

## PENSACOLA & PERDIDO BAYS ESTUARY PROGRAM

Technical Committee Meeting November 12, 2024

#### Welcome our New Team Members!









## **Honoring Casey Fulford**







#### **Committee Co-Chair Elections**



#### Chair Responsibilities

- Providing input on meeting agendas
- Assisting in leading quarterly meetings
   (including a session at the spring Management Conference)
- > Sharing committee updates at Board of Directors meetings
  - > 6 regular meetings a year
- Serving as a reviewer for Community Grant applications (unless submitting a proposal)

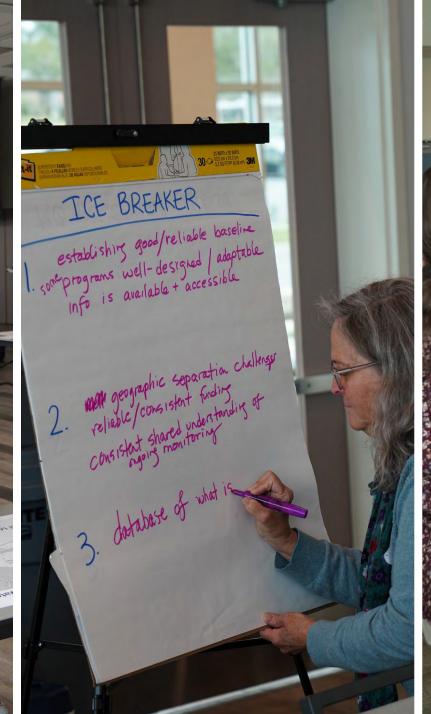


### **Comprehensive Monitoring Workshop**

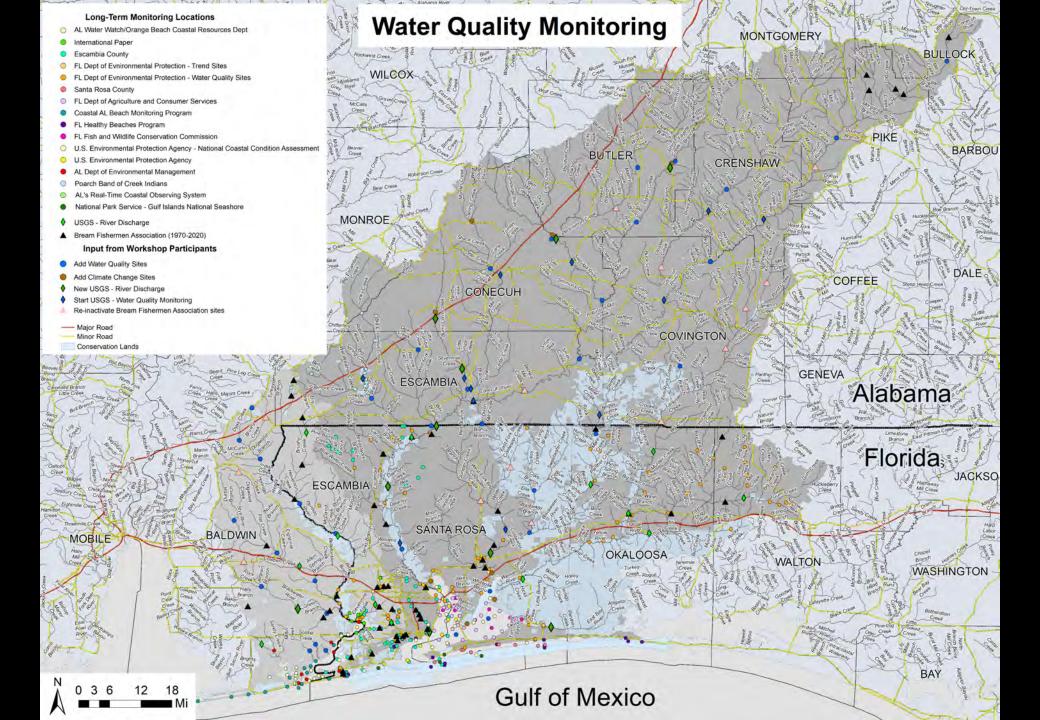
Over 60 participants from over 30 different organizations across Alabama and Florida











