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Sand Dollar Island

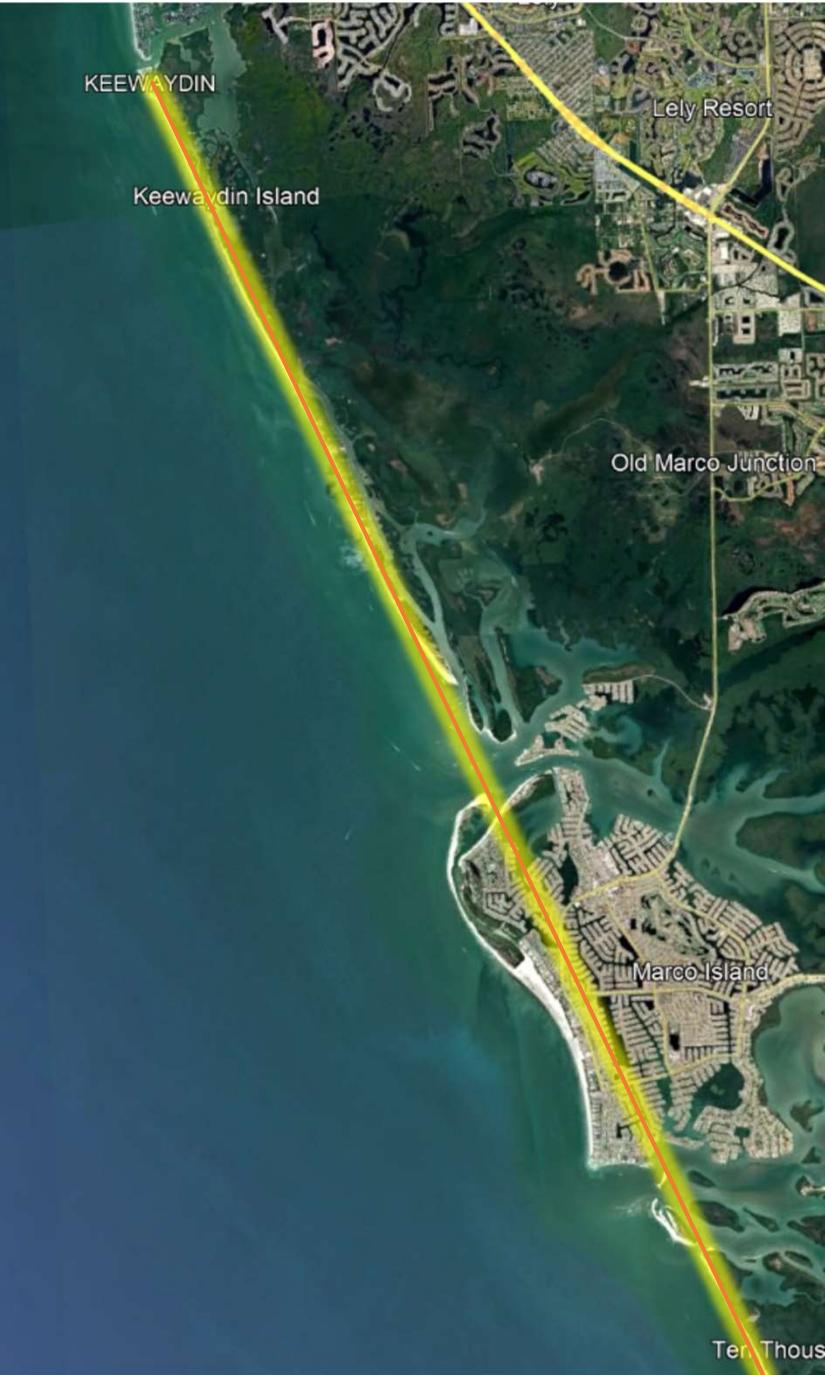
Hideaway Beach

Collier Bay

Tigertail Lagoon

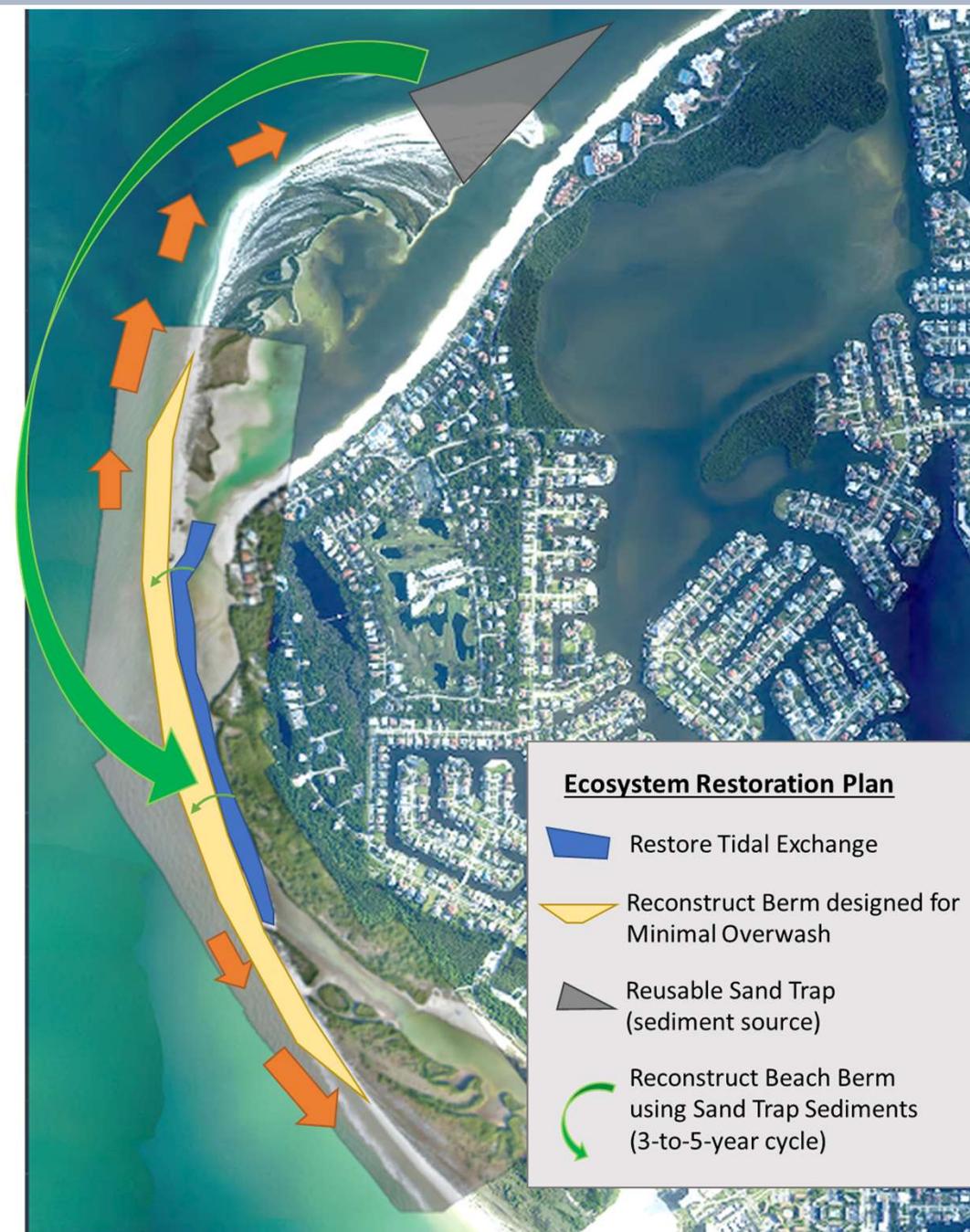
Tigertail Beach Park

Big Marco River



□ Main Elements

- **Natural/ nature-based resiliency system**
 - **Multitier coastal storm risk management**
 - Sand Spit
 - Tidal Lagoon
 - Mangrove shoreline
- **Lagoon Flow Channel**
 - Restore tidal exchange
 - Improve water quality
 - Maintain and promote SAV
 - Inlet closures/ opening
- **Renewable sand source**
 - Sand trap
 - Maintain inlet open
 - Cyclic use of sand
 - Incremental adaptation



