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New Orleans District

# IERs 8, 9, 10 and 11

## Chalmette Loop Hurricane Protection System and Improved Protection on the Inner Harbor Navigation Canal



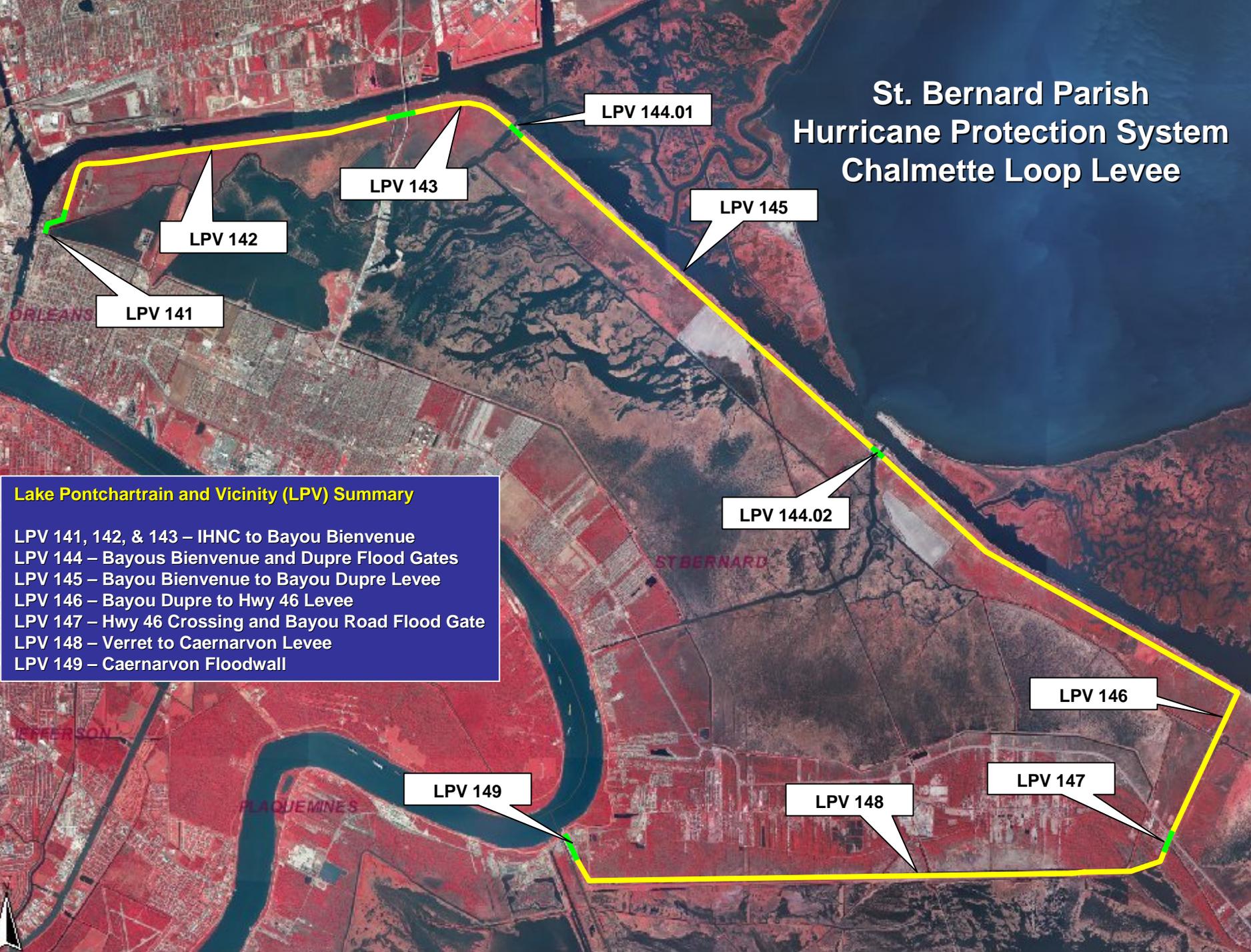
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# *Meeting Purpose*

- ◆ **Provide the public with up to date project information so that they can be an informed participant in the decision making process.**
- ◆ **Public involvement is KEY to the success of this process.**

***We want to hear from you!***

# St. Bernard Parish Hurricane Protection System Chalmette Loop Levee



## Lake Pontchartrain and Vicinity (LPV) Summary

- LPV 141, 142, & 143 – IHNC to Bayou Bienvenue
- LPV 144 – Bayous Bienvenue and Dupre Flood Gates
- LPV 145 – Bayou Bienvenue to Bayou Dupre Levee
- LPV 146 – Bayou Dupre to Hwy 46 Levee
- LPV 147 – Hwy 46 Crossing and Bayou Road Flood Gate
- LPV 148 – Verret to Caernarvon Levee
- LPV 149 – Caernarvon Floodwall



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# *Current Status*

- **LPV 142: Southside of GIWW**
  - **Levee being raised to elevation 15.0'**
  - **Some sandy material found in the levee which is being replaced with suitable material for levee construction**
  - **Continuing investigations to determine if more sandy material is present, if found appropriate corrective actions will be taken**
- **LPV 148.01: Verret to Caernarvon (Phase I)**
  - **Proposals received 10 Oct 07**
  - **Awarded on 31 Oct 07**



