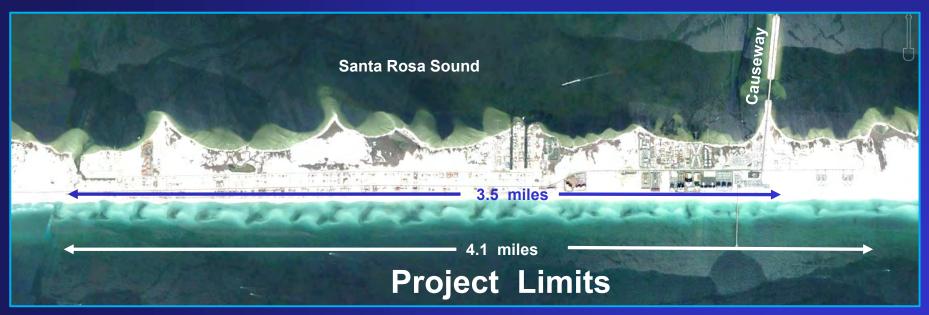
Navarre Beach Lease Holders and Residents Association October 19, 2024

Charles "Tem" Fontaine III, P.E.







Presentation Overview

- Pre-Project Conditions
- Project Status/Expected Schedule
- Construction Expectations
- Dune Overwalks
- Dune Restoration
- West End/National Seashore
- Questions





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Project History - July 18, 2005 - Post Hurricane Dennis













Project History – Initial 2006 Construction







Project Status & Expected Schedule

- December 2024 Contractor Mobilization
- Late December 2024 Commence Dredging
- 30 to 60 day dredging
- January to February Demobilization





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Construction Expectations













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Submerged Pipeline Installation













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Sand Color QA/QC







NBLHRA

Dredging – Wet Sand is Dark







Public Safety – Drivers Cannot See You!

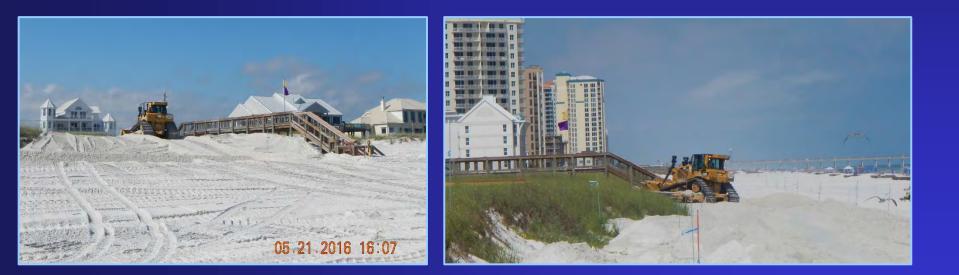






Dune Overwalk

- 1. Within Dune Template Buried in place.
- 2. Above Dune Template Sand pushed under dune Overwalk as well as possible.







