

# Greater New Orleans Hurricane and Storm Damage Risk Reduction System (HSDRRS)

## Lake Pontchartrain & Vicinity (LPV) Environmental Mitigation

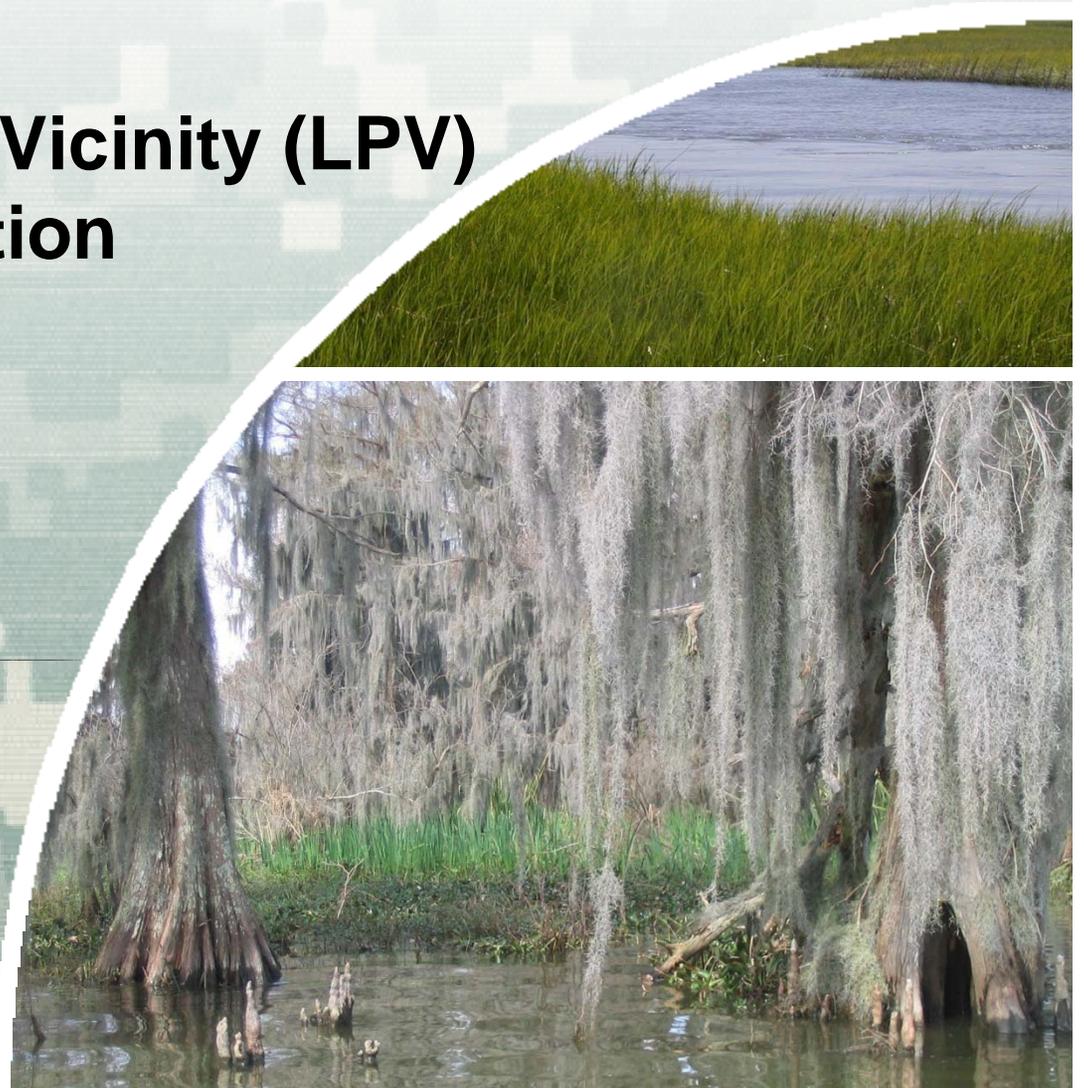
American Legion Post 366

St. Rose, LA

December 7, 2010



US Army Corps of Engineers  
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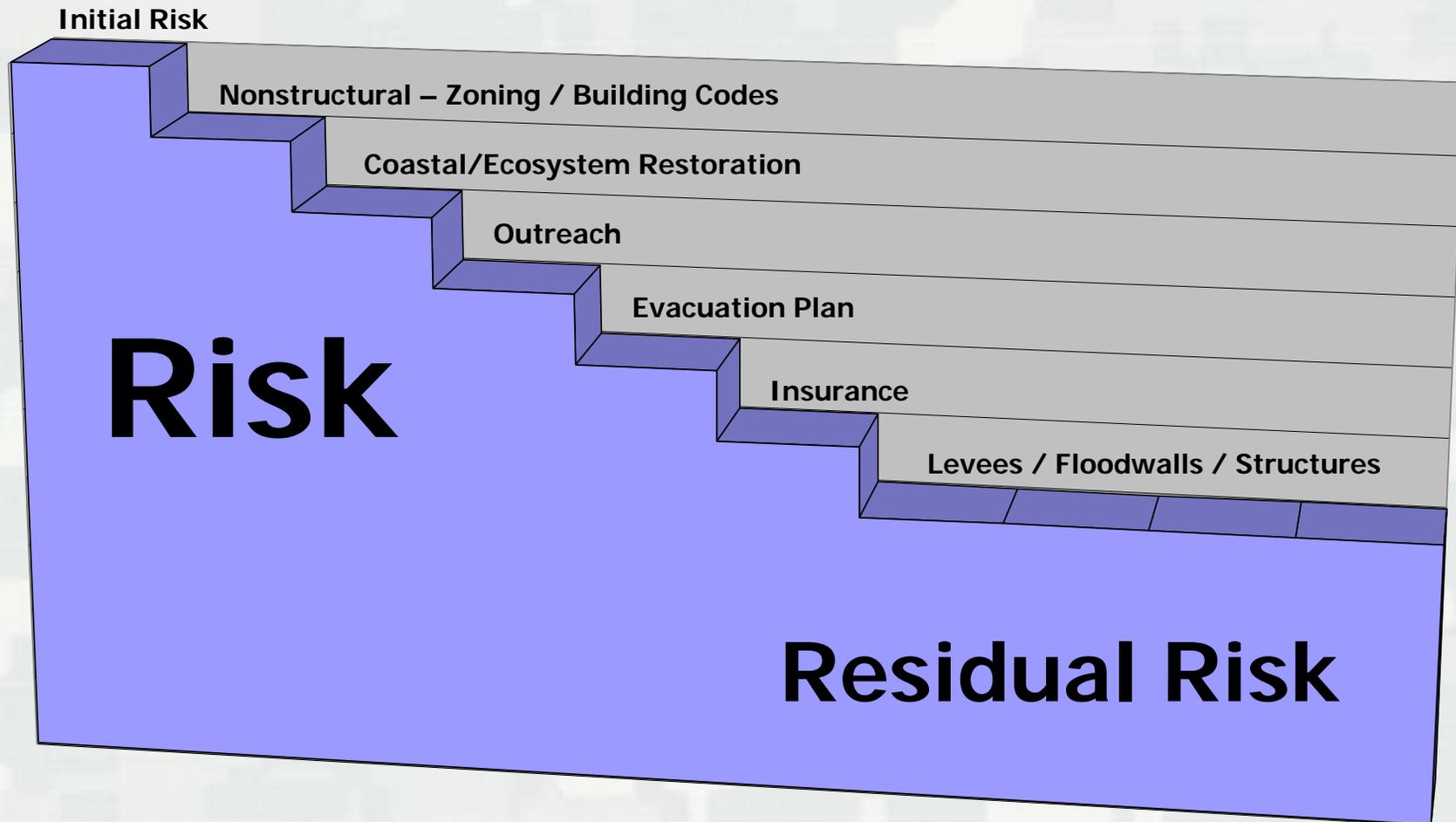


