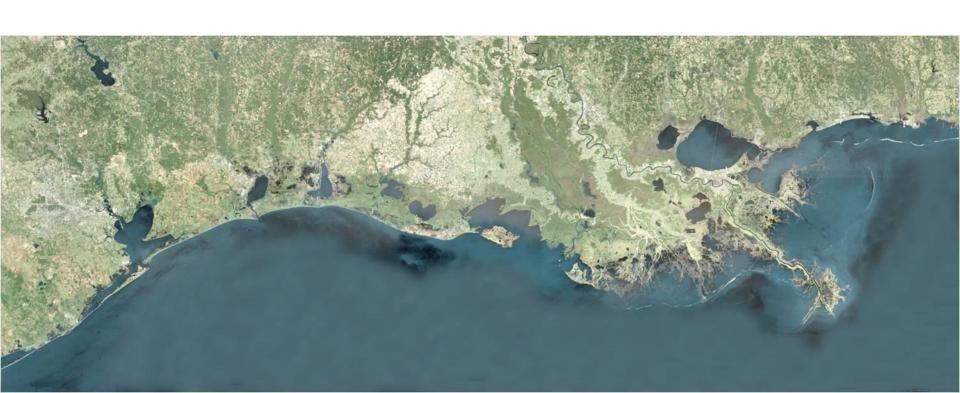


St. Tammany Region Projects

John Troutman
CPRA Operations Division
July 17, 2013



Update on activities in the region includes:

- 1. Two studies/plans
 - one recently completed
 - one ongoing
- 2. Restoration Projects
 - Recent past and near future
 - Federal, State, and Local
 - Various stages (Planning Construction)
- 3. Master Plan projects further out



June 15, 2012

Final Report

NORTHSHORE HURRICANE/FLOOD PROTECTION/RESTORATION PLAN

Prepared by:

G.E.C., Inc. 8282 Goodwood Boulevard Baton Rouge, Louisiana 70806

Prepared for:

St. Tammany Parish and Tangipahoa Parish

Sponsor:

Louisiana Coastal Protection and Restoration Authority

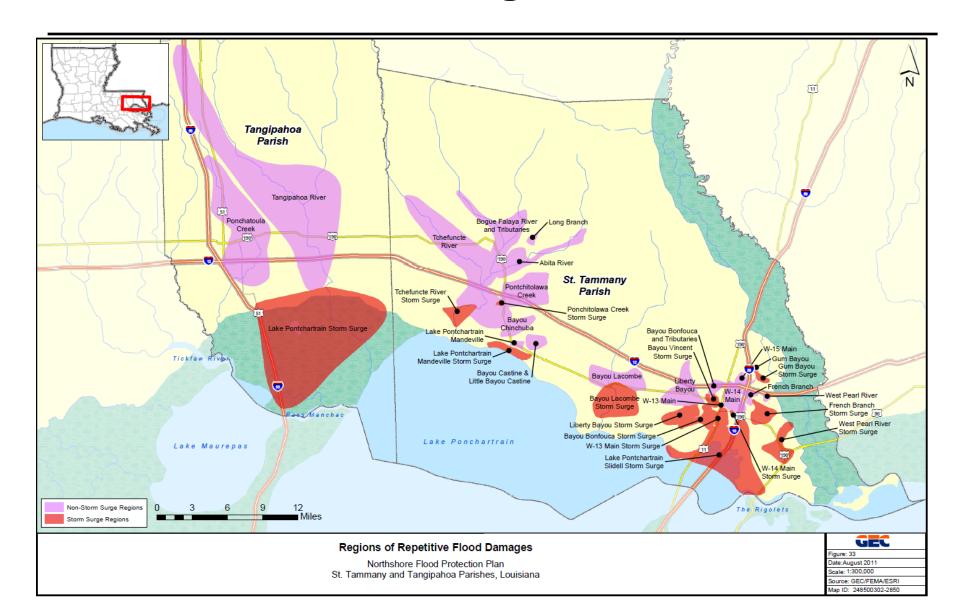
Office of the Governor - Coastal Activities P.O. Box 44027 Baton Rouge, Louisiana 70804-4027

North Shore Hurricane/Flood Protection Plan (PO-74) Overview

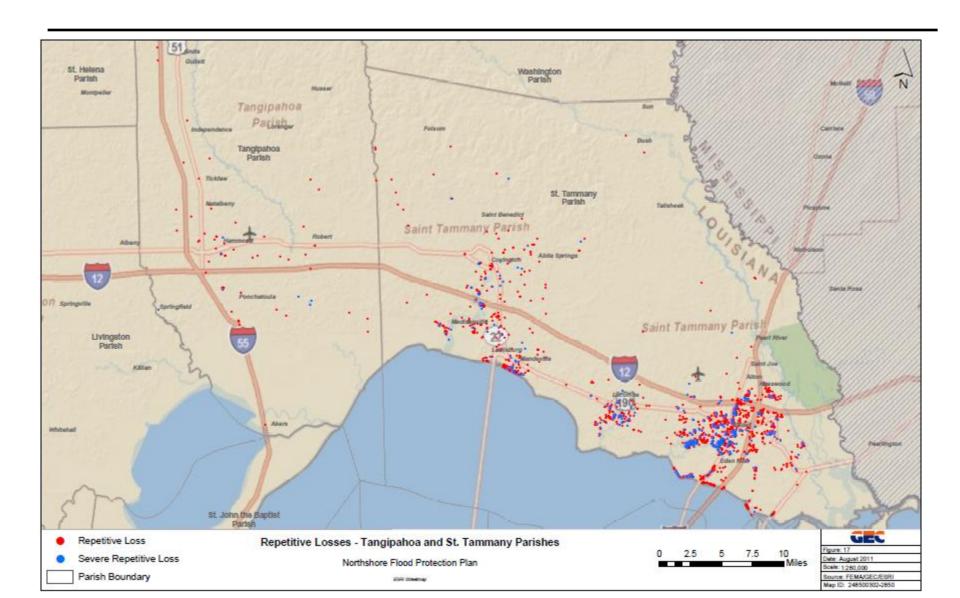
Scope of the Plan:

- Assess Northshore area flood risk
- Evaluate existing drainage, flood protection, coastal restoration projects and other data
- Recommend actions

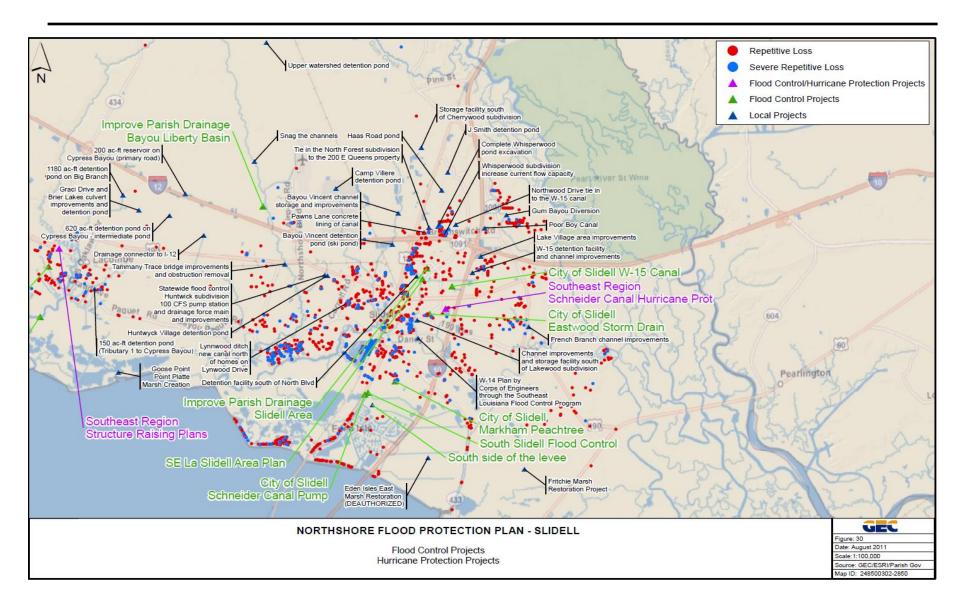
Identified Flood Prone Areas and Flooding Sources



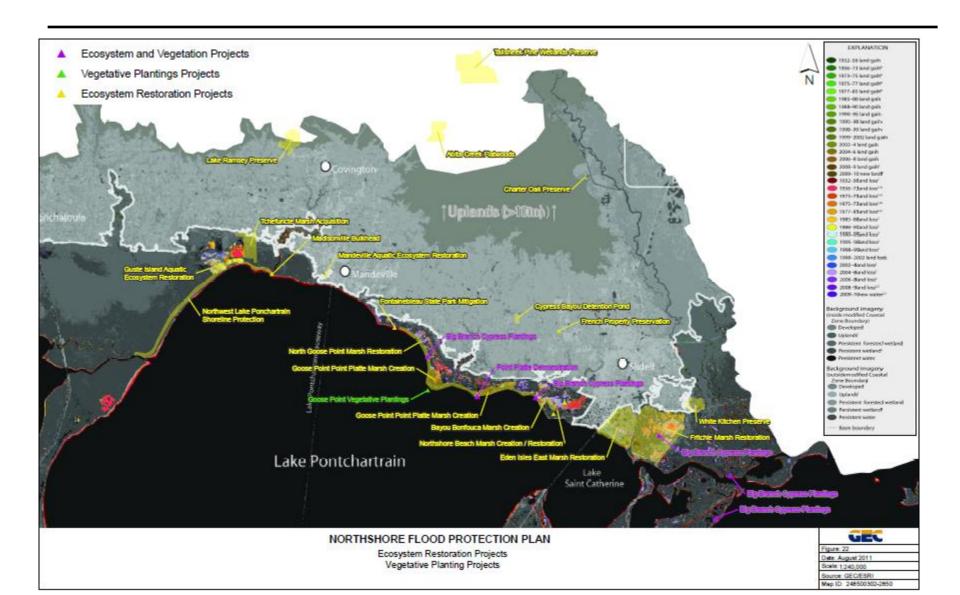
Reviewed Repetitive Flood Losses



Evaluated Hurricane/Flood Control Projects with Repetitive Loss Data



Evaluated Restoration Projects for Potential Flood Reduction Benefits



Recommended Mitigation Focus Areas and Projects (partial list)