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# *Current Status (cont.)*

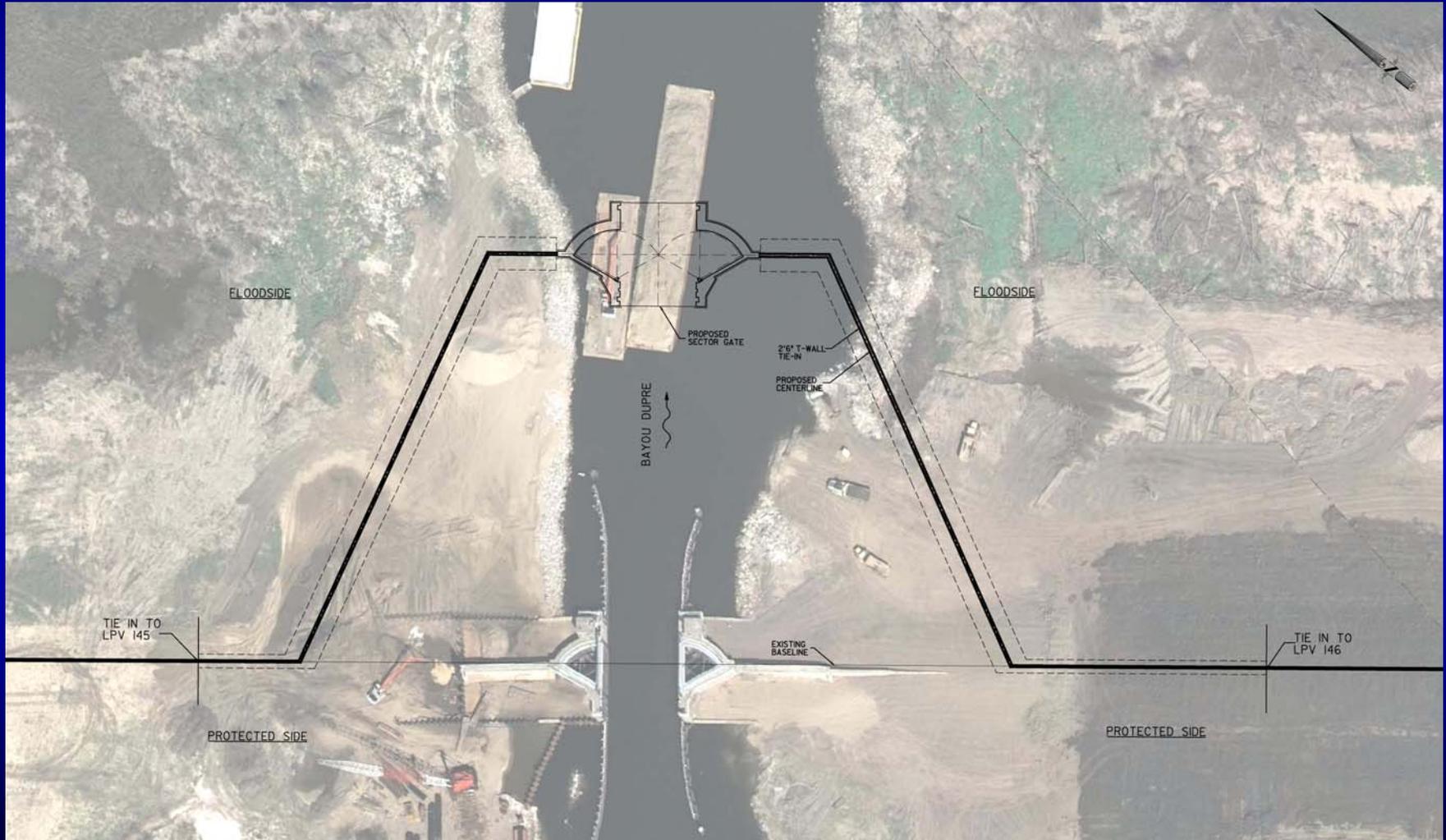
- **LPV 144 – 149: Chalmette Loop Levee System**
  - **Investigating various options to provide 100-yr level of protection (described on following slides)**
  - **Scheduled to initiate design January/February 2008**
- **St. Bernard Back Levee**
  - **Currently investigating the feasibility of incorporating the back levee into the Federal system**



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# IER 8: LPV 144

## Bayou Bienvenue and Bayou Dupre



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# *IER 9: LPV 149*

## *Caernarvon Floodwall*



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— Floodwall Centerline  
Alternative 1A

0 200 400 800  
Feet



— Floodwall Centerline  
Alternative 1B

0 200 400 800  
Feet



----- Structure  
----- Levee Centerline    Alternative 2

0    200    400    800  
Feet



----- Structure

———— Levee Centerline

Alternative 3





----- Structure

----- Levee Centerline

Alternative 4

Additional Alternatives

0 225 450 900 Feet





----- Structure

———— Floodwall Centerline

Alternative 5





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# *Alternatives Evaluation*

## *IER 10 Chalmette Loop Levee*

- **A range of alternatives were considered for both the Federal and Non-federal levees**
- **Screening analysis was performed for the range of alternatives to eliminate some alternatives from further consideration**
- **Alternatives were eliminated for several reasons including adverse impacts, feasibility, and failure to meet purpose and need of the project.**



