



US Army Corps of Engineers



***Individual Environmental
Reports (IERs) 8, 9, & 10***

***Hurricane Storm Damage
Risk Reduction System***

St. Bernard Parish

March 11, 2009



National Environmental Policy Act (NEPA)

- Required for all major Federal actions
- Analyze potential impacts to the human and natural environment and investigate reasonable alternatives
- Analyses documented in Individual Environmental Reports (IER)
- Public Involvement is KEY! We want to hear from you!
- Goal: more informed decision making through public involvement

St. Bernard Parish Hurricane & Storm Damage Risk Reduction System Chalmette Loop Levee

LPV 142

LPV 145

LPV 144

LPV 146

LPV 149

LPV 148

LPV 147

Lake Pontchartrain and Vicinity (LPV) Summary

Completed: LPV 142 – IHNC to Bayou Bienvenue

IER 8: LPV 144 – Bayou Dupre Floodgate

IER 9: LPV 149 – Caernarvon

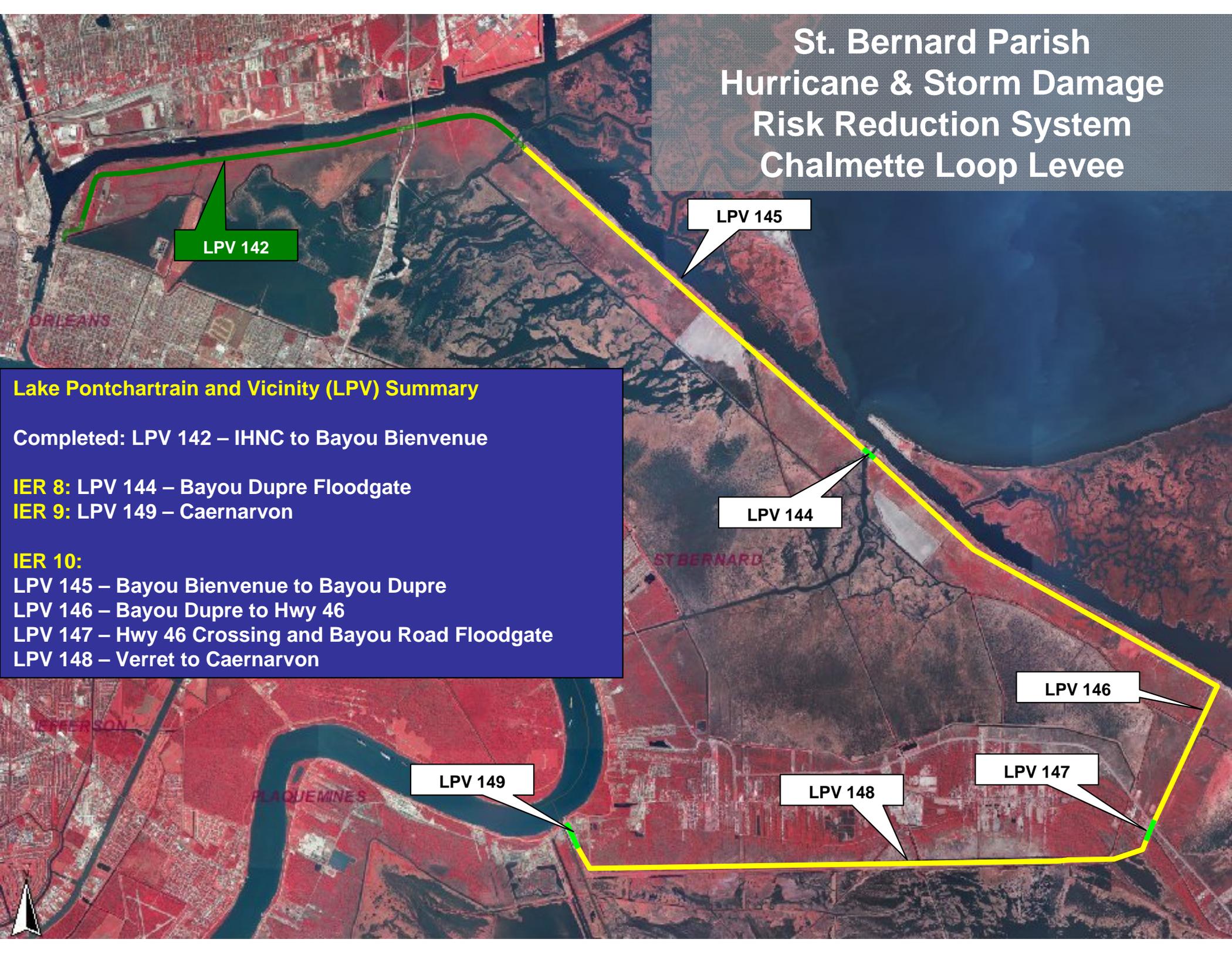
IER 10:

