



Pensacola Bay Living Shoreline Project

- White Island
- NAS Eastern Shore
- Sherman Inlet

Note: Presentation given by Escambia County at a February 25, 2019 Davenport Bayou / Star Lake neighborhood meeting. The purpose of The meeting was to obtain additional input from local stakeholders prior to developing the conceptual project design. Escambia County's participation was at the request of meeting organizers.

What is a Living Shoreline?

“Living shorelines” are a different approach to shoreline stabilization patterned on the natural environment. Projects replace typical shoreline armoring such as bulkheads, seawalls, and riprap by incorporating natural materials such as oyster reefs, emergent marsh vegetation, submerged aquatic vegetation, and sand or other substrate.

Typical Living Shoreline Project Benefits

- Water Quality Improvement
- Riparian Habitat Protection or Enhancement
- Fisheries Habitat Creation or Enhancement
- Maintenance of Other Important Functions Provided by Natural Shoreline Ecosystems (e.g. sediment capture, nutrient cycling, biodiversity, wave attenuation, etc.)
- Shoreline Stabilization
- Recreational Opportunities (e.g. fishing, bird watching, etc.)



Typical Shoreline
Stabilization



Living Shorelines

Pensacola Bay Living Shoreline Project

Design, permitting, and construction of a Large-scale, multi-phase, living shoreline project (White Island, NAS East Shore, and Sherman Inlet)

- Construction of 24,800 linear feet of rock and oyster reef breakwater
- Creation of 205 acres of emergent marsh and submerged aquatic vegetation (SAV) habitat

Project Goals...

- Restore, enhance, and protect fish & wildlife habitat
- Restore, improve, and protect water resources
- Protect and restore living coastal and marine resources
- Restore and enhance natural processes and shorelines
- Promote community resilience

Project Locations



Pensacola Bay Living Shoreline Project

Project Funding...

Design, Engineering, & Permitting

- Gulf Coast Ecosystem Restoration Council Grant (RESTORE Pot 2)
- Florida Defense Infrastructure Grant

Construction & Project Implementation

- Not secured yet, but...
- GCERC Funded Priorities List cycle 3 is a likely source
- White Island already identified as GCERC FPL Tier II project

Pensacola Bay Living Shoreline Project

Project Timeline...

- Gulf Oil Spill (2010)
- Project selection for GCERC Funded Priorities List (2015)
- Execution of funding agreement between GCERC & Florida Department of Environmental Protection (2016)
- Execution of funding agreement between FDEP & Escambia County (2017)
- Project Scope Development & Selection of Design Firm (2017/2018)
- Public Involvement (2018/2019)
- Design, Engineering, & Permitting (2019)
- Secure funding for construction (2019 -)
- Construction (TBD)



Pensacola Bay Living Shoreline Project



Design Team...

- Volkert, Inc. (Prime)



SOUTH COAST ENGINEERS
Engineering for the Coast

Subcontractors

- South Coast Engineering (Coastal Engineering)
- Moffatt & Nichol (Planning & Monitoring)
- McKim & Creed (fka Jehle-Halstead, Inc.) (Survey & Stormwater Modeling)
- Rowe Engineering & Surveying, Inc. (Bathymetric Survey)
- Southern Earth Sciences, Inc. (Geotechnical Engineering)



JEHLE-HALSTEAD, INC. HAS JOINED FORCES WITH

McKIM & CREED

Stakeholder Input

Structured



Unstructured





1. Were you already aware of this project prior to learning about this meeting?

2. Have you taken the online county survey?

myescambia.com/open-government/projects/project-details/nas-pensacola-bay-living-shoreline-project

Shoreline Project Questionnaire

▼ Natural Resources Management
▶ Environmental Code Enforcement
▶ Marine Resources

MyEscambia Home / Natural Resources Management / Shoreline Project Questionnaire

Predesign Public Survey for NAS Pensacola Bay Living Shoreline Project

[View Project Details](#)



3. Which of the three project sites is of most interest to you?
4. Which of the three project sites is of least interest to you?





White Island Project Site

5. What do you currently enjoy most about White Island?

Pick two:

A) Birding

B) Fishing

C) Boating

D) Swimming / Snorkeling

E) Canoeing / Kayaking

F) Camping

G) Sunbathing / Reading

H) Scenic View



White Island Project Site

6. What are the most important aspects of the proposed project?

Pick two:

A) Recreational Opportunities

B) Fish & Wildlife Habitat

C) Aesthetics / Scenic View

D) Water Quality

E) Shoreline Protection

F) Public Safety

G) Dredging*



White Island Project Site

7. Could the project still be considered a success if only your top priority is not addressed to your satisfaction?

- A) Recreational Opportunities**
- B) Fish & Wildlife Habitat**
- C) Aesthetics / Scenic View**
- D) Water Quality**
- E) Shoreline Protection**
- F) Public Safety**
- G) Dredging***





Offshore Breakwater

Most living shoreline projects include an offshore breakwater component. Breakwaters provide fish & wildlife habitat, but just as importantly, breakwaters serve to create calm conditions necessary to create stable conditions necessary to protect existing resources and establish submerged and emergent vegetation.



- 8. Do you support the construction of an offshore breakwater for the White Island project site if required to assure project success?**



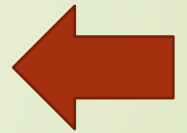
~~Dredging~~



Project will not include “dredging,” but additional sandy substrate may be required in order to construct certain aspects of the design.

If necessary, project will evaluate potential sources of sandy substrate.

Recovery of sandy substrate in support of project implementation



9. Do you support recovery of sandy substrate if required for this project?



A

B

C

D

E

F

G

H

I

10. When you talk about
“dredging”
what areas
do you
mean?

J??

Open Discussion for Questions or Comments





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