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# *Alternative Types Under Consideration*

## *Federal Levee System*

- **LPV 145: Bayou Bienvenue to Bayou Dupre**
  - **Earthen Levee with Narrow Right-of-Way**
  - **Earthen Levee with Protected Side Shift**
  - **T-Wall Floodwall / Cap**
- **LPV 146: Bayou Dupre to MRGO**
  - **Earthen Levee with Protected Side Shift**
  - **Earthen Levee with Narrow Right-of-Way and Protected Side Shift**
  - **Earthen Levee with Narrow Right-of-Way**
  - **T-Wall Floodwall / Cap**
- **LPV 146 (MRGO to Hwy 46)**
  - **Earthen Levee**
  - **Earthen Levee with Narrow Right-of-Way and Protected Side Shift**
  - **Earthen Levee with Narrow Right-of-Way**
  - **T-Wall Floodwall / Cap**



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# IPV 146 Alternatives Right of Way Limits

Earthen Levee  
Protected side Shift  
with Narrow ROW  
(Proposed ROW)

Earthen Levee  
(Proposed ROW)

Existing  
ROW

Earthen Levee Narrow ROW  
and  
T-Wall Floodwall / Cap  
within existing ROW



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# *Alternative Types Under Consideration*

## *Federal Levee System*

- **LPV 147: Hwy 46 and Bayou Road**
  - **Earthen Levee with stability berm and Hwy 46 over the levee with overbuild**
  - **T-Wall Floodwall / Cap and Hwy 46 over the T-Wall with an overpass**
  - **Bayou Road replacement floodgate**
  - **Bayou Road replace floodgate with full levee section**
- **LPV 148: Verret to Caernarvon**
  - **Earthen Levee**
  - **Earthen Levee with Narrow Right-of-Way**
  - **T-Wall Floodwall / Cap**



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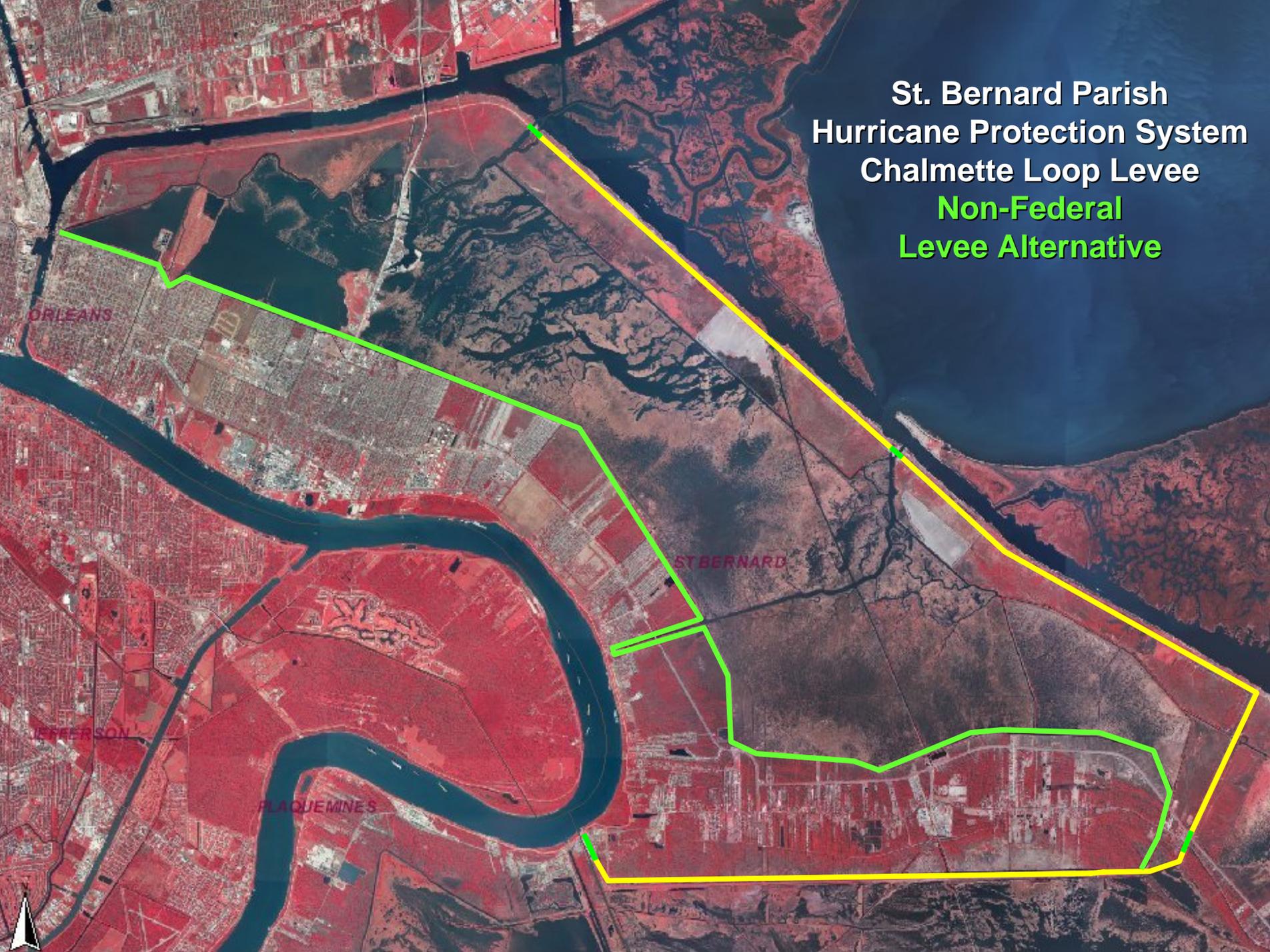
Earthen Levee  
(Proposed ROW)