LPV 145 – Bayou Bienvenue to Bayou Dupre

LPV 146 – Bayou Dupre to Hwy 46

LPV 147 – Hwy 46 Crossing and Bayou Road Floodgate

LPV 148 – Verret to Caernarvon





(IER 8) LPV 144: Bayou Dupre Floodgate

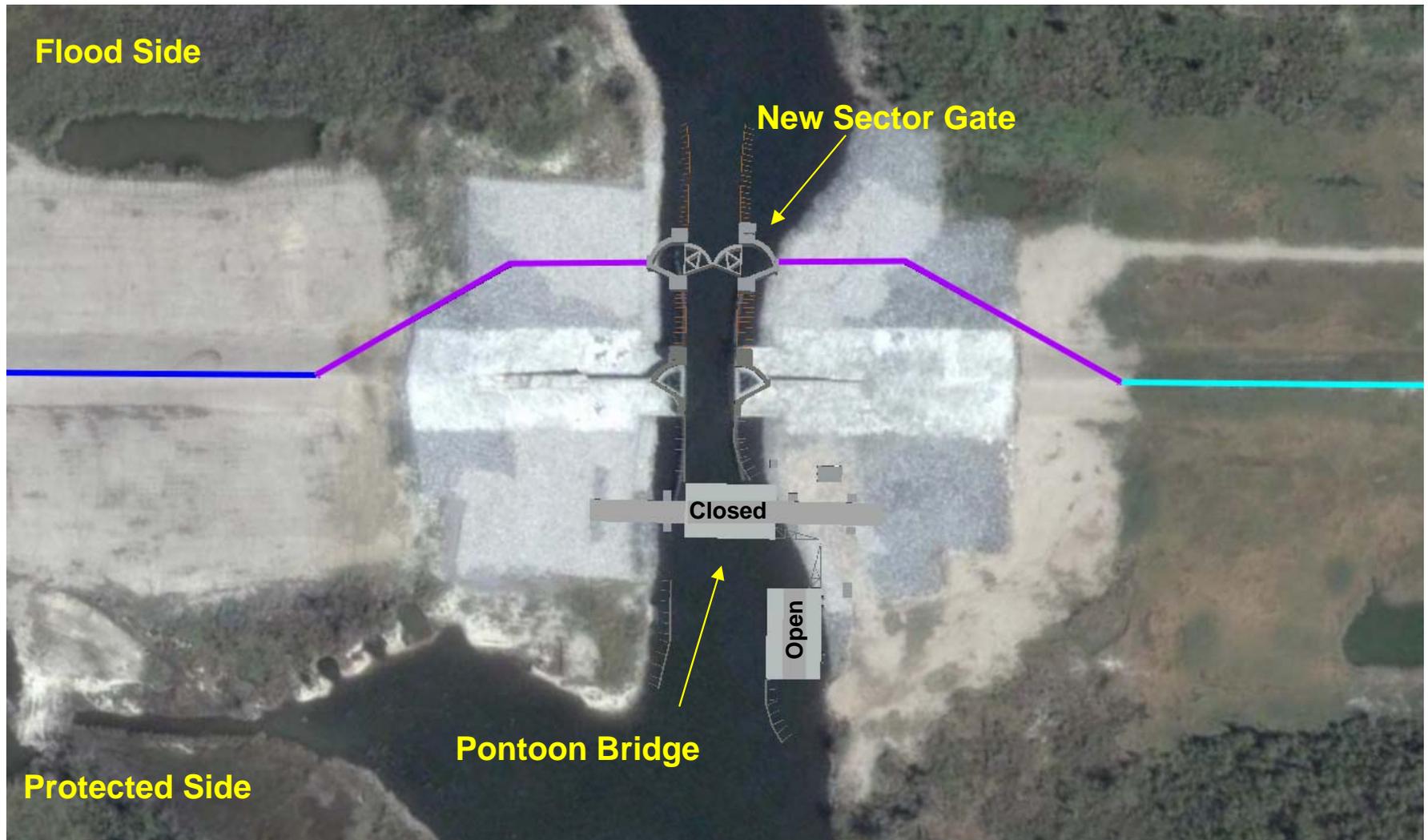


Bayou Dupre (LPV 144.02) in
St. Bernard Parish, Louisiana

- Currently in design phase for replacement of Dupre structure
- IHNC-Tier 2 Borgne (IER 11) will reduce the risk to the Bayou Bienvenue area, so no action will be required for that structure
- **Existing Elevation: 15.4'**
- **Project Elevation: 31.5'**



(IER 8) LPV 144: Bayou Dupre Floodgate Proposed Action





(IER 9) LPV 149: Caernarvon Floodwall





(IER 9) LPV 149: Caernarvon Floodwall

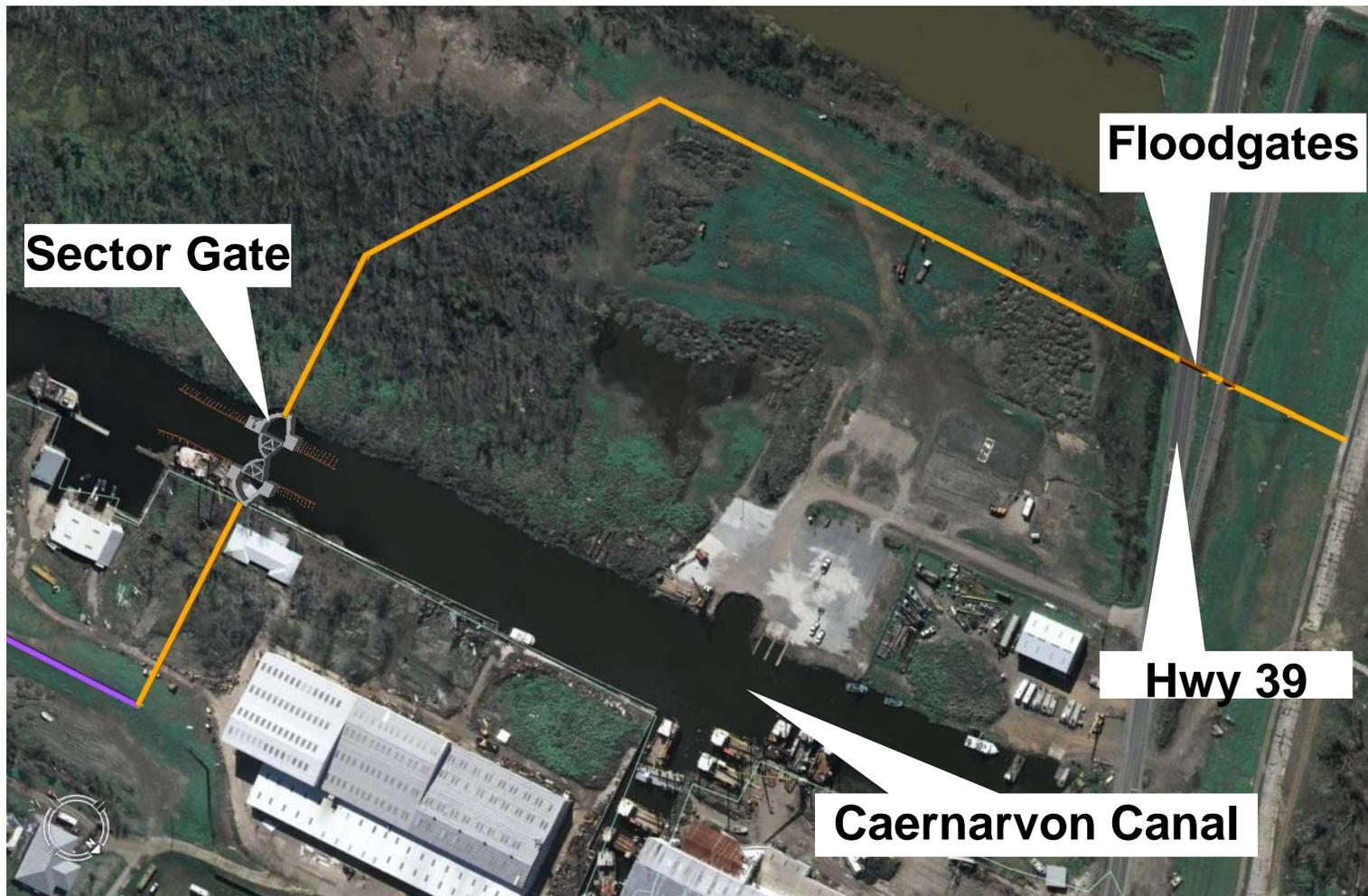
- The Engineering Alternatives Report (EAR) provided the analysis for several alternatives. The basic alternatives include:
 - (1) a T-wall near the existing alignment
 - (2) a T-wall with a floodgate crossing the Caernarvon Canal
 - Additional analysis was completed for this reach to avoid/minimize impacts to the surrounding community
 - Our analysis included:
 - Site visits with contractors to prepare a constructability report (consider locations of the railroad tracks, Hwy 39, EBI, area homes)
 - Re-evaluation and refinement of the alignments and gate structure
 - Updated cost estimates
-
- **Existing Elevation: 14'**
 - **Project Elevation: 24'**