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Dune Repair



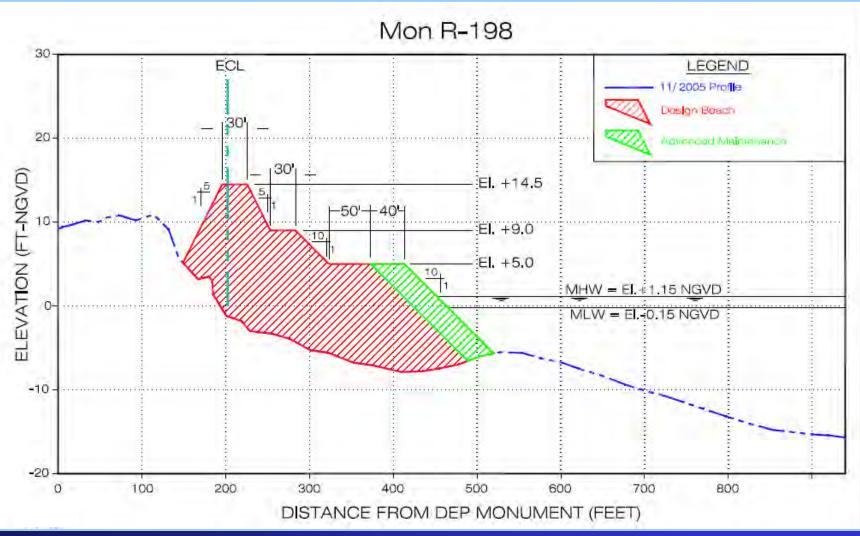






DASTAL TECH

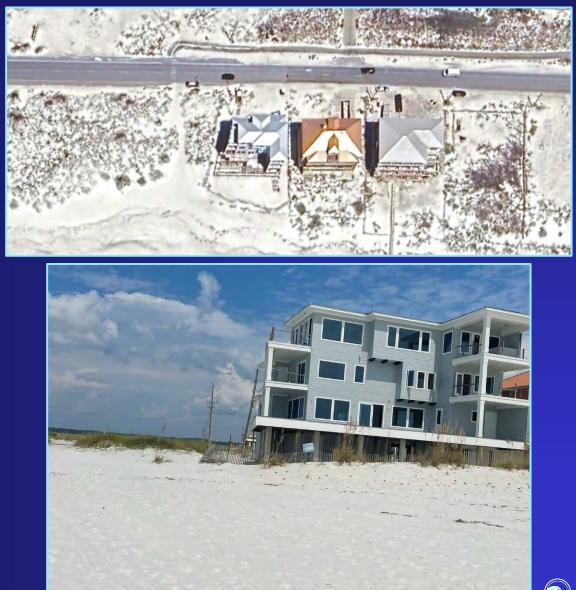
Construction Template





NBLHRA

West End Dune Repair/Overwalk







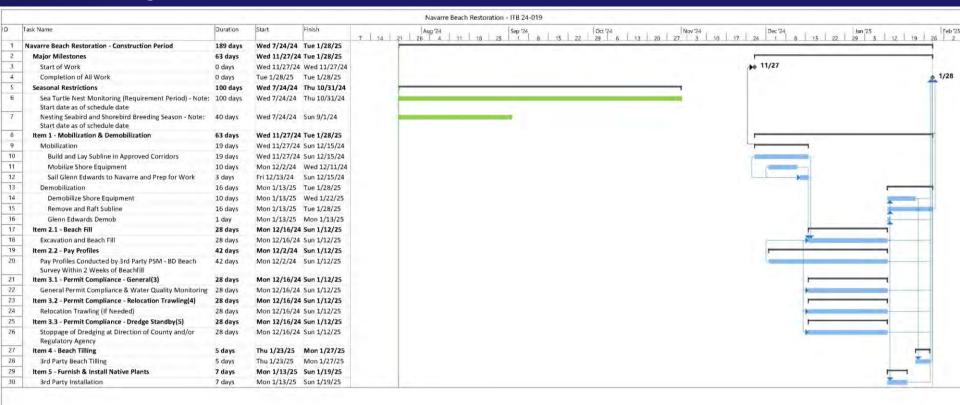
Thank You! QUESTIONS? Tem Fontaine Coastal Technology Corporation

coastaltechcorp.com





Project Status & Expected Schedule



Project ITB 24-019 - Navarre A Date: Wed 7/24/24	Task	-	Summary		inactive Milestone	-	Duration-only	Start-only	t	External Milestone		Manual Progress	\rightarrow	
	Split		Project Summary	1	inactive Summary	1	Manual Summary Rollup	Finish-only	3	Deadline				
	Milestone	\$	Inactive Task		Manual Task	1	Manual Summary	External Tasks	-	Progress	-			









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CBRA Zone

Located within a System Unit of the CBRS and does not meet an exception to the CBRA (see additional information/comments below)

Due to many competing priorities, the Service is unable to provide an opinion on the applicability of the CBRA's exceptions to this action/project at this time. FEMA may elect to proceed with the action/project if it has determined that the action/project is allowable under the CBRA. Please note that any new commitment of Federal funds associated with this action/project or a related future project is subject to the CBRA's consultation requirement.

Additional Information/Comments

Sand placement within FL-98P (an Otherwise Protected Area is not prohibited (only Federal Flood Insurance is) but sand placement within a System Unit -- FL-97, for the intent of structural protection is not consistent with the three purposes of CBRA. The Service finds that dune or berm placements often inhibit natural processes such as overwash events on barrier islands which allows for over-growth of vegetation. Increased vegetation eventually restricts the use of coastal areas by beach nesting birds (least terns, black skimmers, snowy plovers). Sufficient sands remain for nesting sea turtles. Piping plovers prefer the bayside mudflats that form from overwash events. Lacking the needs to any other imperilled species, we find this proposed project as inconsistent with the purposes of the CBRA.



