



***Deepwater Horizon* Natural Resource Damage Assessment**

Louisiana Trustee Implementation Group

2019 Annual Public Meeting

September 26, 2019

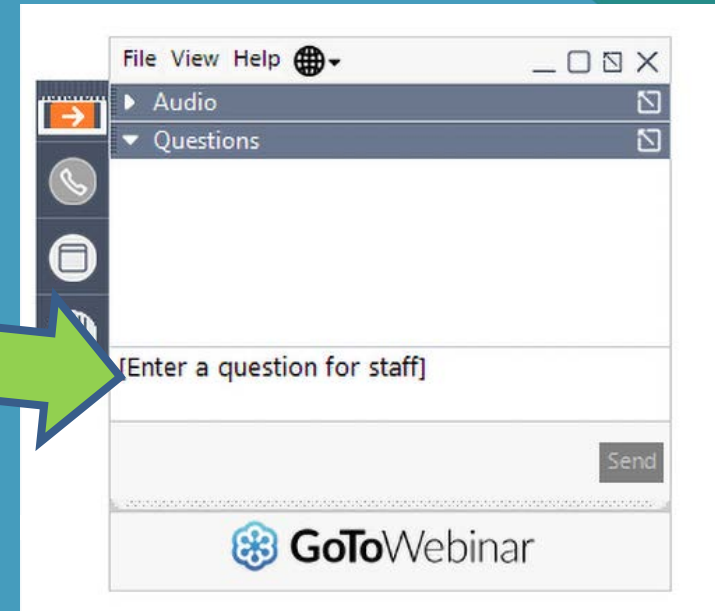


Agenda

- **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 cause by the DWH oil spill**