(IER 9) LPV 149: Caernarvon Floodwall Alignments





(IER 9) LPV 149: Caernarvon Floodwall Proposed Alignment



St. Bernard Parish Hurricane & Storm Damage Risk Reduction System Chalmette Loop Levee

LPV 145

LPV 146

LPV 147

LPV 148.02

Lake Pontchartrain and Vicinity (LPV) Summary

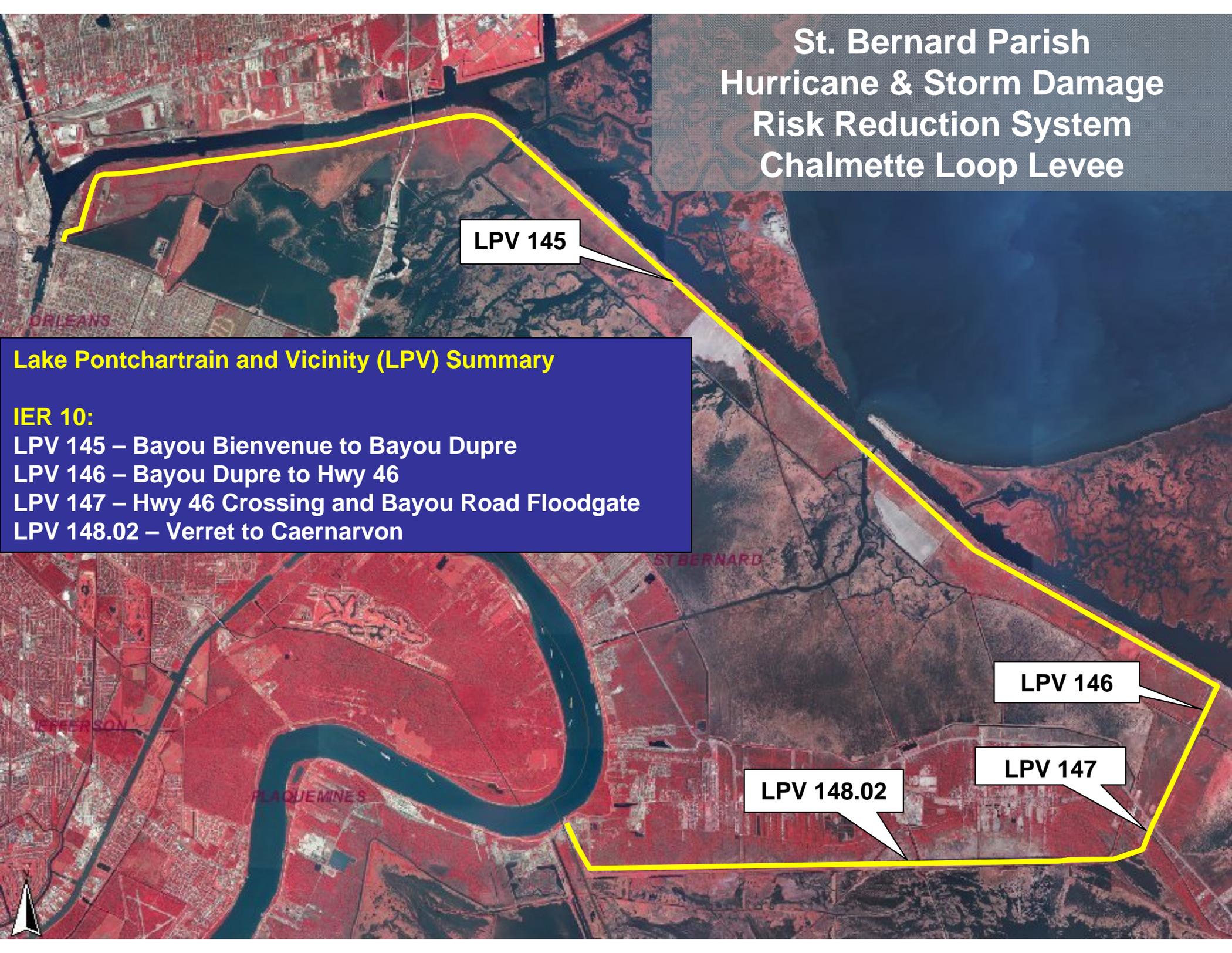
IER 10:

LPV 145 – Bayou Bienvenue to Bayou Dupre

LPV 146 – Bayou Dupre to Hwy 46

LPV 147 – Hwy 46 Crossing and Bayou Road Floodgate

LPV 148.02 – Verret to Caernarvon





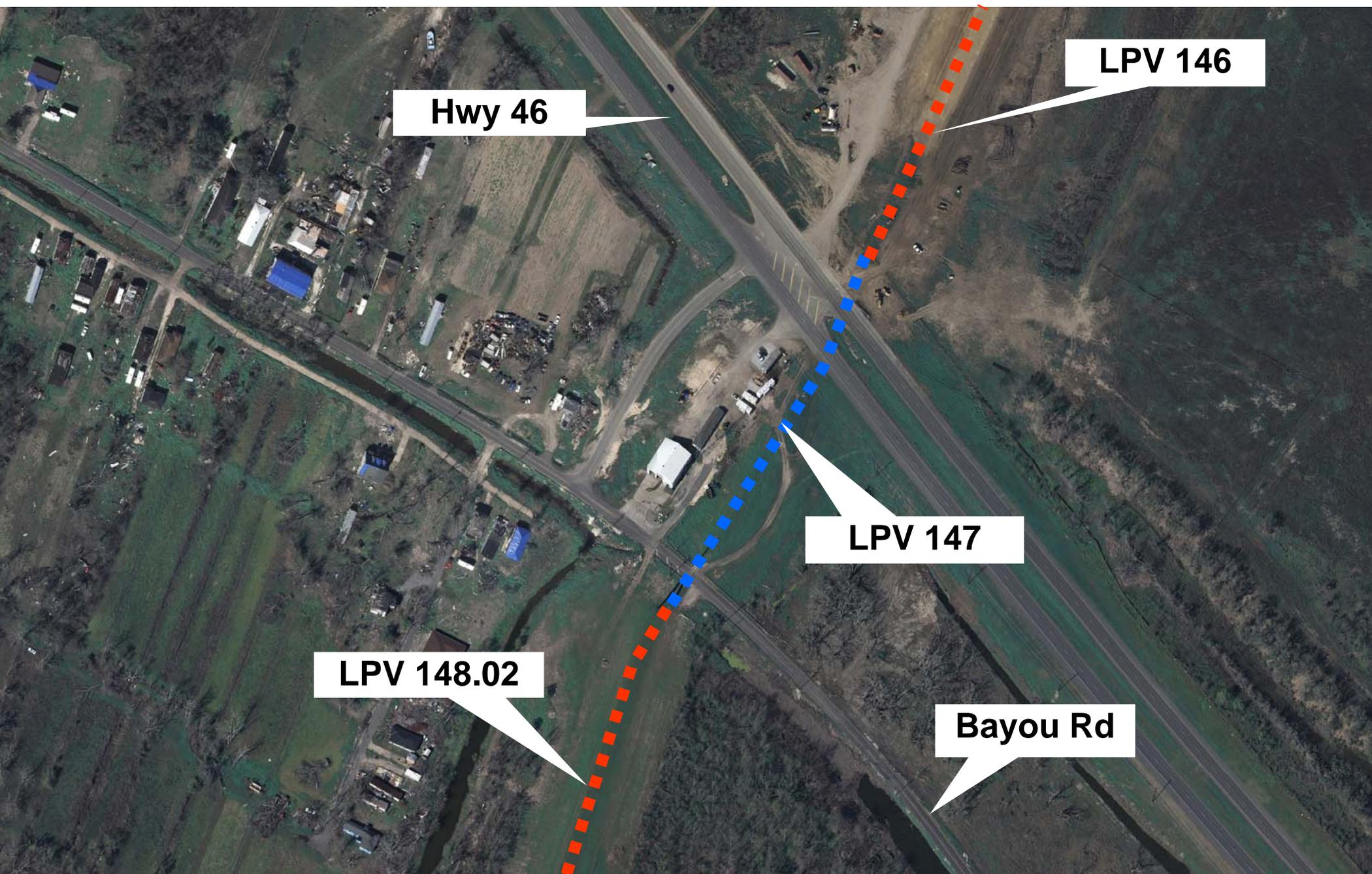
(IER 10) LPV 145: Bayou Bienvenue to Bayou Dupre

- Proposed action is the construction of a T-wall
 - **Existing Elevation: 20'**
 - **Project Elevation: 31.5'** (near Bayou Bienvenue area)
 - **Project Elevation: 29'** (near Bayou Dupre area)

(IER 10) LPV 146: Bayou Dupre to Highway 46

- Proposed action is the construction of a T-wall
 - **Existing Elevation: 20'**
 - **Project Elevation: 29'**