Table 14. Summary of Results for Mitigation Focus Areas						
Area	Causes	Type of Flood Event	Social Venurability	Economic Venurability	Treatments	Projects
Abita River	Large rain events	Headwater	Low to Medium	Low	Elevate Relocate Flood proofing	SELA Structure Raising Stormwater detention ponds
Bayou Bonfouca and Tributaries Storm Surge	Hurricanes	Stormsurge	High	Low	Elevate Relocate	N/A
Bayou Bonfouca and Tributaries	Large rain events	Headwater Backwater	High	Low	Elevate Relocate Flood proofing	Bayou Vincent Hannel Storage and Impovement: Bayou Vincent Detention Pond
Bayou Castine/Little Bayou Castine	Large rain events	Headwater	High	Low	Elevate Relocate Flood proofing	New Canaan Hills Detention Facilities New Channel Improvements Quail Creek/Hidden Pines Detention Facility
Bayou Chinchuba	Large rain events	Headwater	Low	Low	Elevate Relocate Flood proofing Further drainage investigations	SELA Bayou Chinchuba Structure Raising Plan Controls at the Lakes at Green leaves
Bayou Lacombe Storm Surge	N/A	Stormsurge	High	Low	Elevate Relocate	Improve Parish Drainage Capacity Priority #1 SELA Lacombe Area Structure Raising Plan
Bayou Lacombe	Large rain events	Headwater	High	Low	Elevate Relocate Flood proofing	SELA Structure Raising
Bayou Vincent Storm Surge	N/A	Stormsurge	Low	Low	Elevate Relocate	N/A
Bogue Falaya River	Large rain events	Headwater Backwater	Low	Low	Elevate Relocate Flood proofing	City of Covington Haxard Mingation SELA Mile Branch Plan Tchefincte River and Bogue Falaya Navigation and Flood Control Project
French Branch Storm Surge	Large rain events	Stormsurge	High	High	Elevate Relocate	French Branch Cannel Improvement
French Branch	Large rain events	Headwater Backwater	High	High	Elevate Relocate Flood proofing Further drainage investigations	Lake Village Area Improvements W-15 Detention Facility
Gum Bayou Storm Surge	N/A	Stormsurge	High	High	Elevate Relocate	N/A
Gum Bayou	large rain events	Headwater Backwater	High	High	Localized drainage investigations	Gum Bayou Diversion
Liberty Bayou Storm Surge	N/A	Stormsurge	High	High	Elevate Relocate	N/A
Liberty Bayou	Large rain events	Headwater Backwater	High	High	Elevate Relocate Flood proofing	Tammany Trace Bridge Improvements and Obstruction Removal Bayou Liberty Basin
Long Branch	Large rain events	Headwater	Low	Low	Elevate Relocate Flood proofing	SELA Abita Springs Structure Raising Plan
Lake Pontchartrain/Mandeville Storm Surge	N/A	Storm surge	Low	Low	Elevate Relocate	Rejected proposed levee
Lake Pontchartrain/Mandeville	Large rain events	Headwater	Low	Low	Elevate Relocate Flood proofing	Labarre Street Deternion Pond and Channel Improvements Woodlands Deternion Pond and LBC HMGP Project Decommissioned SELA WWTP shadge pond
Pontchartrain/Slidell Storm Surge	N/A	Stormsurge	High	High	Elevate Relocate	SELA Mandeville Hurricane Protection Plan SELA Schmeider Canal Hurricane Protection STP South Sidell Levee MP City of Skidell Schmeider Canal Pump improvements

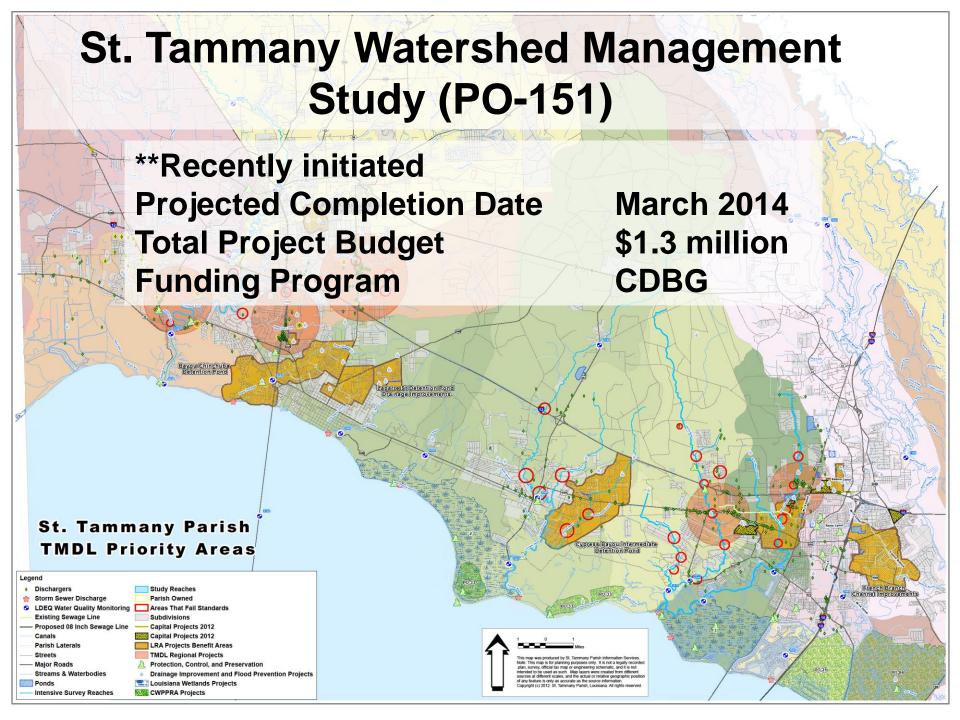
STATUS OF PROJECTS IDENTIFIED IN THE NORTHSHORE PLAN

Projects in Engineering and Design:

- Levee Segment 2B and Schneider Canal Fronting Protection
- Channel Relocation North of Cloverland

Constructed Projects:

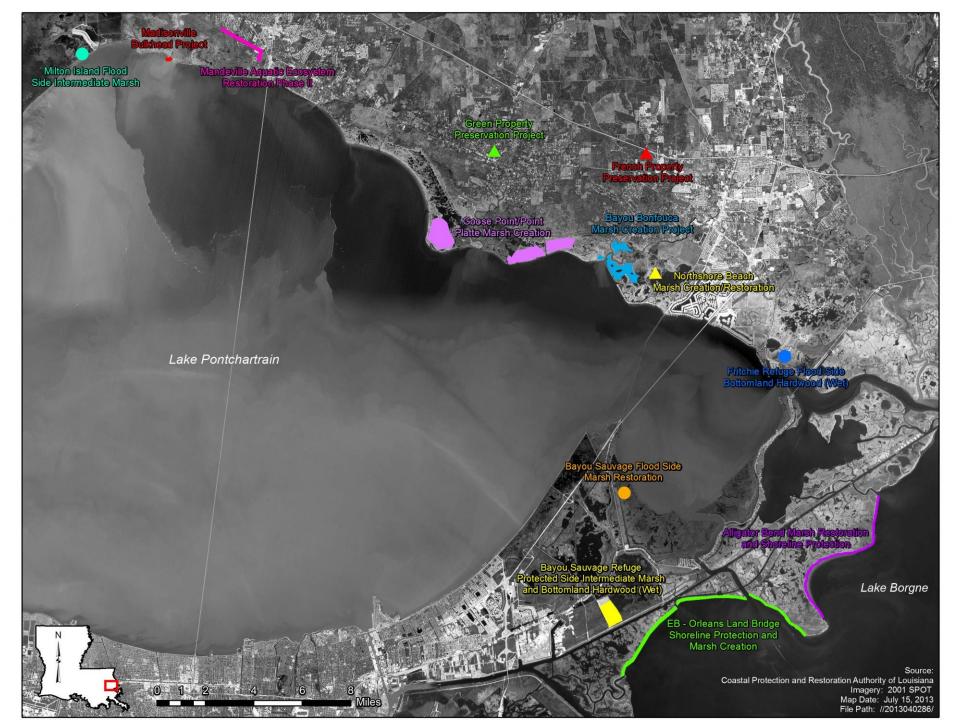
- Levee Segments 2A, 3B and 3C
- Graci Drive Culvert Improvements
- Whisperwood Pond
- Cypress Bayou Pond
- Tammany Hills Detention Pond
- Labarre Street Detention Pond and Channel Improvements (under construction)



