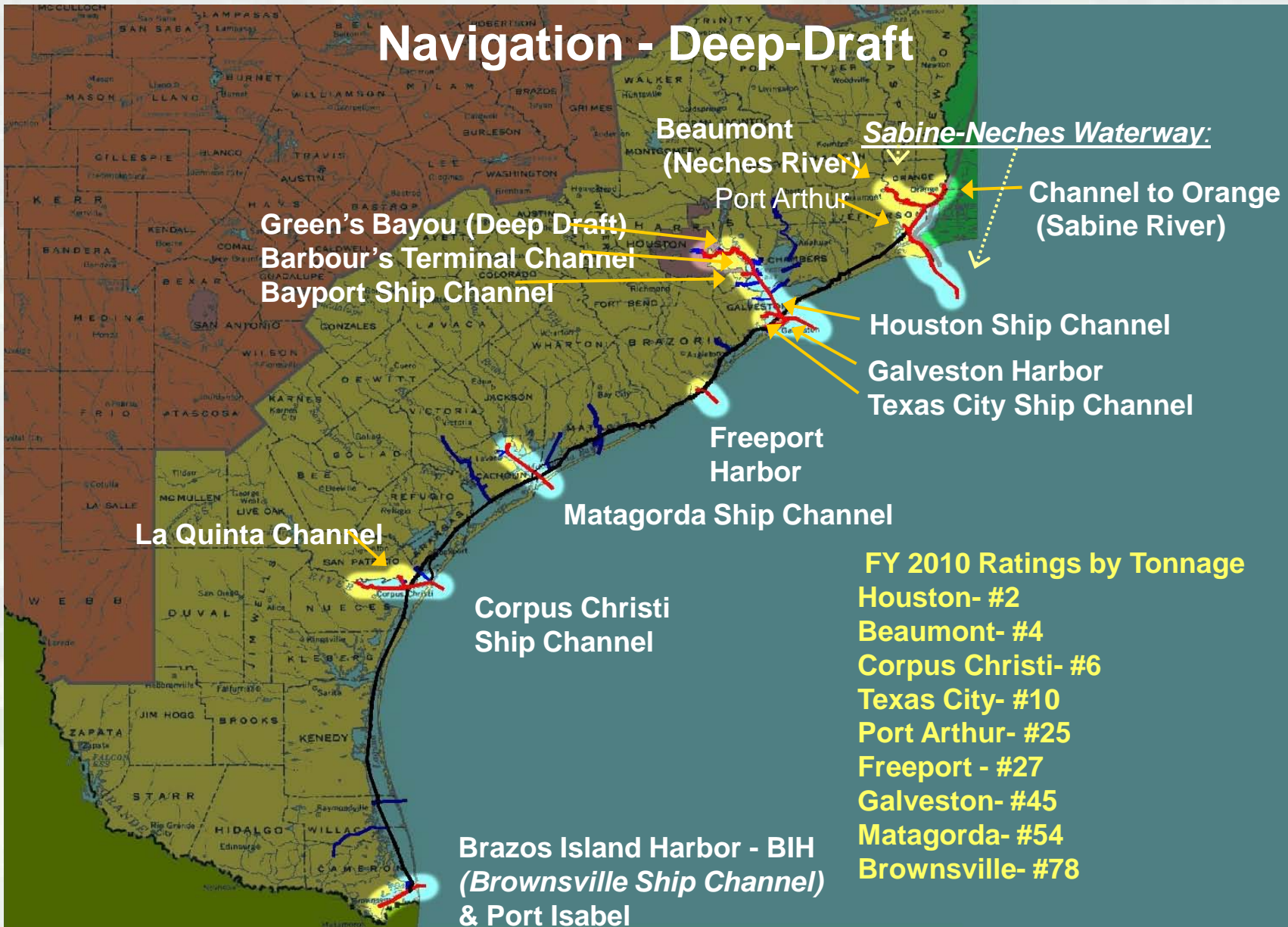


Texas Navigation System

- 1,000 miles of navigation channels w/ assoc. jetties and placement areas
 - ▶ 240 m. of deep draft (> 20 feet)
 - ▶ 760 m. of shallow draft (GIWW & tributary channels)
- 13 shallow draft ports
- 15 deep draft ports
- Texas Ports move 575M Tons annually
- Contract w/industry to maintain project depths on the waterways.
- Use dredged material beneficially where possible; beach nourishment, marshes filling and creation, bird islands, etc.