Existing  
ROW

# LPV 148 Alternatives Right of Way Limits

Earthen Levee Narrow ROW  
and  
T-Wall Floodwall / Cap  
within existing ROW

**St. Bernard Parish  
Hurricane Protection System  
Chalmette Loop Levee  
Non-Federal  
Levee Alternative**



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JEFFERSON

PLAQUEMINES



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# *Alternative Types Under Consideration*

## *Non-Federal Levee System (17.0EL)*

- **Reach 1**
  - **Earthen Levee with Flood-side Shift**
  - **T-Wall Floodwall**
  - **New T-Wall between railroad and Florida Ave**
- **Reach 2**
  - **Earthen Levee**
  - **T-Wall Floodwall**
  - **Earthen Levee to EL 13.5 and T-Wall Cap to EL. 17.0**
- **Reach 3**
  - **Earthen Levee**
  - **T-Wall Floodwall**
  - **Earthen Levee to EL 13.5 and T-Wall Cap to EL. 17.0**



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Earthen Levee  
(Proposed ROW)

T-Wall Floodwall  
(Proposed ROW)

# Reach 2 Alternatives Right of Way Limits

Earthen Levee to EL 13.5  
and T-Wall Cap to EL. 17.0  
(Proposed ROW)

Existing  
ROW



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# *Alternative Types Under Consideration*