St. Tammany Watershed Management Study (PO-151)

- Prioritize projects for combined water resource management
 - Wetland Restoration
 - Storm Surge Protection
 - Urban Growth
 - Storm Water Runoff and Water Quality
 - Drainage
- Study Features:
 - Data Collection and Model Application
 - Alternatives Evaluation
 - Prioritization of projects

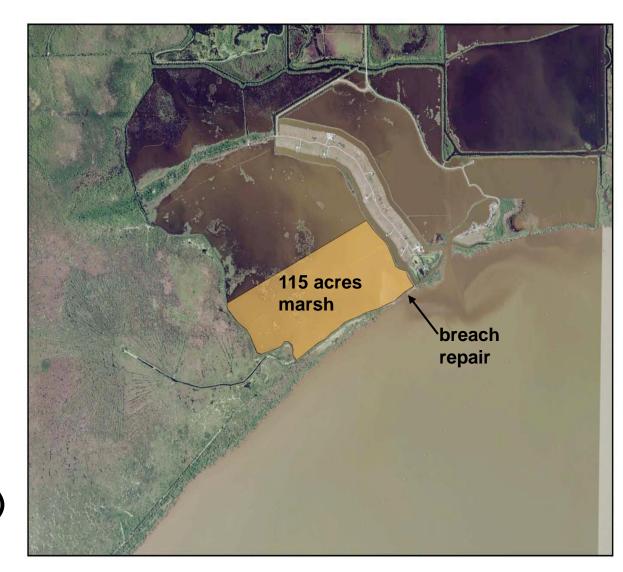
Coastal Restoration Projects 2009 - Present



Milton Island Marsh (PO-121-MIM)

Project Features

- 115 acres of intermediate marsh creation with vegetation planting
- Repair of breach in the lake rim
- Maintain lake rim and protect adjacent hardwood sites
- Corps of Engineers
 Mitigation Project
 (GNO HSDRRS LPV)



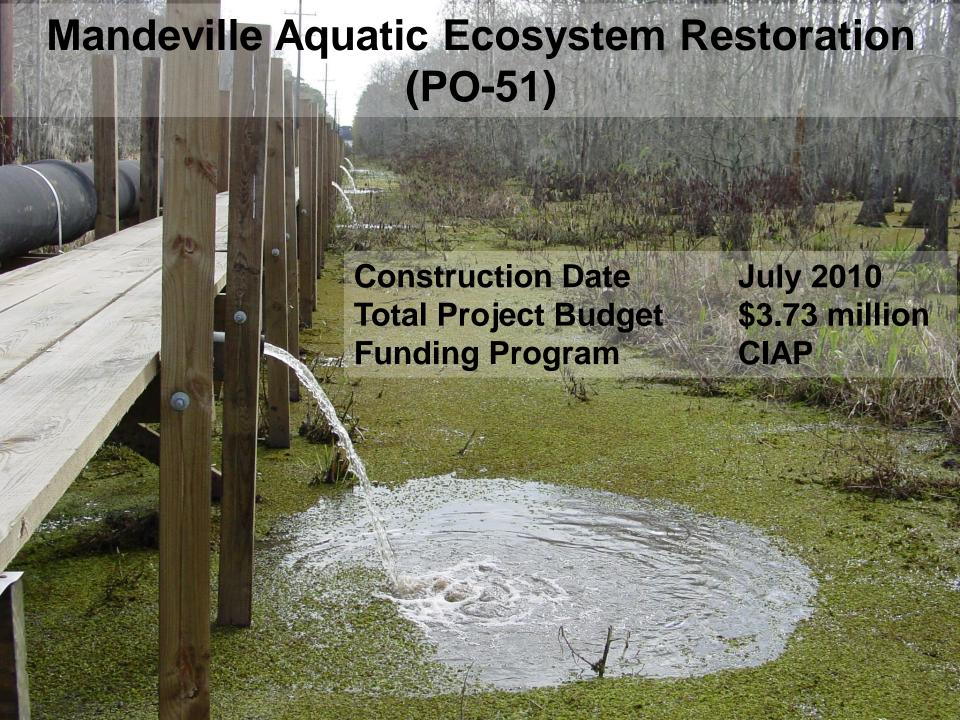
Status: Planning

Madisonville Bulkhead (PO-87)

- Replace 800 linear feet of bulkhead and timber dock
- Multiple Funding Sources: CDBG, State Surplus, LDOTD
- Total Budget: \$2.3 million
- Status: In Construction
- Projected completion:
 December 2013

