

## Project Information

### Project name:

Tigertail Lagoon/ Sand Dollar Island Ecosystem Restoration Project

### FDEP Permit No.:

0401778-001-JC

### USACE Permit No. :

SAJ-2007-04224 (SP-SJF)

**Project description:** The Tigertail Lagoon/ Sand Dollar Island Ecosystem Restoration project is a City of Marco Island project representing a nature based coastal resiliency project. The project is located on the northwest part of Marco Island on State administered Critical Wildlife Area with public access through Collier County Tigertail Beach Park. The project is in the public interest providing environmental, social and economic benefits and storm protection. The project aims at establishing coastal resiliency through restoration of a multi-tiered coastal barrier system encompassing restoration of a 2 mile long sand spit, coastal lagoon, and mangrove shorelines.

### Project construction:

Humiston & Moore Engineers.

Ahtna Marine & Construction Co.

Timeline: Nov 2022 – May 2023

Total volume: Approx. 500,000 Cy

### City partnership and County support:

Funds for this project were provided by the City of Marco Island, Hideaway Beach Tax district and Collier County

Total construction cost 4.2 million

\$3.3M (Hideaway Beach Tax District)

\$921M (Collier County Tourist Development Tax)

### Technical reference:

Dabees MA, Fleming M and Damon M (2022), Natural and nature based features for environmental enhancement and coastal storm risk management: a case study on Marco Island, Florida, United States. Front. Built Environ. 8:884692. doi: 10.3389/fbuil.2022.884692

<https://doi.org/10.3389/fbuil.2022.884692>

## Project Sponsors



## Project Management & Engineering



## Project Construction



## Environmental Services



TURRELL, HALL & ASSOCIATES, INC.  
Marine & Environmental Consulting

## Surveying



Tigertail lagoon– March 15, 2023



# Tigertail Lagoon/ Sand Dollar Island Ecosystem Restoration Project



## Marco Island Florida

November 2022– May 2023



## 1. Sand Trap and Lagoon Entrance

- Preconstruction- Sep 2021



- Under Construction - March 2023



## 2. Flow Channel & Wetland Restoration

- Preconstruction- Oct 2022



- Under Construction - March 2023



## Site Map



### Project main elements

- Establish sustainable sand source and improve lagoon entrance
- Improve tidal flow through the lagoon
- Establish *multi-tiered* coastal resiliency barrier system
- Restore over 20 acres of wetlands and beach berm

## 3. Beach Berm & Flow Channel

- Preconstruction - Oct 2022



- Under Construction - March 2023



## 4. Tigertail Beach Park

- Preconstruction - Jan 2023



- Under Construction - March 2023