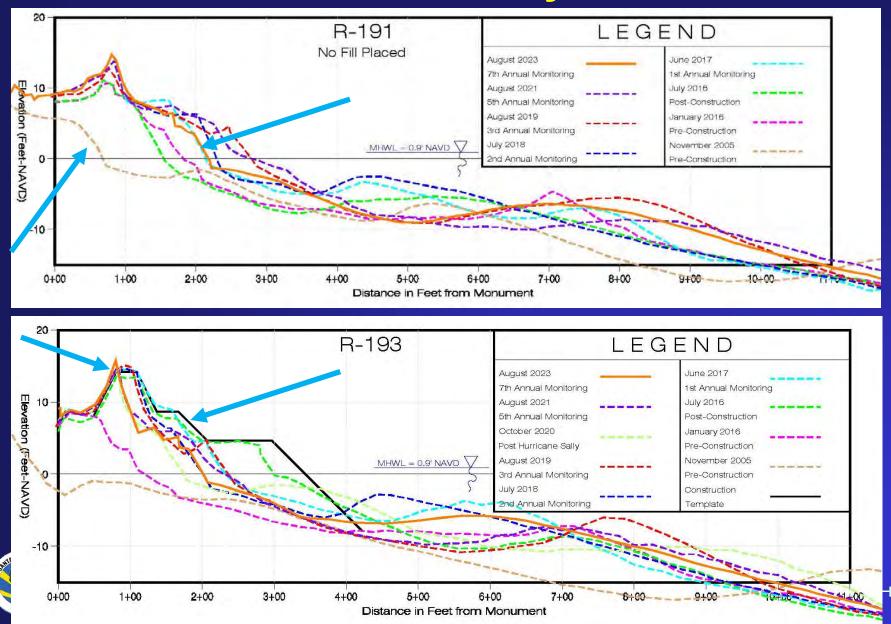


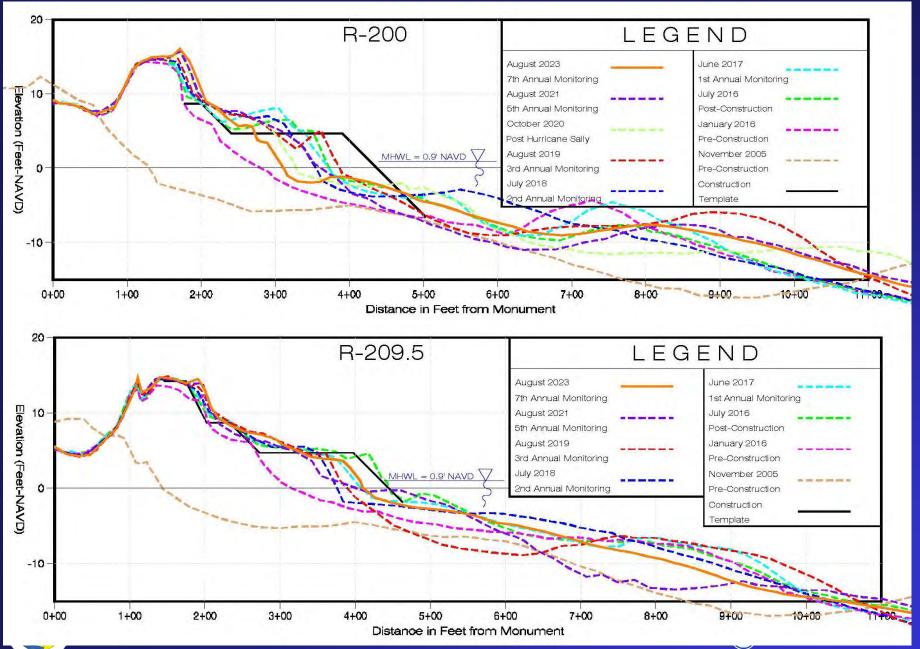
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Long-Shore Transport



West End Survey Data





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Program Status

- 2000 Feasibility Study Initial Project Planning
- 2002 Sand Search Investigation Offshore borrow site with ~14.5 Mcy. (~9.5 Mcy remaining).
- Project status since 2006 maintain "shovel ready".
- FDEP Local Government Funding Request (LGFR)
 - LGFR Requires Public Access
 - LGFR can fund up to 50% Project costs
 - Public Access designed to maximize LGFR Funding
- FEMA "Engineered Beach" Reimburse up to 75% of damages. (Sally was about 250,000 cy).
- County exploring extending project to the west (GINS historically has resisted beach restoration).