# Meeting Agenda

- Discuss Mitigation Program Objectives
- Review Mitigation Project Status
- Discuss Status of Construction on East Bank of St. Charles Parish
- Break-Out Feedback Session



# Risk – Shared Responsibility

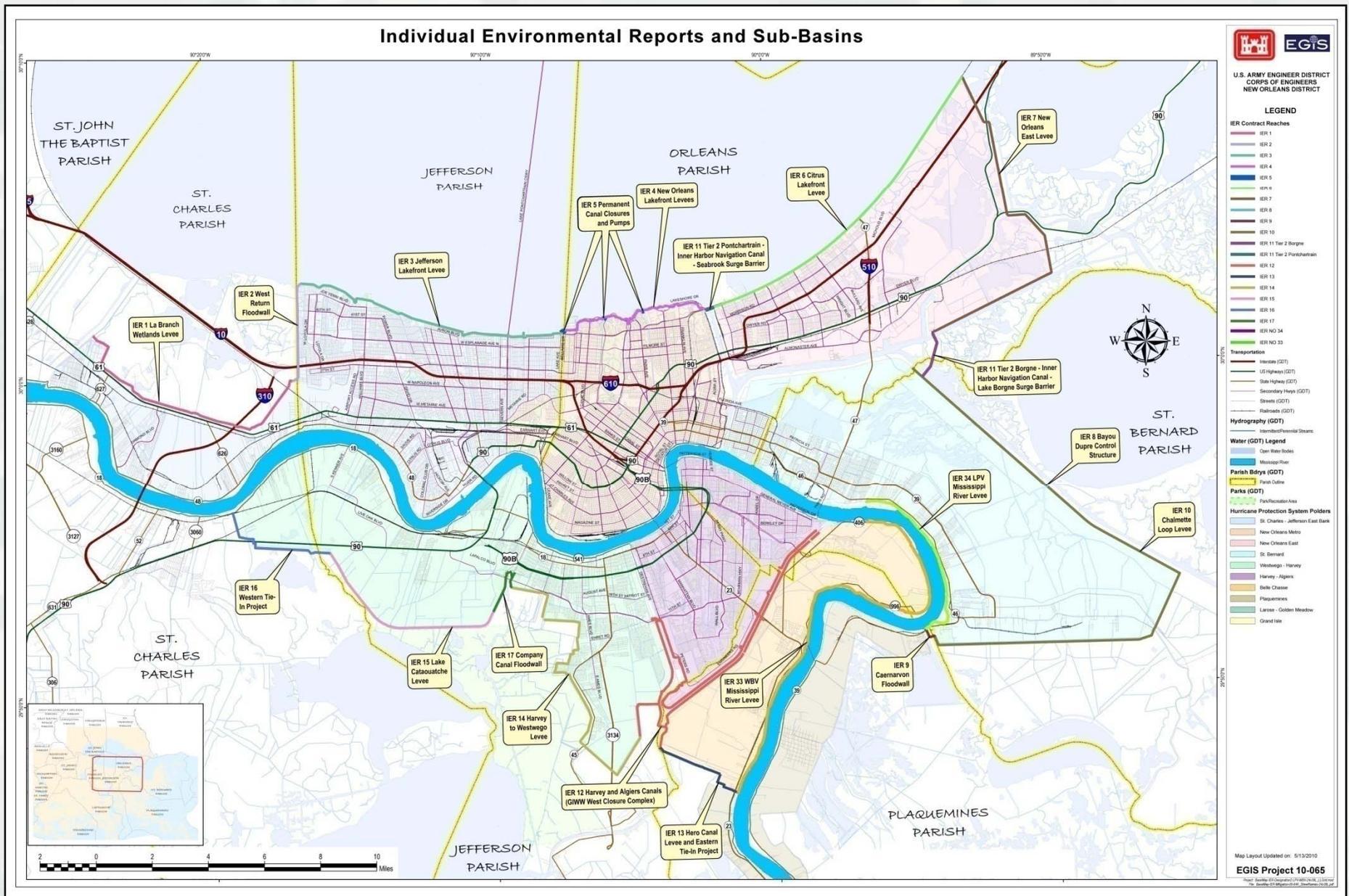


# National Environmental Policy Act (NEPA)

- Alternatives for all major federal actions must be analyzed
- Impacts to the human and natural environment are quantified
- Impacts are discussed in environmental documents
- Public Involvement is KEY. We want to hear from you!



