Beneficial Use of Dredged Material in the Galveston District

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Galveston District

Galveston District

Custodians of the Coast

US Army Corps of Engineers

BUILDING STRONG®

Galveston District
Beneficial Use Project Locations

Galveston District Beneficial Use Statistics

	FY 10	FY 12	FY 13
Total Amount Dredged	24,500,000	20,000,000	20,500,000
Total Amount Used for BU	4,000,000	3,200,000	4,300,000
Percent Beneficial Use	~16%	~16%	~20%

Notable Galveston District Beneficial Use Projects

Houston Navigation Channel – marsh restoration at Atkinson Island

Texas City Channel –1,000 acres of marsh in Lower Galveston Bay

Sabine-Neches Waterway– Bessie Heights Marsh

GIWW– Aransas National Wildlif Refuge – 1,600 acres of marsh

Brazos Island Harbor – 3,000 feet of beach nourishment at South Padre Island

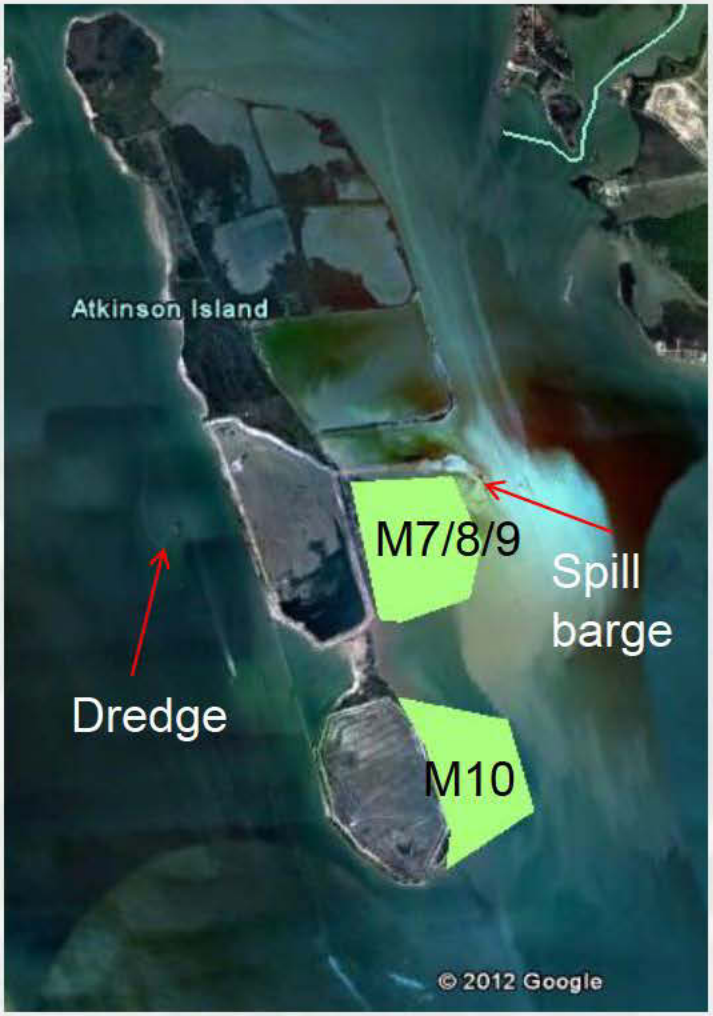
Port Mansfield Channel – 3 acres beach nourishment

Chocolate Bayou – marsh creation

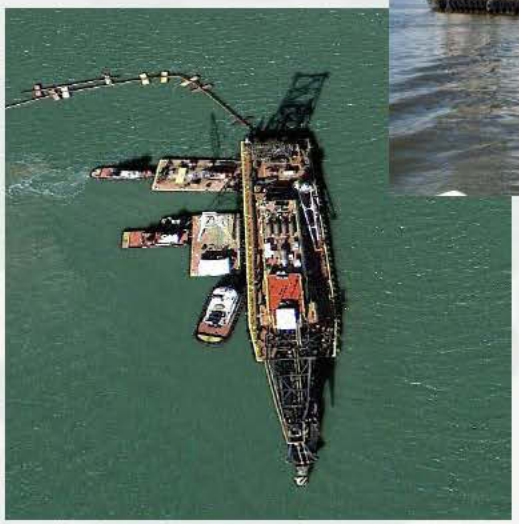
Houston Ship Channel – Evia Island – 6 acre bird nesting habitat

Houston Ship Channel– Bolivar Marsh creation/channelization

Houston Ship Channel—Upper Galveston Bay



Aerial of Existing Atkinson Island marsh cells and new cells currently under construction (M7/8/9,&10)

