

Deepwater Horizon Natural Resource Damage Assessment

Louisiana Trustee Implementation Group

2020 Annual Public Meeting

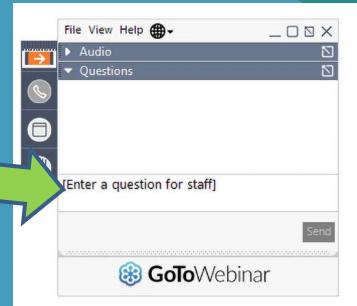
September 9, 2020

Agenda

- Welcome & Instructions
- DWH Overview
- LA TIG Overview
- LA TIG Restoration Implementation and Planning Update
- Your Comments

Webinar Participation

 If you're using a phone, turn off your computer's microphone and speakers.



 When the Comment session starts later, use the "Questions" box to type comments for Trustee staff.

Meeting Materials

All meeting materials will be available at:

- https://la-dwh.com/
- https://www.gulfspillrestoration.noaa.gov/



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Sources of DWH Oil Spill Funding

NRDA (Natural Resource Damage Assessment) Oil Pollution Act

RESTORE Act

(Resources and Ecosystems Sustainability, Tourist Opportunities, and Revived Economies) CWA Civil

NFWF (National Fish & Wildlife Foundation) CWA Criminal

DWH NRD Settlement

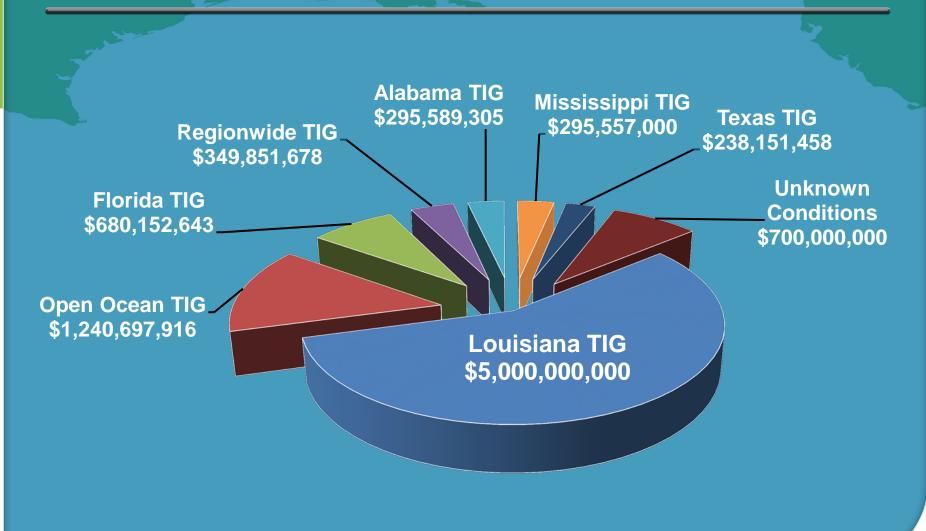
- LA TIG will receive \$5 billion for the Deepwater Horizon (DWH) oil spill Natural Resource Damages (NRD)
- Settlement funds to be paid by BP on or before April 4 of each year, beginning in 2017 through 2031
- Pursuant to the Oil Pollution Act (OPA), the natural resource trustees must use these funds to restore environmental damages caused by the DWH oil spill

