

Living Shorelines Case Study

Lee Anne Wilde Living Shorelines Consultant The mission of Galveston Bay Foundation is to preserve and enhancing Galveston Bay as a healthy and productive place for generations to come.

We envision a future Galveston Bay that is brimming with vitality, connected to people, and contributing to the community in every possible way.



Galveston Bay Foundation Program Areas

4

Education

Restoration

Water Protection

Conservation

Advocacy



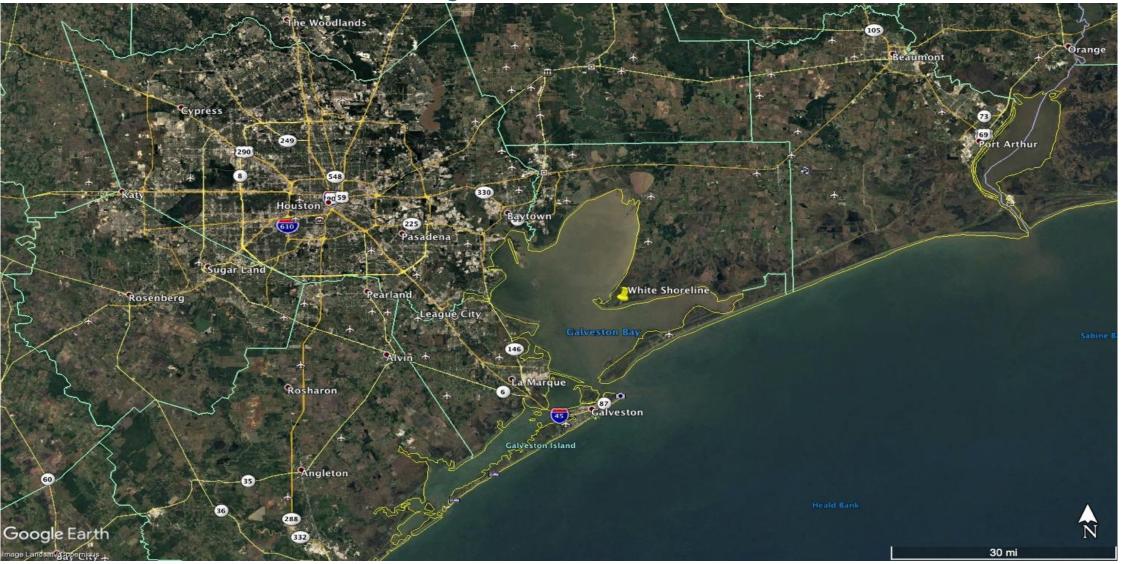


