MISSISSIPPI RESTORATION SUMMIT 2019





Chris Wells

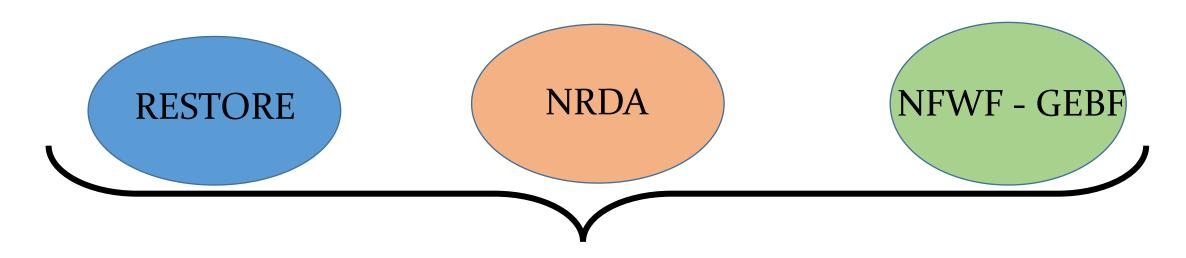
Director, Office of Restoration, Chief of Staff MDEQ

RESTORATION SUMMIT PURPOSE

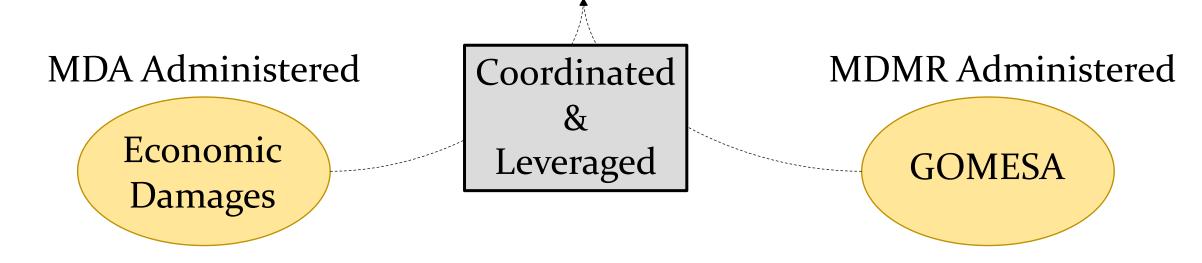
The Restoration Summit was created for the following purposes:

- Have a single venue in which all new restoration projects are announced for the coming year
- Have an opportunity to provide the coastal community an update on restoration projects being implemented
- Create a means to solicit community feedback, input, and suggestions on restoration projects and priorities

RESTORATION FUNDING STREAMS



MDEQ Administered Restoration Funding



RESTORATION FUNDING STREAMS (MDEQ)

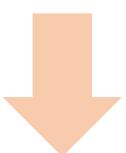








Civil Settlement; Ecological and Economic; 5 buckets; Restore Council and Treasury involved