Navigation - Deep-Draft



Navigation - Shallow-Draft

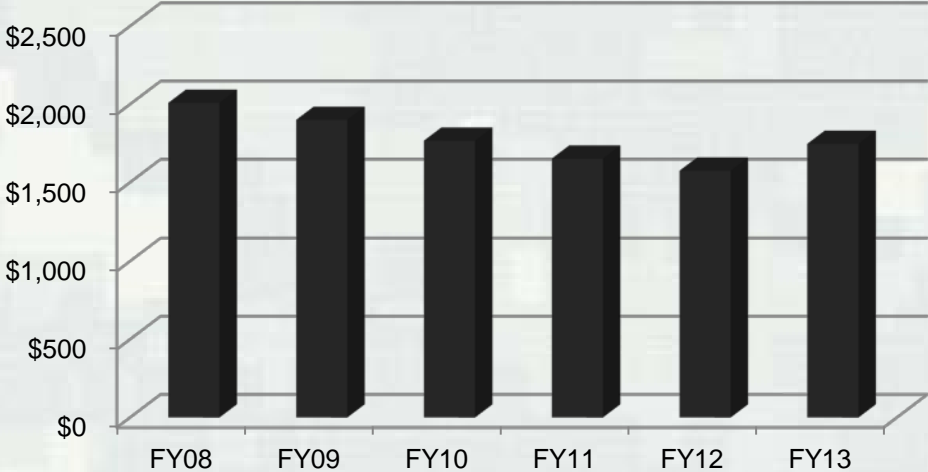


Victoria- #94

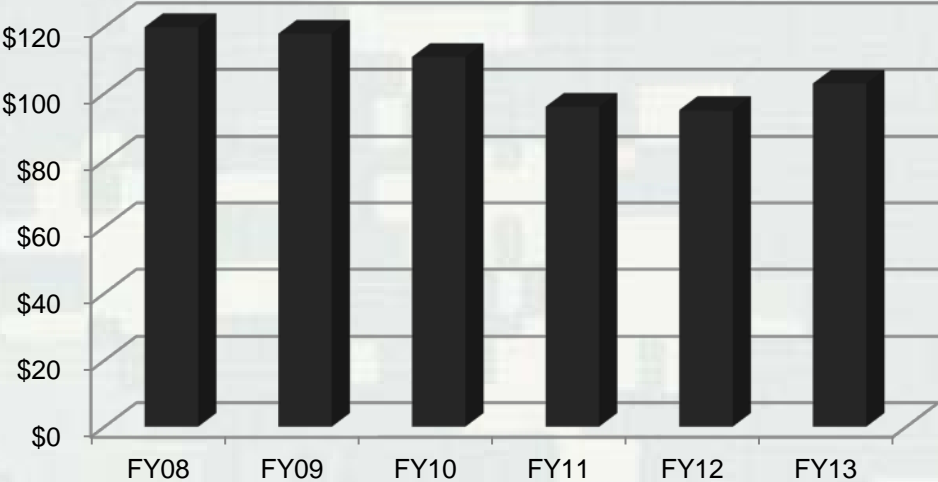


NAVIGATION FUNDING

National Navigation Budget



Texas Coast Navigation Funding



PORT STATISTICS & STUDIES

					2011			
					Channel	2010	UNDER STUDY	
TEXAS	AUTHORIZED	TONNAGE (millions) 2010			Availability	Value of	IMPROVED	
PORTS	DEPTH (ft)	DOMESTIC	FOREIGN	TOTAL	1/2 Width	Tonnage	DEPTH (ft)	STATUS
Deep Draft Coastal								
Houston (2)	45	67.6	159.6	227.1	53.3%	\$170.4B	45	Construction Completed in June 2005
Beaumont (4)	40	25.2	51.8	77	12.9%	\$37.8B	48	Chief's Report Signed July 2011
Corpus Christi (6)	45	18.8	54.8	73.7	83.8%	\$35B	52	Deepening authorized in WRDA 2007
Texas City (10)	45	16.5	40.1	56.6	87.5%	\$28.5B	45	Construction Completed in June 2011
Port Arthur (25)	40	10.8	19.5	30.2	12.9%	\$13.1B	48	Chief's Report Signed July 2011
Freeport (27)	45	4.3	22.3	26.7	61.6%	\$13.7B	50-55	Chief's Report December 2012
Galveston (41)	45	5.9	8.0	13.9	76.0%	\$8.6B	45	Construction Completed March 2011
Matagorda (54)	38	2.2	6.7	8.9	27.5%	\$2.4B	38	No improvements forecasted
Brownsville (78)	42	2.1	2.5	4.6	66.3%	\$3.1B	45-52	Chief's Report August 2014