Overview

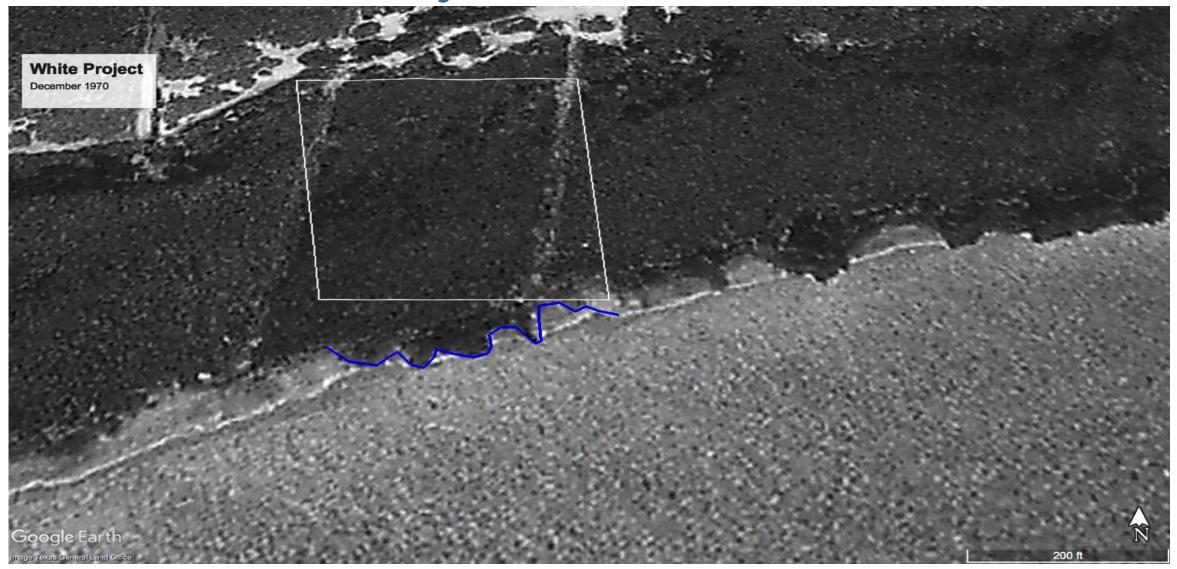




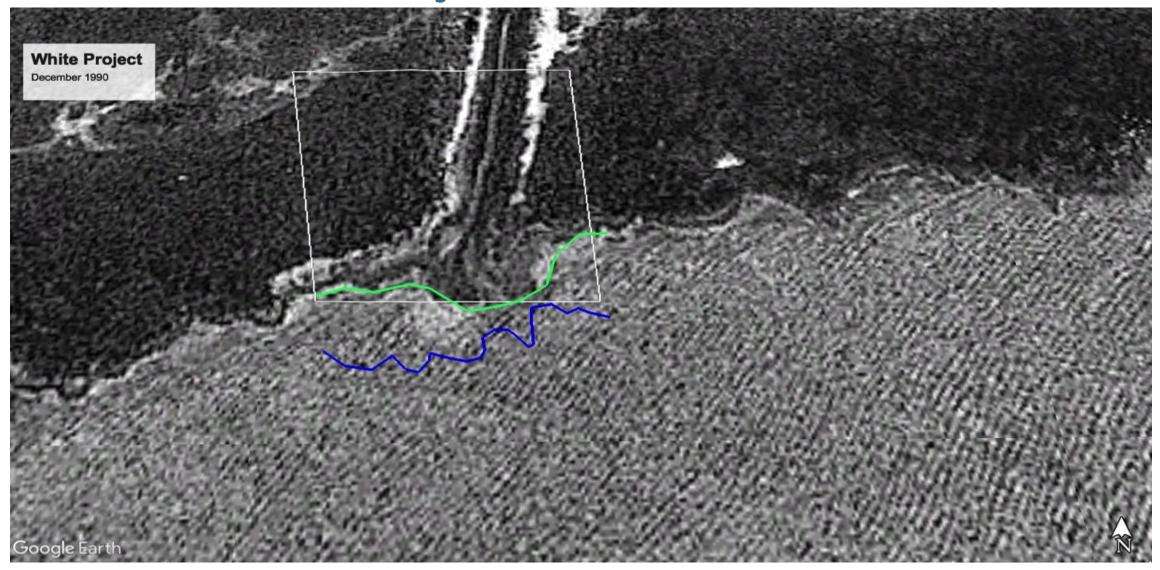
Project Location



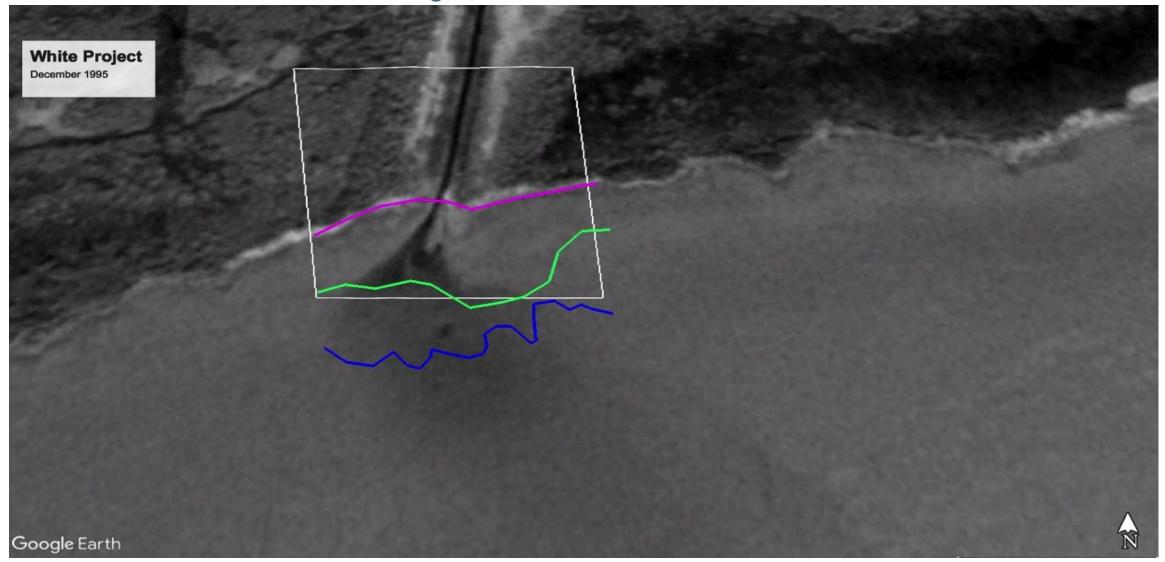








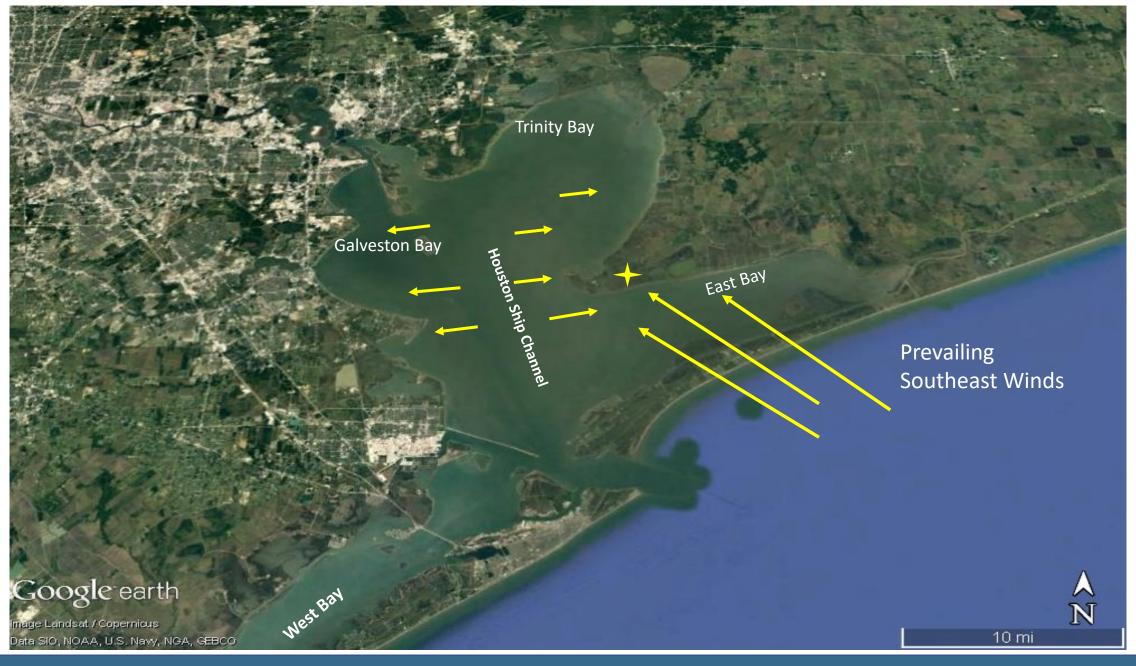






























Why a Living Shoreline?

