

Coastal Resources Program

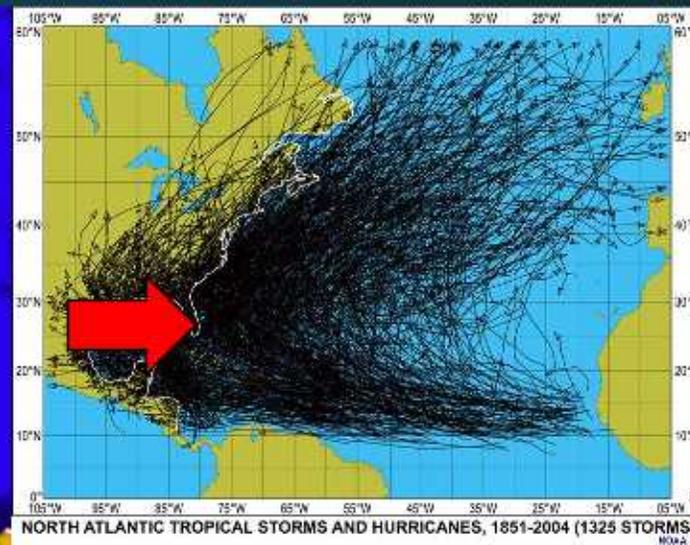
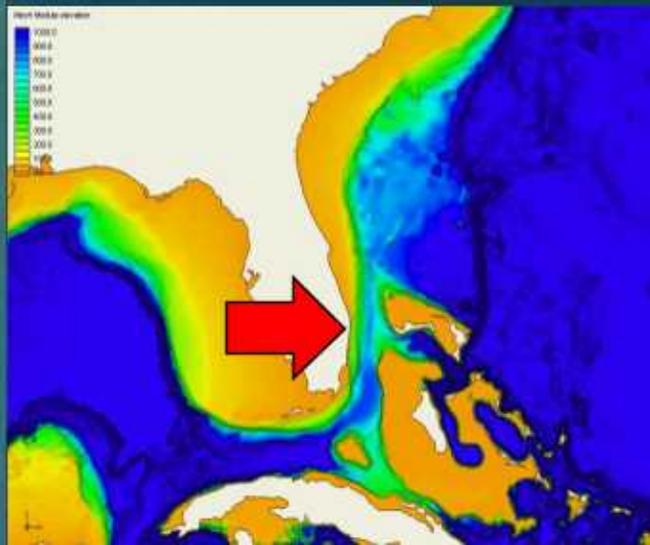


Andy Studt
Palm Beach County Environmental Resources Management



Location, Location, Location

- 47 miles of Atlantic coastline
- 33.6 miles critically eroded (>70%)
- 4 Inlets - Jupiter, Lake Worth, South Lake Worth, Boca Raton
- Extensive nearshore hardbottom resources
- Historically developed interface between land and sea



2022 Coral Cove Park - Post Hurricane Nicole



Environmental Considerations

- Critical Nesting Habitat
- Nearshore Hardbottom
- Offshore Coral Reef
- Native Dune Plants
- Coastal Wrack
- Shorebird Nesting