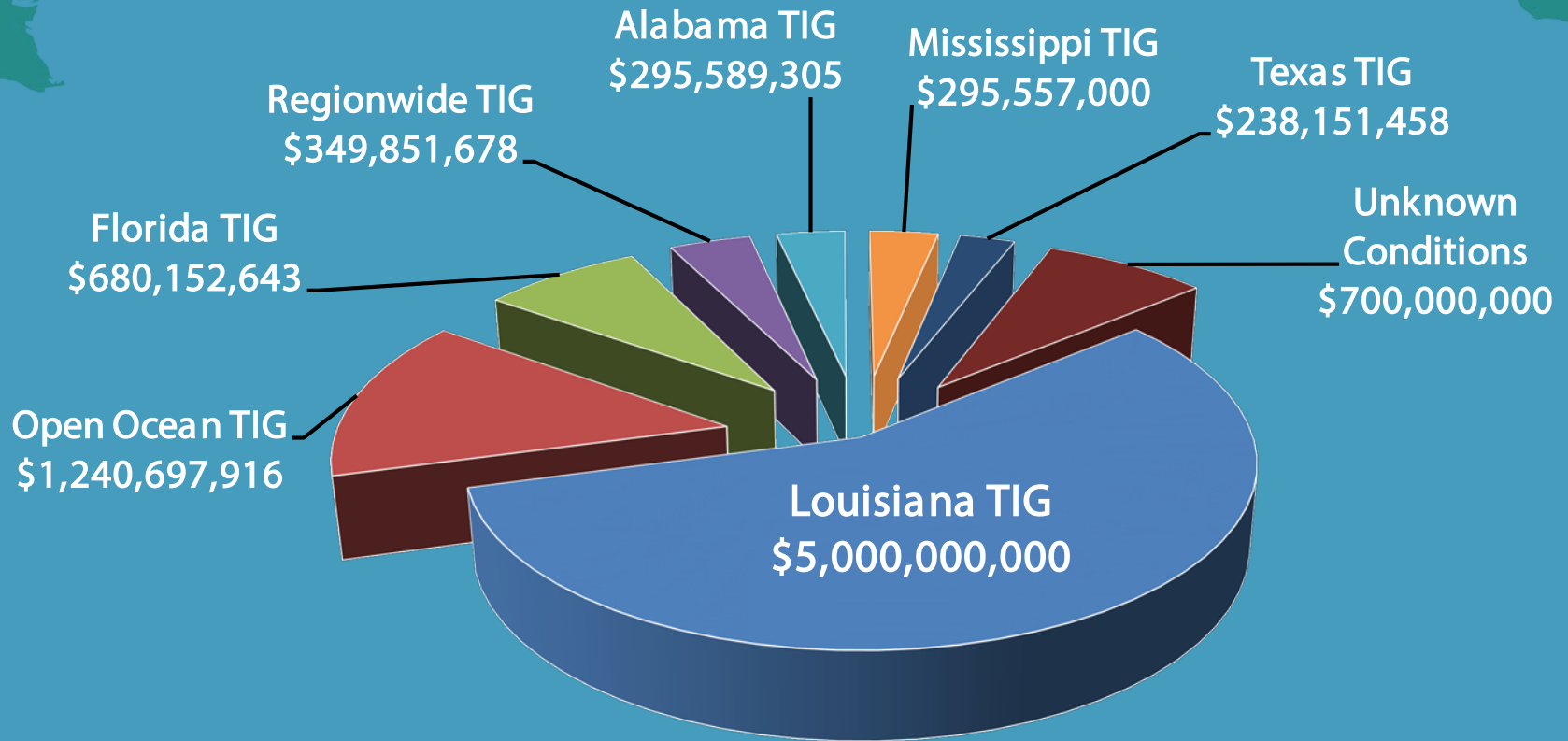
Restoration Funding in Dollars

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 Marine 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 Opportunities									
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 Administrative Oversight									
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	\$680,152,613	\$5,000,000,000	\$95,557,000	\$238,151,458	

* The total restoration funding allocation for the Early Restoration work; each restoration type; and monitoring, adaptive management, and administrative oversight is \$5.1 billion (plus up to an additional \$700 million for adaptive management and unknown conditions).