# Individual Environmental Report: Project Areas



# Environmental Mitigation

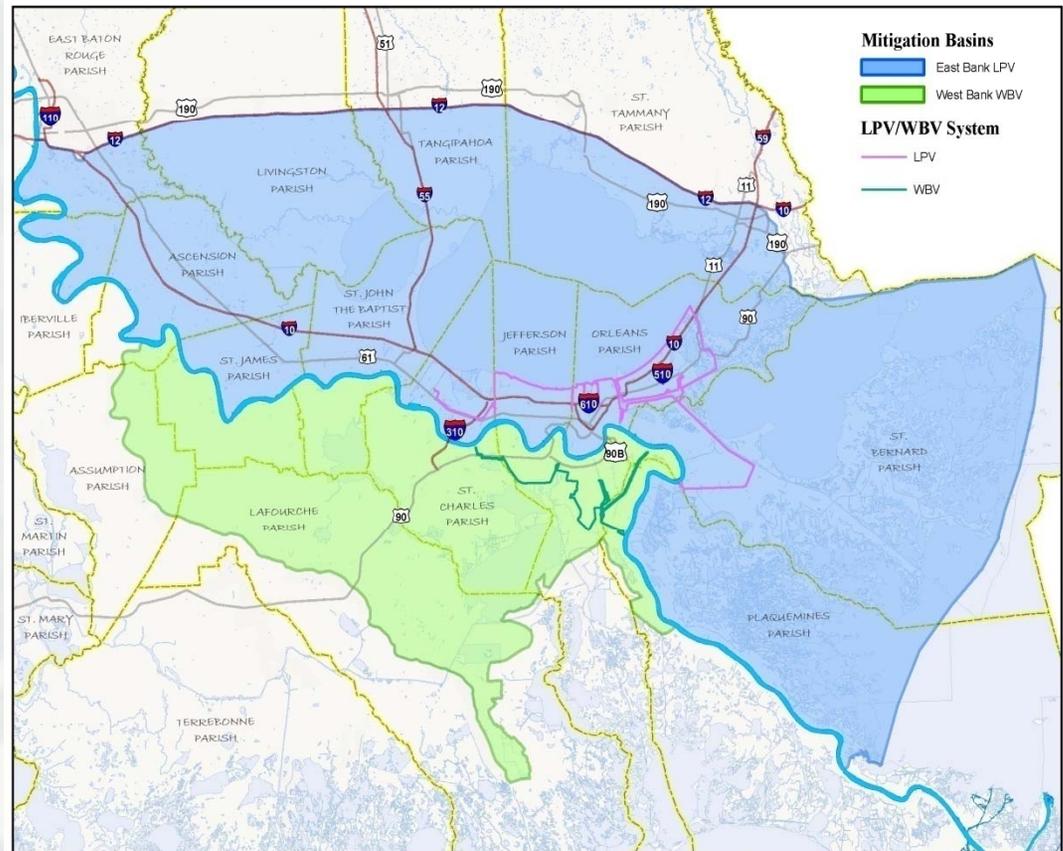
- Avoid impacts to natural resources
- Minimize impacts to the greatest extent possible
- Compensate for unavoidable impacts
- Mitigation plans will be discussed in environmental documents
- Mitigation is fully funded



# LPV Mitigation Policies

## Generally, mitigation would occur:

- **As close as possible to the impact area**
- **Within the same hydrologic basin (Barataria or Lake Pontchartrain)**
- **Within same habitat type**
  - **Bottomland hardwood**
  - **Swamp**
  - **Fresh/Intermediate marsh**
  - **Brackish marsh**



# LPV Affected Habitats



Bottomland Hardwoods Wet



Bottomland Hardwoods Dry



Swamp



Fresh Marsh



Intermediate Marsh



Brackish Marsh



# Total LPV Impacts

## Lake Pontchartrain & Vicinity Projects

### HSDRRS – Current Working Estimate

Habitat Type	Quantity (acres)	Quality (AAHUs*)
Bottomland Hardwood Wet	292	136
Bottomland Hardwood Dry	54	19
Swamp	114	71
Fresh Marsh	48	25
Intermediate Marsh	232	108
Brackish Marsh	506	303
<b>Total</b>	<b>1,246</b>	<b>662</b>

\*AAHU (Average Annual Habitat Unit) is a numerical value representing the quality of a habitat.



# LPV Initial Screening Criteria

- Compliance with laws, regulations and policies
- Avoid Hazardous Toxic and Radioactive Waste
- Within LPV Mitigation Basin (Lake Pontchartrain)
- Must address 100% of mitigation need in kind by habitat type
- Technically viable (e.g. correct salinity)