Project Status & Expected Schedule

(as presented to BCC)

- Project Permits
 - FDEP Expires 1/7/2029; only need NTP
 - USACE Expires 11/14/2029
- FEMA Supplemental EA expected June 2023 (draft complete. Out to public notice.)
- FEMA Obligate federal funds expected July 2023
- FDEP LGFR Agreement expected May 2023
- Construction Easements expected July 2023
- Prepare Final Design expected June 2023
- Bid Project expected July 2023
- Obtain FDEP NTP expected September 2023
- Construction expected September 2023 start





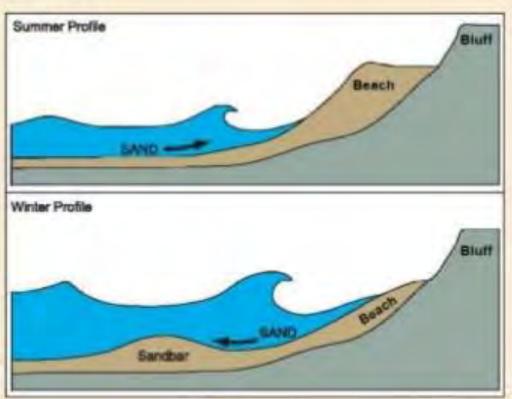
Cross-Shore Transport

LODERAVIM. BRACERO MARRERO, CAMELLY, URR-RP, 1015

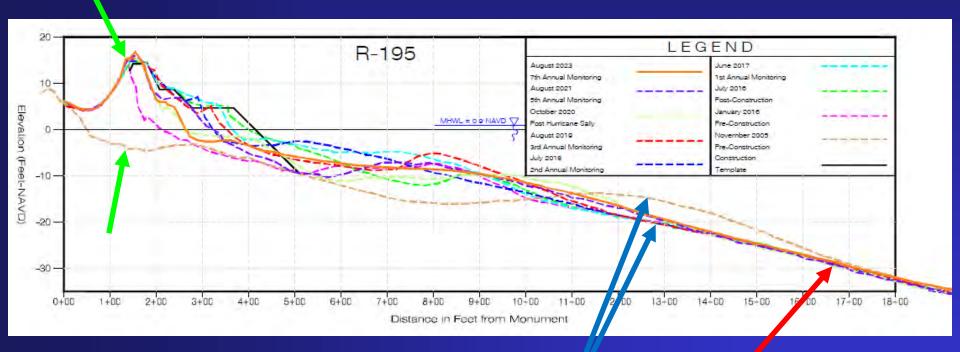
Wave: Beach profile

Light wave activity

Heavy wave activity



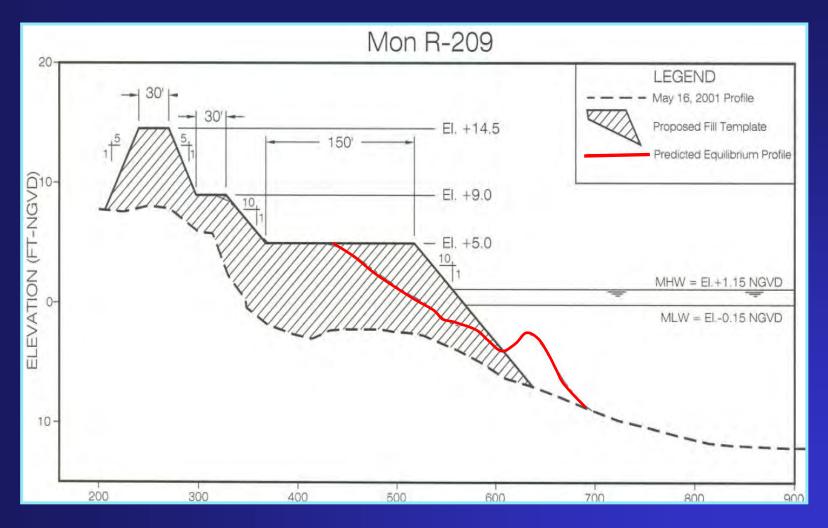
Cross-Shore Transport Depth of Closure







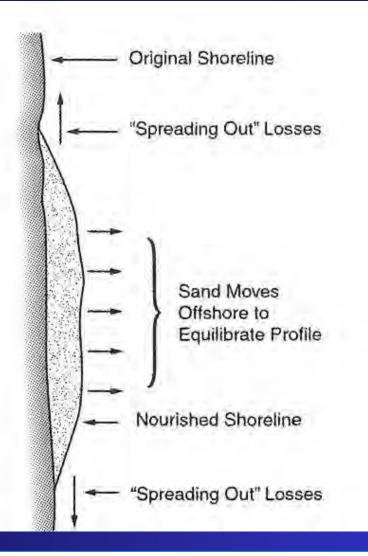
Beach Nourishment - Sediment Transport







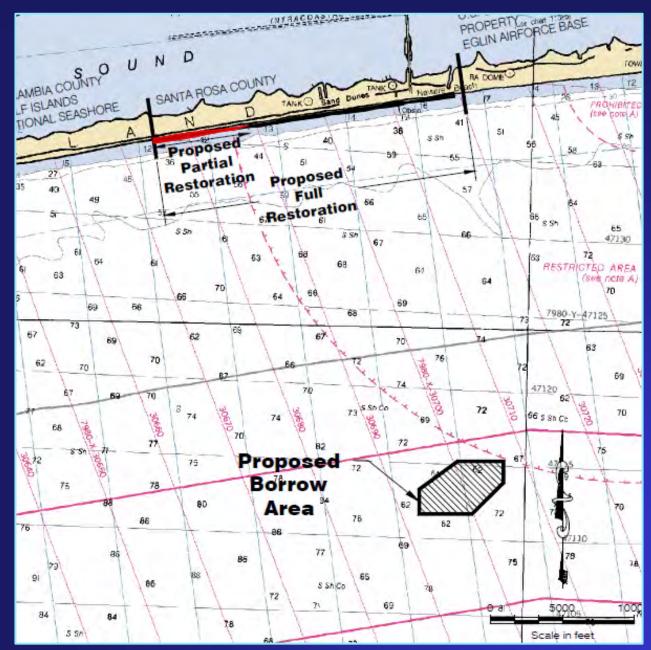