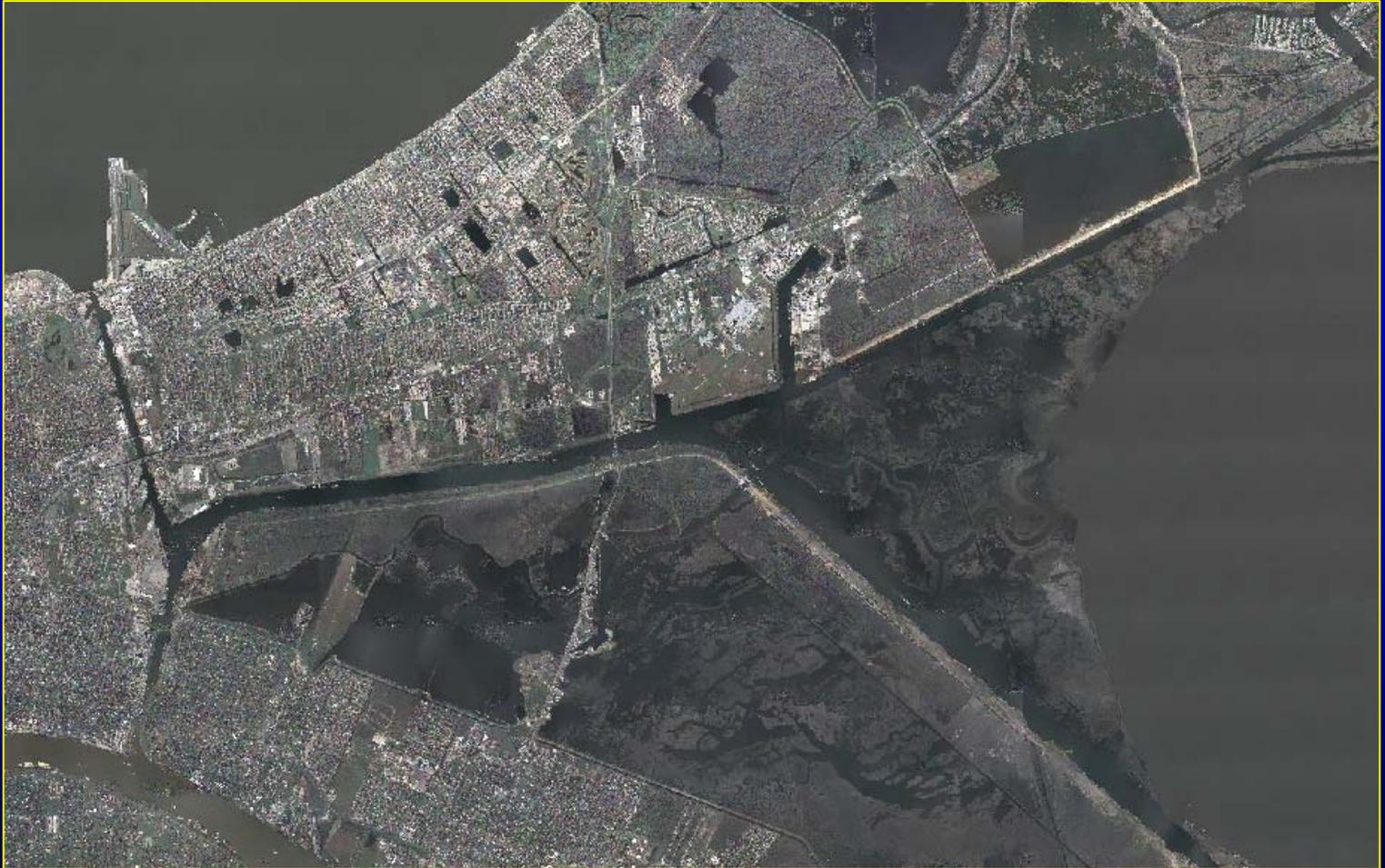
## *Non-Federal Levee System (17.0EL)*

- **Reach 4**
  - **Floodgate Closure Structure**
- **Reach 5**
  - **Earthen Levee**
  - **T-Wall Floodwall**
  - **Earthen Levee to EL 13.5 and T-Wall Cap to EL. 17.0**
- **Reach 6**
  - **Earthen Levee**
  - **T-Wall Floodwall**
  - **Earthen Levee to EL 13.5 and T-Wall Cap to EL. 17.0**



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# *Improving Hurricane Protection on the Inner Harbor Navigation Canal IER #11*



*One Team: Relevant, Ready, Responsive and Reliable*



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# *Project Purpose*

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**Provide a 100-year Level of  
Protection to the IHNC from  
Hurricane-Induced Storm Surges  
by 1 June 2011**