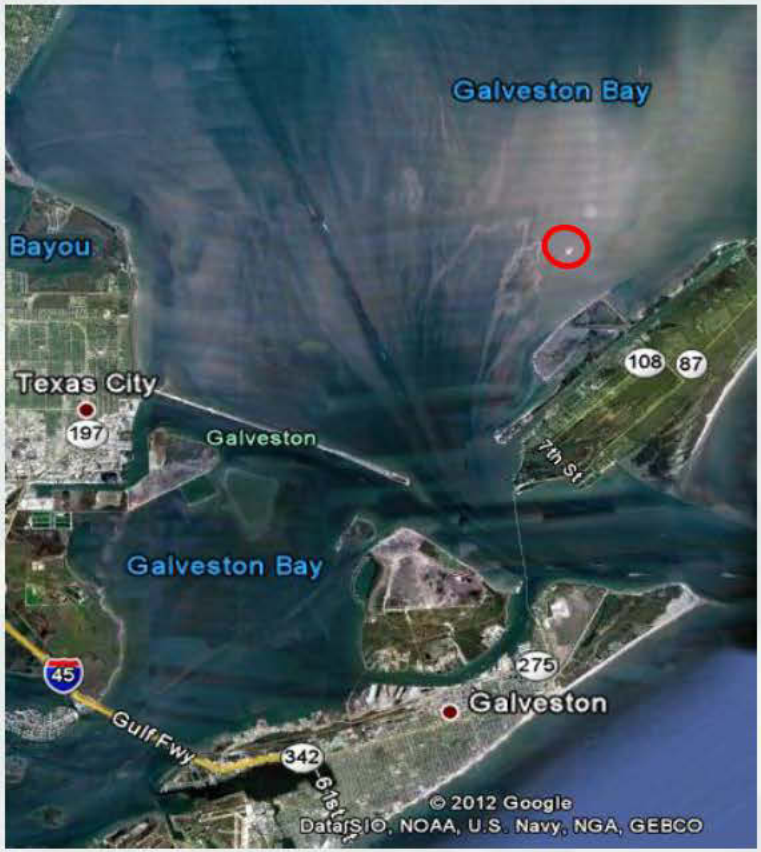


Houston Ship Channel—Upper Galveston Bay

Atkinson Island marsh cell under construction

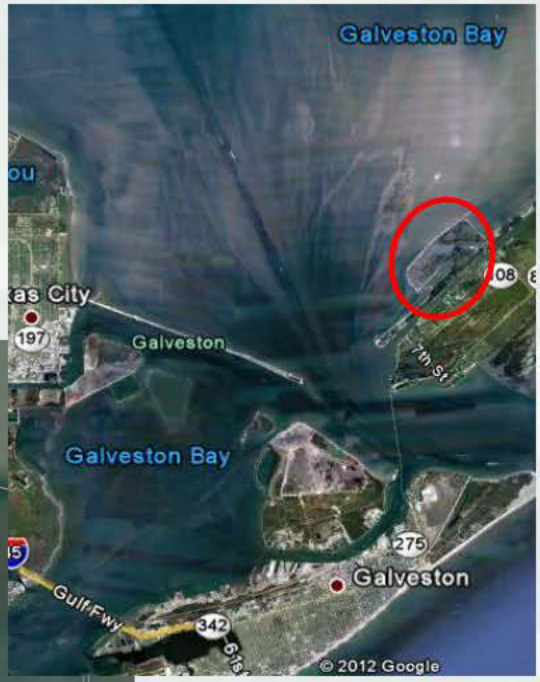
Houston Ship Channel—Lower Galveston Bay