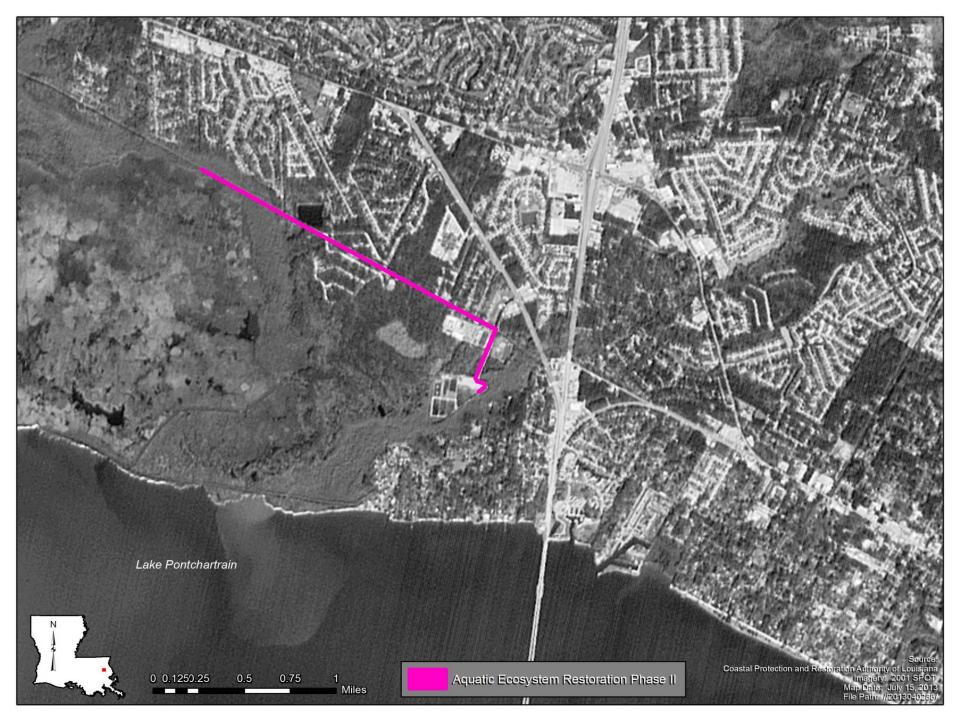


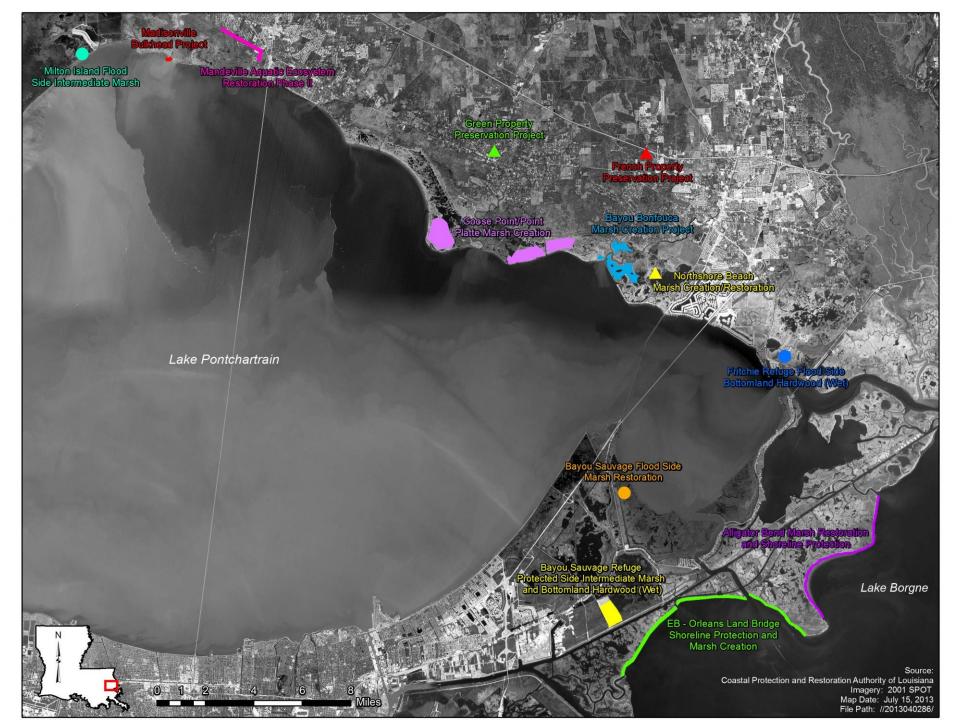




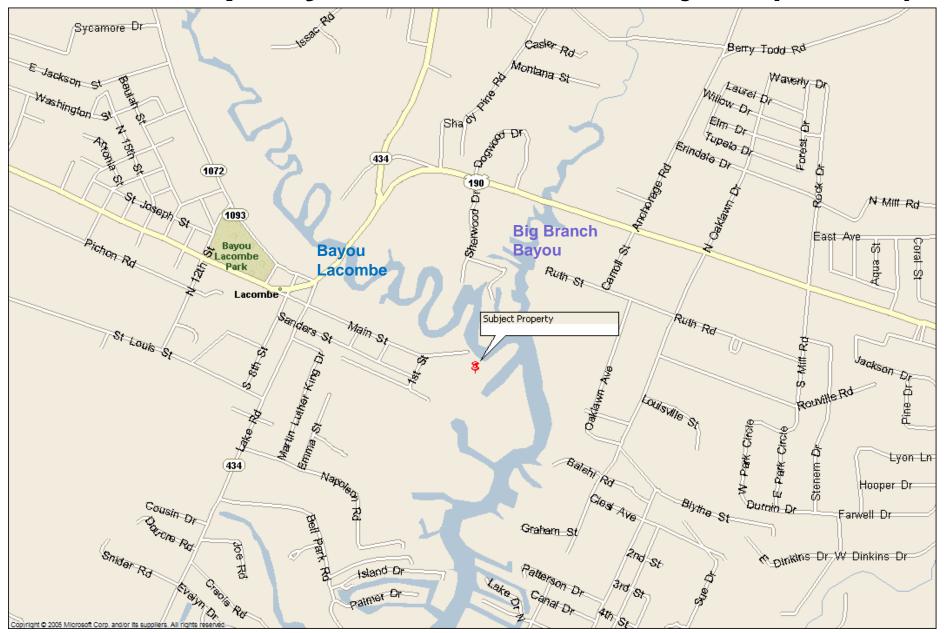
Mandeville Aquatic Ecosystem Restoration (PO-51)

- Upgraded existing wastewater treatment plant
- Biological wastewater treatment feature 2.5
 miles of force main was built to distribute treated
 effluent into 1.7 square miles of wetlands west of
 the city
- The project DOUBLED the city's wastewater intake capacity and provides benefits to adjacent wetlands