Restoration Funding in Dollars

Restoration Funding in Dollars						_			
Major Restoration Categories	Unknown Conditions	Regionwide	Open Ocean	Alabama	Florida	Louisiana	Mississippi	Texas	Total Restoration Funding*
1. Restore and Conserve Habitat									
Wetlands, Coastal, and Nearshore Habitats				65,000,000	5,000,000	4,009,062,700	55,500,000	100,000,000	4,234,562,700
Habitat Projects on Federally Managed Lands				3,000,000	17,500,000	50,000,000	5,000,000		75,500,000
Early Restoration (through Phase IV)				28,110,000	15,629,367	259,625,700	80,000,000		383,365,067
2. Restore Water Quality		-							
Nutrient Reduction (Nonpoint Source)				5,000,000	35,000,000	20,000,000	27,500,000	22,500,000	110,000,000
Water Quality (e.g., Stormwater Treatments, Hydrologic Restoration, Reduction of Sedimentation, etc.)					300,000,000	-			300,000,000
3. Replenish and Protect Living Coastal and Mar	ine Resources					-			
Fish and Water Column Invertebrates			380,000,000						380,000,000
Early Restoration Fish and Water Column Invertebrates			20,000,000						20,000,000
Sturgeon			15,000,000						15,000,000
Sea Turtles		60,000,000	55,000,000	5,500,000	20,000,000	10,000,000	5,000,000	7,500,000	163,000,000
Early Restoration Turtles		29,256,165						19,965,000	49,221,165
Submerged Aquatic Vegetation						22,000,000			22,000,000
Marine Mammals		19,000,000	55,000,000	5,000,000	5,000,000	50,000,000	10,000,000		144,000,000
Birds		70,400,000	70,000,000	30,000,000	40,000,000	148,500,000	25,000,000	20,000,000	403,900,000
Early Restoration Birds		1,823,100		145,000	2,835,000	71,937,300		20,603,770	97,344,170
Mesophotic and Deep Benthic Communities			273,300,000						273,300,000
Oysters		64,372,413		10,000,000	20,000,000	26,000,000	20,000,000	22,500,000	162,872,413
Early Restoration Oysters				3,329,000	5,370,596	14,874,300	13,600,000		37,173,896
4. Provide and Enhance Recreational Opportunit	ies								
Provide and Enhance Recreational Opportunities				25,000,000	63,274,513	38,000,000	5,000,000		131,274,513
Early Restoration Recreational Opportunities			22,397,916	85,505,305	120,543,167	22,000,000	18,957,000	18,582,688	287,986,076
5. Monitoring, Adaptive Management, and Admin	istrative Overs	ight							
Monitoring and Adaptive Management		65,000,000	200,000,000	10,000,000	10,000,000	225,000,000	7,500,000	2,500,000	520,000,000
Administrative Oversight and Comprehensive Planning		40,000,000	150,000,000	20,000,000	20,000,000	33,000,000	22,500,000	4,000,000	289,500,000
Adaptive Management NRD Payment for Unknown Conditions	700,000,000								700,000,000
Total NRD Funding	\$700,000,000	\$349,851,678	\$1,240,697,916	\$295,589,305	\$680,152,6	<mark>\$5,000,000,000</mark>	195,557,000	\$238,151,458	
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* The total restoration funding allocation for the Early Restoration work; each restoration type; and monitoring, adaptive management, and administrative oversigners act 1 ullion (plus up to an additional \$700 million for adaptive management and unknown conditions).

Total Allocation



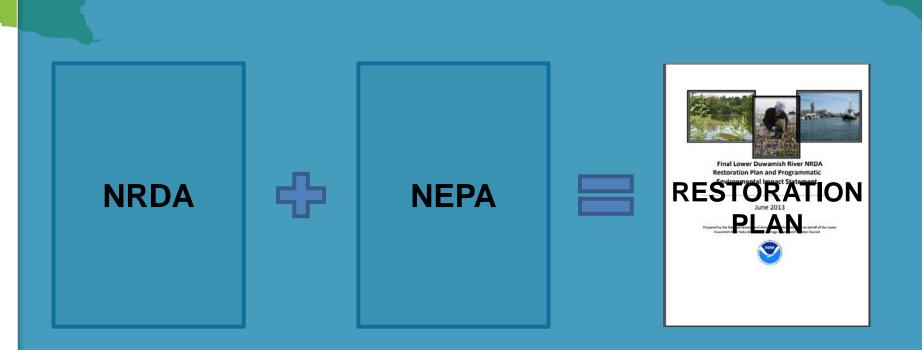
LA TIG Allocation

Replenish and Protect Living Coastal and Marine [CATEGORY NAME] Resources Monitoring, **Restore Water** [VALUE] [VALUE] **Adaptive Quality via Nutrient** Management, and Reduction **Administrative** \$20,000,000 **Oversight** \$258,000,000 **Restore and Conserve Habitat** \$4,318,688,400