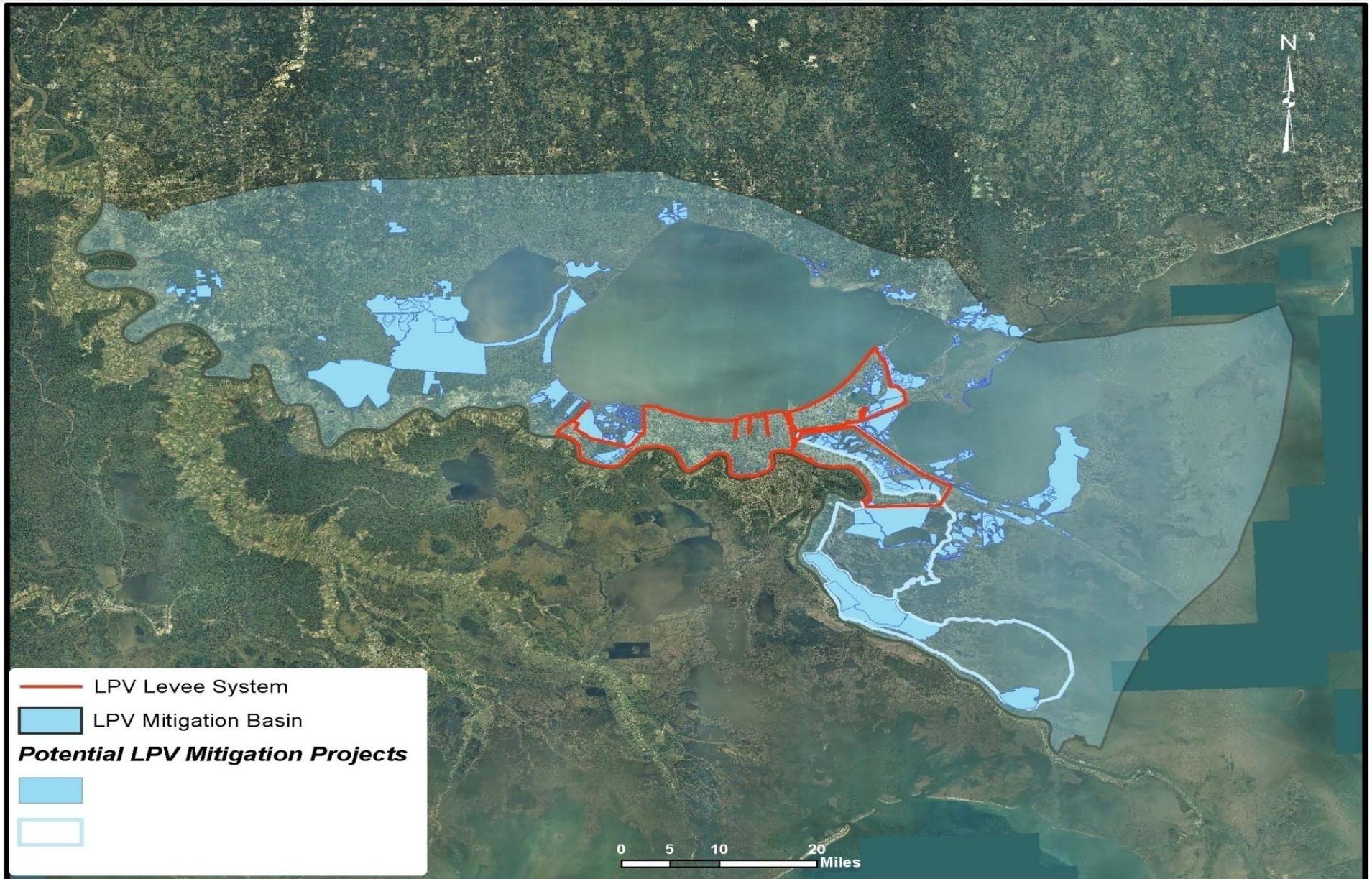


# LPV Initial Screening Criteria

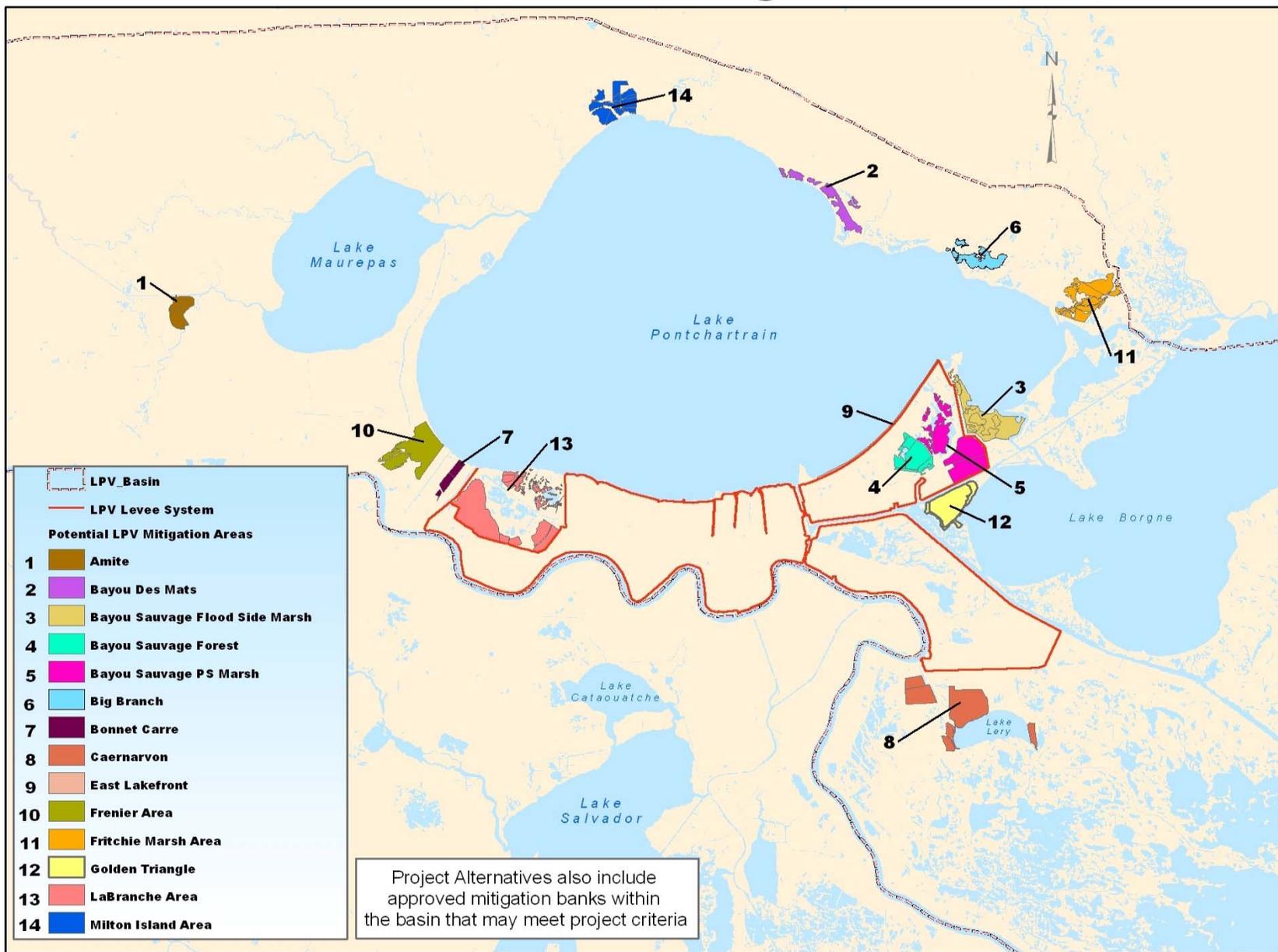
- No conflicts with other projects constructed or planned for construction
- Not dependent upon another project
- Can be adjusted to meet mitigation requirement only
- Addresses multiple mitigation requirements in one project area