Evia Island--Bird Island Creation



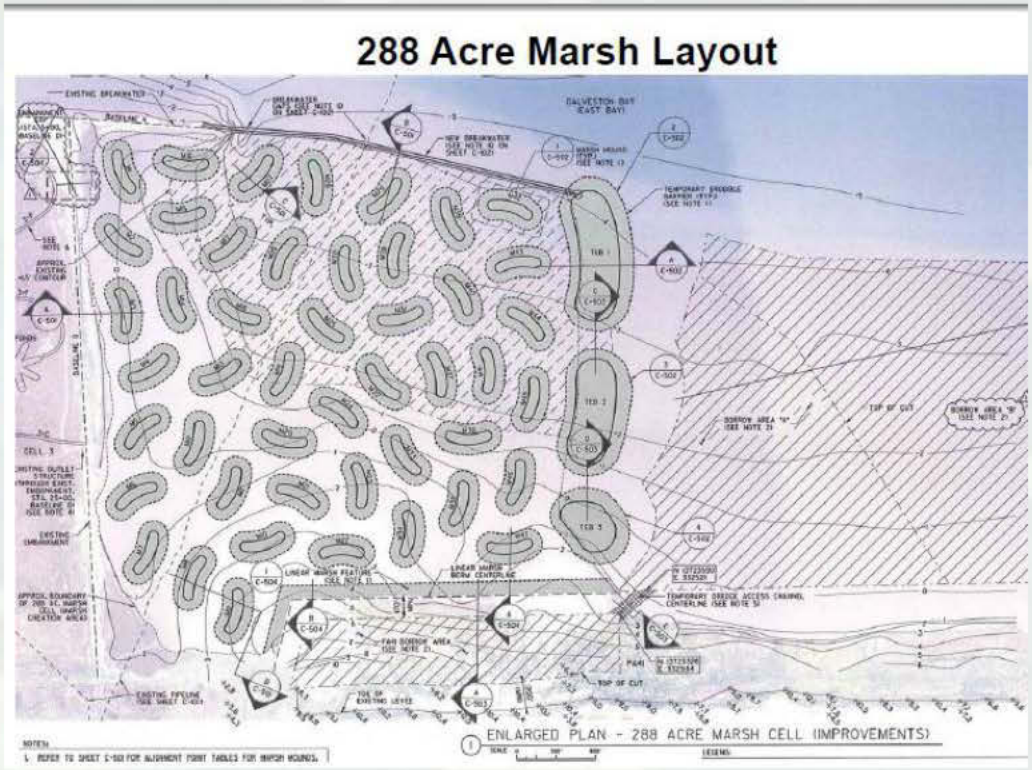
Houston Ship Channel—Lower Galveston Bay

Bolivar Marsh—
Channelization and
Marsh Creation (ongoing)



Houston Ship Channel—Lower Galveston Bay

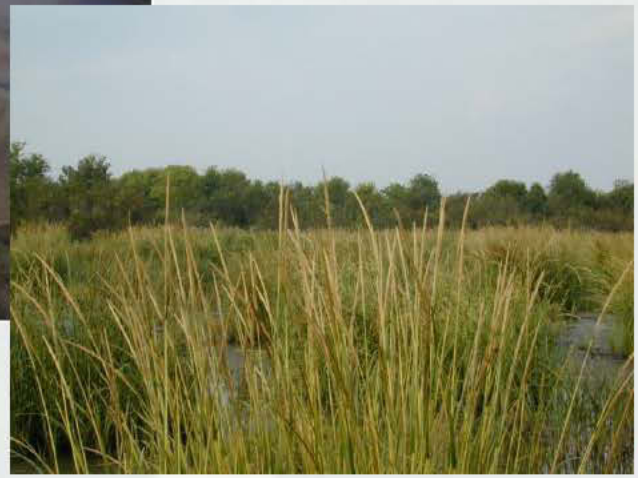
Bolivar Marsh—Marsh Creation (ongoing)