(IER 10) LPV 147: Chalmette Loop Levee



Hwy 46

LPV 146

LPV 147

LPV 148.02

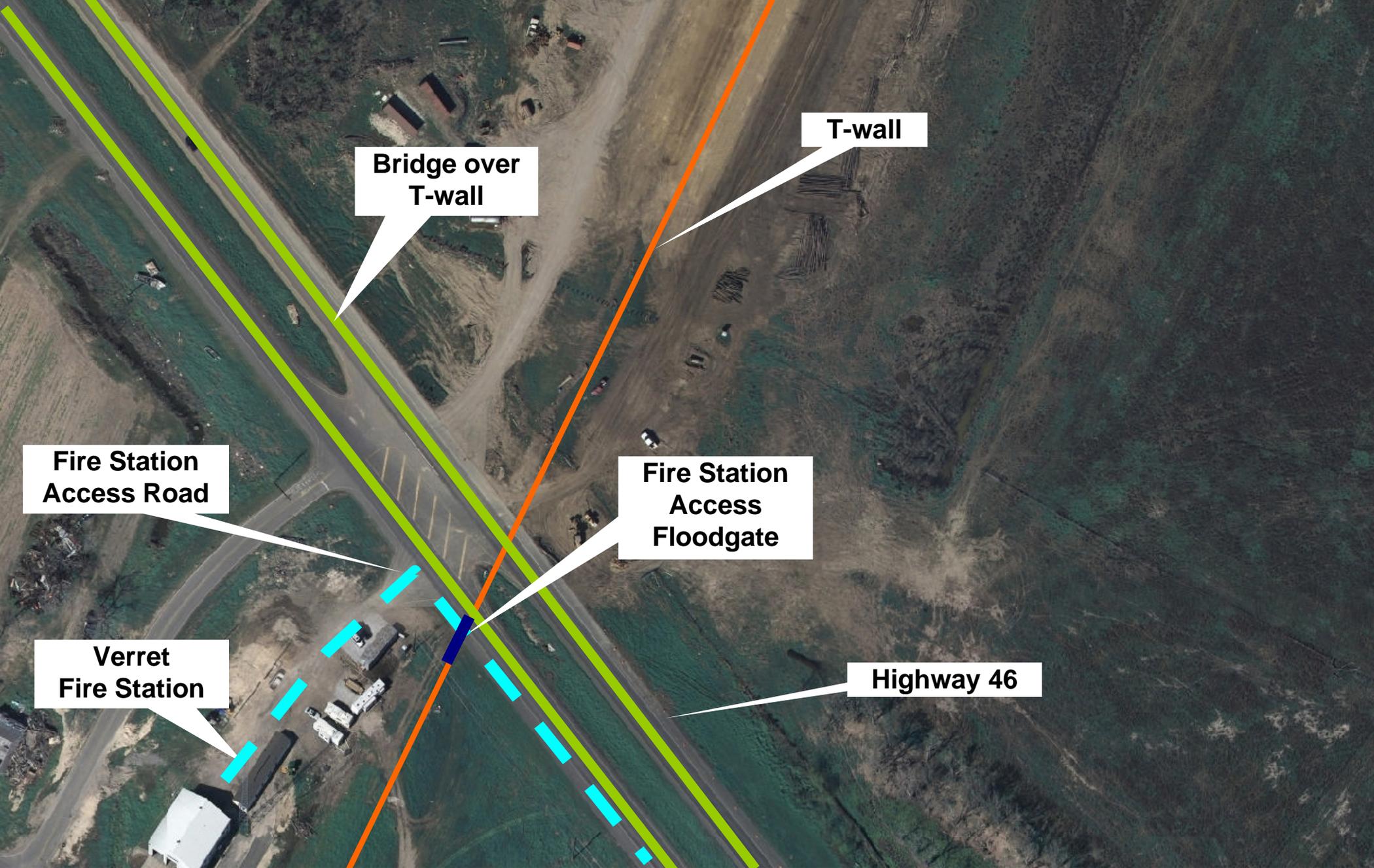
Bayou Rd



(IER 10) LPV 147: Hwy 46 Crossing and Bayou Road Floodgate

- Proposed action is the construction of a T-wall with a bridge over Hwy 46 and a new flood gate at Bayou Rd
- Continued coordination with:
 - Louisiana Department of Transportation and Development,
 - St. Bernard Parish
 - Lake Borgne Basin Levee District
 - Southeast Louisiana Flood Protection Authority – East,
 - Office of Coastal Protection and Restoration Authority
- **Existing Elevation: 15'**
- **Project Elevation: 29'**