Civil Settlement; Funding by resource; Work through TIG; Ecological focus

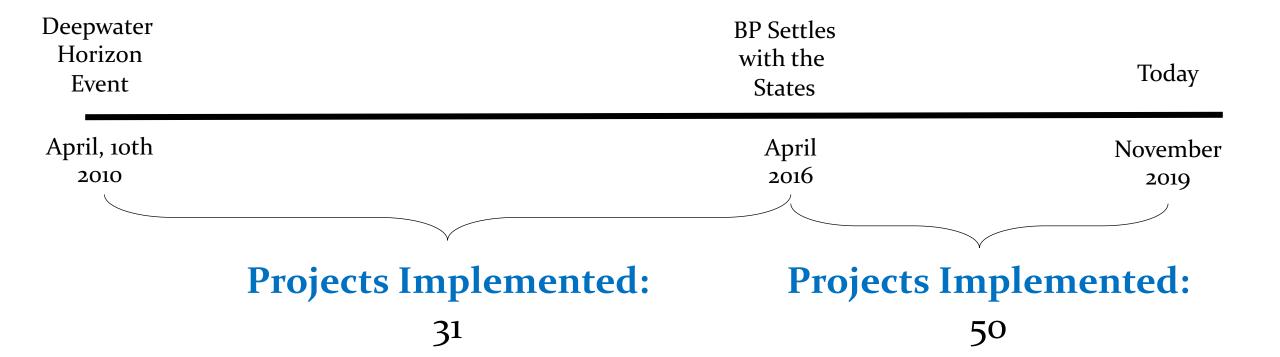


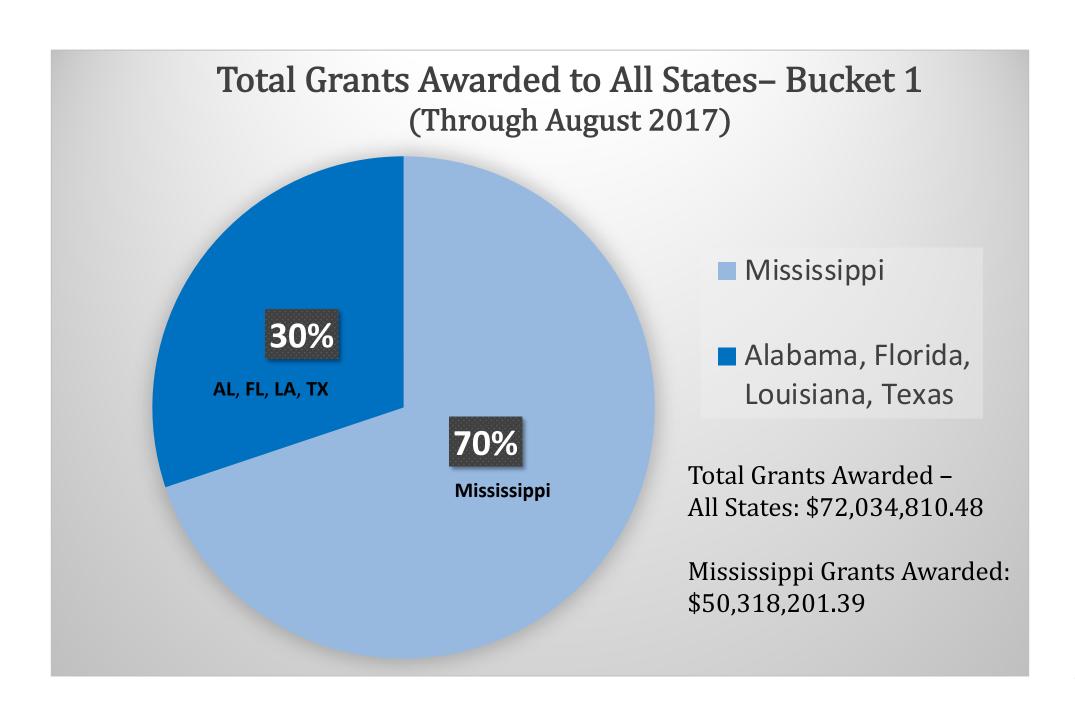
Criminal Settlement;
Plea Agreement;
Damage to Resources affected
by Spill;
Ecological focus

ACCOMPLISHMENTS TO DATE



RESTORATION TIMELINE





ACCOMPLISHMENTS NFWF GEBF – ROUND ISLAND

BU Marsh Creation Project -Round Island:

- 220 acres
- 2019 by the numbers:
 - New Mississippi high count for Wilson's plover 61
 - Nesting species 10
 - 2 hatched Snowy Plovers banded and found in Alabama (Dauphin IS. and Bon Secour)



ACCOMPLISHMENTS NFWF GEBF – ROUND ISLAND – FALL 2016





ACCOMPLISHMENTS NFWF GEBF ROUND ISLAND - 2019



ACCOMPLISHMENTS INFINITY SCIENCE CENTER

Infinity Science Center

- Complete June
 30th 2018
- 3D theater, Biome boardwalk
- 11 new exhibits;
 refurbishment of
 Xspherience
 theater









ACCOMPLISHMENTS HANCOCK MARSH LIVING SHORELINE

Hancock Marsh Living Shoreline

- 6 miles of living shoreline have been constructed
- 46 acres of oyster reef constructed
- Remaining component 46 acres of marsh





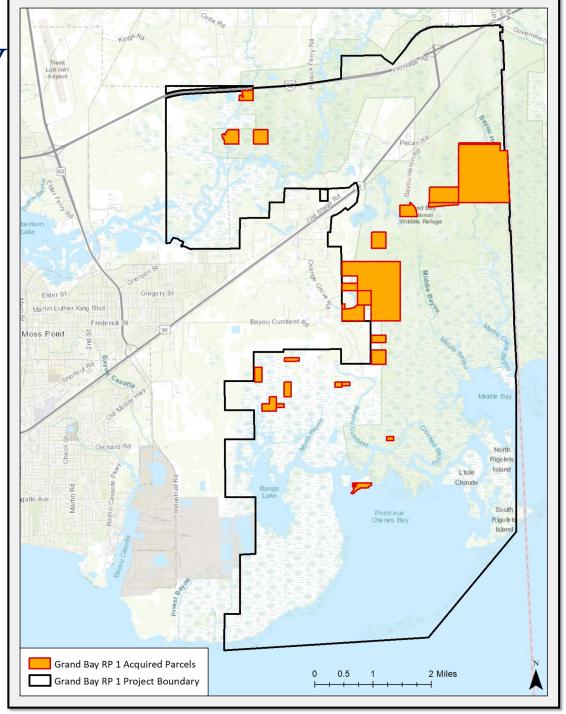


ACCOMPLISHMENTS GRAND BAY

Grand Bay Land Acquisition and habitat Management

- Funded under NRDA Long Term Plan I
- Project Partners: MDEQ, DOI, MDMR, USFWS
- Over 1,500 acres acquired
- Invasive Species management





