Beneficial Use of Dredged Material in the Galveston District

Tricia Campbell, P.E.

Operations Manager

U.S. Army Corps of Engineers

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%



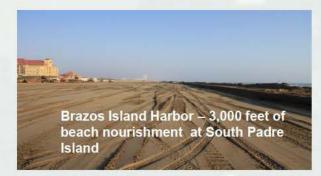
Notable Galveston District Beneficial Use Projects













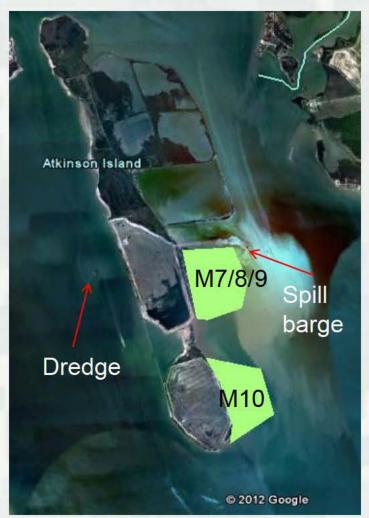








Houston Ship Channel—Upper Galveston Bay



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





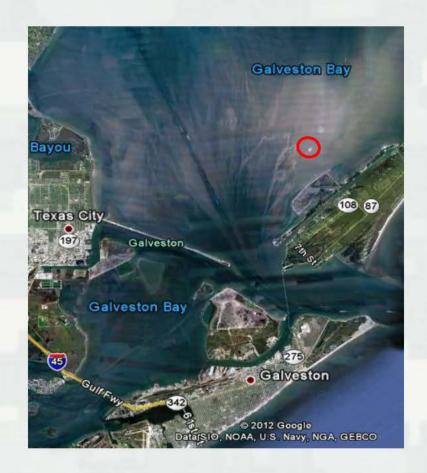
Houston Ship Channel—Upper Galveston Bay

Atkinson Island marsh cell under construction



Houston Ship Channel—Lower Galveston Bay

Evia Island--Bird Island Creation





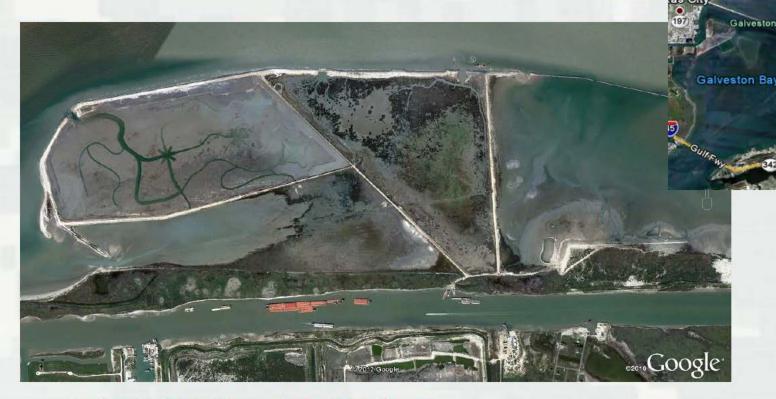




Galveston District - Custodians of the Coast

Houston Ship Channel—Lower Galveston Bay

Bolivar Marsh— Channelization and Marsh Creation (ongoing)





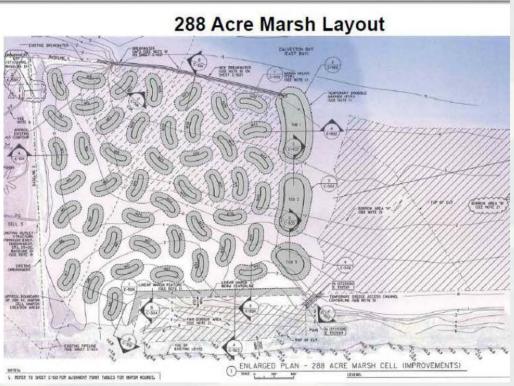
Galveston

Galveston Bay

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



Galveston District - Custodians of the Coast



GIWW-Aransas National Wildlife Reserve Beneficial Use Projects





Gulf Intracoastal Waterway Beneficial Use Projects

Beach Nourishment

Little Beach









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







Galveston District - Custodians of the Coast

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



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



- 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



- Discussion Topics
 - ▶ Brainstorming potential projects
 - ▶ Identification of Needs



- 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?

Tricia Campbell, P.E.

Operations Manager

U.S. Army Corps of Engineers

Galveston District

409-766-3153

tricia.c.campbell@usace.army.mil

Galveston District - Custodians of the Coast