# LPV Mitigation Projects Considered



# LPV Initial Screening Results



# Mitigation Tentative Timeline

Initiated Study	May 2010	(Completed)
5 Scoping Meetings	May 2010	(Completed)
Initial Screening of Measures	Jul 2010	(Completed)
Project Status Public Meetings	Dec 2010	
Refine Measures	Apr 2011	
Assemble Alternative Plans	Jun 2011	
Identify Proposed Action	Aug 2011	
Release Individual Environmental Reports	Jan 2012	
Division Approval of Mitigation Plan	Jan 2012	
Final Design Mitigation Projects	Jun 2012	
Start Real Estate Acquisition	Jun 2012	
Issue Construction Contract	Jun 2013	
Transfer Project to Non-Federal Sponsor	Post-Construction	



# Greater New Orleans Hurricane & Storm Damage Risk Reduction System

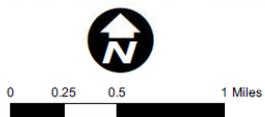
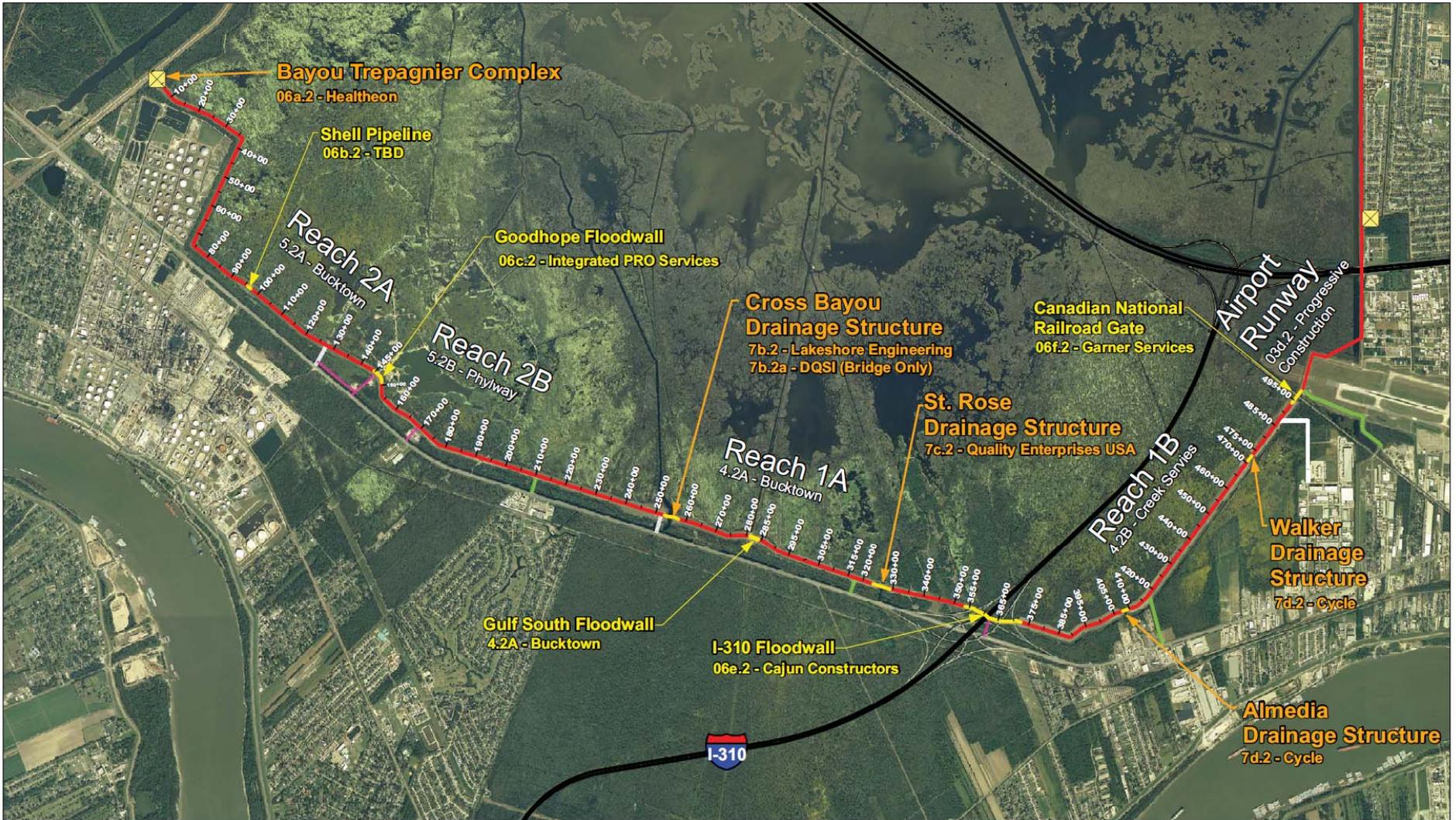
## St. Charles Parish Construction Update



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## Lake Pontchartrain & Vicinity - St. Charles Parish