(IER 10) LPV 147: Bridge with T-wall Option Proposed Action



Bridge over
T-wall

T-wall

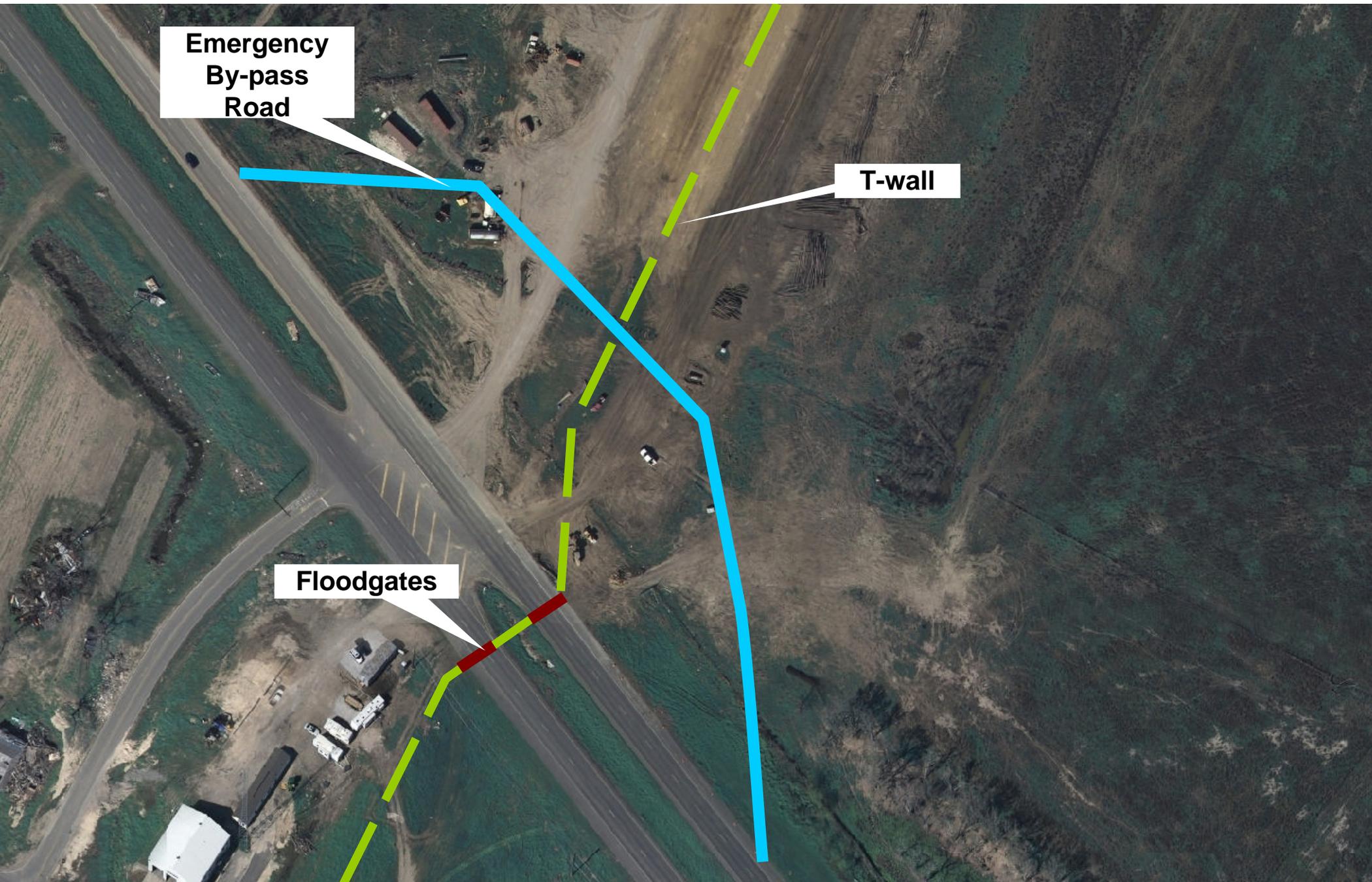
Fire Station
Access Road

Fire Station
Access
Floodgate

Verret
Fire Station

Highway 46

(IER 10) LPV 147: T-wall with Floodgate Option



Emergency
By-pass
Road

T-wall

Floodgates



(IER10) LPV 148: Verret to Caernarvon

Phase 1 (LPV 148.01 – not included in IER 10)

- Contract awarded 31 Oct 07 to raise levee to prior authorized elevation
- Notice to proceed issued 14 Jan 08
- Hauled 803,500 cubic yards of levee material to date; hauling scheduled to be complete in March
- Project is 85% complete
- Completion date: May 2009 (*project is on time*)

- **Phase 1 Existing Elevation: 17.5' – 14.0'**
- **Phase 1 Project Elevation: 20'**

Phase 2 (LPV 148.02)

- Recommended alternative is the construction of a T-wall

- **Phase 2 Project Elevation: 29'**



Project Description/IER Schedule

Proposed Action

IER 8: LPV 144 - Dupre Flood Gate <i>Anticipated Draft for Public Review: Spring / Summer '09</i>	Floodside shift of the current alignment
IER 9: LPV 149 - Caernarvon Floodwall <i>Anticipated Draft for Public Review: Summer '09</i>	T-wall alignment across canal
IER 10: LPV 145 - Bayou Bienvenue to Bayou Dupre <i>Anticipated Draft for Public Review: Spring '09</i>	T-wall
IER 10: LPV 146 - Bayou Dupre to Hwy 46 <i>Anticipated Draft for Public Review: Spring '09</i>	T-wall
IER 10: LPV 147 - Hwy 46 and Bayou Road Floodgate <i>Anticipated Draft for Public Review: Spring '09</i>	T-wall with bridge
IER 10: LPV 148.02 - Verret to Caernarvon <i>Anticipated Draft for Public Review: Spring '09</i>	T-wall

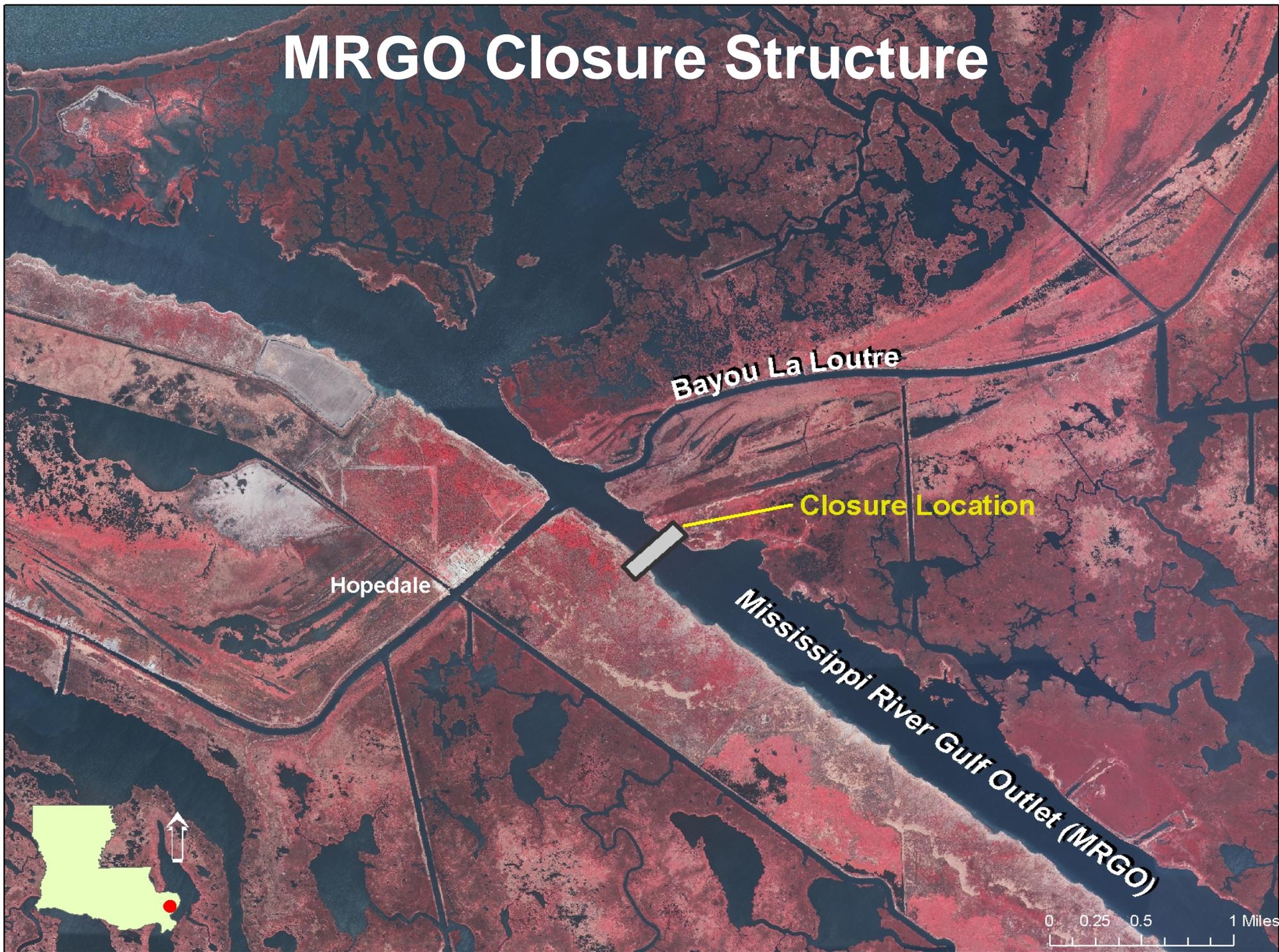
Borrow material need for St. Bernard Parish
Significantly reduced due to T-wall recommendations