Beach Nourishment - Sediment Transport





From: Coastal Processes with Engineering Applications Robert Dean/Robert Dalrymple





Project History

Borrow Area





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Project History – 2010 Truck Haul

- 11,881 cubic yards placed
- over 1,600 feet of beach
- via 593 truck loads of sand
- mitigate damages by Hurricanes Gustav and Ike
- mostly funded by FEMA





Project History – 2016 Construction







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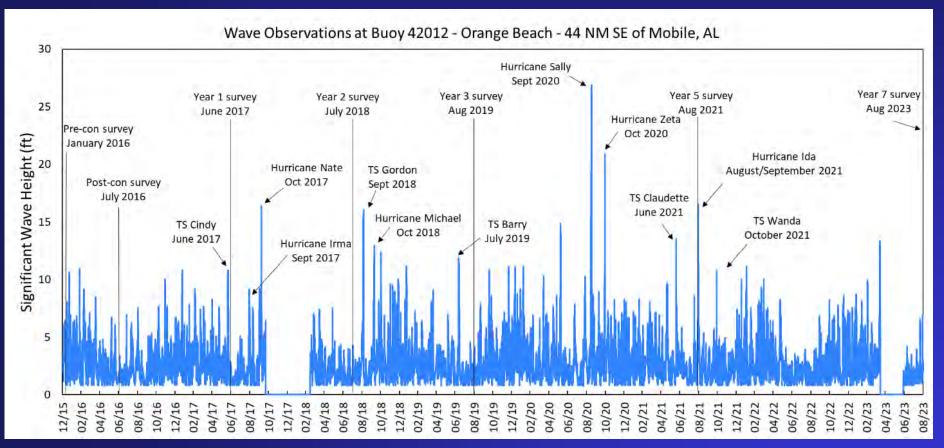
Project History - 2016 Construction







Existing Conditions Wave Climate Since 2016 Project







Project History – Prior Construction Summary

- 2006 Initial Nourishment 2.95 mcy of sand over 4.1 miles
- 2010 Truck Haul 11,881 cy of sand over 1,600 feet
- 2016 Renourishment 1.37 mcy of sand over 4.1 miles

Project Limits R-213.5+500'

Santa Rosa Island O

Project Limits R-192+460' Navarre Beach Fishing Pier