Neches River Channel (Sabine-Neches Waterway) Bessie Heights Marsh

Marsh Creation

Channels form shortly after pumping of dredged material into open water area

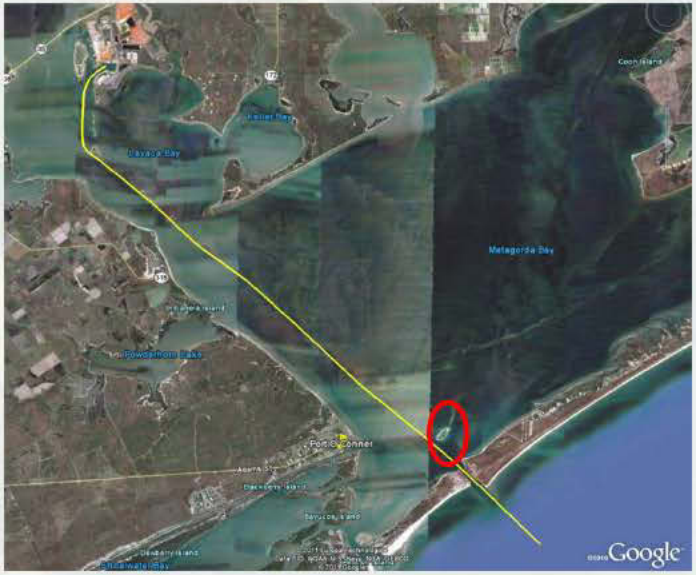


Established 28 acres of marsh one year later

Texas City Channel

Construction of containment levees for Beneficial Use Site

Matagorda Ship Channel--Sundown Island



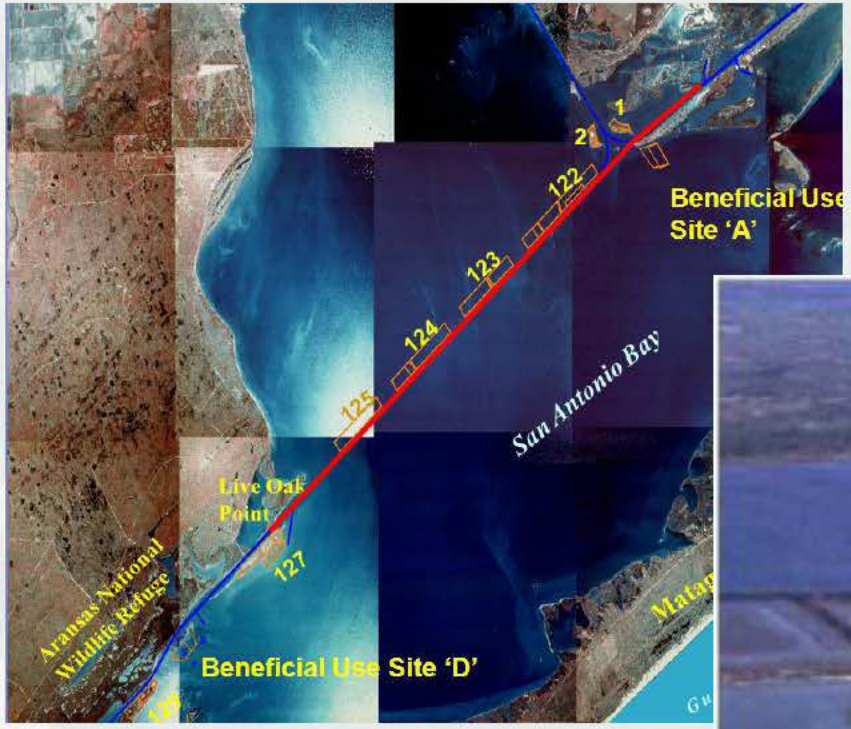
Nourishment along eroded areas

Chocolate Bayou

Construction of
Beneficial Use Sites

GIWW-Aransas National Wildlife Reserve

Beneficial Use Projects



Create new cells at
BUS A, BUS B, & BUS D

Gulf Intracoastal Waterway

Beneficial Use Projects

Beach Nourishment

Little Beach

Rollover

Channel to Port Mansfield

Beach Nourishment

Brazos Island Harbor
Beach Nourishment

Mouth of the Colorado River

Beach Nourishment

How is SWG trying to increase BU?

- Actively identify projects
- Re-evaluate our DMMPs
- Work with the RSM program
- Bring together Corps and Resource Agencies

2011 Beneficial Use of Dredged Material Workshop—30 August 2011

A workshop to discuss upcoming USACE projects and beneficial use opportunities along the Texas coast

2011 Beneficial Use of Dredged Material Workshop

- Purposes:
  - Bring together State and Local Resource Agencies to inform them of upcoming O&M projects
  - Provide a forum for brainstorming potential BU opportunities
  - Answer questions about procedures necessary to move forward with BU projects

2011 Beneficial Use of Dredged Material Workshop

- Participants
  - About 60 participants from Agencies and Corps

Atkins Global
Chambers Liberty County Navigation District
Chambers County Commissioner
Ducks Unlimited
Galveston Bay Foundation
Matagorda County Navigation District #1
National Oceanic and Atmospheric Administration (NOAA)
Shead Conservation
Shelmark Engineering
Texas Coastal Wildlife Refuge
Texas Parks and Wildlife Department
Texas General Land Office (GLO)
Texas Commission on Environmental Quality (TCEQ)
USACE Galveston
USACE Engineer Research and Development Center (ERDC)
USDA
U.S. Fish and Wildlife Service

2011 Beneficial Use of Dredged Material Workshop

- Presentation Topics
  - Regional Sediment Management
  - Engineering With Nature
  - NEPA Compliance
  - Planning for Beneficial Use
  - FY12-13 Dredging Projects and Notable BU projects
  - Ongoing Dredged Material Management Plans

2011 Beneficial Use of Dredged Material Workshop

- Discussion Topics
  - Brainstorming potential projects
  - Identification of Needs

2011 Beneficial Use of Dredged Material Workshop

- Conclusion
  - Desire for more frequent BUDM meetings
  - Implement better communication between Corps and Resource Agencies
  - Begin identifying potential BU projects with teams
- 2012 Workshop: Tentatively Nov 6, 2012

Questions?

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