Before



After

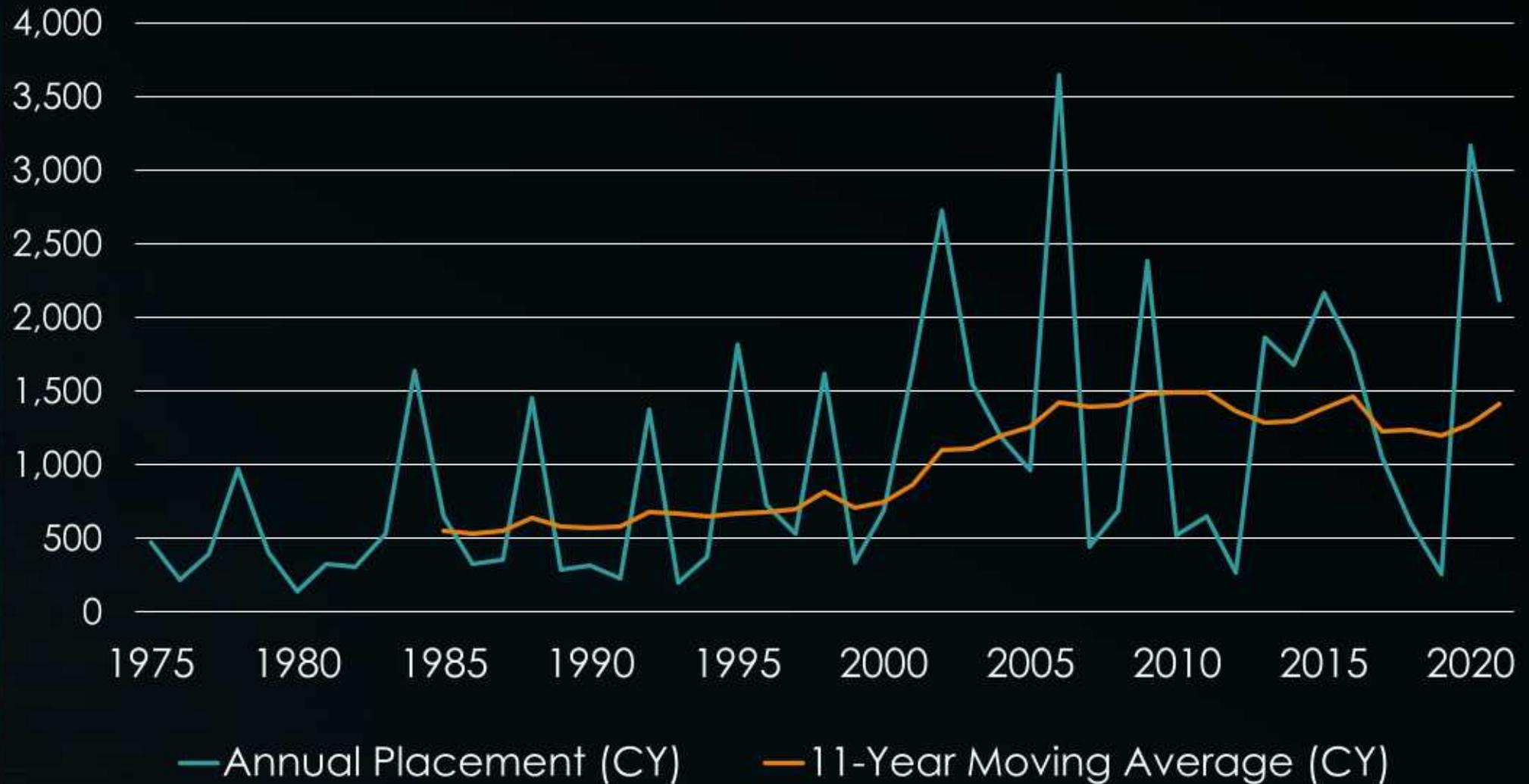


Marine Turtle Nest During Construction



A Program Focused on Long-Term Management

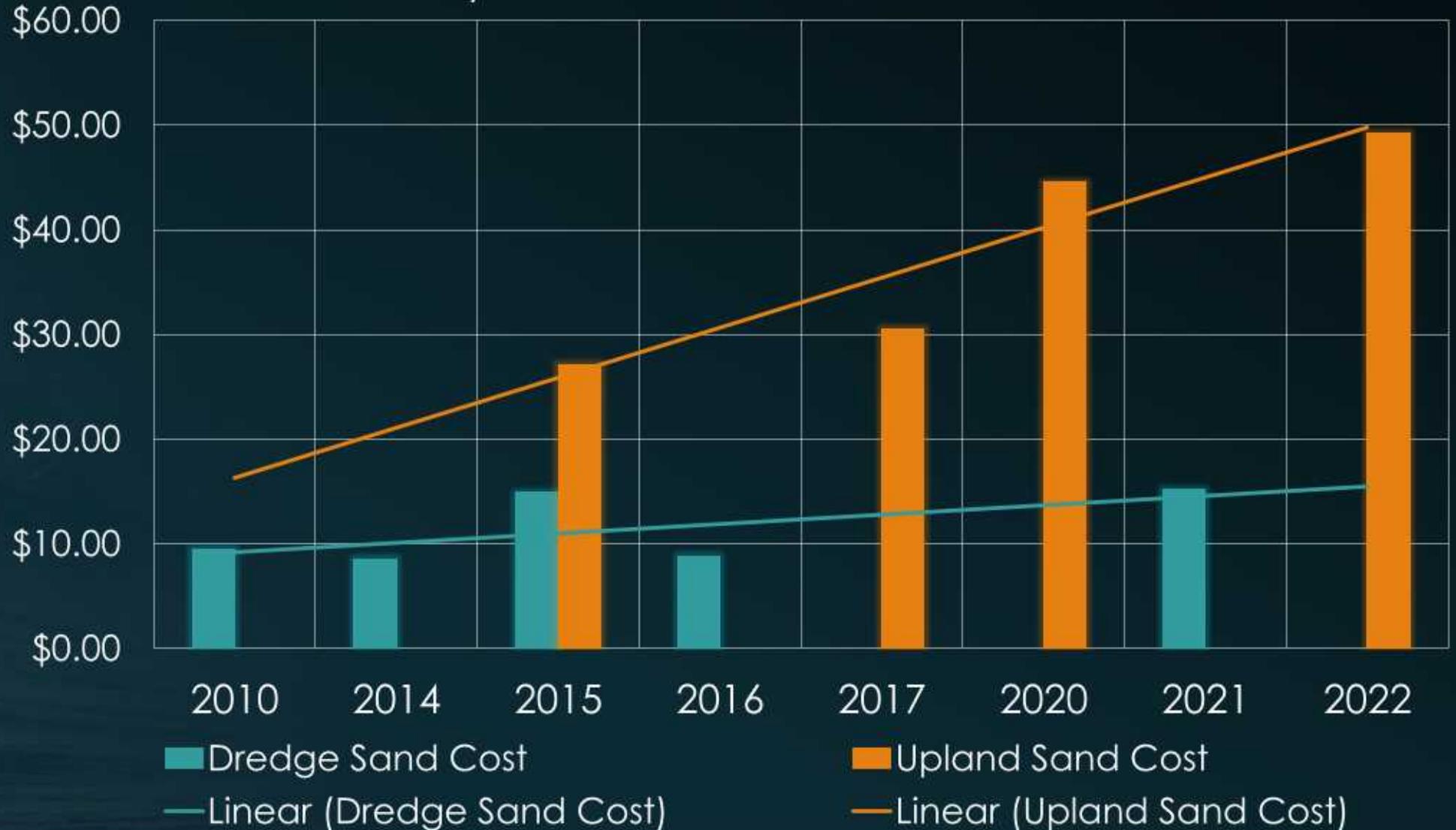
