



US Army Corps of Engineers



# Greater New Orleans Hurricane and Storm Damage Risk Reduction System

## Westbank and Vicinity Projects

### Individual Environmental Reports 12, 13, 14 and borrow

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Mr. Tim Connell, Project Manager  
Mr. Mike Stack, Project Manager  
Our Lady of Holy Cross College  
August 21, 2008

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*Building Strong*

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# Why we are here tonight

**To discuss the status of in-progress improvements and recommended alternatives that will reduce risk to communities in the Westbank and Vicinity portion of the Greater New Orleans Hurricane and Storm Damage Risk Reduction System.**



# National Environmental Policy Act: NEPA

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



## Ongoing Construction

### Harvey Floodwalls



- Boomtown Casino to Hero Pump Station awarded Mar. 2007
- Lapalco to Boomtown awarded Feb. 2008
- Hero Pump Station awarded Jul. 2008
- Boomtown Floodwall Awarded Jul. 2008
- 1 Remaining Task Order to be awarded in Sept. 2008

### Harvey Floodgate



- Harvey Floodgate operational
- Provides protection across canal to elevation +11



# Ongoing Construction

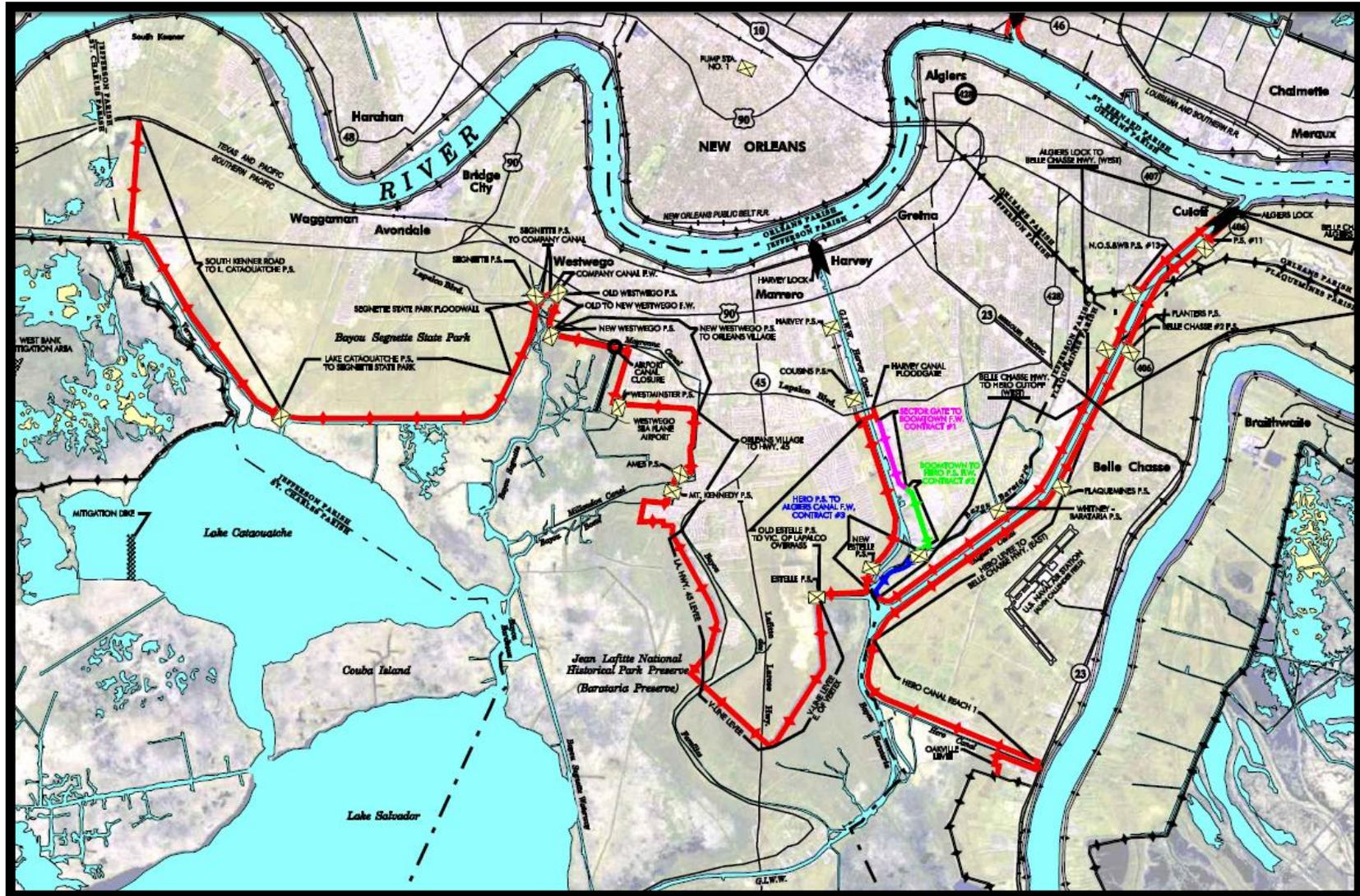
## Algiers Canal Levees

- Contract awarded Jan. 2008 to raise the levee along the west bank of the Algiers Canal from Belle Chasse Hwy to Hero Cutoff to elevation +10.
- Remaining levees on the west bank, and all levees along the east bank of the canal, have been previously improved for hurricane protection.
- Contract awarded Apr. 2008 to raise levees along the west bank of the Harvey Canal.