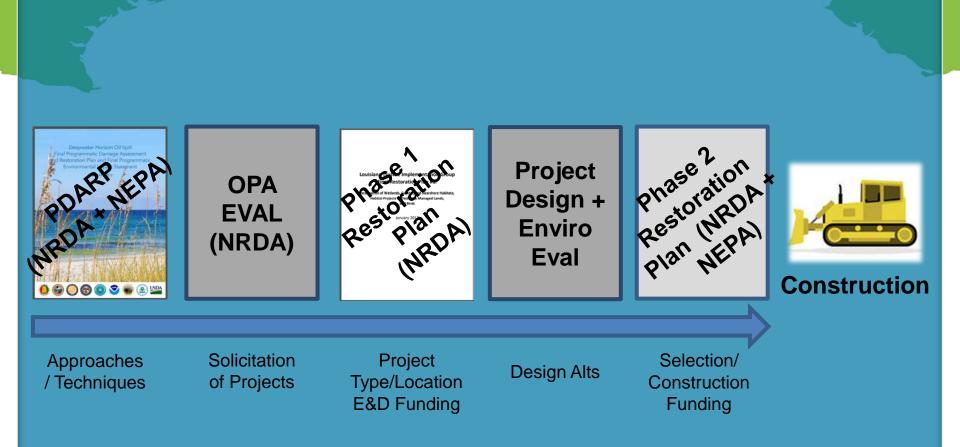
Louisiana Restoration Area Representatives

Bren Haase State of Louisiana **Erin Chandler Department of the Interior** Mel Landry National Oceanic and Atmospheric Administration **Doug Jacobson** U.S. Environmental Protection Agency **Ron Howard U.S.** Department of Agriculture

Typical NRDA & NEPA Process



DWH Phased NRDA & NEPA Process



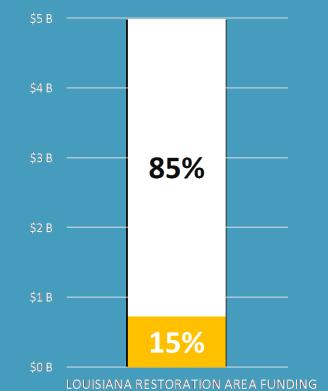
Restoration Implementation Update

Funding Update

\$6 B

 Committed approximately \$744 million for projects and planning activities as of July 2020.

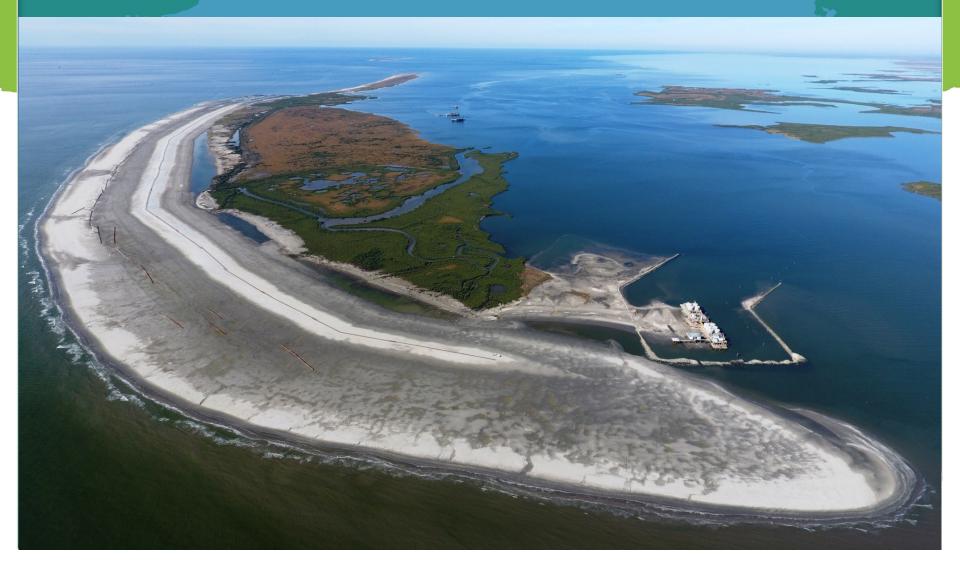
The total allocation is \$5 billion.