- Helter

1





Unique Site Features





Design Challenges

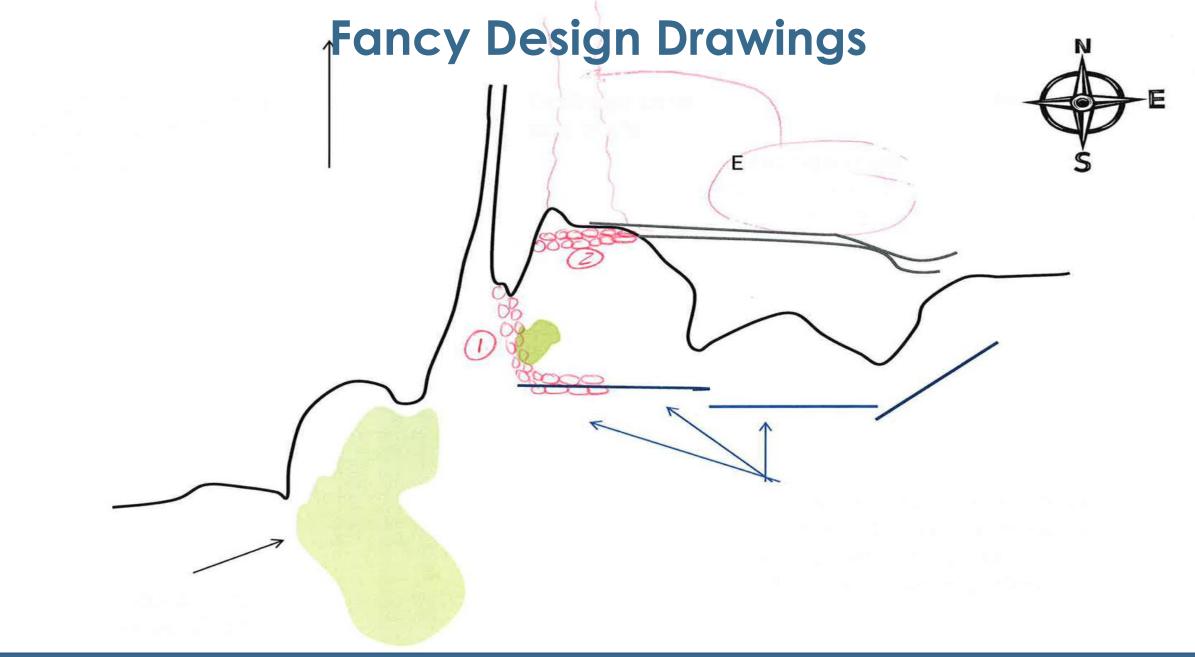




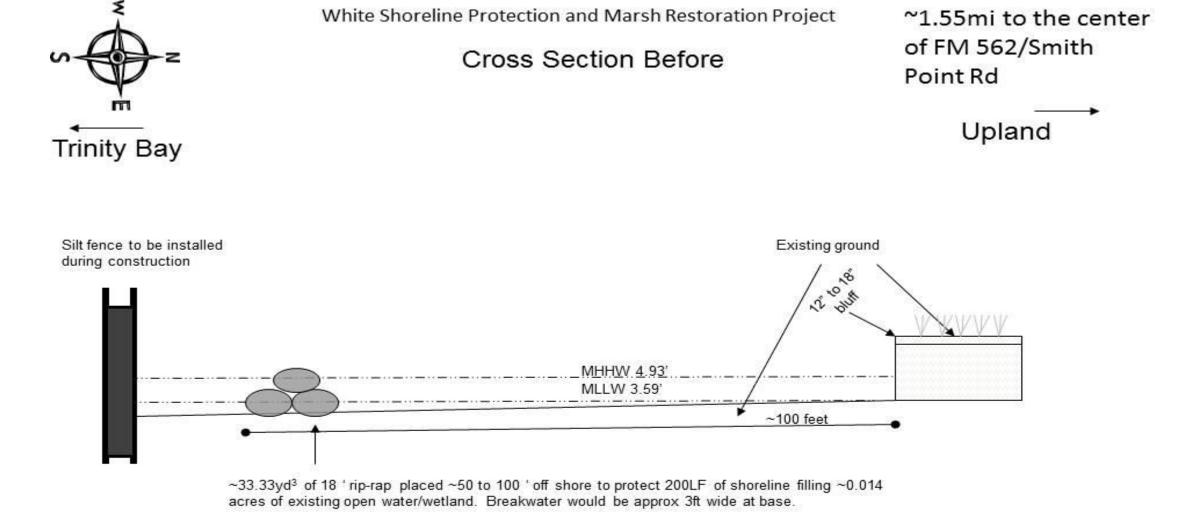
Design Solutions







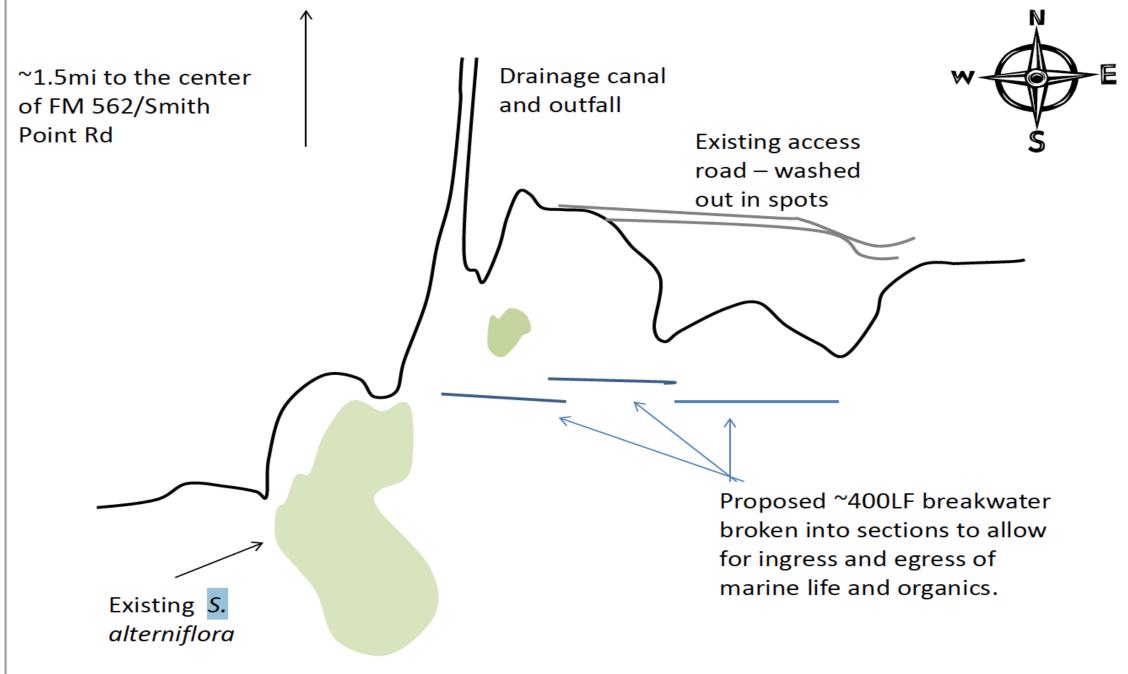




Not to scale

Breakwater calculation: 200LF x 3ft = 6000ft² 600ft sq x 1.5ft high = 900cubic feet = 33.33yd³ 600ft² = 0.014 acres Materials were over-estimated to account for significant settling. If substrate permits, less material will be used.