## Westbank and Vicinity Hurricane Protection Project



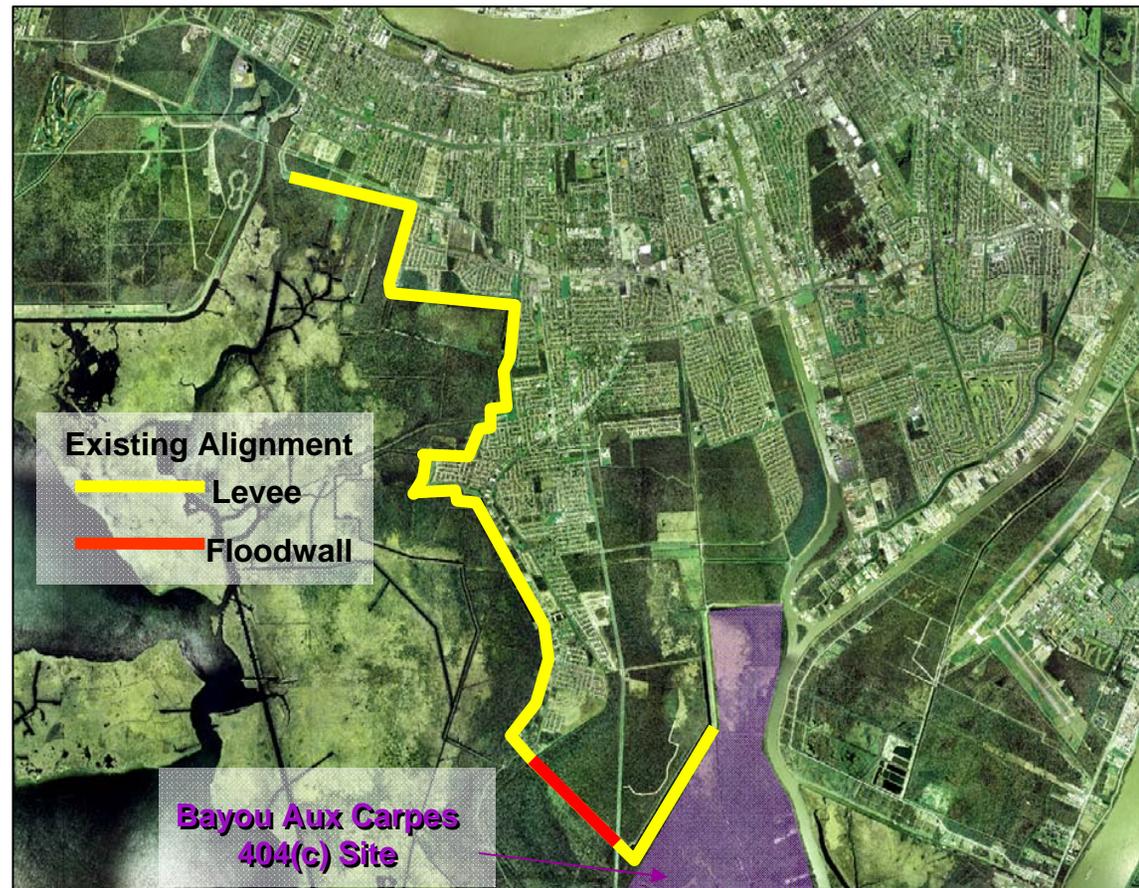


# Westwego to Harvey Levees and Floodwalls (IER 14)

- Public comment period closed in early Aug. 2008.