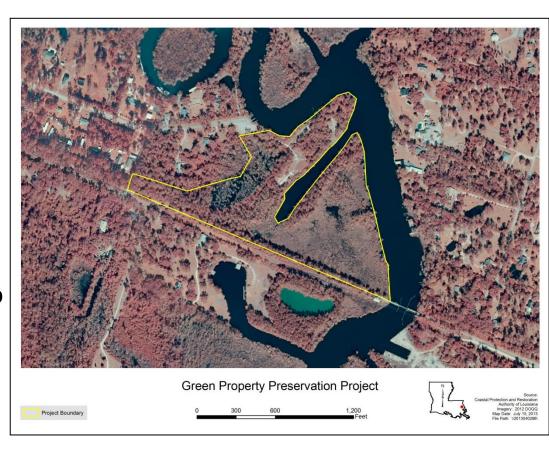


Green Property Preservation Project (PO-48)



Green Property Preservation (PO-48)

- St. Tammany purchased property (27 acres) to prevent development
- Protect cypress swamp and BHW habitats and benefit wildlife
- Funding Program: CIAP
- Cost: \$1.35 Million
- Completed August 2011

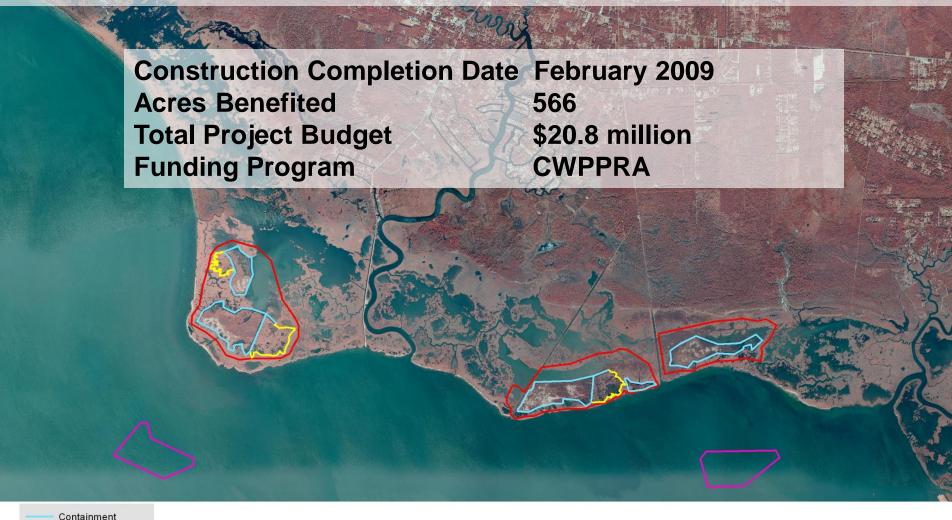


French Property Preservation (PO-48)

- St. Tammany purchased property (39.5 acres) to prevent development
- Protect mixed hardwood and pine savanna and benefit wildlife
- Provide easements for increased public access
- Funding Program: CIAP
- Cost: \$1.72 Million
- Completed August 2011



Goose Point-Point Platte Marsh Creation (PO-33)



Containment

Marsh Nourishment

Marsh Creation

Borrow Site

Project Boundary

Goose Point/Point Platte Marsh Creation Project



Source Coastal Protection and Restoration Authority of Louisians Imagery: 2012 DOQC Map Date: July 15, 2011 File Path: W2013040288



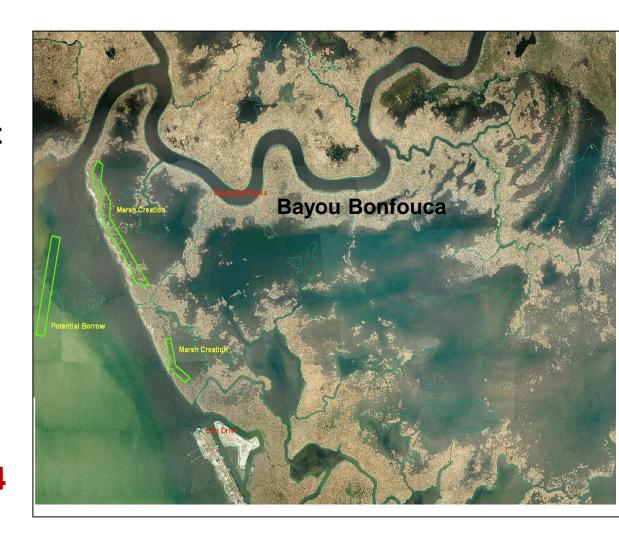
Goose Point – Point Platte Marsh Creation (PO-33)





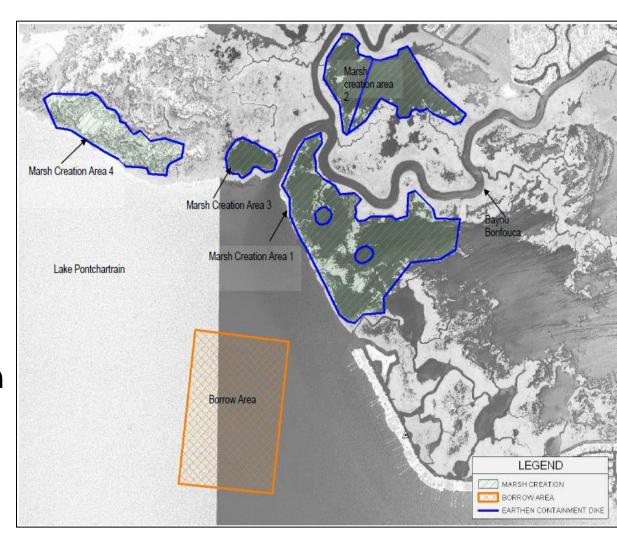
Northshore Beach Marsh Restoration (PO-70)