Countywide Beach Placement History





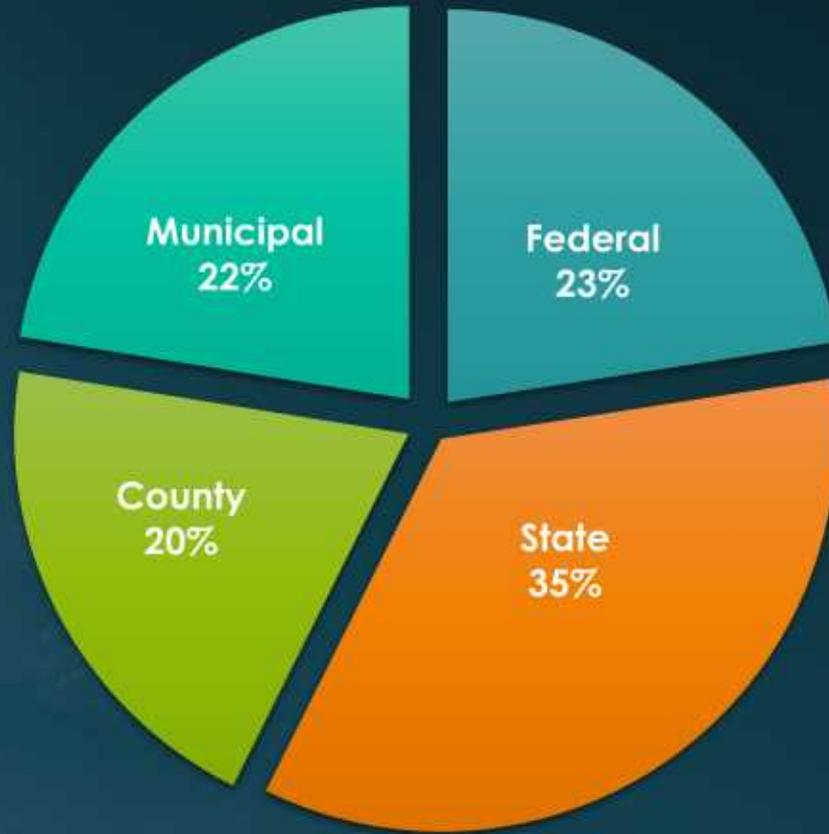
Present and Future Challenges Abound

County Sand Placement Costs 2010-2022





Countywide Beaches Funding