# *Alternatives*

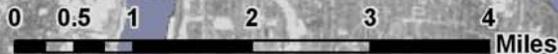
**1. No Action**

**2. Raise buildings in flood zone**

**3. Raise levees and floodwalls**

**4. Construct channel and/or water body structures**

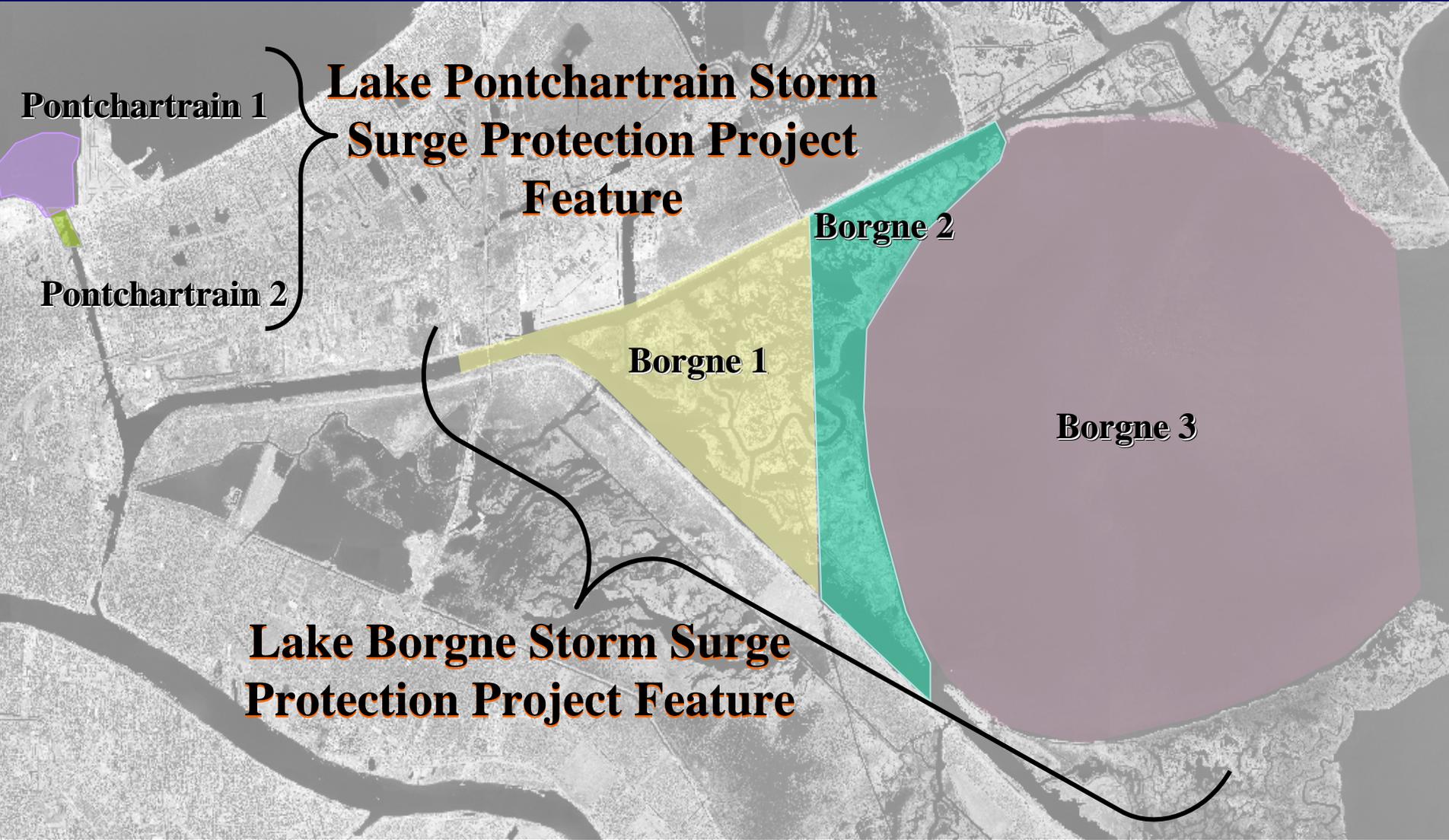
**5. Construct wetlands**





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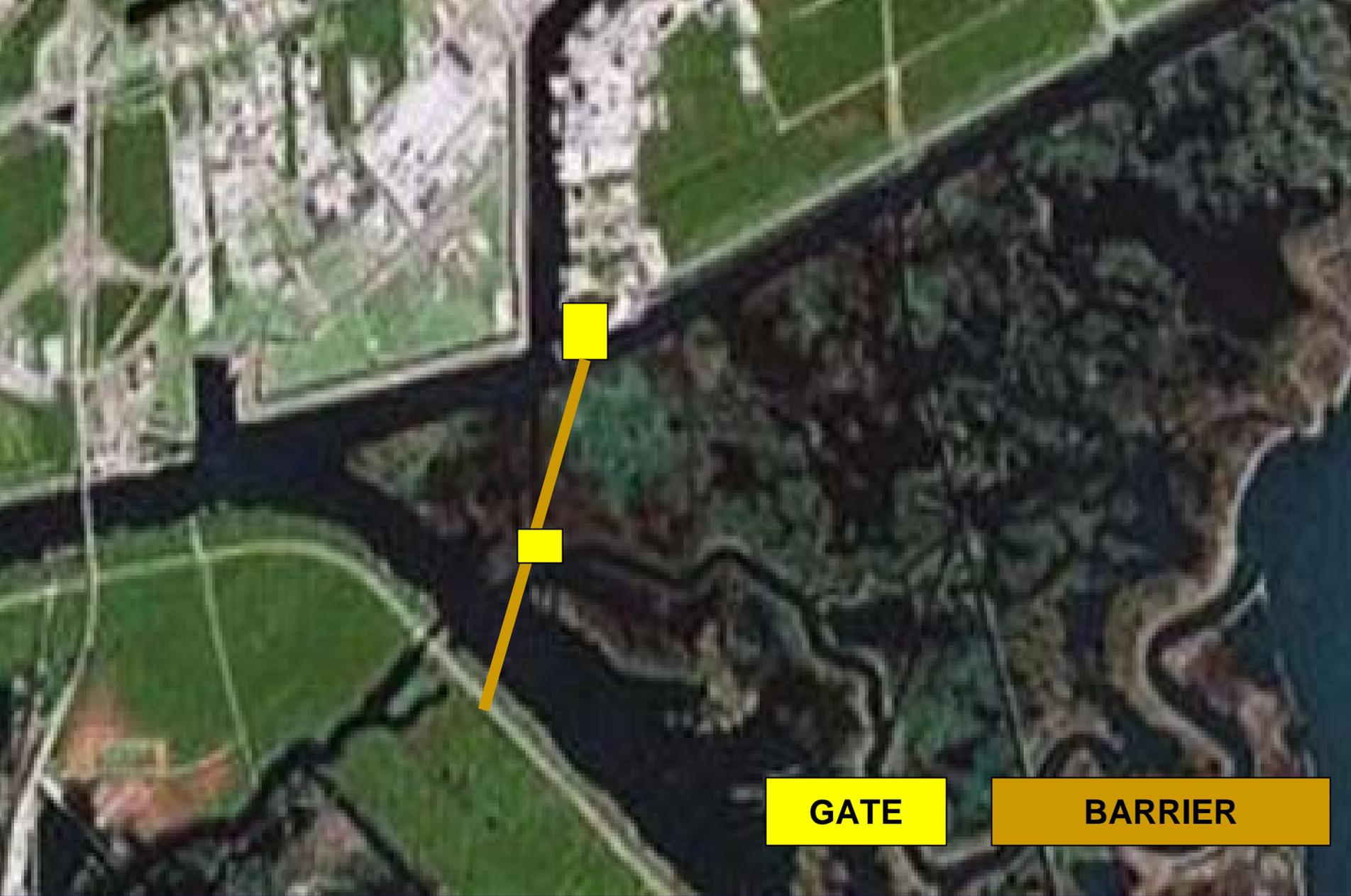
## *Alternative 4: Project Features and Location Ranges*