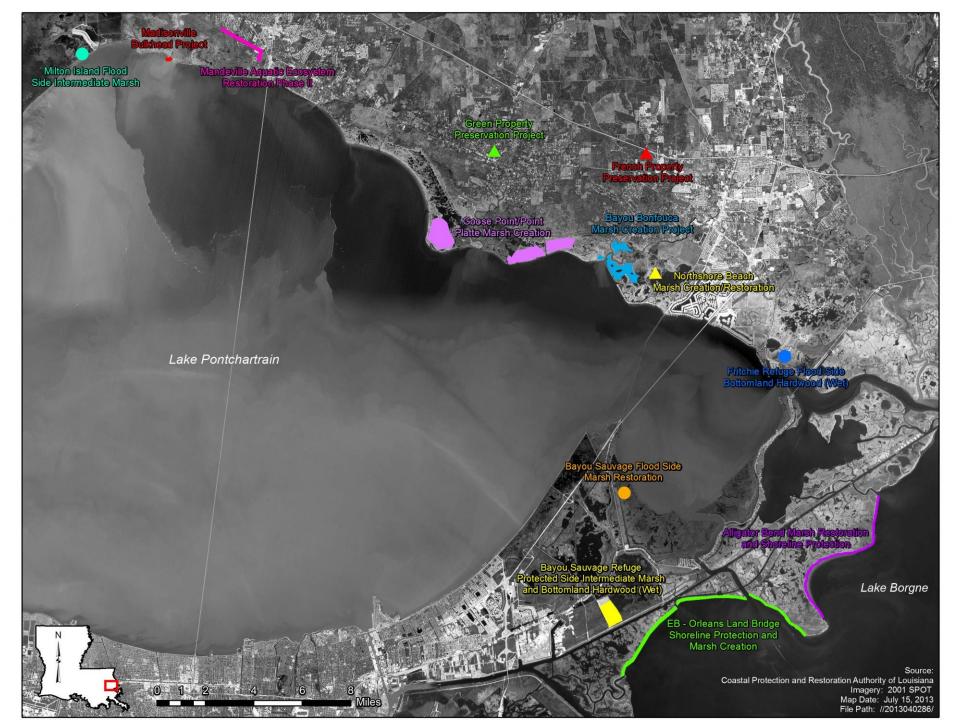
- Create 40 acres of marsh to restore lake rim and protect interior marshes
- Funding Program:
 CIAP (Parish)
- Cost: \$1.86 Million
- Status: E&D; to be merged with PO-104



Bayou Bonfouca Marsh Creation (PO-104)

- 600 acres of marsh creation along the lake rim and further interior
- Funding Program: CWPPRA
- Cost: \$28.02 Million
- Status: E&D; to be merged with PO-70





Bayou Sauvage Intermediate Marsh and Bottomland Hardwood (PO-121-BSPS)

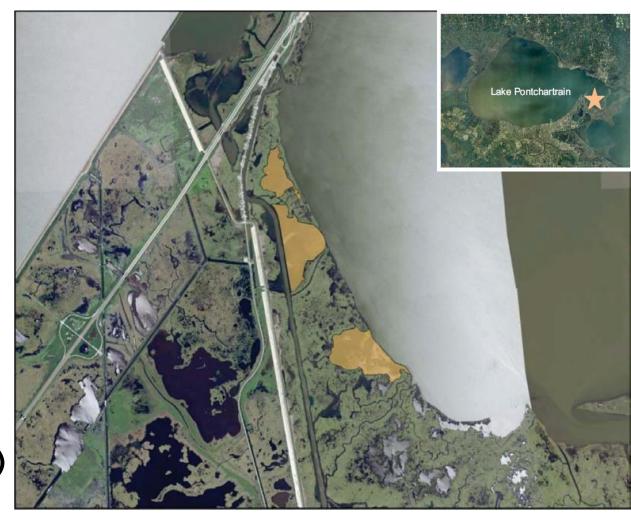
- Create (348 acres)
 BHW and marsh
 habitat
- Areas planted with native hardwoods and marsh vegetation
- Corps of Engineers
 Mitigation Project
 (GNO HSDRRS LPV)
- Status: Planning



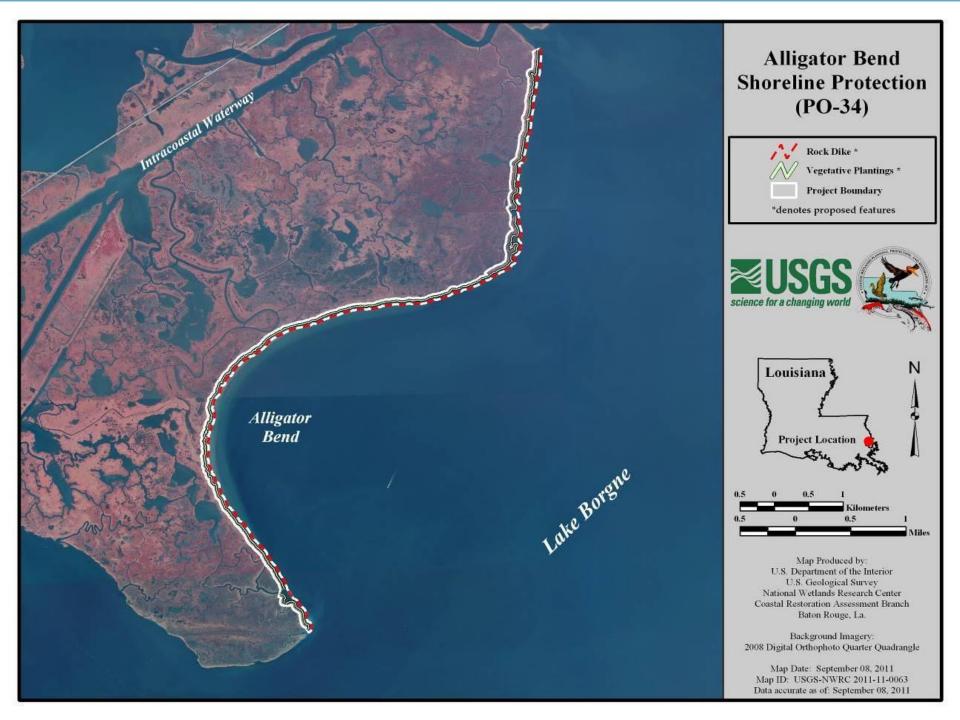
Bayou Sauvage Flood Side Marsh Restoration (PO-121-BSFS)