ACCOMPLISHMENTS GRAND BAY

Invasive Species Management / Monitoring

- 110 acres of Timber Stand Improvement
- 127 acres of Prescribed Burns
- 4 miles of fire lanes
- 9 Long Term Monitoring Plots
- 1 year Vegetation and Avian

Monitoring







ACCOMPLISHMENTS WILLIAM CAREY PHARMACY SCHOOL

William Carey Pharmacy School at Tradition

- Received RESTORE
 Funding on 2016 MIP
- 58 enrolled in first year
- 52 enrolled in second year
- First class to graduate in
 2021





ACCOMPLISHMENTS MISSISSIPPI GULF COAST COMMUNITY COLLEGE

Workforce training:

- 245 enrolled in work-ready program
- 184 enrolled in industry specific training program







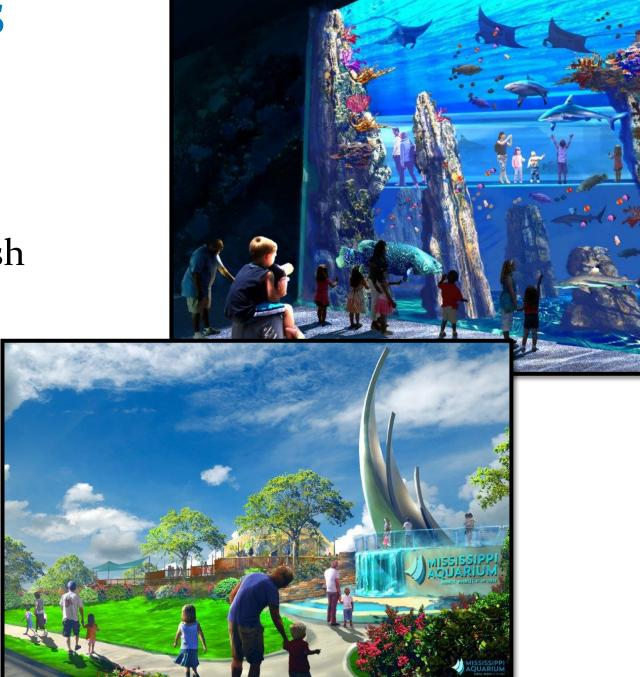
ACCOMPLISHMENTS AQUARIUM

Mississippi Aquarium – Gulfport

 1 Million gallons of fresh and salt water

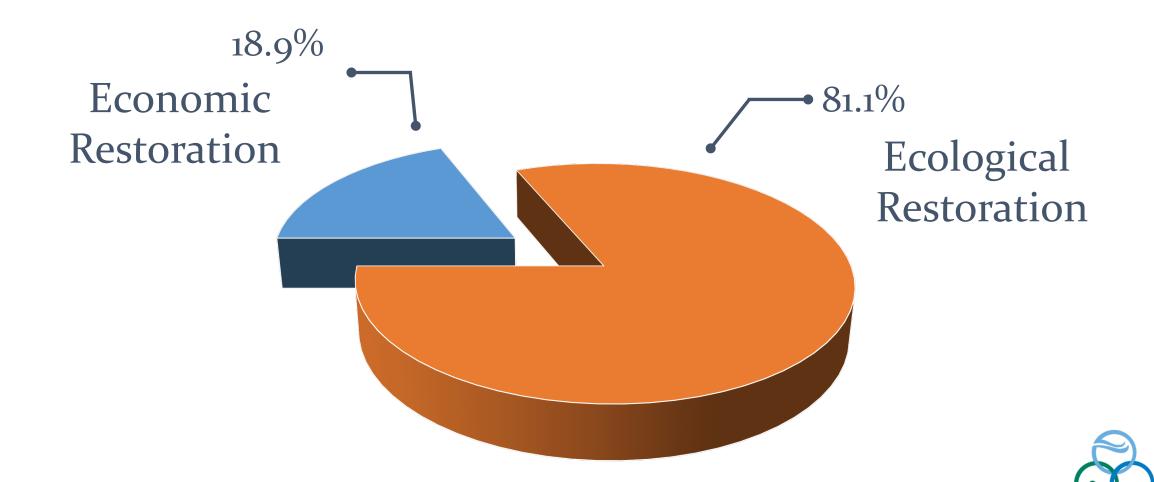
• 12 animal habitats

 Will be the home to over 70 species of aquatic creatures





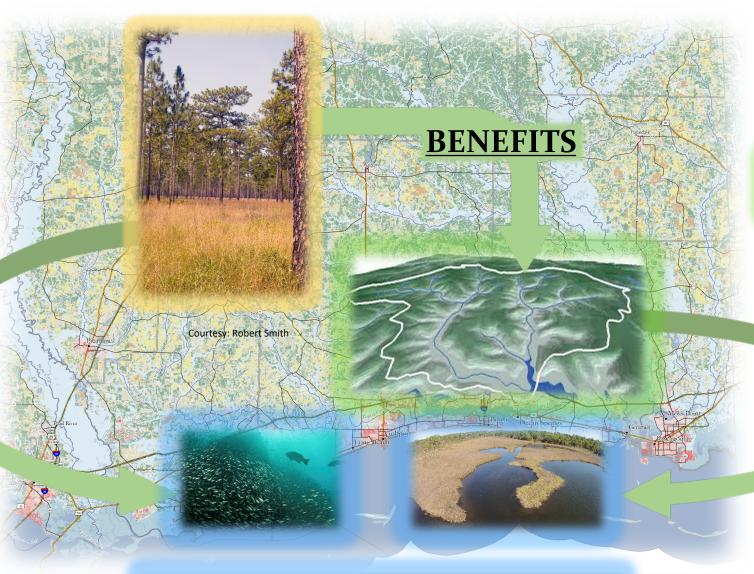
RESTORATION FUNDING



RESTORATION ECOLOGICAL PRIORITIES

Conserve and Restore Coastal Lands

BENEFITS



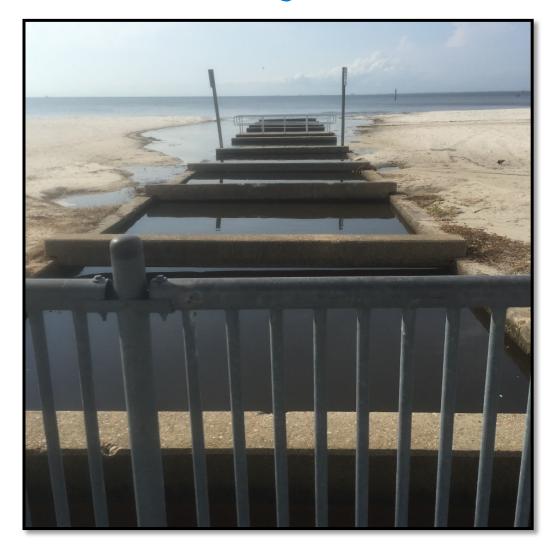
Protect Water Resources

BENEFITS

Sustaining Coastal and Marine Resources



WATER QUALITY 101



VS.