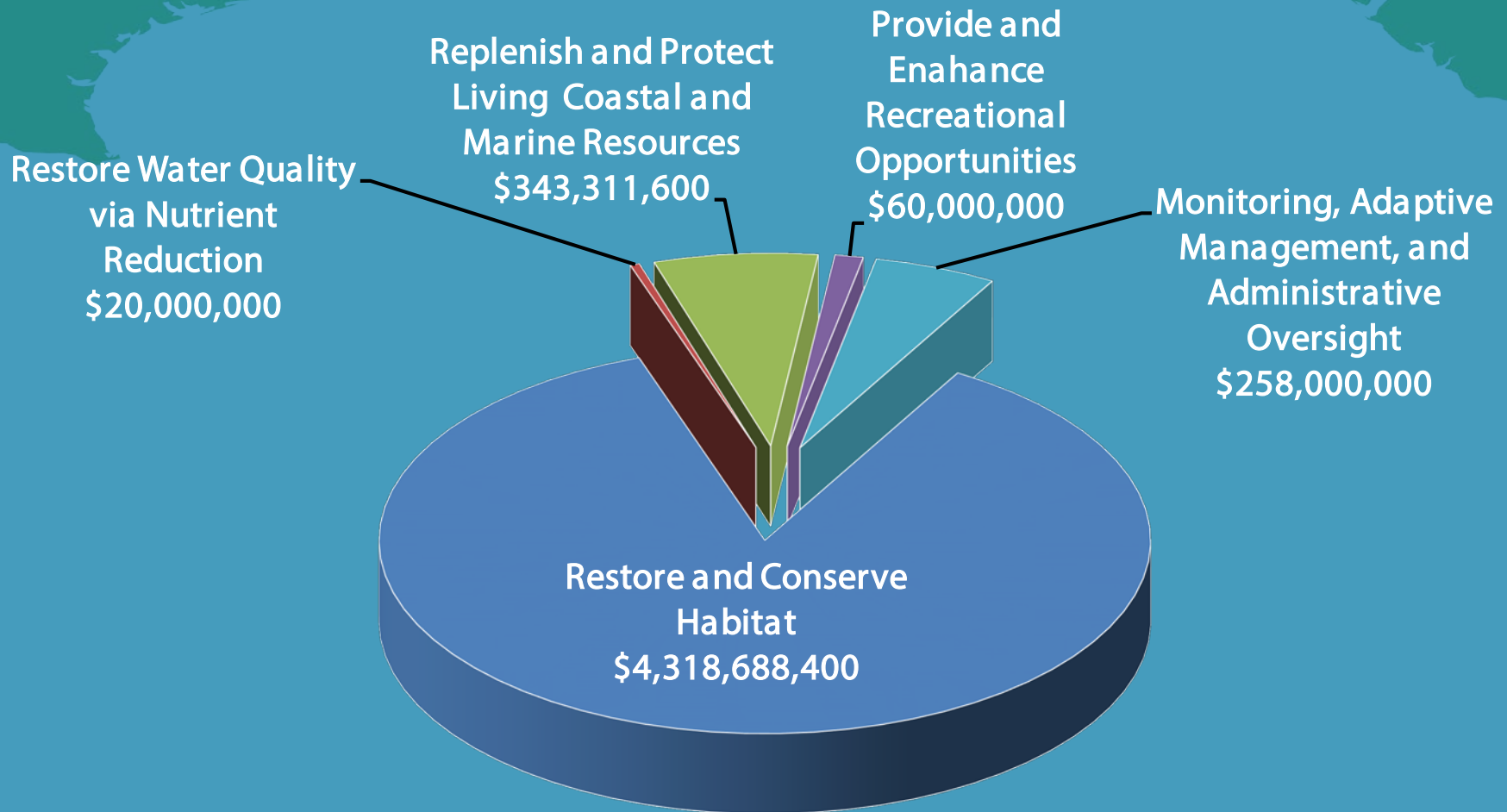


Total Allocation





LA TIG Allocation



Louisiana Restoration Area Representatives



Bren Haase

State of Louisiana

John Tirpak

Department of the Interior

Mel Landry

National Oceanic and Atmospheric Administration

Doug Jacobson

U.S. Environmental Protection Agency

Ron Howard

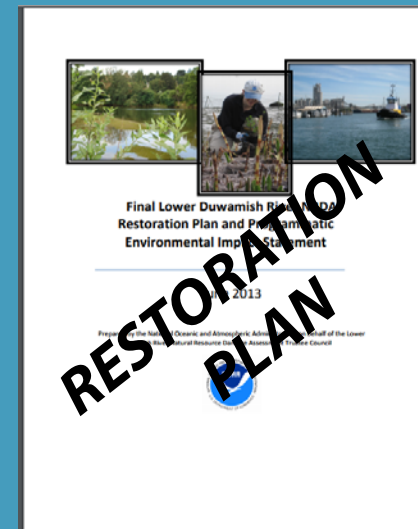
U.S. Department of Agriculture

Typical NRDA & NEPA Process

NRDA



NEPA



DWH Phased NRDA & NEPA Process



**PDARP
(NRDA + NEPA)**

**OPA EVAL
(NRDA)**

**Phase 1
Restoration
Plan
(NRDA)**

**Project
Design +
Enviro
Eval**

**Phase 2
Restoration
Plan (NRDA +
NEPA)**



Construction

Approaches /
Techniques

Solicitation of
Projects

Project
Type/Location
E&D Funding

Design Alts

Selection/
Construction
Funding

Deepwater Horizon NRDA

Louisiana Restoration Area



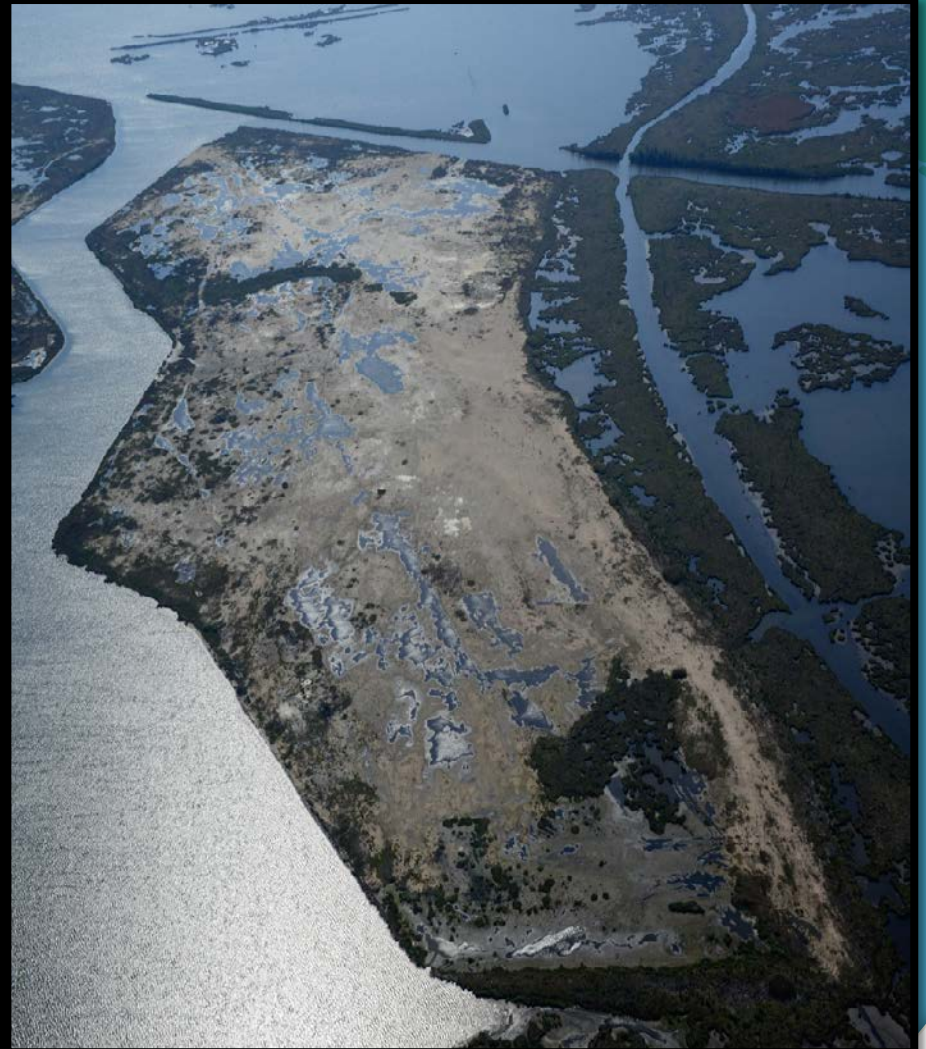
Restoration Implementation Update

Early Restoration Overview

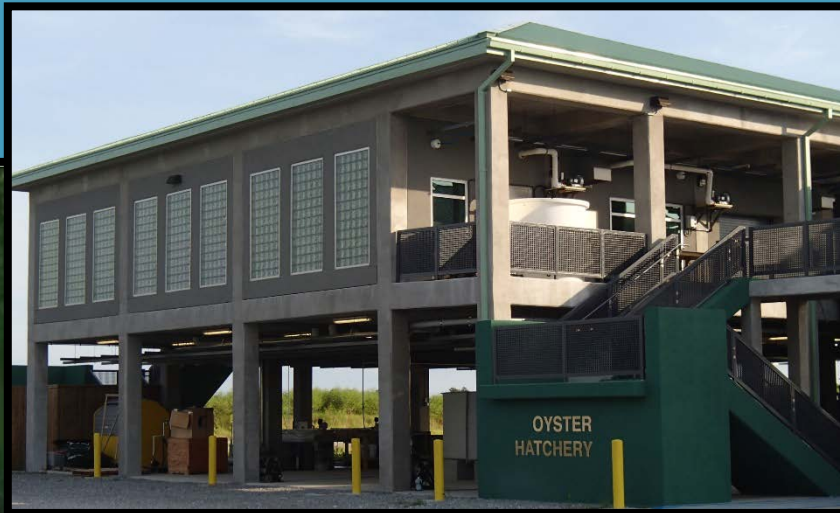
Project	Cost	Status
Lake Hermitage Marsh Creation Project	\$13.2 million	Monitoring
Louisiana Oyster Cultch Placement / Hatchery Project	\$14.8 million	Monitoring
Louisiana Outer Coast Restoration:	\$318 million	--
- Caillou Lake Headlands	--	Monitoring
- Shell Island	--	Monitoring
- Chenier Ronquille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



Lake Hermitage Marsh Creation



Oyster Cultch Placement & Hatchery





Chenier Ronquille Barrier Island





Recent LA TIG Activities

Final Restoration Plan #1: *Habitat and Birds*

Final Restoration Plan #2: *Provide and Enhance Recreational Opportunities*

Final Strategic Restoration Plan #3: *Barataria Basin*

Final Restoration Plan #4: *Nutrient Reduction and Recreational Use*



Recent LA TIG Activities

Final Supplemental Restoration Plan #2:
Provide and Enhance Recreational Opportunities (Elmer's Island)

Final Restoration Plan #1.1: Queen Bess Island Restoration

Final Supplemental Restoration Plan #2:
Provide and Enhance Recreational Opportunities (Lake Charles SCEC)