Project Features

- 302 acres of brackish marsh creation
- Areas planted with marsh vegetation
- Construction and repair of rock dikes along Lake Pontchartrain
- Corps of Engineers
 Mitigation Project
 (GNO HSDRRS LPV)



Status: Planning

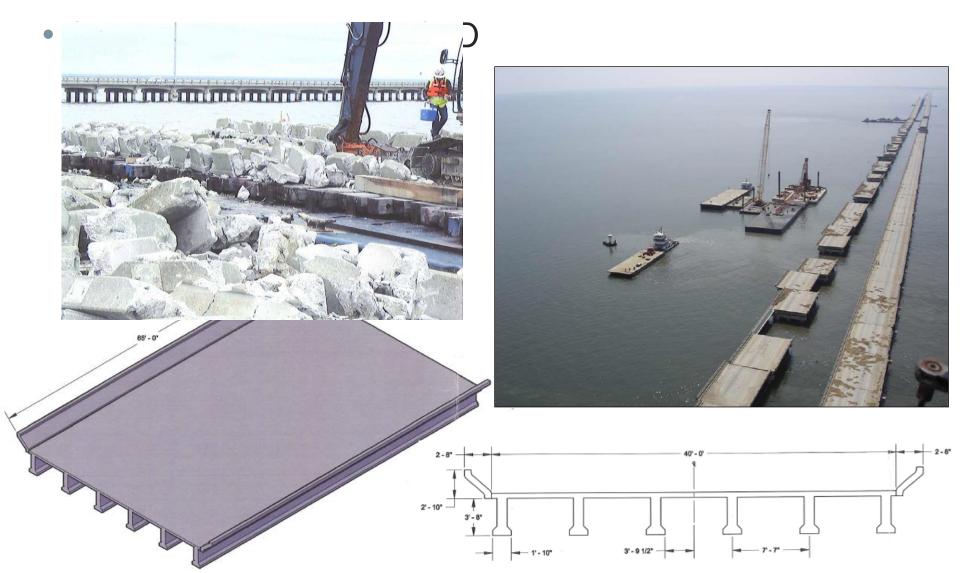


Alligator Bend Shoreline Protection (PO-34)

- Project Feature: 9 miles of shoreline protection from Alligator pass to Unknown Pass
- Funding Program: CWPPRA
- Budget: \$57.66 million
- Status: 95 % Design; Competing for Phase 2 funding

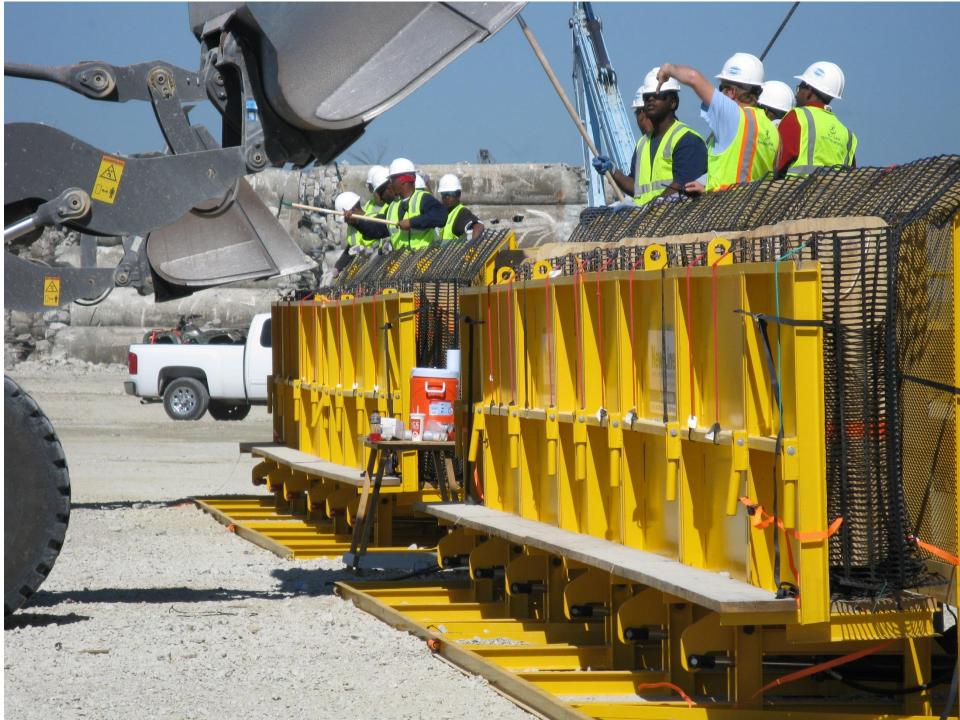


I-10 Bridge Demolition

















Questions?

Contact Information:

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Operations Division
(504) 280-4068
john.troutman@la.gov

2012 MASTER PLAN PROJECTS

Protection Projects

- Slidell Ring Levee \$81 million Construction of a ring levee to an elevation of 16.0 feet around Slidell for hurricane storm surge risk reduction.
- Lake Pontchartrain Barrier \$76 million Planning, engineering and design to construct a levee to an elevation of 24.5 feet across the mouth of Lake Pontchartrain from the New Orleans Landbridge to Interstate 59 north of Slidell for hurricane storm surge risk reduction. PLANNING AND DESIGN ONLY.

2012 MASTER PLAN PROJECTS

Restoration Projects - may provide some degree of additional protection for St. Tammany

- New Orleans East Landbridge Restoration (\$2.363 billion) 8,510 acres of marsh creation
- Biloxi Marsh Creation \$3.046 billion 33,280 acres
- Biloxi Marsh Oyster Reef \$83 million 113,000 feet of oyster barrier reef along the eastern shore of Biloxi Marsh
- Eastern Lake Borgne Shoreline Protection \$85 million 57,000 feet of rock breakwaters
- Golden Triangle Marsh Creation \$293 million 2,440 acres of marsh creation in the Golden Triangle area