Victoria (89)	12	2.8	0	2.8	62.5%	\$2.1B	12	No improvements forecasted
Inland Waterway								
GIWW	12			67.0	Varies	\$34.6B	12	

22.2% of Nation's Total Export tonnage (maritime)

43.4% of Imported crude oil (maritime)

**Texas is the Nation's #1 State for Waterborne Commerce
(Major Ports = 521.5M Tons worth \$314.7B) - [source - IWR]**



Coastal Texas Ecosystem Protection & Restoration

○ Texas coast at significant risk of damages to public safety, property, and ecological resources from storms, sea level rise and other coastal hazards.

- 18 counties home to 26% of state's population
- 4 of Nation's top 10 ports located in Texas
- Two-thirds of nation's petrochemicals produced along the Texas coast
- 64% of Texas coast is eroding at average rate of 5.9 feet/year with some areas losing 30 feet/year



○ Study integrates: programmatic plans for flood damage reduction; storm damage protection; ecosystem restoration; risk reduction measures for damages to public safety, property and environmental resources from storms and erosion

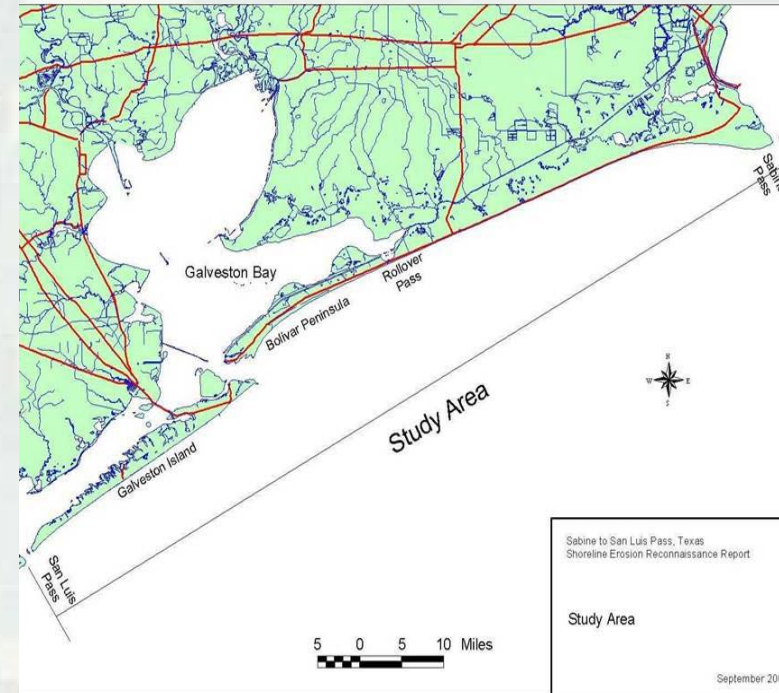
○ Plan would provide: Basis for informed decision-making by the Federal government and non-Federal sponsors