• Funding sources include

- County (TDC)
- State (DEP)
- Federal (USACE, FEMA)
- Local Municipalities



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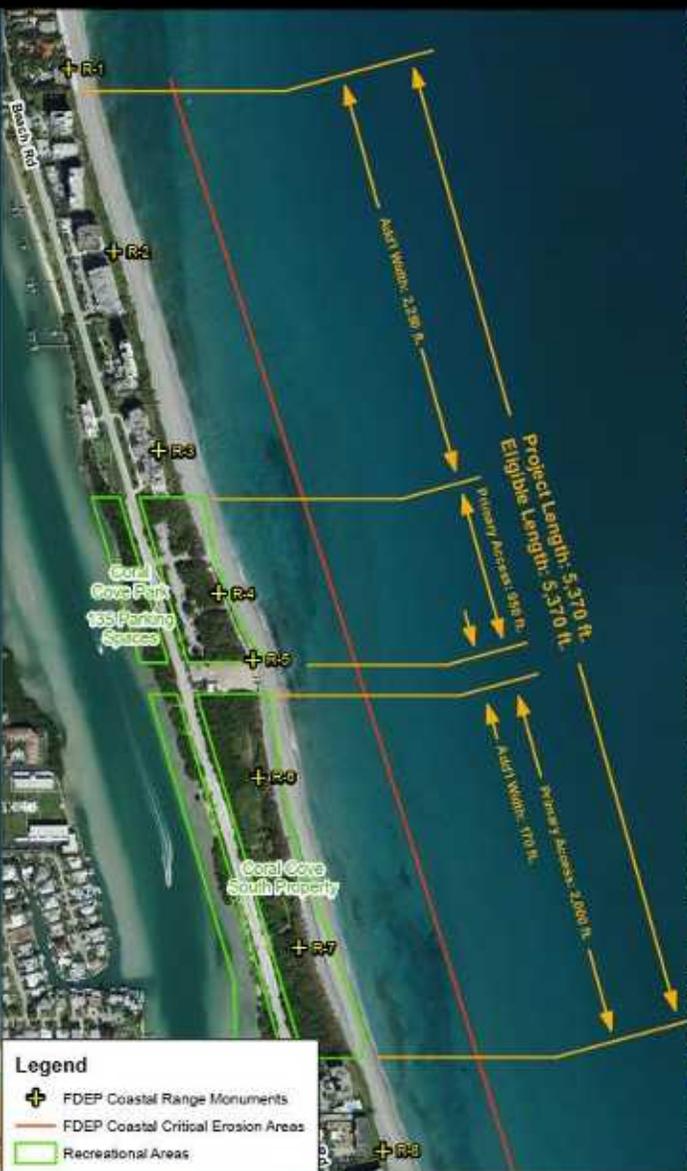
FEMA



