Engineering With Nature Proving Ground SWG Status Report

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Most Significant Contributions Beneficial Use







Most Significant Contributions Notable Galveston District BU Projects



Houston Navigation Channel – marsh restoration at Atkinson Island______







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







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







Current Projects

 Marsh Restoration in Pierce Marsh on West Bay in the Galveston Bay Estuary.



Challenges

- trying to increase BU?
- Actively identify projects
- Re-evaluate our DMMPs
- Work with the RSM program
- Bring together Corps and Resource Agencies
- Working closely with our Non-Federal Sponsors





1. Restoration of Grennel Slough, San Jacinto River





1.Restoration of Submerged Aquatic Habitat, Galveston Bay.









• Working with GLO and TxDOT using dredged material from the GIWW for ecosystem restoration. Bird island at Rollover Pass, Pierce Marsh, and Dressing Point Island. We will be utilizing the CAP Sections 204 and 1135.







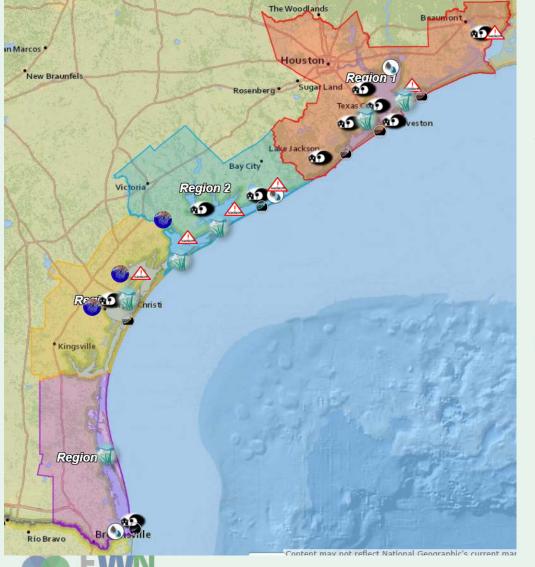


- Native Plant Community Development on Dredge Material Placement Areas
 - Guidance will be developed highlighting the use of native plant communities as vegetative treatments providing effective, low cost solutions, to stabilize DMPAs/CDFs while providing engineering and environmental benefits.
 - The guidance developed through this research will identify and document the use of native plant communities to provide sustainable solutions for management of DMPAs/CDFs, as well as maximize the ecological and engineering benefits attainable through strategic planning, placement, management and eventual transition following closures.





Future Opportunities





Economic damage from coastal storm surge



Inland shoreline erosion



Gulf shoreline erosion



Loss of Critical Habitats (migratory bird habitat, critical T&E habitat, shellfish habitat)



Loss of Natural Delta Processes



Water Quality Issues



Future Opportunities

• Partnering with Texas A&M for Dune Establishment





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