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

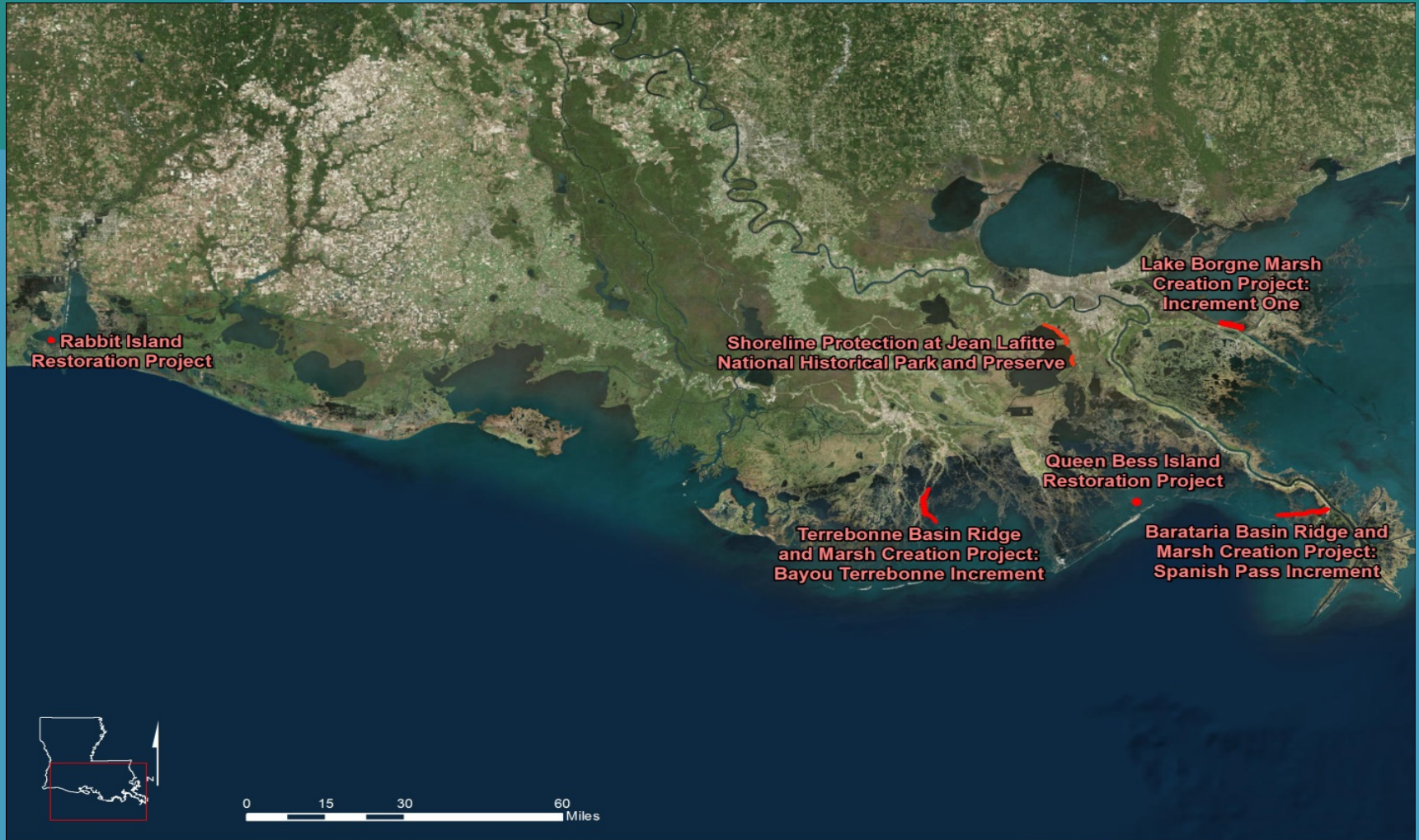
- **Shoreline Protection at Jean Lafitte National Historical Park and Preserve**

Birds

- **Queen Bess Island Restoration Project**
- **Rabbit Island Restoration Project**



Restoration Plan #1



Restoration Plan # 2:

Provide and Enhance Recreational Opportunities



Proposed Restoration Projects





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**

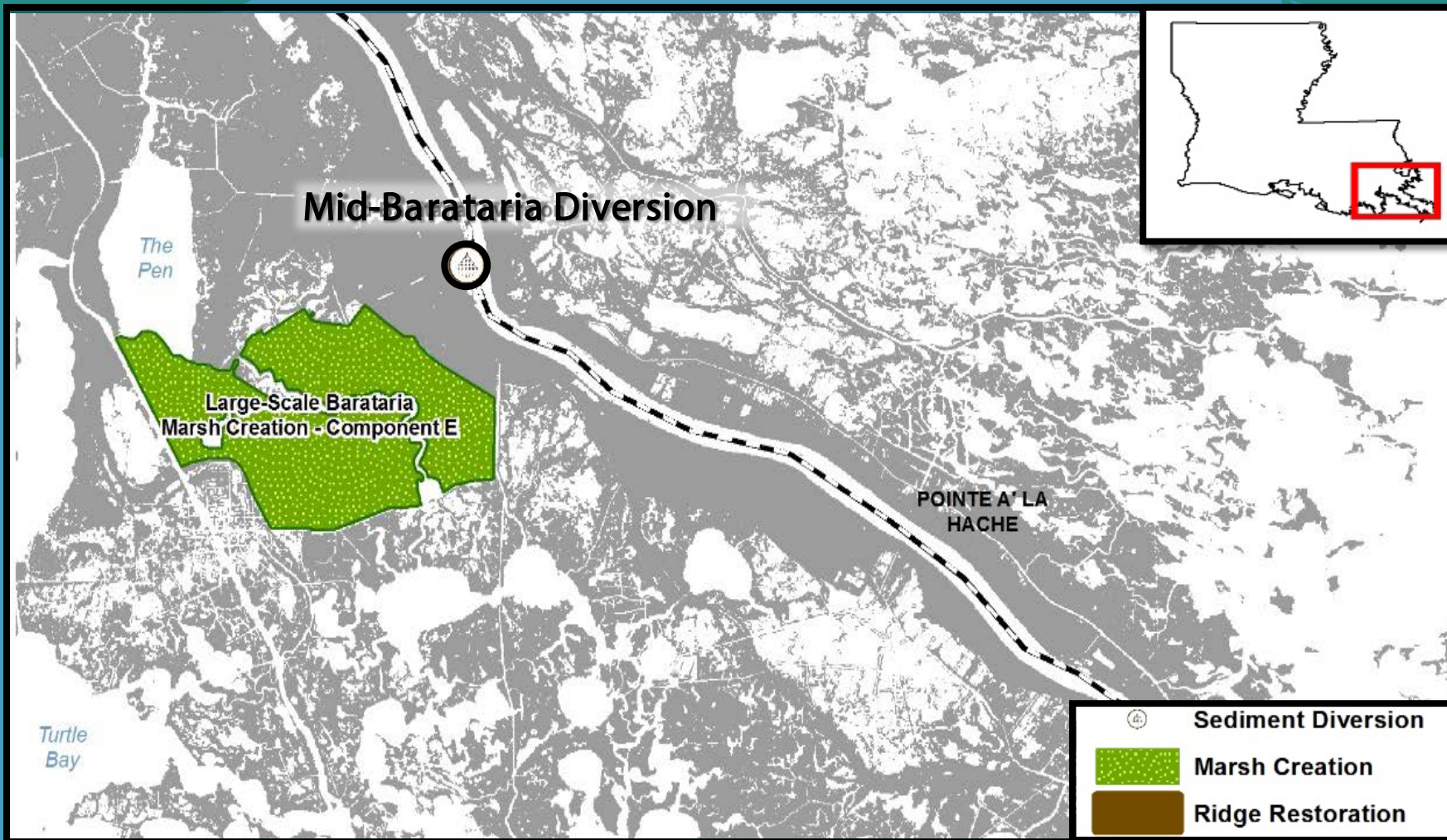
Barataria Basin Strategic Restoration Plan



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***

Projects for Further Restoration Planning



Restoration Plan #4:

Nutrient Reduction (Nonpoint Source) and Recreational Use



Nutrient Reduction (Nonpoint) Projects

Nutrient Reduction (Nonpoint) Proposed Projects

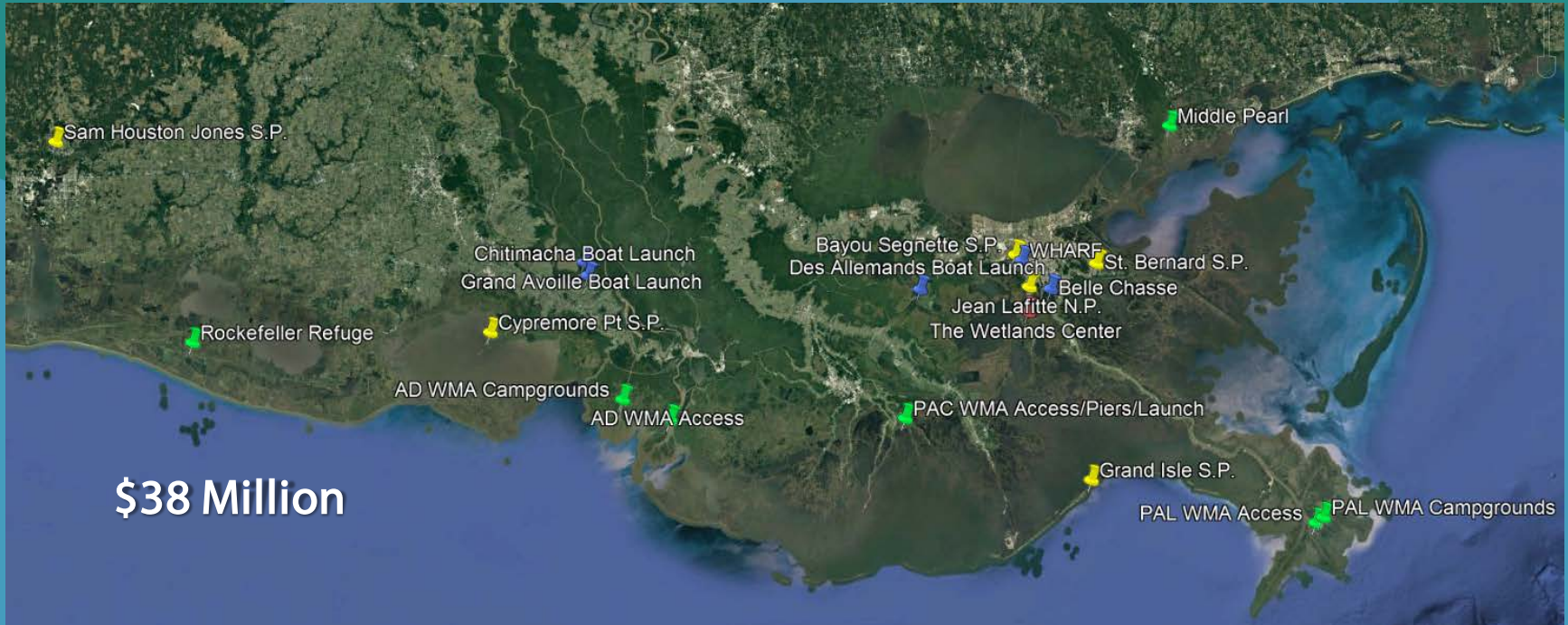


- **Nutrient Reduction on Dairy Farms in St. Helena & Tangipahoa Parishes**
- **Nutrient Reduction on Dairy Farms in Washington Parish**
- **Nutrient Reduction on Cropland and Grazing Land in Bayou Fosse**
- **Winter Water Holding on Cropland in Vermilion and Cameron Parishes Plus Agricultural Best Management Practices**



Recreational Use Restoration Projects

Recreational Use Restoration Projects



\$38 Million

State & Federal Parks

WMAs & Refuges

Fishing Access

Education & Outreach

Project Types:



Recreational Use Projects: State and Federal Parks

1. Grand Isle State Park
2. Sam Houston Jones State Park
3. Bayou Segnette State Park
4. St. Bernard State Park
5. Cypremort Point State Park
6. Jean Lafitte National Historical Park and Preserve

Recreational Use Proposed Projects: WMAs and Refuges



1. Pass-a-Loutre WMA - Access Improvements
2. Pass-a-Loutre WMA- Campground Improvements
3. Pointe-aux-Chenes WMA – Recreational Use Enhancement
4. Atchafalaya Delta WMA – Access Improvements
5. Atchafalaya Delta WMA – Campground Improvements
6. Rockefeller Wildlife Refuge – Fishing Piers / Signage
7. Pearl River Wildlife Management Area – Middle Pearl Boat Launch



Recreational Use Projects: Fishing Access

1. Chitimacha Boat Launch
2. WHARF Phase 1
3. Des Allemands Boat Launch
4. Grand Avoille Boat Launch
5. Belle Chasse Boat Launch

Recreational Use Projects: Educational & Outreach



The Wetlands Center

- ❖ Construct New Educational and Cultural Venue
- ❖ Create Wetland and Natural History Exhibits
- ❖ Promote Education and Awareness of Louisiana's Natural Resources



Planned Future Efforts



Future Restoration Plans

- ❖ **Restoration Plan 1 - Phase II Plan(s)**
 - ❖ Evaluation of design alternatives for the remaining 5 projects in Restoration Plan 1 - Phase I

- ❖ **Restoration Plan 3 (Barataria Strategic Plan) – Phase II Plans**
 - ❖ Evaluation of design alternatives for Large-scale Barataria Marsh Creation - Component E
 - ❖ Evaluation of alternatives for the Mid-Barataria Sediment Diversion