IHNC Tier 2 Borgne Construction Status



- Dredging of the construction access channel is complete.
- Pile testing is 80% complete.
- Mid-March begin filling in MRGO with rock, sand, and Geotextile fabric.
- Steel and concrete piles are currently being fabricated.
- The deck system for the barrier wall will soon begin fabrication.

MRGO Closure Structure





MRGO Closure

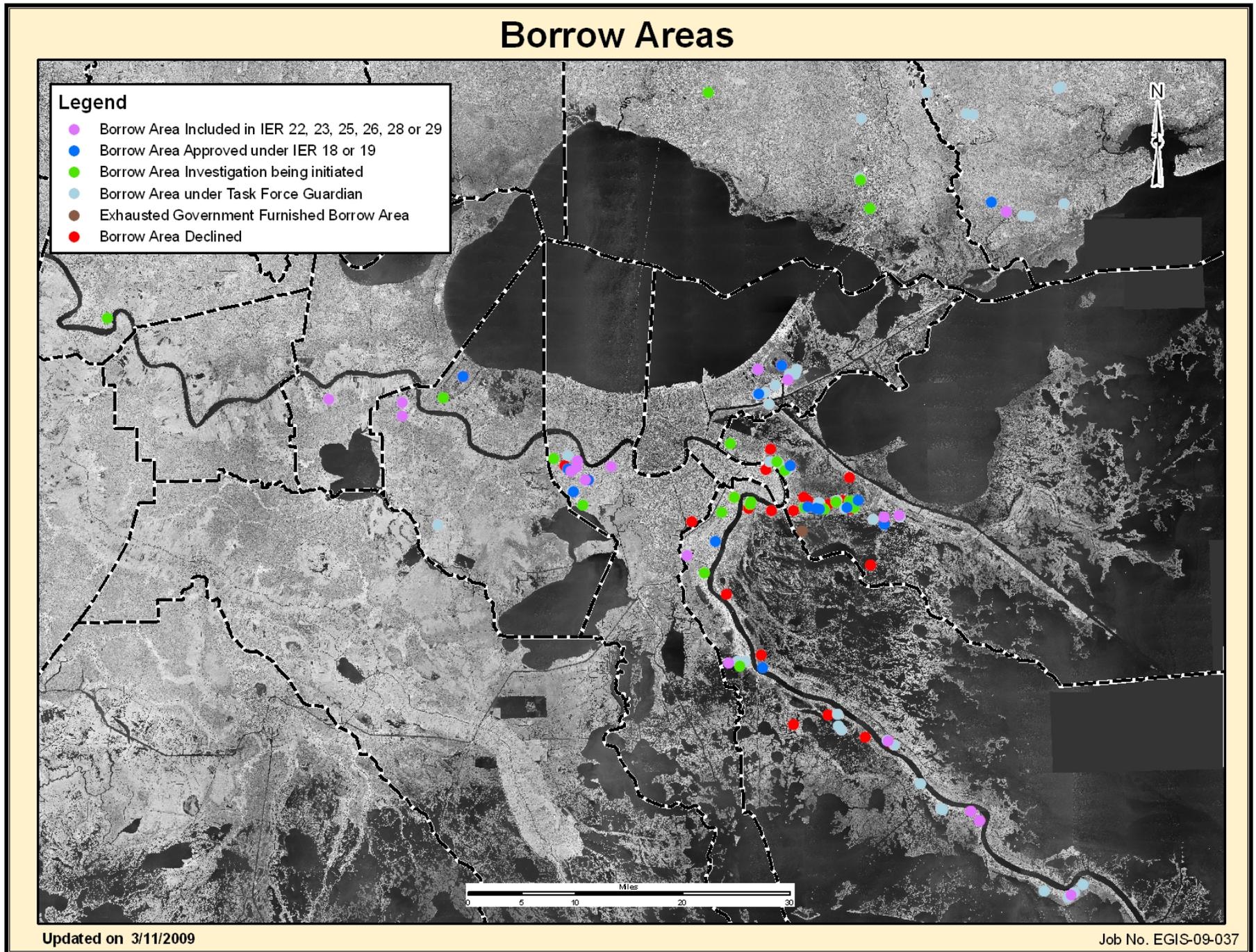
MRGO Closure Status

- Completion of the crushed stone bedding layer occurred on 27 Feb 09
- Bank tie-ins and installation of geotextile fabric currently underway
- The Channel will be officially closed when the structure reaches -14'
- Overall closure construction progress is currently at 16%
- All work is scheduled to be completed by 26 Jul 09