BULLOCK

International Paper

Escambia County

FL Dept of Evnironmental Protection - Trend Sites

#### **Parameter Group**

	Tarameter Group				
Priority	Water Quality	Sediment/Soils	Habitat	Fish and Wildlife	
High	Dissolved Oxygen	Grain size	Seagrass acreage	Fish tissue contaminants - mercury	
	Turbidity	Streambank erosion	Macroalgal presence/absence in seagrass beds	Fish tissue contaminants - metals other than mercury	
	Water temperature	Benthic macroinvertebrates (abundance and composition)	Live oyster density/recruitment density  Oyster reef areal dimension: total	Fish tissue contaminants - PCBs and pesticides	
	рН	Trace metals	reef area  Oyster reef areal dimension:	Fish tissue contaminants - lipids	
	Conductance	Mercury	project footprint	Fish species compostion	
	Total Nitrogen	PAHs, PCBs, Pesticides	Oyster reef height	Diversity	
	Total Phosphorus Chlorophyll-a		Wetland acreage Wetland vegetation composition	Fish abundance Total length	
	Total Kjeldahl Nitrogen (TKN)		Shoreline accretion/erosion	Nekton	
	Total Suspended Solids			Treate II	
	Total depth				
	Ammonia				
	Nitrate-nitrite				
	E. Coli				
	Fecal Coliforms				
	Enterococcus				
	Streamflow				

#### F

#### NOAA RESTORE Science Program Long Term Trends in the Gulf of Mexico

- ➤ Casting a Wider Net Establishing a Long-term Fisheries Independent Monitoring Program to Inform Fisheries Management Data Gaps in NWFL Estuaries
- > Requested: \$3.9M (2025-2030)
- > Strongly Encouraged to submit proposal
  - ➤ 1 of 8 applicants (7%)
  - > 112 LOIs submitted
  - Proposal submitted in August













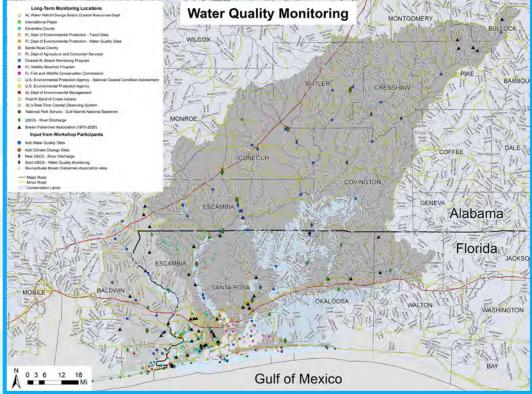
# EPA Gulf of Mexico Program Understanding Water Quality Through Monitoring Activities

- Implement actions from Comprehensive Monitoring Workshop (Feb 2024)
- Harness partnerships to expand spatial and temporal coverage
- > \$750K over 3 years
- ➤ Proposals due November 22
- ➤ Prioritized parameters of interest:
  - Physical (e.g., DO, pH, temp, etc.)
  - Nutrients (e.g., TN, TP, etc.)
  - ➤ Biological (e.g., bacteria, chl-a)





















#### **Gulf of Mexico Alliance**

- ➤ GOMA expanding
  GOMOD to include
  publicly available data for
  EP and NERR estuaries
  ➤ BIL 2 funded project
- > Dashboard creation
- Webinar and discussion in December
- ➤ Workshop early 2025





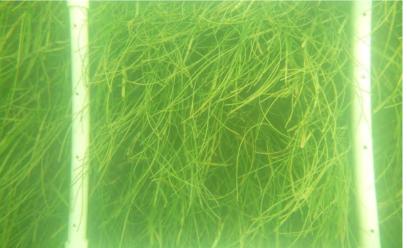
#### **Seagrass Monitoring**



Surveyed > 100 stations across Perdido and Pensacola Bay SystemsUrchins spotted in Santa Rosa Sound