Early Restoration Overview

Project	Cost	Status
Lake Hermitage Marsh Creation Project	\$13.2 million	Monitoring
Louisiana Oyster Cultch Placement / Hatchery Project	\$14.8 million	Monitoring
Louisiana Outer Coast Restoration:	\$318 million	
- Caillou Lake Headlands		Monitoring
- Shell Island		Monitoring
- Chenier Ronquille		Monitoring
- Breton Island		In Construction
Early Restoration Total	\$346 million	

Calliou Lake Headland Project



Chenier Ronquille Project

Chenier Ronquille Project

Post Settlement Restoration Planning Activities

Deepwater Horizon NRDA Louisiana Restoration Area

Restoration Plan #1:

Restoration of Wetlands, Coastal, and Nearshore Habitats; Habitat Projects on Federally Managed Lands; and Birds

Restoration Plan #1

Restoration of Wetlands, Coastal, and Nearshore Habitats

- Terrebonne Basin Ridge and Marsh Creation Project:
 Bayou Terrebonne Increment
 - Barataria Basin Ridge and Marsh Creation Project:
 Spanish Pass Increment
 - Lake Borgne Marsh Creation Project:
 Increment One

Habitat Projects on Federally Managed Lands

 Shoreline Protection at Jean Lafitte National Historical Park and Preserve

<u>Birds</u>

- Queen Bess Island Restoration Project
 - Rabbit Island Restoration Project

Restoration Plan #1

Rabbit Island
 Restoration Project

Shoreline Protection at Jean Lafitte National Historical Park and Preserve

> Queen Bess Island Restoration Project

Terrebonne Basin Ridge and Marsh Creation Project: Bayou Terrebonne Increment Barataria Basin Ridge and Marsh Creation Project: Spanish Pass Incremente

Lake Borgne Marsh Creation Project: Increment One



Deepwater Horizon NRDA Louisiana Restoration Area

Restoration Plan #1.1:

Queen Bess Island Restoration

Queen Bess Island



Deepwater Horizon NRDA Louisiana Restoration Area

Draft Restoration Plan #1.2:

Spanish Pass Ridge and Marsh Creation Project and Lake Borgne Marsh Creation Project

Spanish Pass Ridge and Marsh Creation

B2 Borrow Area

Venice

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DDDD Borrow Area

BBBB Borrow Area

Google Earth

Image © 2020 TerraMetrics

10 mi

Deepwater Horizon NRDA Louisiana Restoration Area

Restoration Plan #1.3:

Rabbit Island Restoration and Shoreline Protection at Jean Lafitte National Historical Park and Preserve

Rabbit Island Restoration



Shoreline Protection at Jean Lafitte

Restoration Plan # 2:

Provide and Enhance Recreational Opportunities

Restoration Projects



Deepwater Horizon NRDA Louisiana Restoration Area

Restoration Plan #3:

Barataria Basin Strategic Restoration Plan for the Restoration of Wetlands Coastal, and Nearshore Habitats

Barataria Basin Strategic Restoration Plan

- Strategic Restoration Plan and Environmental Assessment
- For the Restoration of Wetlands, Coastal, and Nearshore Habitats in the Barataria Basin
- Focuses on addressing ecosystem-level injury in Barataria Basin and the Gulf of Mexico

Barataria Basin Strategic Restoration Plan

The Trustees' two decisions:

- 1. A restoration strategy that utilizes a suite of restoration approaches/types, including large-scale sediment diversions to restore deltaic processes, marsh creation, and ridge restoration
- 2. Selected 3 projects for further evaluation and planning:
 Mid-Barataria Sediment Diversion
 Large Scale Marsh Creation: Component E
 Barataria Basin Ridge and Marsh Creation: Spanish Pass Increment

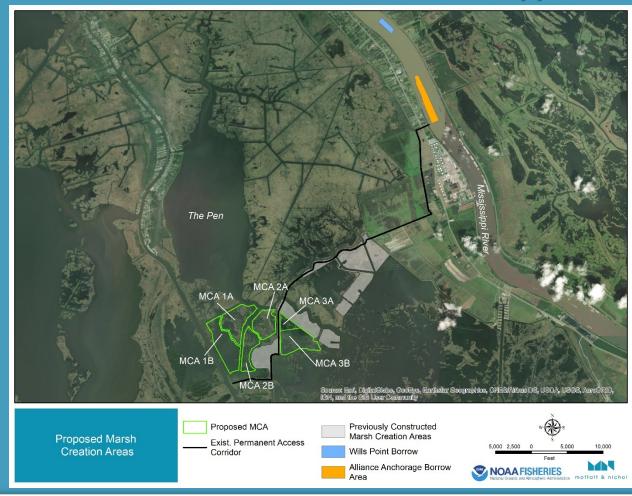
Deepwater Horizon NRDA Louisiana Restoration Area

Restoration Plan #3.3:

Large-Scale Barataria Marsh Creation: Upper Barataria Component

Restoration Plan #3.3

Project will construct 1,207 acres of Marsh in Upper Barataria



Restoration Plan #4:

Nutrient Reduction (Nonpoint Source) and Recreational Use



Nutrient Reduction (Nonpoint Source) Projects

Nutrient Reduction (Nonpoint) Projects

Project Phases:

- Project Guidelines Development
- Outreach and Education
- Implement Baseline Water Quality Monitoring: Current Phase
- Conduct Landowner Sign-up: September & October 2020
- Develop Site Specific Restoration Plans: October 2020
- Landowner Contract/Agreement: November 2020 -TBD
- Site Specific Project Implementation: December 2020 -TBD
- Post-Execution Water Quality Monitoring: TBD

Nutrient Reduction (Nonpoint) Proposed Projects

- Nutrient Reduction on Dairy Farms in St. Helena & Tangipahoa Parishes
 - \$1,000,000 project budget
- Partnering with Capital RC&D & LDEQ to conduct Water Quality Baseline Monitoring
- Nutrient Reduction on Dairy Farms in Washington Parish
 - \$1,000,000 project budget
 - Partnering with Capital RC&D & LDEQ to conduct Water Quality Baseline Monitoring

Nutrient Reduction (Nonpoint) Proposed Projects

- Nutrient Reduction on Cropland and Grazing Land in Bayou Folse
 - USDA has withdrawn \$500,000 of the \$2,500,000 project budget;
 - Partnering with BTNEP/LDEQ to conduct Water Quality Baseline Monitoring
- Winter Water Holding on Cropland in Vermilion and Cameron Parishes Plus Agricultural Best Management Practices
 - USDA has withdrawn \$500,000 of the \$3,000,000 project budget;
 - Partnering with TNC/DU to conduct Water Quality Baseline Monitoring



Recreational Use Restoration Projects

Recreational Use Restoration Projects

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Chitimacha Boat Launch Grand Avoille Boat Launch

Rockefeller Refuge

Cypremore Pt S.P.