12 Oct 10

# St. Charles Parish Levee Reaches

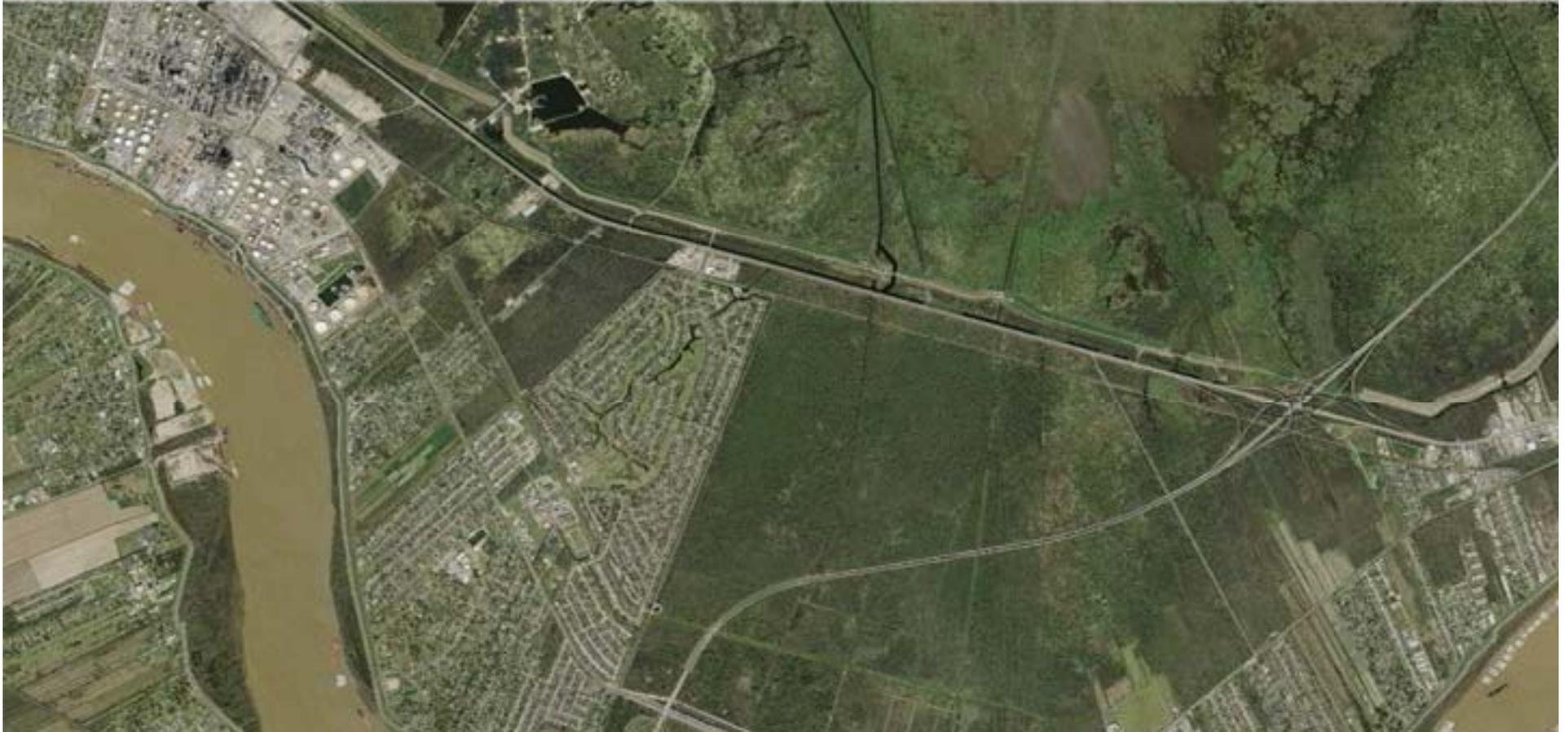


# Levee Degrade Animation



US Army Corps  
of Engineers

**Lake Pontchartrain and Vicinity  
St. Charles Parish Flood Risk Reduction Project**



# Levee Status

## Reach 2A

- Award Date: Dec. 3, 2009
- Estimated Completion: Jan. 2011
- 79% Complete

## Reach 2B

- Award Date: Nov. 24, 2009
- Estimated Completion: Dec. 2010
- 95% Complete

## Reach 1A

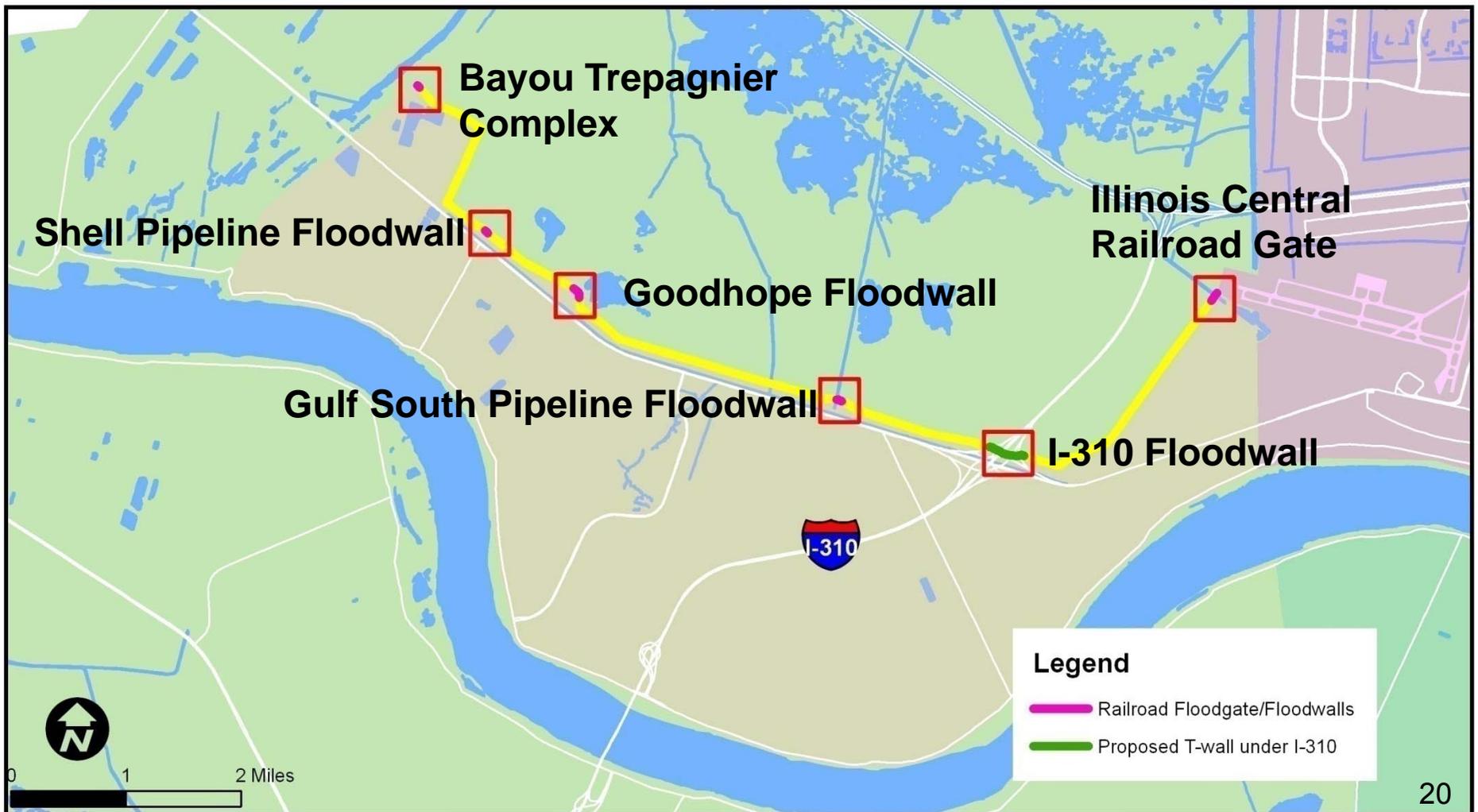
- Award Date: Sept. 28, 2009
- Estimated Completion: April 2011
- 60% Complete