Schematic of nature-based restoration elements



2022 conditions



2023 conditions

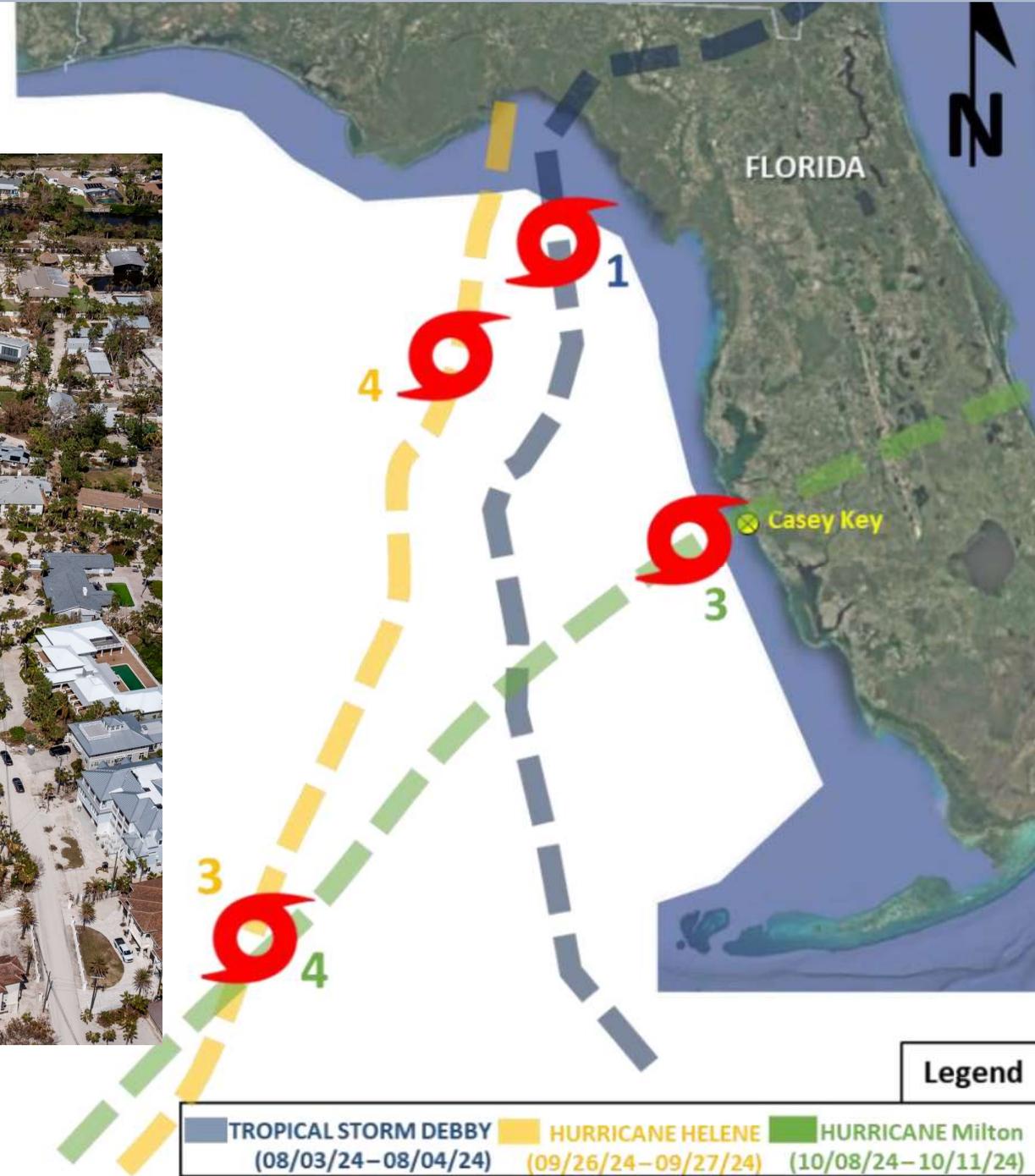
Management Plan (Collier County and City of Marco Island (*Hideaway Tax District))

Monitoring and Maintenance	
<ul style="list-style-type: none"> Sand Dollar Island <ul style="list-style-type: none"> Recycling of sand from northern spit sand trap and lagoon over-wash to gulf-side of Sand Dollar Island (2-year cycle recommended) Emergency repairs post major storms (Event driven) 	County/City*
<ul style="list-style-type: none"> Tigertail Lagoon <ul style="list-style-type: none"> Dredging flow channel if necessary to maintain flow and water quality within the lagoon (monitoring based-annual survey) 	County/City*
<ul style="list-style-type: none"> Hideaway Beach <ul style="list-style-type: none"> Renourishment to design template based on need to maintain resiliency/shore protection (monitoring based-annual survey) 	City*
<ul style="list-style-type: none"> Collier Creek Entrance Channel <ul style="list-style-type: none"> Maintenance dredging when needed for navigation safety (monitoring based) 	County
<ul style="list-style-type: none"> Capri Pass Navigation Channel <ul style="list-style-type: none"> Coordination with US coast Guard on channel marker locations to align with best water for navigation safety (monitoring based-biennial survey) 	County