**GATE**

**BARRIER**



**GATE**

**BARRIER**

*One Team: Relevant, Ready, Responsive and Reliable*



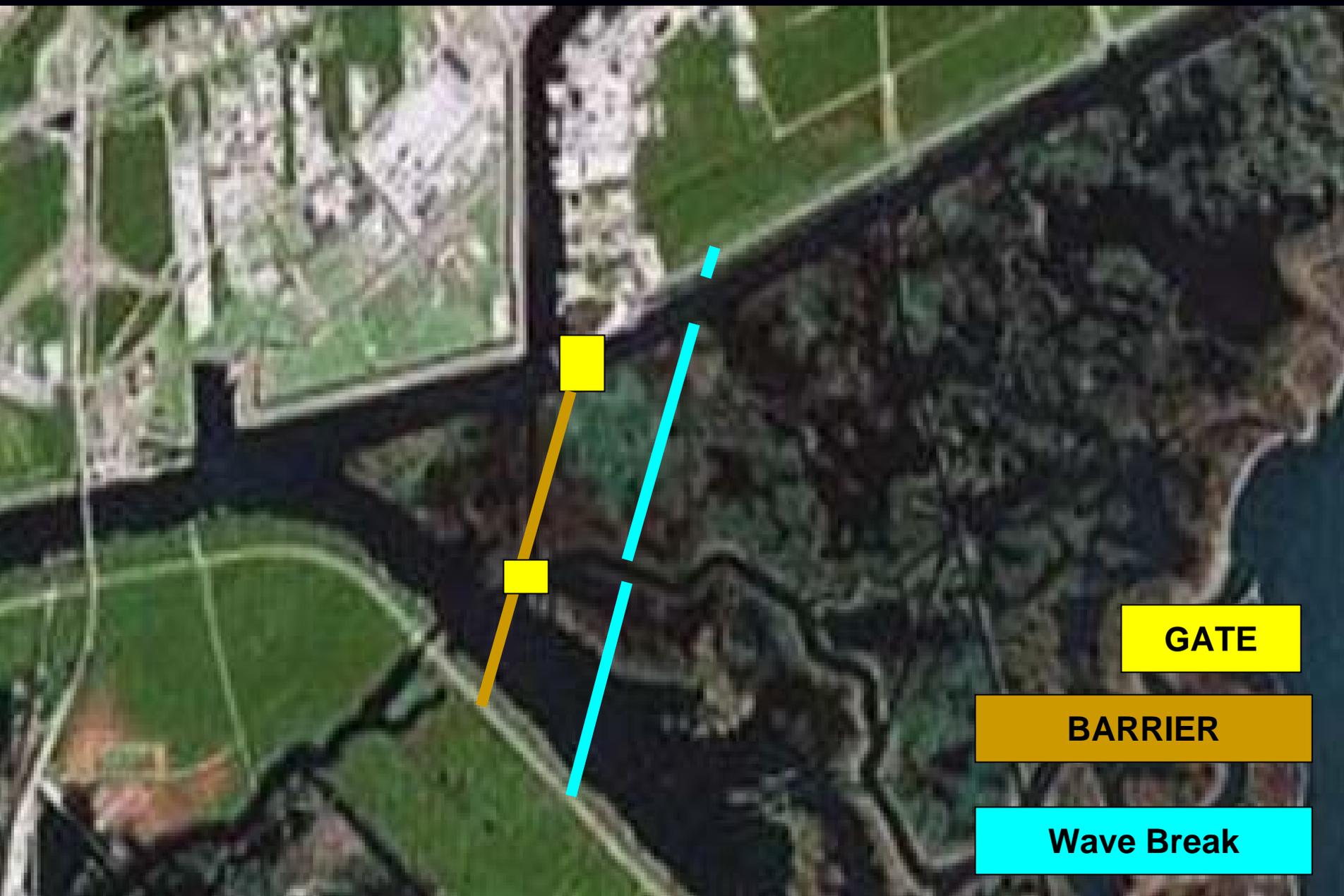
**GATE**

**BARRIER**



**GATE**

**BARRIER**



**GATE**

**BARRIER**

**Wave Break**



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# *Alternatives and Preliminary Impacts to Significant Resources*

## **No Action: Bring to authorized grade**

**Socio economic impacts:** lack of adequate hurricane protection would result in flooding from some hurricanes.

## **Non-structural: Raise buildings.**

**Socio economic impacts:** damages to buildings would be reduced but study area would be subject to flooding

## **Raise levees and floodwalls to 100 year flood protection level**

**Possible HTRW contamination and water quality impacts from sediment disturbance and construction activities, must maintain navigation so footprint would impact businesses and adjacent households, tree removals.**

## **Construct channel and/or water body structures for storm surge protection**

**Various acreages of wetland and habitat impacts, salinity changes, shoreline erosion, short-term construction impacts to water quality, fisheries impacts, T&E impacts, tree removals.**