## Reach 1B

- Award Date: Dec. 17, 2009
- Estimated Completion: May 2011
- 45% Complete



# St. Charles Parish Floodwalls



# Floodwall and Floodgate Status

## Bayou Trepagnier Complex

- Award Date: Dec. 23, 2009
- Estimated Completion: Jan. 2011
- 77% Complete

## I-310 Floodwall

- Award Date: April 23, 2010
- Estimated Completion: April 2011
- 50% Complete

## Shell Pipeline Floodwall

- Anticipated Award Date: Dec. 2010
- Estimated Completion: April 2011
- 0% Complete

## Illinois Central Railroad Gate

- Award Date: June 24, 2010
- Estimated Completion: May 2011
- 3% Complete

## Goodhope Floodwall

- Award Date: Dec. 18.2009
- Completion: Sept. 17, 2010
- 100% Complete



# Floodwall Construction



Bayou Trepagnier Complex



Goodhope Floodwall



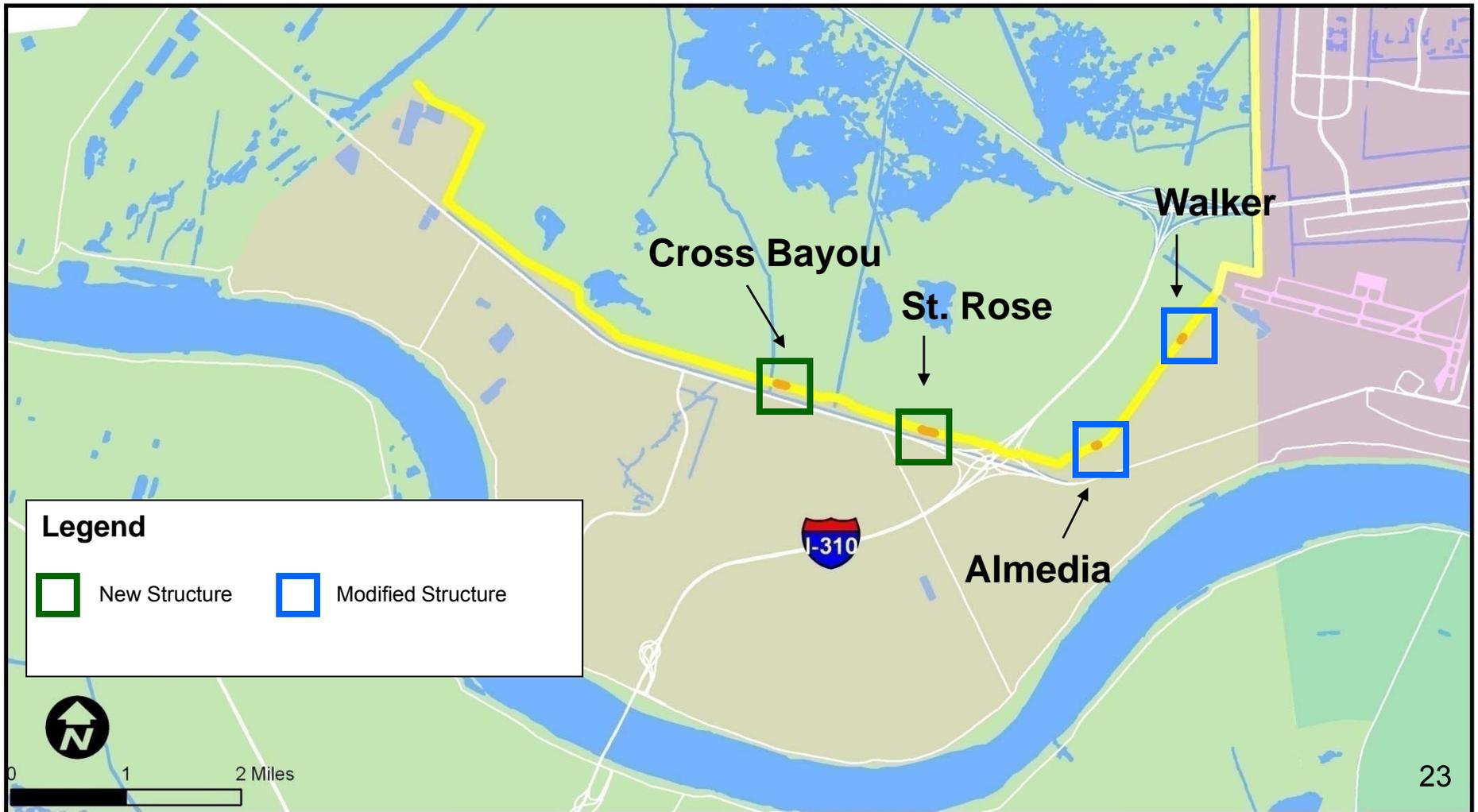
I-310 Floodwall



Existing Railroad Gate



# St. Charles Parish Drainage Structures



# Drainage Structure Animation

## Cross Bayou Drainage Structure



US Army Corps of Engineers  
Team New Orleans  
GIS Development/Production Team

# Drainage Structure Status

## Cross Bayou Drainage Structure

- Award Date: March 2, 2010
- Estimated Completion: May 2011
- 17% Complete

## St. Rose Drainage Structure (and portion of Levee Reach 1A)

- Award Date: Dec. 30, 2009
- Estimated Completion: April 2011
- 28% Complete

## Almedia and Walker Drainage Structures

- Award Date: Aug. 14, 2009
- Completion: Oct. 4, 2010
- 100% Complete



# Drainage Structure Construction



Almedia Drainage Structure



Walker Drainage Structure



Cross Bayou Drainage Structure



St. Rose Drainage Structure



# Upcoming Public Meetings

## **Thursday, Dec. 9, 2010**

West Bank & Vicinity Mitigation, Company Canal  
Floodgate Construction Update and Proposed  
Refinements to the Lake Cataouatche Levee  
Update public meeting – Westwego  
Westwego Tassin Senior Center  
701 4<sup>th</sup> Street  
Westwego, LA 70094