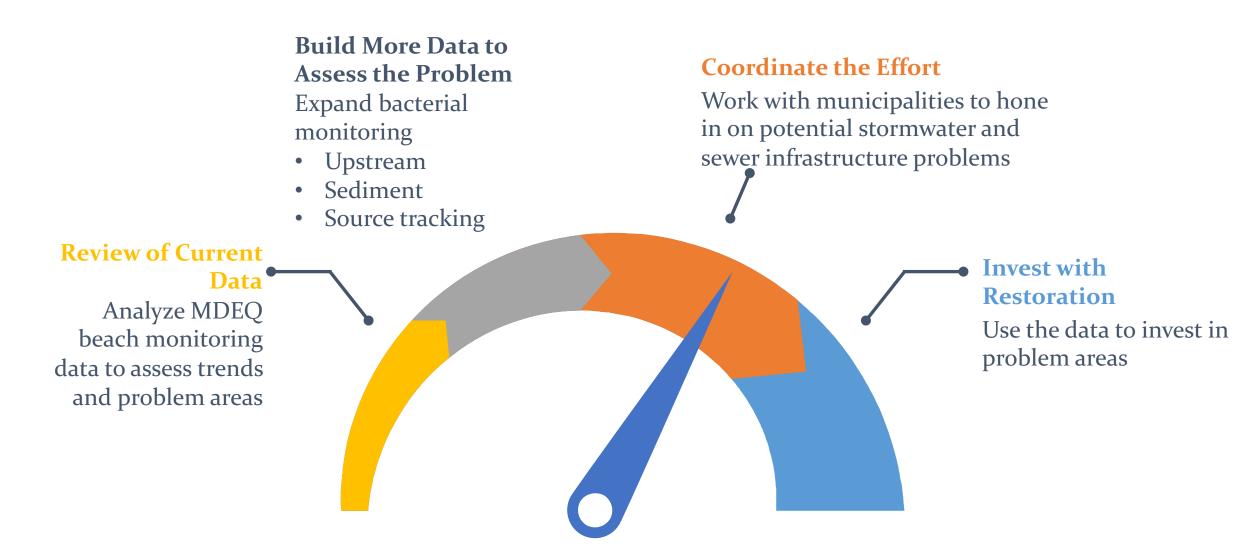


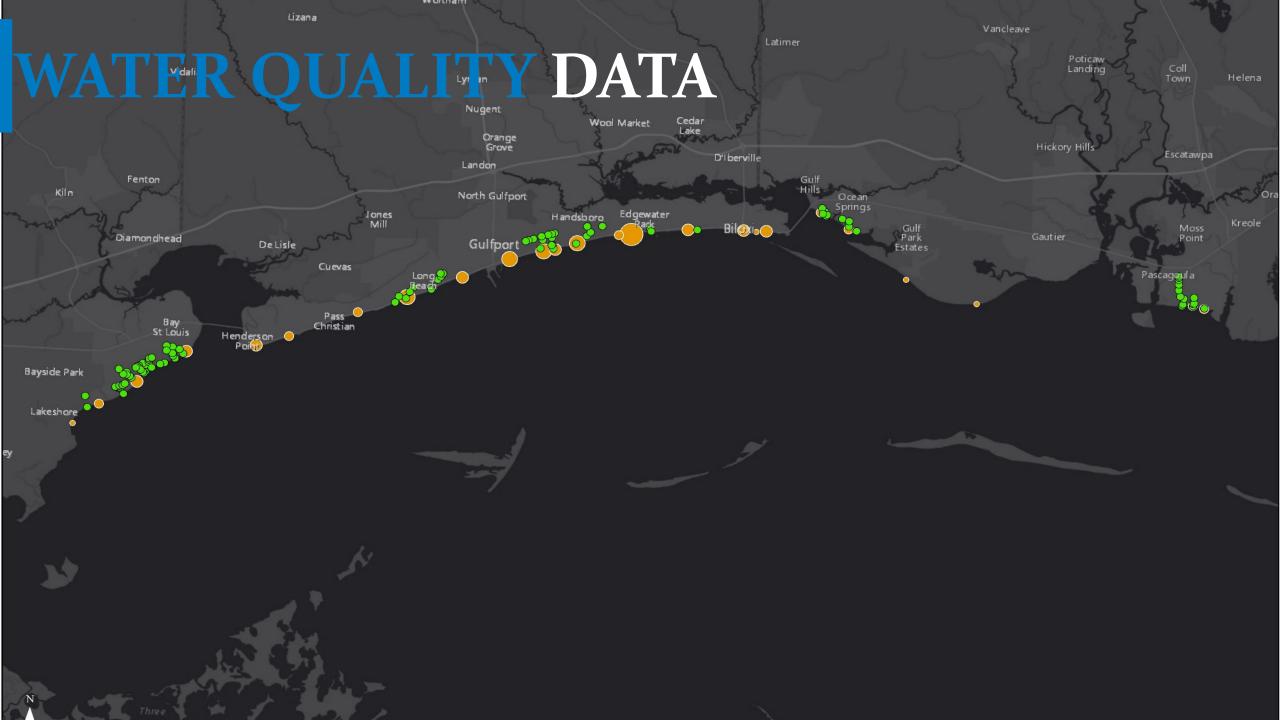
WATER QUALITY 101





PROCESS TO ACHIEVE IN-SHORE WATER QUALITY GOAL





WATER QUALITY EXAMPLE – COFFEE CREEK



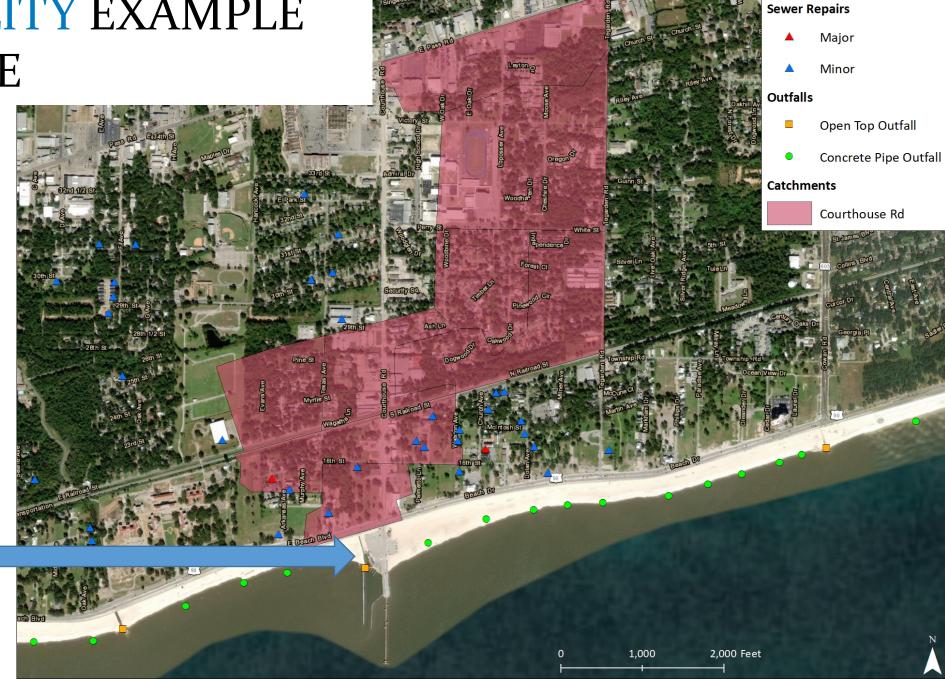


WATER QUALITY EXAMPLE – C GPT-4<u>1</u>6 315151 **GPT-4_5** 29th St GPT-4 1 Georgia St 23rd St GPT-4



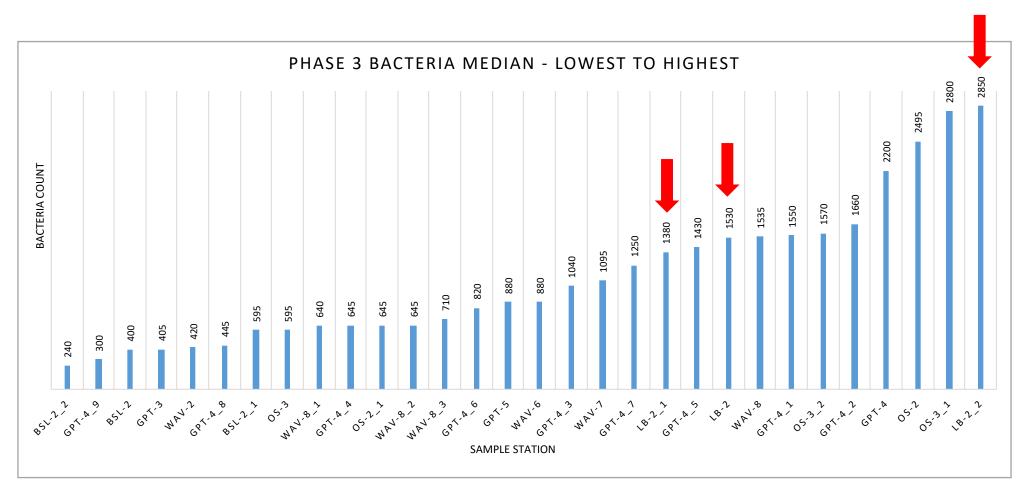


RESTORE Implementation Of Outfall Challenge Ideas



Legend

WATER QUALITY EXAMPLE – LONG BEACH





WATER QUALITY EXAMPLE – LONG BEACH





2019 MISSISSIPPI NEW PROJECTS



Mississippi Restoration Funding Summary

Resource Damage Assessment)

Total Settlement Payments Over 15 Years \$1.35 Billion (RESTORE Act, National Fish and Wildlife Foundation, Natural

\$511 Million Total Projects Announced to Date

\$53.2 Million

2019 New Projects Announcement

BUCKET 1 NEW PROJECTS

\$19.00 million RESTORE Act funding

8 Projects Total

2 Existing project amendments

6 New projects from Go Coast 2020 recommendations



NEW PROJECT BUCKET 1 – WATER QUALITY IMPROVEMENT PROGRAM

Location:

Coast Wide

Funding Amount:

\$1,000,000 (additional funding)

Info:

- Total: \$68 million (Bucket 1 and 3)
- Existing projects in all 3 Coastal Counties
- Further water quality improvements in reducing bacterial pollution





NEW PROJECT BUCKET 1 – USM OYSTER HATCHERY AND RESEARCH CENTER

Location:

Jackson County

Funding Amount:

\$4,000,000 (additional funding)

Info:

- Total RESTORE Funding:\$9.7 million
- Oyster larvae production and research to support oyster restoration efforts



NEW PROJECT BUCKET 1 – BUCCANEER STATE PARK

Location:

Hancock County

Funding Amount:

\$1,000,000

- Enhance park as regional ecotourism and family recreational attraction
- Implementation of one or more park improvements related to the masterplan to increase tourism.