#### Juvenile Fish Trawling Survey



#### > Annual survey completed in October











#### Living Shorelines Monitoring

- > Quarterly monitoring at 10 sites across the Pensacola Bay System
  - ➤ Continuing monitoring through 2025 Q4 sampling next week!
- > Collecting data on water quality, oysters, fauna, vegetation, soils, fish







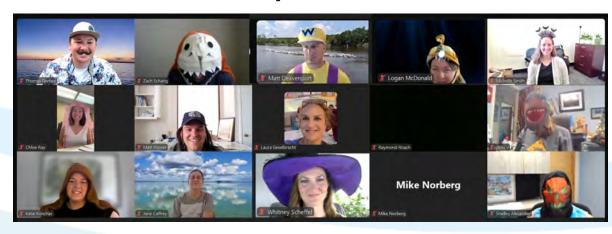




#### **Oyster Sub-Committee Meeting**

- Partner presentations by:
  - T. Derbes Farms for Aquaculture Research and Monitoring of Shellfish (FARMS)
  - Levi Blackmon (Santa Rosa County NRCS) – Sandy Hollow Gully Restoration Design
- Jacobs Design lead for Pensacola Bay System Oyster Restoration Initiative
  - Overview of design process
  - Project schedule and engagements

#### **Dressed to Impress on Halloween!**



Co-Chairs Chris Verlinde (Santa Rosa County) and Thomas Derbes (UF/IFAS Sea Grant) re-elected!





#### **Project Schedule**

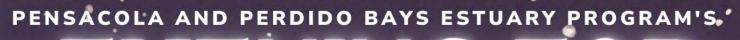
Task 1	Project Management and Coordination	August 2024 – July 2026	
Task 2	Stakeholder Engagement	February 2025, Fall 2025, Winter 2025	
Task 3	Desktop Analysis and Data Collection	August 2024 – January 2026	
Task 4	Community Engagement Events	Summer 2025, Fall 2025, Winter 2025, Spring 2026	
Task 5	Preliminary Design	October 2024 – December 2025	ion
Task 6	Permitting	September 2024 – January 2026  Engineering	Science-Based Habitat Restoration Design
Task 7	Detailed Design & Contract Documents Preparation	December 2025 – June 2026	30000

**17** © Jacobs 2024

#### Paige Lansky

Living Shoreline Assistance and Oyster Shell Recycling Programs





# EVENING FOR THE ESTUARIES

## See photos on Flickr!

https://flic.kr/s/aHBqjBTPC7

# Over \$28,000 Raised!

Save the Date: October 16, 2025

OCTOBER 17, 2024 AT 6:00 PM COASTAL ARTS CENTER OF ORANGE BEACH

PLEASE JOINS US FOR AN EVENING OF LIVE MUSIC, DRINKS, HORS D'OEUVRES, A SILENT AUCTION, AND GIVING BACK TO THE WATERS WE CALL HOME.

#### 2025 Priorities

- >PPBEP staff annual planning meeting in December!
- ➤ Data dashboard development
- ➤ 2025 State of the Bays report
- > Research and monitoring
- > Project development and design feedback
  - > Perdido and Pensacola Infrastructure projects



## 2025 Partner Presentation Topics

- ➤ Drs. Jane Caffrey and Amanda Croteau (UWF)
  - Microbial Source Tracking bacterial and water quality monitoring



- ➤ Gulf of Mexico Alliance projects
- >Large-scale oyster restoration across the U.S.
- > Floridatown Park Living Shoreline project update





# Oyster Restoration Workshop



#### February 20-21, 2025

Day 1: February 20th | 11:00am - 4:00pm

\*Lunch provided

Day 2: February 21st | 9:00am - 12:00pm

\*Coffee and pastries provided



#### **Bayview Community Center**

2000 E. Lloyd St. Pensacola, FL 32503



Help co-develop conceptual designs to shape the future of oyster restoration in Pensacola Bay!