AD WMA Campgrounds AD WMA Access

\$38 Million

Middle Pear

Bayou Segñette S.P. WHARF Des Allemands Boat Launch Belle Chasse Jean Lafitte N.P The Wetlands Center

PAC WMA Access/Piers/Launch

Grand Isle S.P. PAL WMA Access PAL WMA Campgrounds

Project Types:

State & Federal Parks WMAs & Refuges **Fishing Access Education & Outreach** *Deepwater Horizon* NRDA Louisiana Restoration Area

Restoration Plan #5:

Living Coastal and Marine Resources – Marine Mammals and Oysters

Restoration Plan #5

Marine Mammals

 Increasing Capacity and Expanding Partnerships along the Louisiana Coastline for Marine Mammal Stranding Response

Oysters

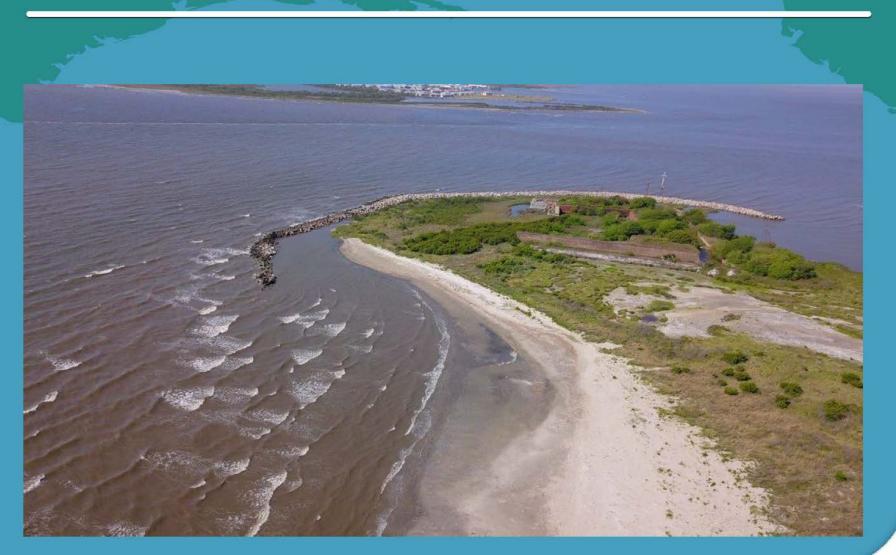
- Enhancing Oyster Recovery Using Brood Reefs
 - Cultch Plant Oyster Restoration Projects
- Hatchery-based Oyster Restoration Projects



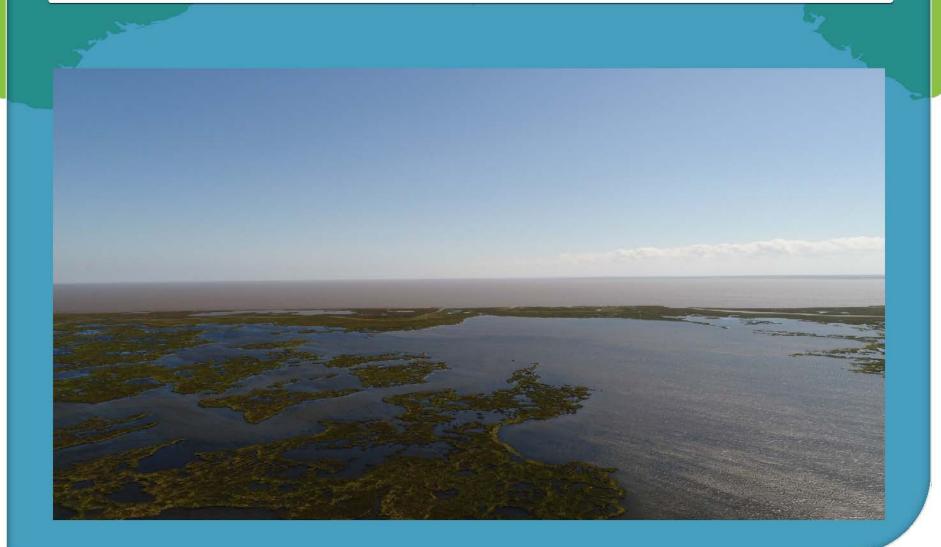
Restoration Plan #6:

Restore and Conserve Wetlands, Coastal, and Nearshore Habitats

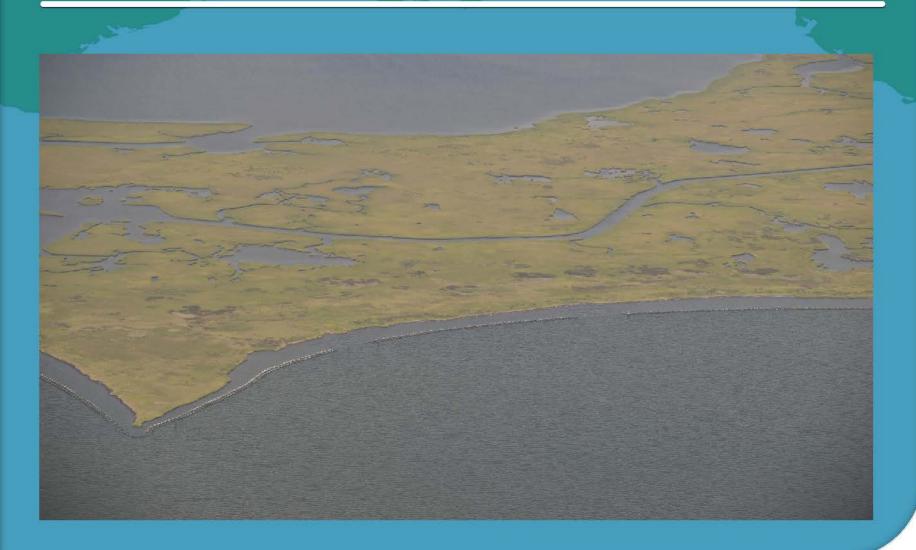
West Grand Terre



Golden Triangle Marsh Creation



Biloxi Marsh Living Shoreline





Monitoring and Adaptive Management

Monitoring & Adaptive Management Strategy Development



- Louisiana Adaptive Management Report identified opportunities to improve and integrate among LA coastal restoration efforts
- Programmatic MAM Strategy addresses key findings, clarifies LA-focused restoration objectives, identifies MAM priorities

Secretive Marsh Birds Monitoring



- Estimate breeding population in Louisiana habitats
- Enhance coastal restoration actions to benefit secretive marsh birds

Fisheries Monitoring



- Fisheries Sampling Gear Comparison: Study identifies best use (and drawbacks) of each nekton sampling method to improve design of project monitoring plans
- Fisheries-Independent Monitoring Program: Collects and assesses changes in fish and shellfish populations along LA coast

Coastwide Reference Monitoring System





 Site-specific data from 390 sites: hydrology, vegetation, soils, elevation change

 Coast-wide data: aerial photos, vegetation cover, elevation



Planned Future Efforts

Restoration Plans in Development

Restoration Plan	Proposed Project Budget
Draft Restoration Plan and Environmental Assessment #1.2 – Lake Borgne and Spanish Pass Marsh Creation Projects	Approximately \$224,000,000
Draft Restoration Plan and Environmental Assessment #7 – Wetlands, Coastal, and Nearshore Habitats and Birds	TBD (Winter 2020)
RP #3.2 – Mid-Barataria Sediment Diversion	TBD

Takeaways

- Louisiana will ultimately have \$5.0B available through NRDA allocated through the Louisiana TIG.
- Slightly under \$1.5B allocated to date.
- Eleven Comprehensive Restoration Plans completed or underway
- 57 projects initiated or completed.

Legend

- Sirds
- 😥 Marine Mammals (Coastwide)
 - Nutrient Reduction
- Oysters
- Recreational Use
- Shoreline Protection
- Wetlands, Coastal, and Nearshore Habitats

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Meeting Materials

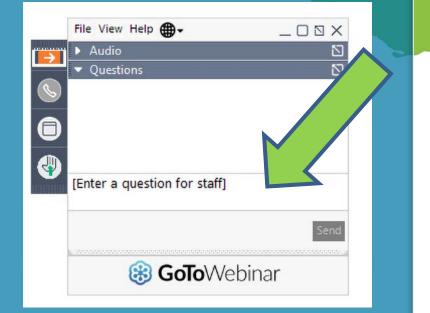
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Comments

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 Comments will be read on the webinar as time allows



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