PC: MDWFP

NEW PROJECT BUCKET 1 BILOXI POINT CADET MARINA UPGRADES

Location:

Harrison County

Funding Amount:

\$3,000,000

- Infrastructure improvements to modernize Point Cadet Marina
- Grow recreational/sports tourism like the Billfish Classic and support East Biloxi redevelopment



PC: Sun Herald



NEW PROJECT BUCKET 1 – MGCCC CENTER FOR SECURITY AND EMERGING TECHNOLOGIES

Location:

Harrison County

Funding Amount:

\$3,000,000

Info:

 Construction of workforce training center focused on high-tech information systems technologies (Cybersecurity, Coding, Simulation, emerging technologies)





NEW PROJECT BUCKET 1 – USM OCEAN ENTERPRISE ENTREPRENEURSHIP PROGRAM

Location:

Harrison County

Funding Amount:

\$1,000,000

- Support the Ocean Enterprise vision to grow th Blue Economy and establish the MS Gulf Coast as national leader in ocean science and technology development
- New combined degree program in Ocean Engineering and Business to foster Blue Economy entrepreneurship



Architectural Rendering



NEW PROJECT BUCKET 1 – MOSS POINT I-10 COMMERCIAL CORRIDOR IMPROVEMENTS

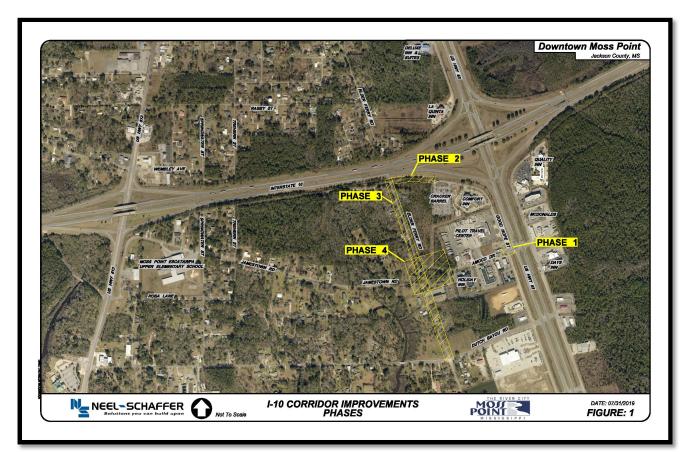
Location:

Jackson County

Funding Amount:

\$3,000,000

- Enhancing access to existing businesses and supporting additional commercial development in Moss Point
- Transportation network improvements to support economic growth





NEW PROJECT BUCKET 1 – MSU NORTHERN GULF AQUATIC FOOD RESEARCH CENTER

Location:

Jackson / Harrison County

Funding Amount:

\$3,000,000

- Construction of Analytical Lab for testing seafood safety and quality assurance.
- Overall Goal Research Center to support commercial seafood industry growth (processing, valueadded products development)







BUCKET 3 NEW PROJECTS

\$18.6m RESTORE Act Funding

2 existing projects

1 new project



EXISTING PROJECT BUCKET 3 BU PROGRAM FOR MARSH CREATION AND RESTORATION

Location:

Coast Wide

ADD funding to EXISTING PROJECT:

\$7,000,000 (Additional funding)

- Total: \$19,000,000
- Capitalize on dredge material to accelerate marsh creation and restoration
- Leverage RESTORE B2 and NFWF BU efforts to maximize marsh creation





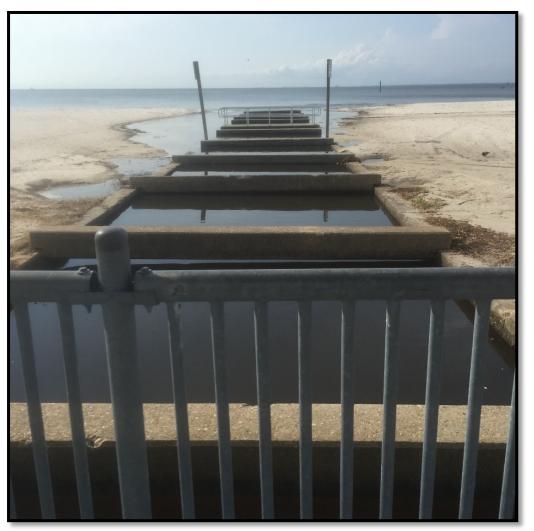
EXISTING PROJECT BUCKET 3 WATER QUALITY IMPROVEMENT PROGRAM

Location:

Coast Wide

Add Funding to existing project: \$7,000,000 (additional funding)

- Total: \$68 million (Bucket 1 and 3)
- Existing projects in all 3 Coastal Counties
- Further water quality improvements in reducing bacterial pollution





