



GALVESTON  
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*Where the Texas Coast Begins.*

# **Galveston Seawall Beach Building Project**

Kelly de Schaun, Executive Director  
Galveston Park Board of Trustees

With Appreciation to:

*Chris Frabotta, Tricia Campbell, Brandon Smolinsky, Lisa Finn, Mayor Yarborough,  
Brian Maxwell, Brandon Cook, John Lee, Sheryl Rozier and the Trustees of the Park  
Board*



# Galveston Park Board of Trustees

- Created in 1962 by the Texas Legislature, one of a kind in the State of Texas
- All funding “restricted” in use as per State legislation
- Consists of 9 Board Members & Enlists Volunteer Advisory Committees

Beach Maintenance Advisory Committee

# Beaches are Good for Business

## 2008 Angelou Economics reported:

*“...From a fiscal perspective, beach restoration and re-nourishment in Galveston is ultimately a revenue generating activity. Increased economic activity associated with the availability of beaches within Galveston produces substantial gains in overall tourism, benefiting companies, residents, and the city alike.”*

- Every \$1 of public funds dedicated towards beach restoration and re-nourishment in Galveston produces over \$5.20 in local tax revenues.

## 2014–2015 Park Board Budget:

- \$3.459 million generated in beach user fees
- \$9.92 million generated in Hotel Occupancy Taxes for Marketing, Beach Patrol and Beach Cleaning

Despite this bright line between City of Galveston economy and the Island beaches, nourishment is irregular.

### Sand Hauling/Nourishment Costs for Seawall Beaches

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	Total Pre Ike	2009 IKE Nourishment
<b>Sand Hauling (internal)</b>	67,293	231,522	40,764	27,209	226,925	37,251	3,227	110,687	129,492	76,077	950,447	<b>9,397,622</b>
<b>Grant</b>								194,683			194,683	
<b>Total</b>											<b>1,145,130</b>	<b>9,397,622</b>



# Sand

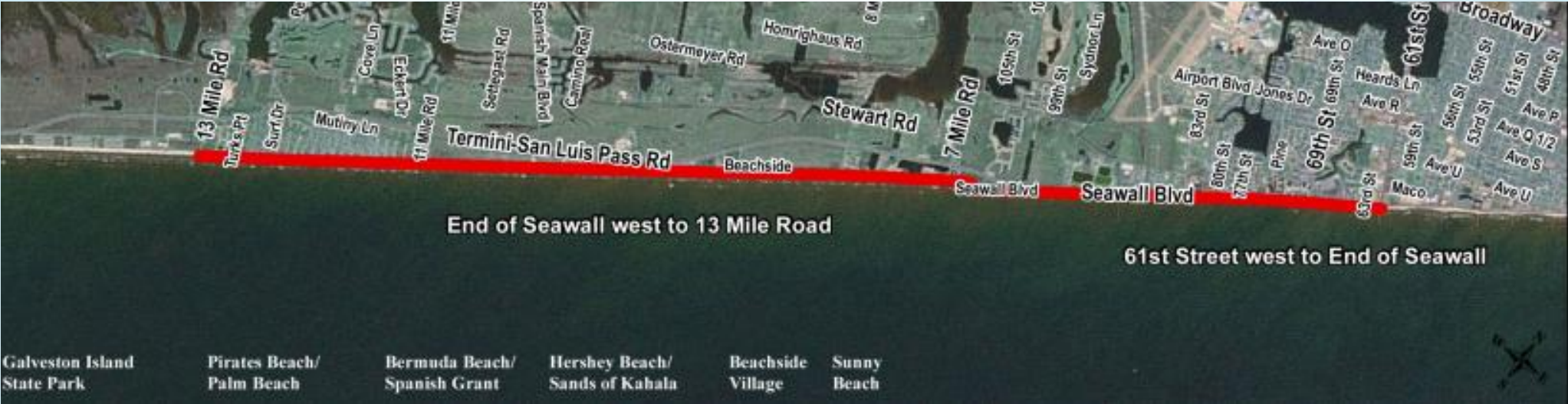
There are several things we know about Galveston sand...

*It is:*

- Eroding from a majority of Galveston's beaches.
- In very short supply in the local environment.
- Very expensive as demand increases, \$25 to \$45 per yard.
- The need for additional sand will be ongoing to maintain beach width.

# City of Galveston Erosion Response Plan

## Areas of Priority for Beach Nourishment



**Department of Planning and Community Development**  
 823 Rosenberg, Room 401  
 Galveston, Texas 77550  
 (409) 797-3660

**City of Galveston**  
**Dune Restoration & Beach Nourishment**  
**Priority Areas - Erosion Response Plan**



Map Last Updated: 1/15/2012

This product is for informational purposes and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. It does not represent an on-the-ground survey and represents only the approximate relative location of property boundaries. The data presented on these pages is not legally binding on the City of Galveston or any of its departments. These maps and the associated data are representations ONLY and may contain errors in the databases. The information presented on this map is for informational purposes only and should not be construed to be legally binding.

# Getting Serious about a Plan of Action

## Research and Development

- City of Galveston & US ACE sponsored Sand Management Plan
- City of Galveston, Jamaica Beach & Park Board sponsored surveys
- Park Board & Texas A&M managed Beach Portal

## Planning

- Sand Dollars from IDC/ 4B Sales Tax & BUF
- Five Year Plan of Action for Sand Management Plan

## Partnerships and Advocacy

- Existing agreement between Texas GLO and US ACE
- CEPRA grants from Texas GLO to Galveston Park Board
- Good working relation between City and Park Board
- Annual visits to US ACE Headquarters in D.C.
- Galveston based Beach Erosion Task Force

## Construction

## Monitoring



# And the Stars Aligned for Galveston

“Timing is Everything”



**FOR INFORMATIONAL  
PURPOSES ONLY**

61<sup>st</sup> street

Discharge Area #1

**DRAFT PLAN**

Discharge Area #2

Overall Length: Approx. 16,100 LF  
Includes Three (3) Placement Areas  
Approximately 4,400LF each

Discharge Area #3

Seawall  
End

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Google earth

# Challenges & Blessings Along the Way

## Challenges

- Timing of project coincided with summer tourist season
- Concerned stakeholders in project area
- Short turn around period to fundraise
- Bidding process and competitive nature of current work assignments along East coast
- Unexpected costs that increased ‘significantly’ project costs
- Sand volume
- Two high tide events right after placement

## Advantages

- Existing Tx GLO/ US ACE permit
- *Amazing* US ACE project and team members
- Well connected local entity to manage expectations and communications
- Existing source of funding and agility of Park Board and City staffers
- Conscientious dredge company with (also) amazing project manager
- (Mostly) good weather

# The Final Tally

## New Beach Built:

- 4,900 Feet of beach constructed, spanning from 61<sup>st</sup> to 75<sup>th</sup> street along Seawall Boulevard

## Cubic Yards removed from channel to beach

- Bid item (initial estimate): 725,000 CY, “Before Dredging” quantity 641,000 CY of available material.
- Actual material placed on beach: 629,188 CY.
- Retention: Based on Contractor surveys, approximately 57% of the material placed on the beach remained in the template at the time of surveys (357,000 CY). This retention rate was as expected when planning the project.

## Funding

- \$8,990,000 contributed, with an expected total contract costs : \$7,843,392.80





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