Agenda and supporting materials will be sent several weeks prior to workshop.



PENSACOLA & PERDIDO BAYS ESTUARY PROGRAM



NOAA

**Jacobs** 





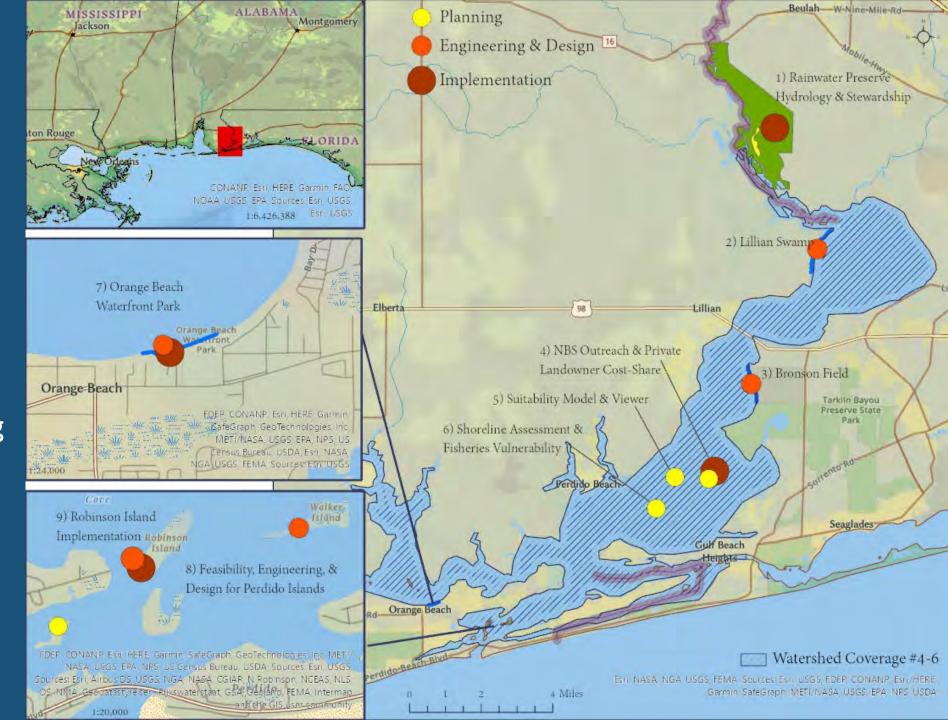
# Around the Room/Announcements





#### Perdido Watershed Initiative

- >\$12M NOAA
   Transformational
   Habitats (IIJA) funding
- 2023-2027
- Planning, E&D, & implementing shovelready projects











# Rainwater Preserve TNC, Auburn

- Invasive species management
- Hydrologic restoration

## Lillian Swamp (AL)

TNC, ADCNR, MN





DAMPEN WAVE ENERGY

ARREST EROSION AND PROMOTE ACCRETION

ATTAIN DYNAMIC EQUILIBRIUM

ENHANCE OVERALL PRODUCTIVITY OF ECOSYSTEM



DIAGRAMMATIC SECTION THROUGH FEATURE







HABITAT "GET-DOWN"