## **Monday, Dec. 13, 2010**

Atchafalaya Basin Floodway System Master Plan  
Update public meeting - Opelousas  
Opelousas High School  
1014 Judson Walsh Dr.  
Opelousas, LA 70525  
Expected attendance 100

## **Tuesday, Dec. 14, 2010**

Atchafalaya Basin Floodway System Master Plan  
Update public meeting - Port Allen  
West Baton Rouge Community Center  
749 N. Jefferson St.  
Port Allen, LA 70767

## **Wednesday, Dec. 15, 2010**

Causeway Construction  
New Orleans Marriott Metairie at Lakeway  
3838 N. Causeway Blvd  
Metairie, LA 70002  
Open House 5:00 to 8:00 p.m.



# Currently Available for Public Review

- IER 33 – Mississippi River Levee Co-located Levees
  - ▶ Public review through Dec. 25, 2010



# *Opportunities for Public Input*

- Regular public meetings throughout the Hurricane and Storm Damage Risk Reduction System (HSDRRS) Area
- Sign in tonight to get on our meeting notification mailing list!
- Construction Impact Hotline: 1- 877- 427- 0345
- Comments can be submitted at any time at:

**[www.nolaenvironmental.gov](http://www.nolaenvironmental.gov)**

Questions and comments may be submitted to:

Telephone: 504 - 862 - 2201

**[E-mail: AskTheCorps@usace.army.mil](mailto:AskTheCorps@usace.army.mil)**



# Resources

[www.nolaenvironmental.gov](http://www.nolaenvironmental.gov)

**NOLA Environmental**  
NEW ORLEANS, LOUISIANA  
Environmental Compliance Data Bank  
[www.nolaenvironmental.gov](http://www.nolaenvironmental.gov)

PROJECTS | MEETINGS | LIBRARY | DATA VIEWER | GET INVOLVED | RELATED LINKS

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 Risk Reduction 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 (48 CFR § 1506.11). Learn more...

**Announcements**

- Draft IER 7 Public Comment Period 5/6 - 6/4
- Draft IER 13 Comment Period extended to 5/18
- Draft IER 5 Public Comment Period 5/4 - 6/3
- Draft IER 16 Public Comment Period 5/1 - 5/30
- Draft IER 6 Public Comment Period 4/24 - 5/23
- IER 6 - The Clean Water Act Section 404 Public Notice Comment Period 4/24 - 5/23
- Orleans Parish Pump Station Stormproofing EA #474 Drafts Public Comment Period 4/17 - 5/23
- Jefferson Parish Pump Station Stormproofing EA #475 Drafts Public Comment Period 4/14 - 5/20
- Draft IER 10 Public Comment Period 4/13 - 5/12

**Upcoming**

- 05/11/2009 - Public Meeting IER 8, 9, 10 and borrow
- 05/12/2009 - Draft IER 10 Public Comment Period Ends

**Newly Available**

**NEW** NOLA Environmental Basic Data Viewer

- News Release 06 May 09 Draft IER 5
- IER 5 - Phase 2 Final Report: Operating Scenario Analysis

**FEATURED PROJECT**

USACE-MVN Emergency Alternative Arrangements Greater New Orleans Hurricane and Storm Damage Risk Reduction System Projects

[www.mvn.usace.army.mil](http://www.mvn.usace.army.mil)

U.S. Army Corps of Engineers New Orleans District - Microsoft Internet Explorer provided by USACE - New Orleans District

US Army Corps of Engineers  
NEW ORLEANS DISTRICT

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**PUBLIC INFORMATION**

**Hurricane & Flood Risk Reduction**  
Learn more about what the Corps is doing to reduce risk.

**Emergency Information**  
Road closures, boating bans, beach information and more.

**NOLA Environmental**  
Did you miss a meeting? No problem! Find presentations, summaries and more.

**TOP HEADLINES**

**ASK THE CORPS**

**FEATURED VIDEOS**

**Went Closure Complex**  
Learn more about the alternatives under consideration to reduce risk on the Warrenton, March 23.

**Debris & Storm Damage Risk Reduction System**  
From needs to planning, design and actions about system features.

**document certifies work on the Deepwater**  
The Corps wants to hear from you! Do you have information on the closing of Industrial Locks on August 1, 2009 for 60 days? Yes, for information regarding the August 1st closing of the Deepwater Navigation Canal Lock, please visit [www.usace.army.mil](http://www.usace.army.mil). Submit questions or comments to [ask@usace.army.mil](mailto:ask@usace.army.mil).

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US Army Corps  
of Engineers  
New Orleans District

# Social Web Networking Communities

and what they mean to you

## twitter



is an online messaging and social networking system that allows people to share their daily life experiences minute-by-minute, hour-by-hour, and/or day-by-day via their computer or mobile phone. Team New Orleans is joining in and taking on the opportunity to tweet with the public and offer reports on developments, additions, changes, and upcoming public meetings and events that will affect local communities. Check it out by going to [twitter.com/teamneworleans](https://twitter.com/teamneworleans).

Flickr is an online community platform for global photo management and sharing applications via the web. Team New Orleans has become a part of the movement and is using Flickr to visually explain our projects. Check out our photos at

[www.flickr.com/photos/37671998@N05](https://www.flickr.com/photos/37671998@N05).

## flickr



## facebook

is a global social networking Web site that links people from across the world and is currently ranked as the most popular of its kind. Team New Orleans is following in the trend and is using Facebook to update the public about projects, events, activities and public meetings.

Become friends with Team New Orleans by visiting [www.facebook.com](https://www.facebook.com), search New Orleans District.



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