- 2024 Tropical Season



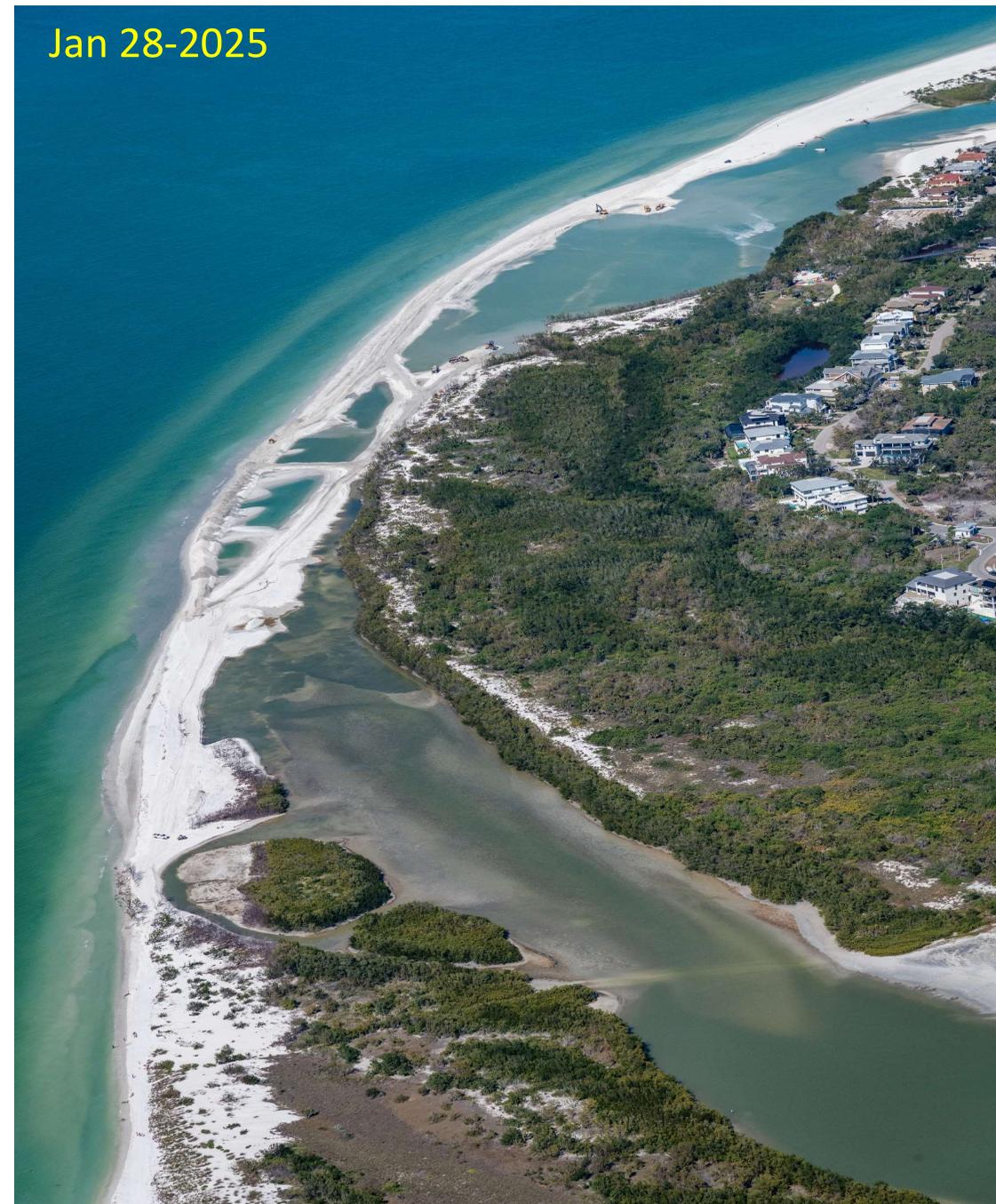
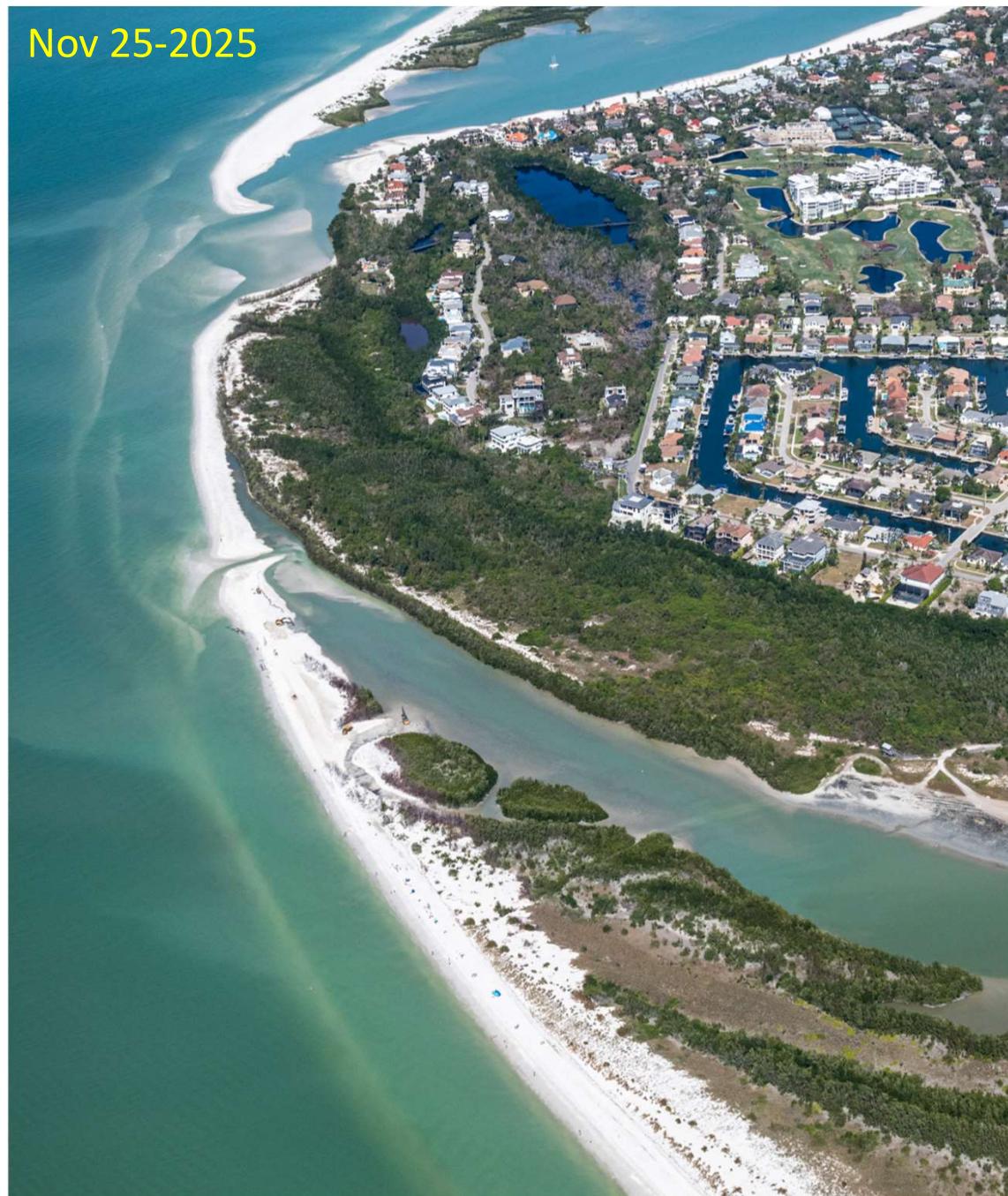
Legend		
TROPICAL STORM DEBBY (08/03/24–08/04/24)	HURRICANE HELENE (09/26/24–09/27/24)	HURRICANE Milton (10/08/24–10/11/24)





-  Coastal vegetation
-  Flow Channel
-  Protective berm
-  Beach





Project update

Pre and Post Storms Recovery and Restoration