Funding vs Public Accessibility



County Municipalities



FDEP Funding Eligibility



Coastal Southern Tequesta



Coastal Management Challenges





Regional Sand Movement



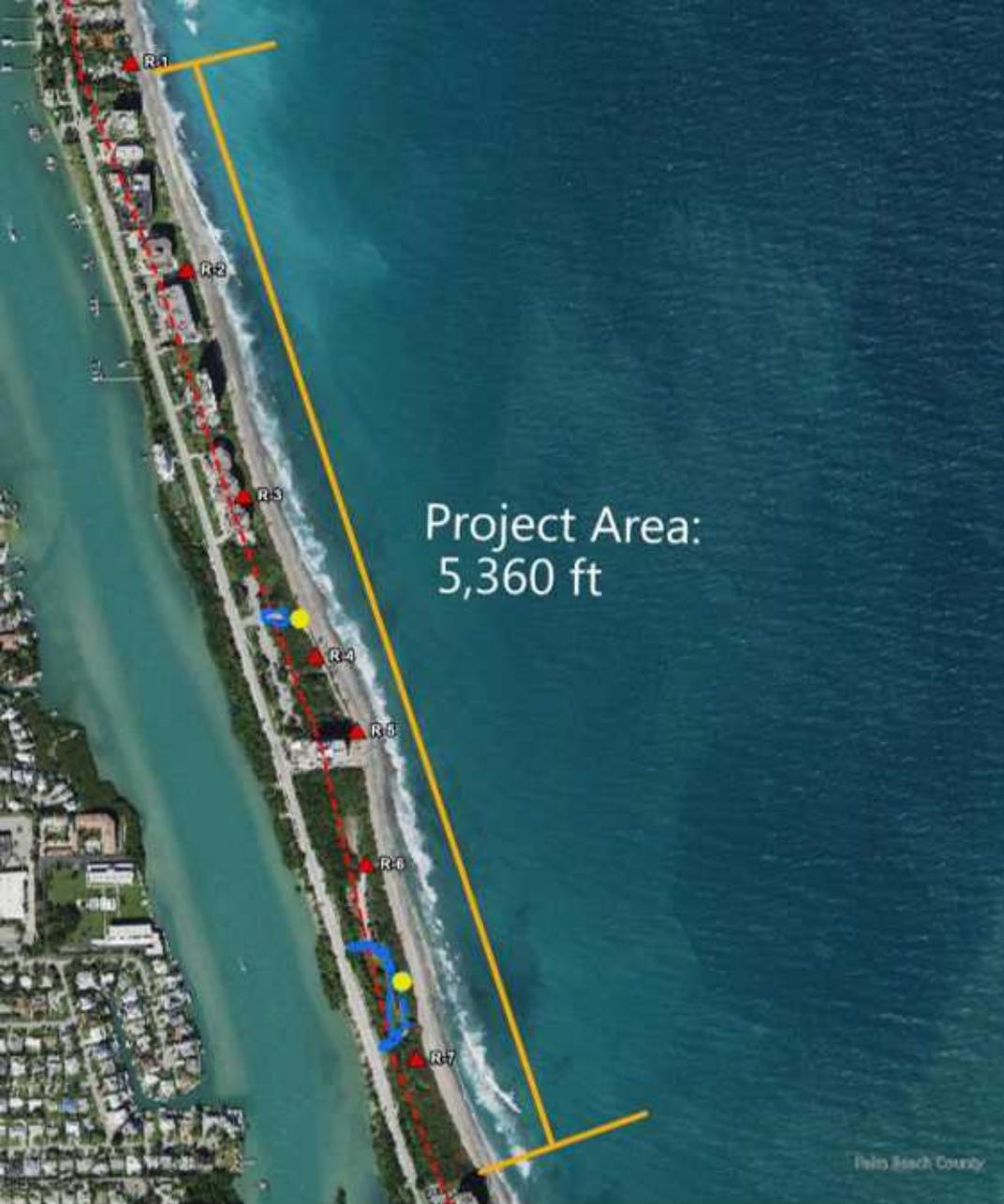


Coral Cove Project History

- 7 Dune Restoration Projects
- 161,000 total cubic yards
 - 1989 – 12,000cy
 - 1994 – 13,000cy
 - 2005 – 12,000cy
 - 2013 – 12,000cy
 - 2014 – 34,000cy
 - 2022 – 42,200cy
 - 2023 – 36,000cy
 - 2024 – 35,190cy
- 2022 Project
 - \$1,933,322.93 total cost
 - ~26,500 native dune plants
 - \$45.81/cubic yard
- 2023 Project
 - \$1,926,144.86
 - \$53.50/cubic yard
- 2024 Project
 - \$2,002,987.94
 - ~41,900 native dune plants
 - \$56.92/cubic yard

2024 Project Overview

- Total Sand Placement: 45,044 tons (35,190 cubic yards)
- Stewart Mine in Ft Pierce
- Construction beginning late February
- Construction completed mid-March
- 2 construction access points
- ~1mi total project length
- Initially 100% County cost-share, request for 50% reimbursement grant



 <p>Palm Beach County Department of Environmental Resources Management 2300 North Jog Road, 4th Floor West Palm Beach, Florida 33411-2741 (561) 233-2400</p>	Coral Cove Project Area			
	1/26/2024	0 37.5 75 150 Feet		



Pre-construction Conditions 11/23-01/24





Post-construction Conditions 5/3/2024



Questions?



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