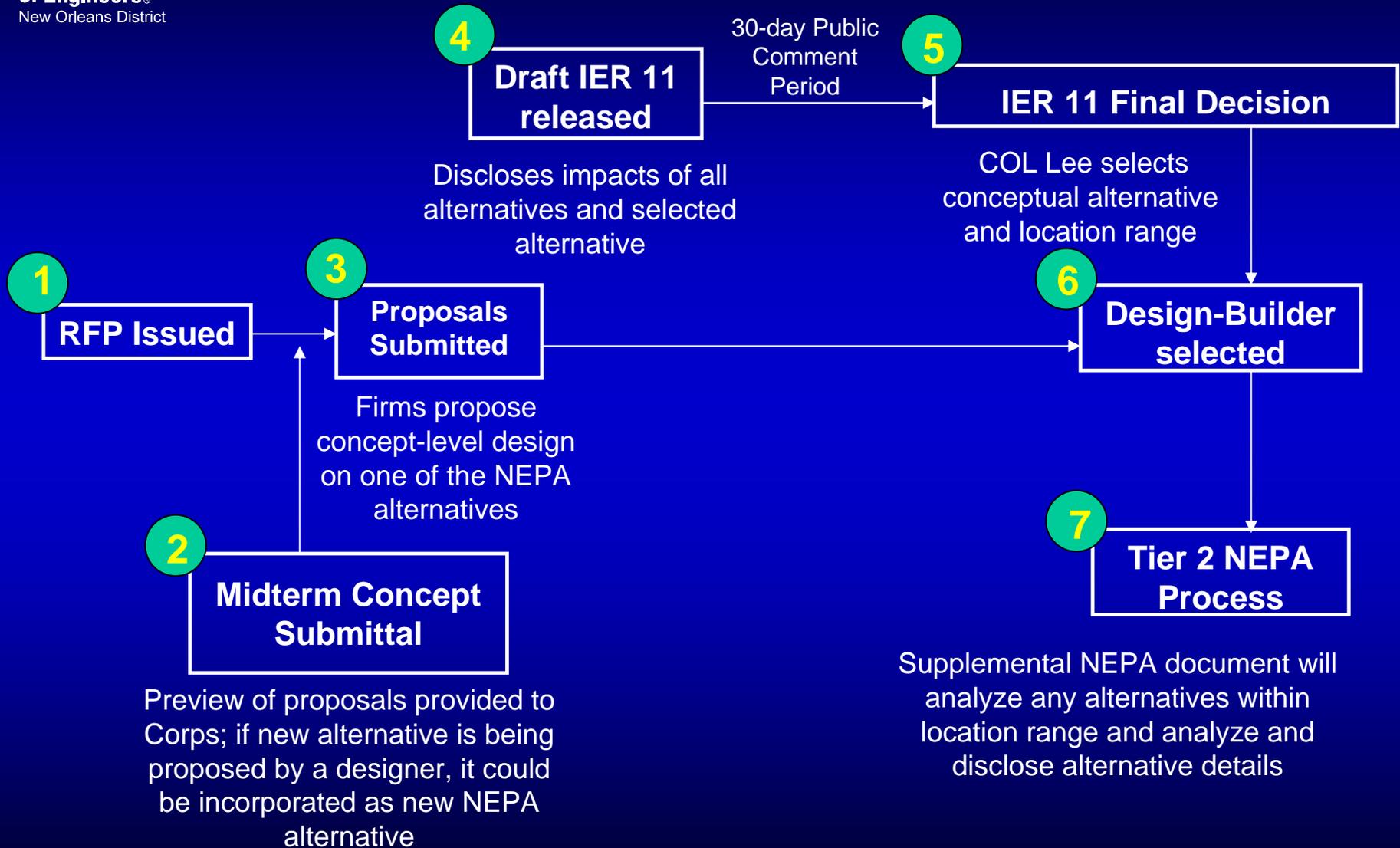
## **Construct wetlands**

**Socio economic, impacts to flow and corresponding impacts to wetlands, salinity, sedimentation, fisheries impacts, short-term construction impacts to water quality, T&E impacts.**



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# Design-Build and NEPA Coordination Process





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# ***Advance Measures Update***

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- ◆ **Goal: provide an improved level of protection & reduced risk to the IHNC by 1 June 2009**
- ◆ **Advertised advance measures with 100-year project solicitation on 26 October 2007**
- ◆ **The amount of protection will be determined after a contractor is selected**
- ◆ **Solution could be part of 100-year structure or a completely separate structure**
  - ◆ **Detailed design will be disclosed and analyzed in Tier 2 NEPA document**



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New Orleans District

**Questions and comments regarding Hurricane Protection Projects  
should be addressed to:**

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**PM-RS**

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**New Orleans, LA 70160-0267**

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**Telephone: 504-862-1337**

**Your comments are welcome anytime now until the close  
of the IER Public Review Period**



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USACE-MVN Emergency Alternative Arrangements  
West Bank & Vicinity & Lake Pontchartrain & Vicinity  
Hurricane Protection Projects

[USACE NEPA Questions & Answers](#)

[USACE Alternative Arrangements NEPA Process](#)

[USACE Alternative Arrangements NEPA Process Appendix](#)

Welcome to NOLA Environmental! This site has been set up to share with the public the efforts being made by the U.S. Army Corps of Engineers and other Federal and state agencies in south Louisiana regarding the environmental compliance for proposed Federal and state Hurricane Protection Projects. Additional information pertaining to other Federal and state agencies' hurricane recovery efforts in southeast Louisiana will also be posted on the site as it becomes available.

The U.S. Army Corps of Engineers, Mississippi Valley Division, New Orleans District implemented Alternative Arrangements on March 13, 2007 under the provisions of the Council on Environmental Quality Regulations for Implementing the **National Environmental Policy Act** (40 CFR § 1506.11). This process was implemented in order to expeditiously complete environmental analysis for the 100-year level of Hurricane and Storm Damage Reduction effort authorized and funded by the Administration and the Congress. The proposed actions are located in southern Louisiana area and relate to the Federal effort to rebuild the Hurricane and Storm Damage Reduction system in the New Orleans Metropolitan area as a result of Hurricanes Katrina and Rita. [\[Learn More\]](#)

#### UPCOMING EVENTS:

[Public Meeting](#): July 26, 2007 7:00 pm, St. Charles Sub Basin ~ Ramada Inn 100 James Drive St. Rose, LA 70087

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