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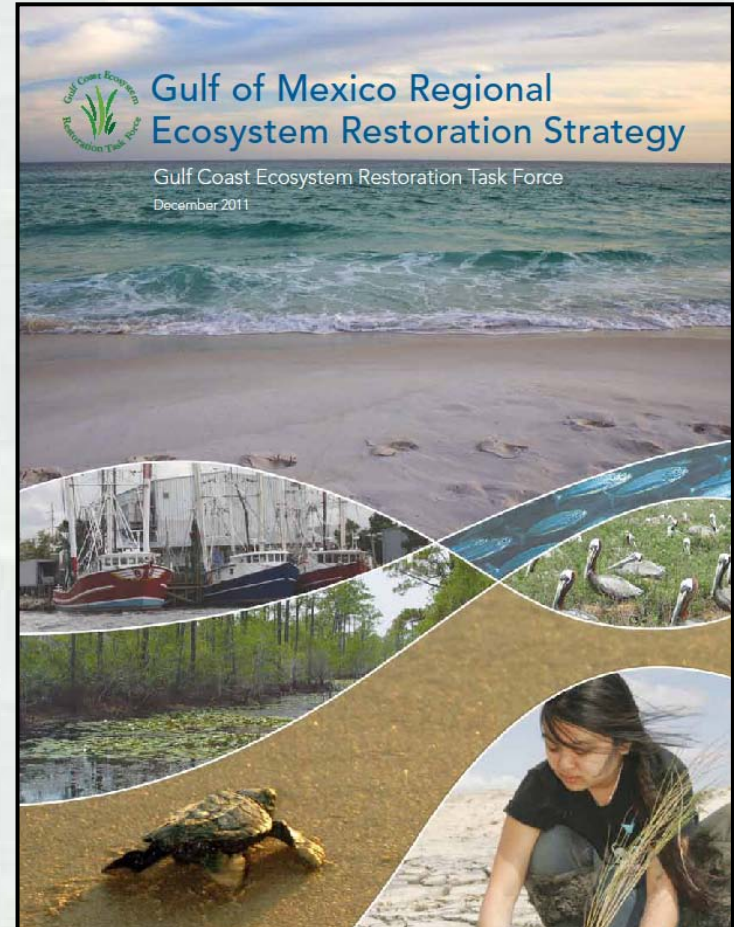
Sabine Pass to Galveston Bay, TX

- Post - Hurricane Ike - SEP 2008: the study area was assessed; determined that the entire area was significantly altered both physically and economically
- Initiated a 100% Fed cost re-scoping effort to expand study area to a six County region in Southeast Texas
- Four regional scoping meetings scheduled for late February and early March 2012; collect input from the public, resource agencies and other stakeholders
- Culmination of re-scoping will result in a new Project Management Plan (PMP) and Feasibility Cost Sharing Agreement (FCSA) with new non-Federal Sponsor – the Texas General Land Office (GLO)
- An executed FCSA is scheduled for June 2012
- Re-initiation of feasibility will commence in July 2012



Coastal Texas Ecosystem Protection & Restoration Study Status

- Texas General Land Office expressed support as potential sponsor in 2011
- Study included as major recommended action in Gulf of Mexico Regional Ecosystem Restoration Strategy (2011)
- New Start Reconnaissance Study was requested for FY 13
- FY 13 appropriation uncertain at this time



CONCLUSIONS

- Texas is a **ready and supportive** partner for federal investment into required **navigation improvements** which have national benefits
- Keys to success
 - Port partnerships
 - Partnership with Dredging Industry
 - Managing expectations
 - Strategic communications
 - Facilitating private investment (risk reduction)
- Texas is in **desperate need** of comprehensive coastal study to **mitigate hurricane risks**

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TEXAS DREDGING VIDEO





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