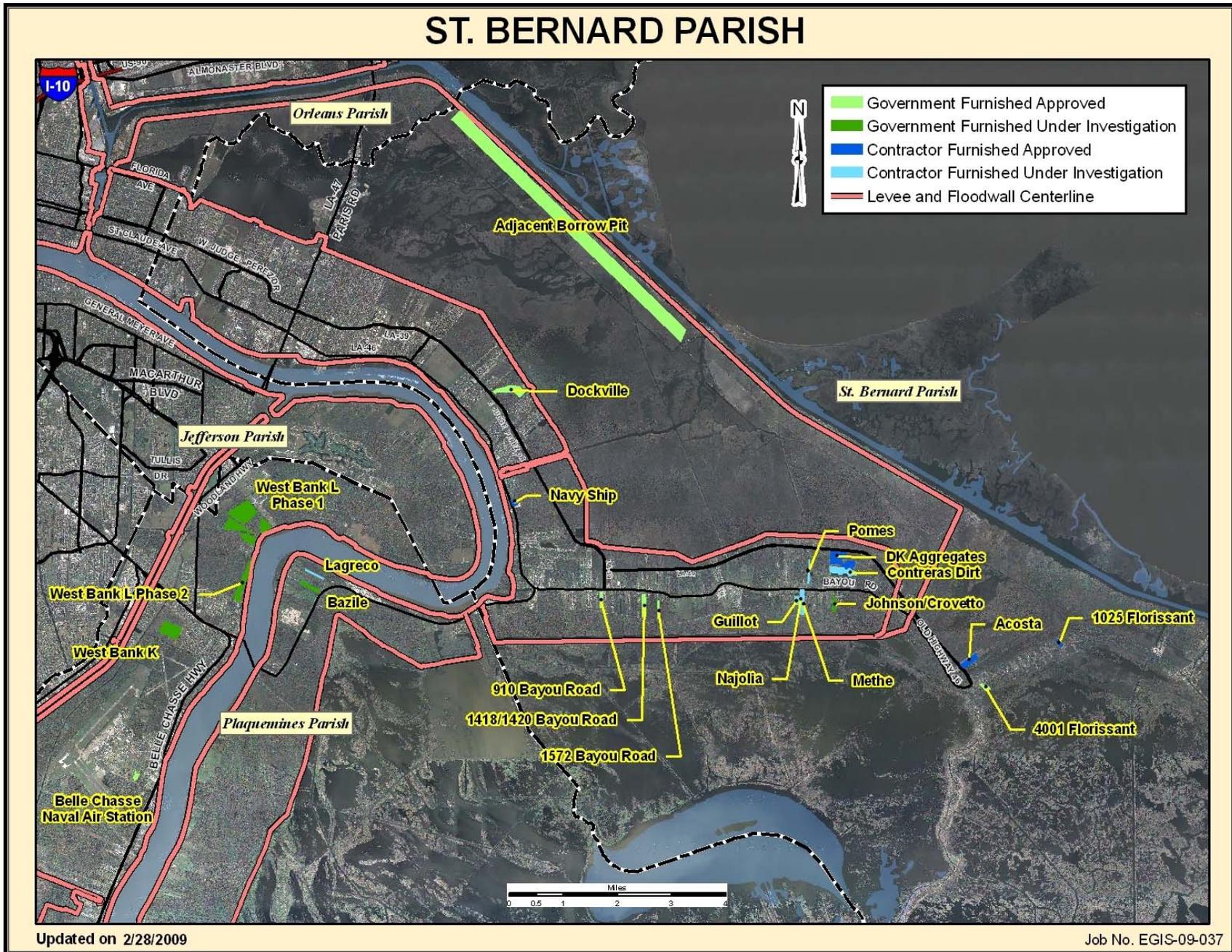
MRGO Closure Statistics

- 433,500 tons of rock
 - 2,600+ tons removed from south end jetty
- 12 feet wide at crown
- Structure base is approximately 450 feet wide
- +7 feet above water level
- Overbank tie-ins are 50 feet wide, 8 feet tall
 - Bank tie-ins: approximately 150 feet on the south bank
: approximately 250 feet on the north bank

Investigated Borrow-Site – System Wide



St. Bernard Borrow Map



Opportunities for Public Input

- Regular Public Meetings throughout the Hurricane and Storm Damage Risk Reduction System (HSDRRS) Area
- Make sure to sign in tonight to get on our meeting notification mailing list
- Comments can be submitted at any time at www.nolaenvironmental.gov
- Individual Environmental Reports (IER) 30-day Public Review

Questions and comments regarding Hurricane Risk Reduction Projects should be addressed to:

Gib Owen
PM-RS
P.O. Box 60267
New Orleans, LA 70160-0267
Telephone: 504-862-1337

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



www.nolaenvironmental.gov



NEW ORLEANS, LOUISIANA
Environmental Compliance Data Bank
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 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. [Learn more...](#)

FEATURED PROJECT



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

Announcements

- [IER 16 Western Tie-in 404 \(b\)\(1\) public notice Comment](#) Period 2/23 - 3/25
- The Decision Record for [IER 12](#) has been signed by the District Commander (*February 18, 2009*)
- The EPA comment period for the Bayou aux Carpes Clean Water Act Section 404(c) modification request has been extended through [February 23, 2009](#)
- Draft [IER 4 Public Comment](#) Period 2/3 - 3/4

[More...](#)

Upcoming

- 03/03/2009 - Public Meeting (IER 4 and 11 Tier 2 Pontchartrain)
- 03/04/2009 - Draft IER 4 Public Comment Period Ends

[More...](#)

Newly Available

NEW >> [NOLA Environmental Basic Data Viewer](#)

- [News Release 25 February 09 Orleans and St. Bernard March Public Meetings](#)
- [IER 16 Western Tie-in 404 \(b\)\(1\) Public Notice](#)

[More...](#)

Get Involved...

Send a Comment...

to the US Army Corps of Engineers
New Orleans District



Subscribe Today!

Nola Environmental Email List

Stay informed of news releases, public meetings, and other important information.

Subscribe...

**NEPA & Clean Water
404 Public Notice
Physical Mailing List**