- New Orleans District Commander, Col. Alvin Lee, is expected to sign the IER 14 Decision Record in late Aug. 2008

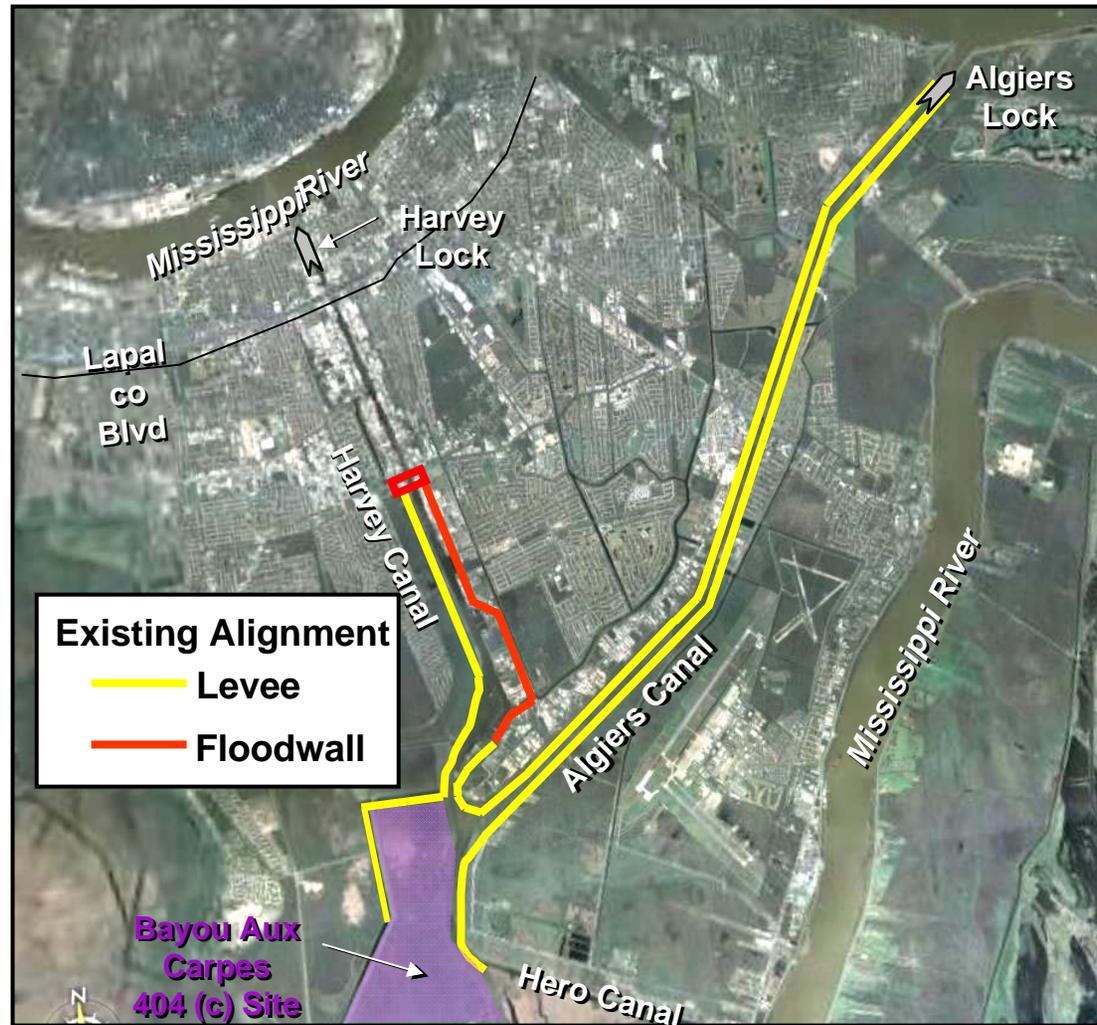
## Recommend Plan:

- Raise earthen levees along the current alignment to elevation 14
- Replace existing I-wall with a T-wall





# Harvey and Algiers Canals (IER 12 )





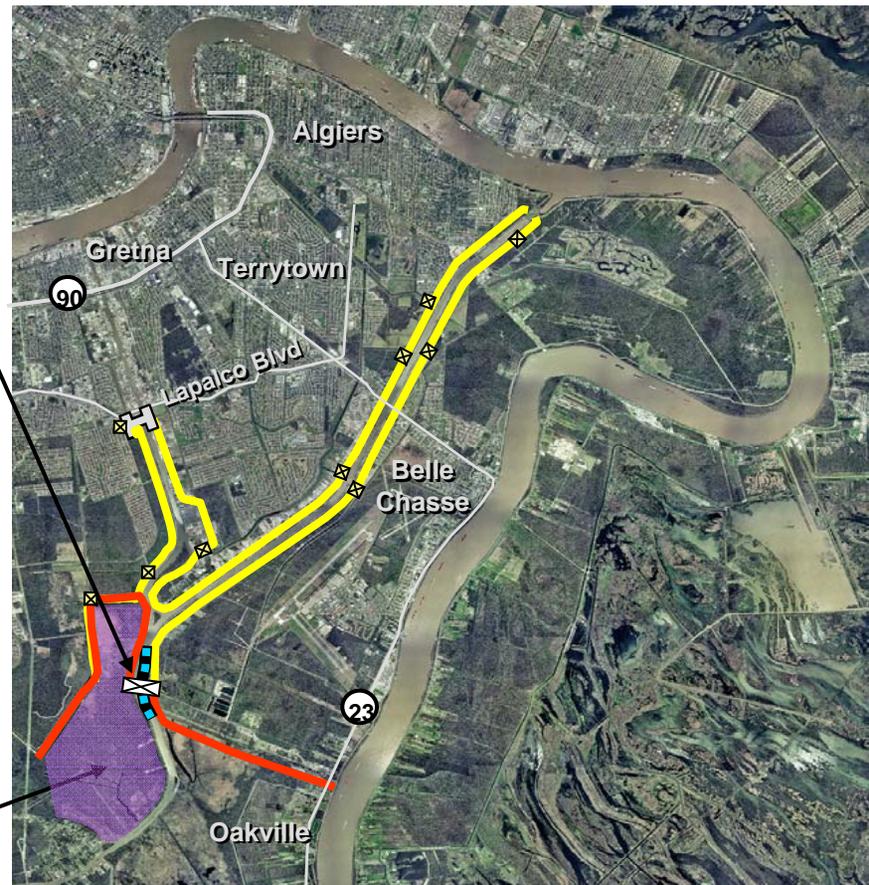
# Recommended Alternative (IER 12) Floodgate on GIWW and Pump Station

Floodgate and permanent bypass channel in the GIWW below the confluence of the Algiers and Harvey Canals to the 100-yr level of protection