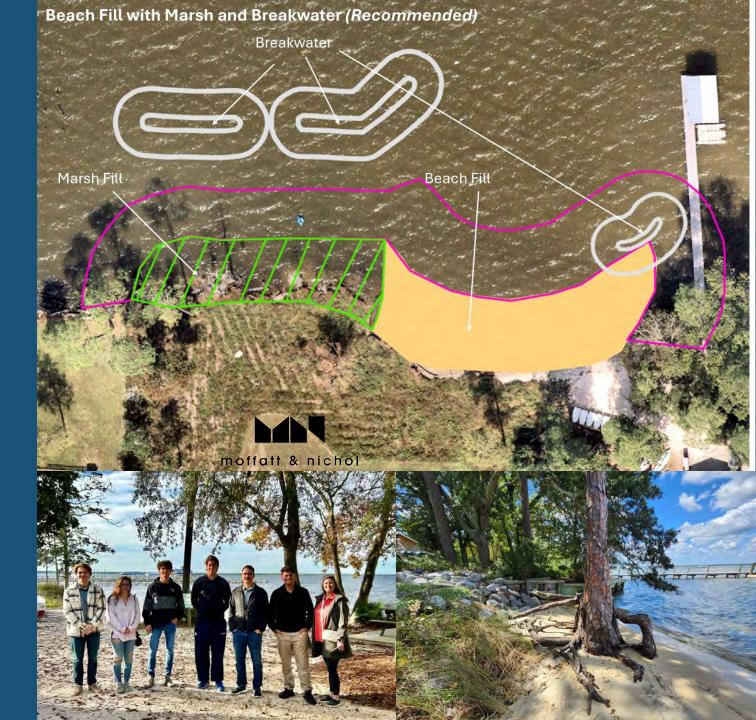
VIGNETTE OF COMBINED RECREATION AND RESTORATION OPPORTUNITIES



# Waterfront Park TNC, USA, Orange Beach, MN

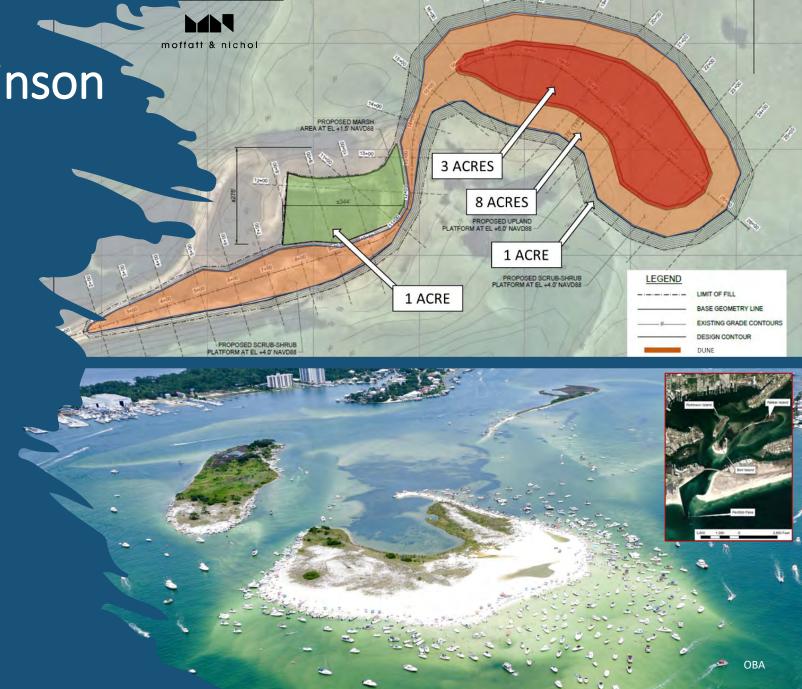
- Partnership with USA graduate & undergraduate students
- Design shoreline protection and habitat enhancements



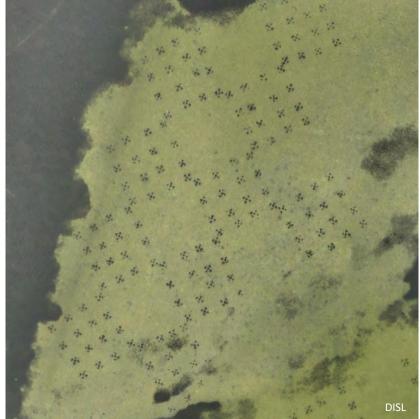


Restoration of Robinson
 Walker Islands
 TNC, USA, Orange Beach, MN

- IIJA & NRDA funding
- Balancing humans and habitats
- Complex habitat types
- Construction in early 2025









Seagrass
Transplanting
TNC, CSA, DISL,
EVERYBODY!

- Halodule wrightii
- 4,640 sods
- 1.59 ac (exceeds 2:1 required mitigation ratio)
- >40 volunteers & staff

#### Partnerships























