> Prepared by: Lee Anne Wilde* Galveston Bay Foundation 17330 Highway 3 * Webster, TX 77598 281-332-3381 x205 (o) * Iwilde@galvbay.org * 281-332-3153 (f)



Plan View Post-shoreline Modification

East Bay

Improvement





Improvement

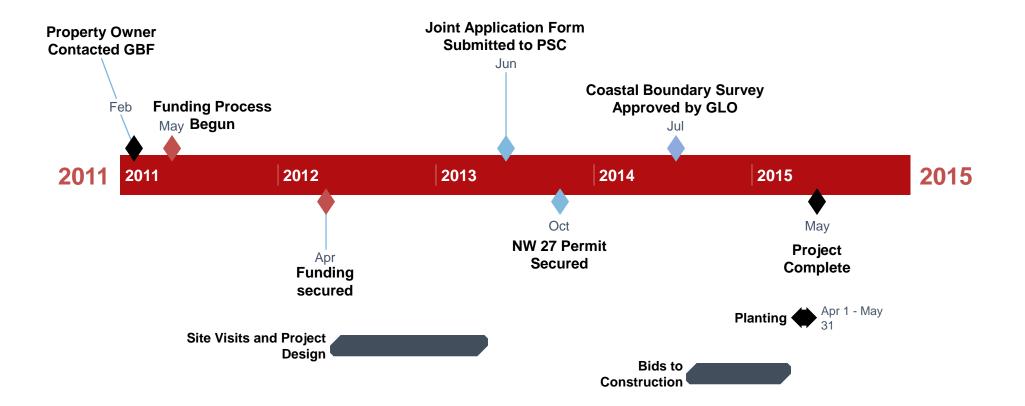






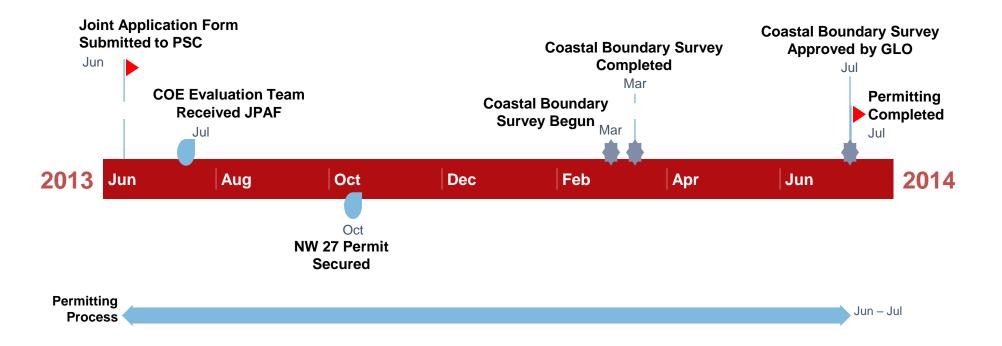


Project Timeline



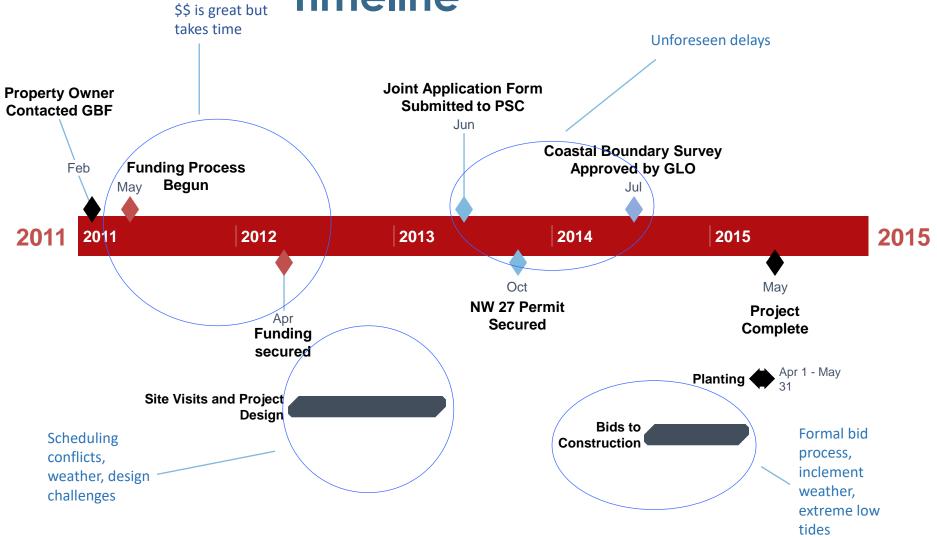


White PermittingTimeline



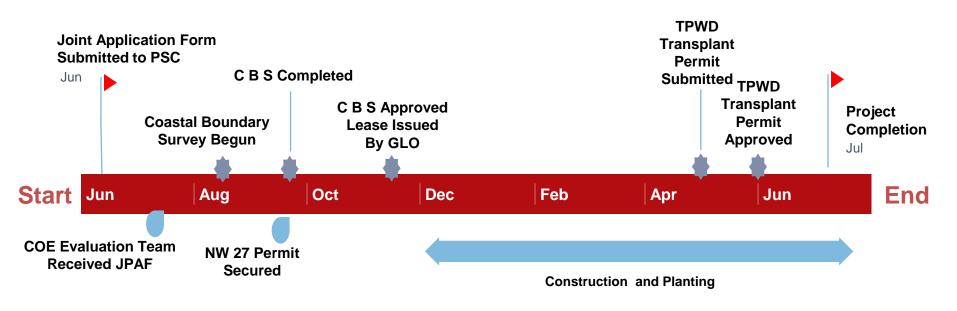


White Project Timeline



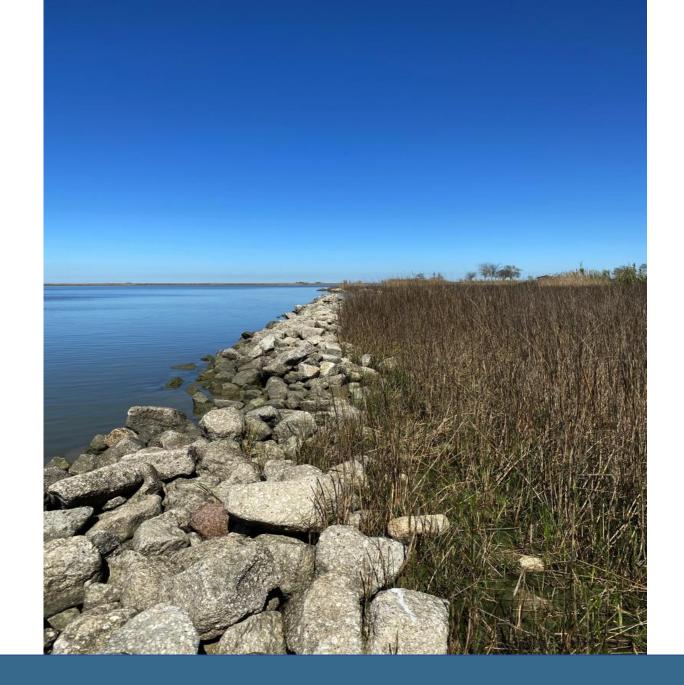


Potential Timeline



Jun – Jul





Gotchas

Time project based on construction method

- By land: fall/winter when tides are blown out
- By sea: spring/summer when water levels are high to float barges

Make time for the project

- The quicker the project goes, the less likely delays will crop up
- At best, the project will take months.



Utilize Local/Regional Resources

- Texas Parks and Wildlife
 US Fish and Wildlife
 NRCS
 Permit Services Center
 Local NGO's
 - Galveston Bay Foundation
 - Coastal Bend Bays and Estuaries
 - The Nature Conservancy

Go to the Pros

- Environmental Design Firms
- Contractors with Living
 Shoreline Experience

Advice for Beginners



Get Involved With Galveston Bay Foundation

- Become a Member: Galveston Bay Foundation is a membership-based organization. Visit galvbay.org to become a member today!
- Join an Event: Galveston Bay Foundation has an event for everyone. Many would not happen without the help of our volunteers!
- **Report Pollution:** Pollution reports are automatically sent to the proper authorities via our mobile Galveston Bay Action Network app. Download the free app on Apple or Google Play stores or visit galvbay.org/GBAN.