NEW PROJECT BUCKET 3 MISSISSIPPI BEACHFRONT RESILIENCE

Location:

Coast Wide

Funding Amount:

\$5,000,000

- Restore dune formation along the Mississippi Gulf Coast
- Enhance Boardwalk construction to mitigate sand migration
- Primary purpose: provide resilience to beach, road infrastructure by reducing further beach erosion





NFWF NEW PROJECTS

±\$15.69 million NFWF-GEBF funding

6 projects total

1 existing project



NEW PROJECT NFWF GEBF – REEF PHASE III AND IV

Location:

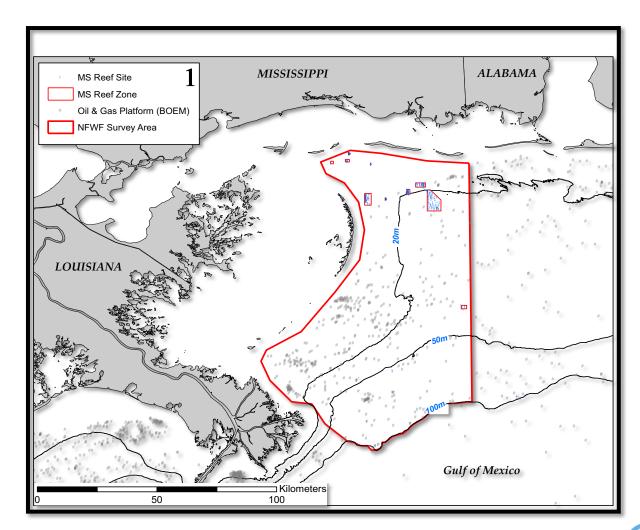
Off-shore

Addition to an EXISTING PROJECT

Funding Amount:

\$5.96 million (Two Phases)

- Total Project Cost: \$12.9 million
- Project partner: USM and MDMR
- Primary purpose: better understanding of the off-shore reef fishery



NEW PROJECT NFWF GEBF – PILOT OYSTER CULTCH

Location:

Western Mississippi Sound

Funding Amount:

\$3.39 million

- Project partner: MDMR
- Primary purpose: implement pilot cultch plants to understand oyster survival for future large scale oyster restoration



PC: North Carolina Oyster BluePrint



NEW PROJECT NFWF GEBF APPLE SNAILS

Location:

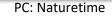
Jackson County, Mississippi

Funding Amount: \$836,000

• Project partner: MDMR

Primary purpose: control population of apple snails in and around Pascagoula River Coastal Preserve









NEW PROJECT NFWF GEBF- TNC ST LOUIS REEF

Location:

Jackson County

Funding Amount:

\$2.8 million

- Project Implementer: TNC
- Primary purpose: restore and enhance the St. Louis Bay TNC oyster reef with a resilient oyster reef habitat





NEW PROJECT NFWF GEBF – INGALLS ARTIFICIAL REEF

Location:

Jackson County + Offshore Reefs

Funding Amount:

\$2.2 million

- Project Implementer: MDMR
- Primary purpose: deploy reef materials in new and existing off-shore artificial reefs to increase and enhance off-shore reef habitat





NRDA TRUSTEE IMPLEMENTATION GROUP (MS TIG) UPDATE



NRDA MS TIG UPDATE

Members of the MS TIG













NRDA MS TIG UPDATE – RESTORATION PLAN #2

NRDA Restoration Types Included in RP#2:

- Oysters
- -Wetland Coastal Nearshore Habitats



NRDA MS TIG UPDATE – OYSTERS RP II/EA-Proposed Reasonable Range of AlternativesOysters

Alternative A: Oyster Spawning Reefs in Western Mississippi

Alternative B: Oyster Spawning Reefs in Eastern Mississippi

<u>Alternative C:</u> Oyster Spawning Reefs in Mississippi (Alternative A + B)

Alternative D: Mississippi Oyster Gardening Program

<u>Alternative E:</u> No Action

NRDA MS TIG UPDATE – WCNH

RP II/EA-Proposed Reasonable Range of Alternatives-WCNH

<u>Alternative A:</u> Wolf River Coastal Preserves Habitat Management – Dupont and Bell's Ferry Tracts

<u>Alternative B:</u> Hancock County Coastal Preserves Habitat Management – Wachovia Tract

<u>Alternative C:</u> Pascagoula River Coastal Preserves Habitat Management-Dantzler Tract

<u>Alternative D:</u> No Action

NRDA MS TIG UPDATE – NEXT STEPS

The MS TIG is in the process of Drafting Restoration Plan 2 to propose for public review and comment.

For current updates sign up for updates at:

https://www.mdeq.ms.gov/restoration/contact/

ROUND TABLE DISCUSSION