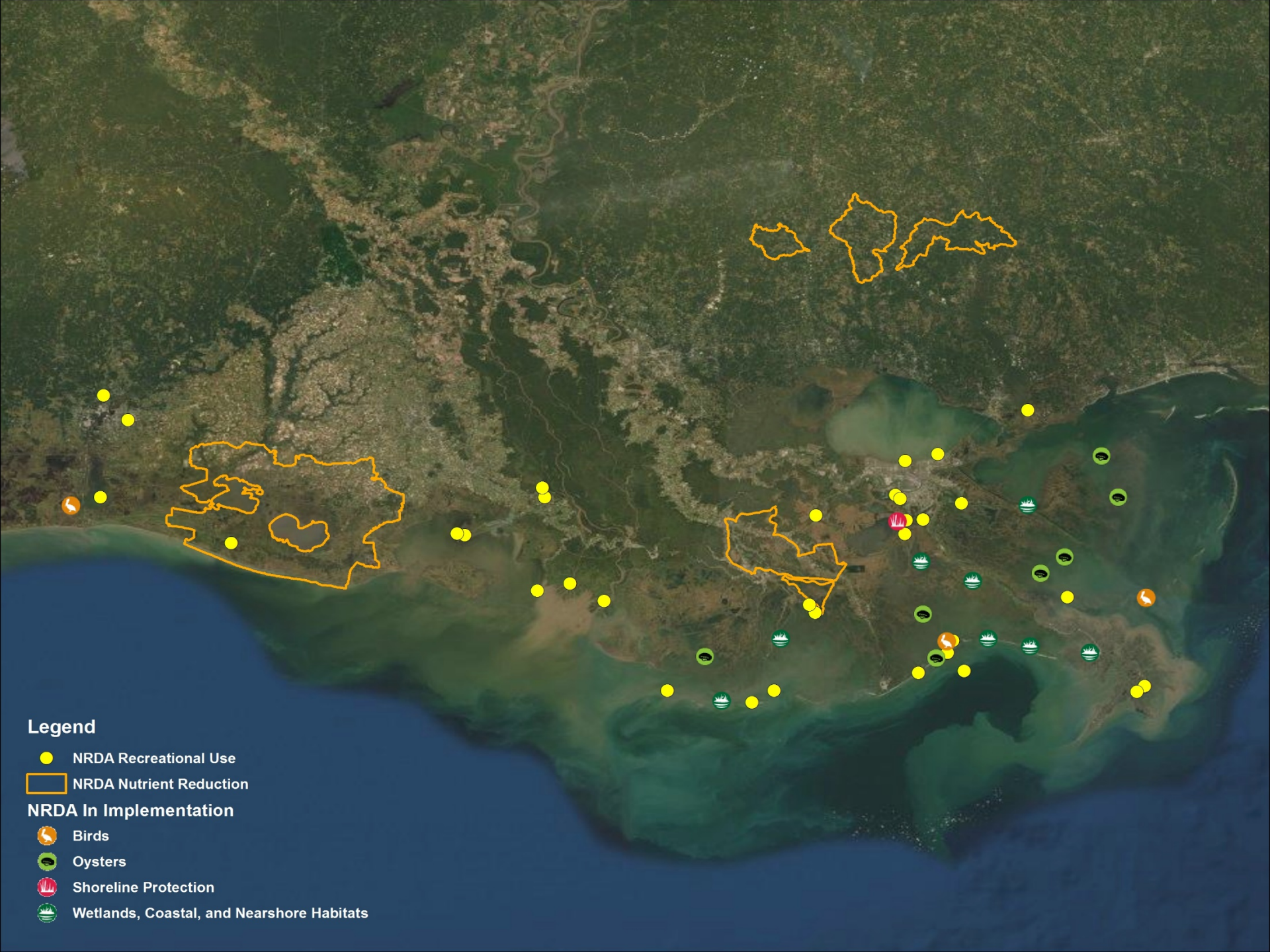
Future Restoration Plans

- ❖ **Restoration Plan 5**

- ❖ Evaluation of Oysters & Marine Mammals

- ❖ **Restoration Plan 6**

- ❖ Evaluation of Wetlands, Coastal, Nearshore Habitat projects in Terrebonne, Lafourche, Jefferson, Orleans, Plaquemines, and St. Bernard Parishes



Legend

- NRDA Recreational Use
- ▭ NRDA Nutrient Reduction
- NRDA In Implementation**
- 🐦 Birds
- 🦪 Oysters
- 🏠 Shoreline Protection
- 🌳 Wetlands, Coastal, and Nearshore Habitats



Meeting Materials

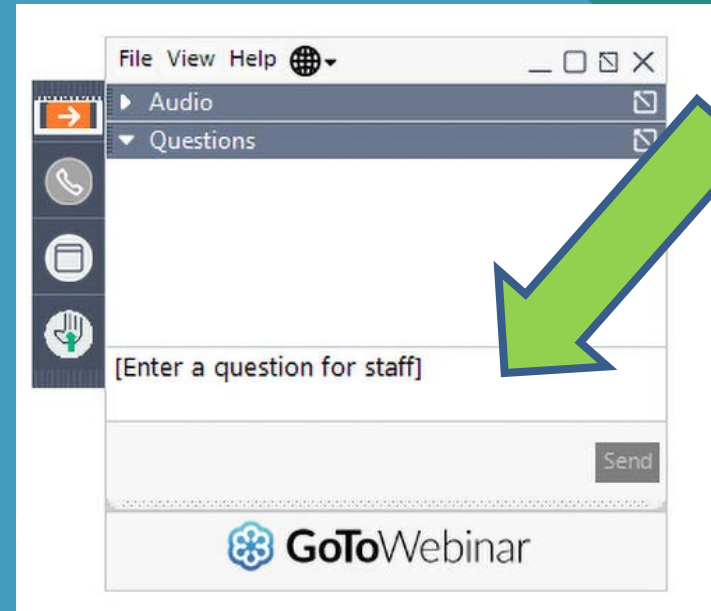
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Comments

- Please use the “Questions” box to type comments for Trustee staff
- Comments will be read on the webinar as time allows





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