Beneficial Use of Dredged Material in the Galveston District

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Galveston District
## Galveston District Beneficial Use Statistics

<table>
<thead>
<tr>
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<th>FY 10</th>
<th>FY 12</th>
<th>FY 13</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Amount Dredged</strong></td>
<td>24,500,000</td>
<td>20,000,000</td>
<td>20,500,000</td>
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<tr>
<td><strong>Total Amount Used for BU</strong></td>
<td>4,000,000</td>
<td>3,200,000</td>
<td>4,300,000</td>
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<tr>
<td><strong>Percent Beneficial Use</strong></td>
<td>~16%</td>
<td>~16%</td>
<td>~20%</td>
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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 Wildlife 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**

*Galveston District – Custodians of the Coast*
Houston Ship Channel—Upper Galveston Bay

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

Galveston District—Custodians of the Coast
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)
Houston Ship Channel—Lower Galveston Bay

Bolivar Marsh—Marsh Creation (ongoing)

Galveston District—Custodians of the Coast
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

Galveston District – Custodians of the Coast
Texas City Channel

Construction of containment levees for Beneficial Use Site

Galveston District – Custodians of the Coast
Matagorda Ship Channel--Sundown Island

Nourishment along eroded areas

Galveston District – Custodians of the Coast
Chocolate Bayou

Construction of Beneficial Use Sites

Galveston District – Custodians of the Coast
GIWW-Aransas National Wildlife Reserve
Beneficial Use Projects

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

Galveston District – Custodians of the Coast
Gulf Intracoastal Waterway
Beneficial Use Projects

Beach Nourishment

Little Beach
Rollover
Channel to Port Mansfield
Beach Nourishment

Galveston District – Custodians of the Coast
Brazos Island Harbor
Beach Nourishment

Galveston District – Custodians of the Coast

BUILDING STRONG®
Mouth of the Colorado River
Beach Nourishment

Galveston District – Custodians of the Coast
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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Galveston District – Custodians of the Coast