-  Lapalco Floodgate and Cousins PS Discharge Channel Walls at previously authorized level of protection
-  Proposed Floodgate and pump station at 100-yr level of protection
-  GIWW permanent bypass channel
-  Levees and Floodwalls to the previously authorized level of protection or greater
-  Levees and Floodwalls to the 100-yr level of protection
-  Pump Stations



**Bayou Aux Carpes 404 (c) site**





## Hero to Oakville Levees and Floodwalls (IER 13)

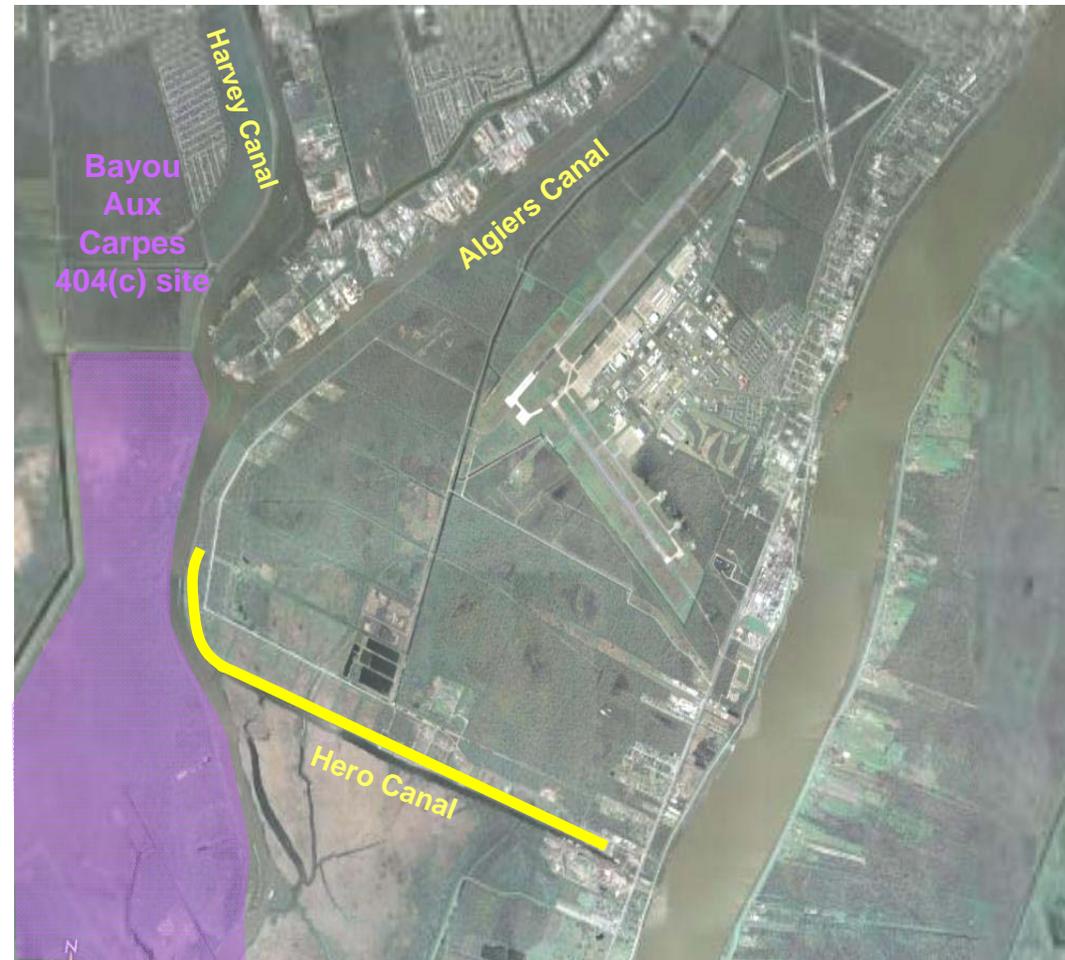




# Hero Levee

## Alternative Under Consideration:

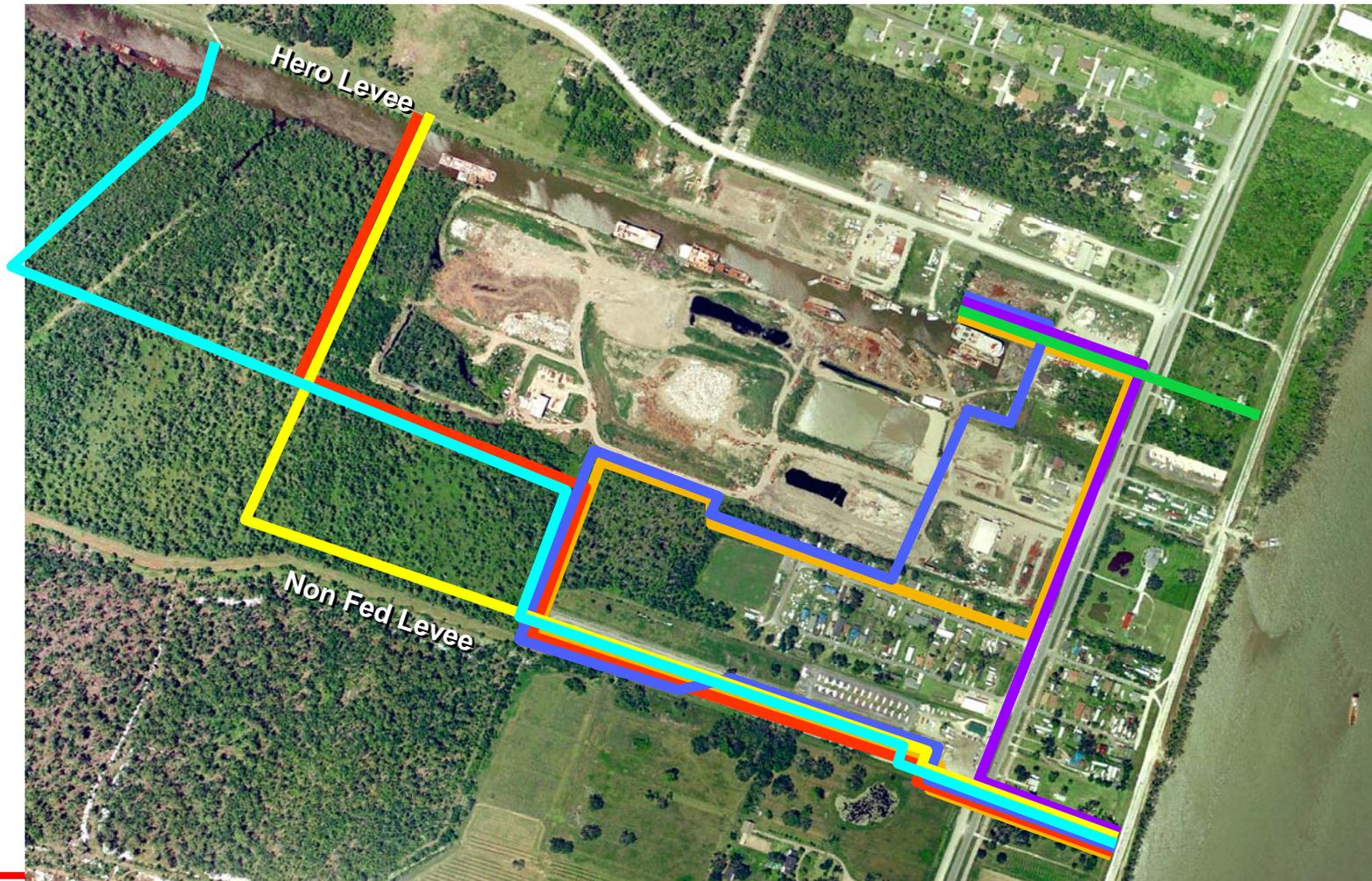
- Levee enlargement (straddle, landside or floodside shift) and floodwalls
- Earthen levee section (landside shift)





# Hero to Oakville (IER 13)

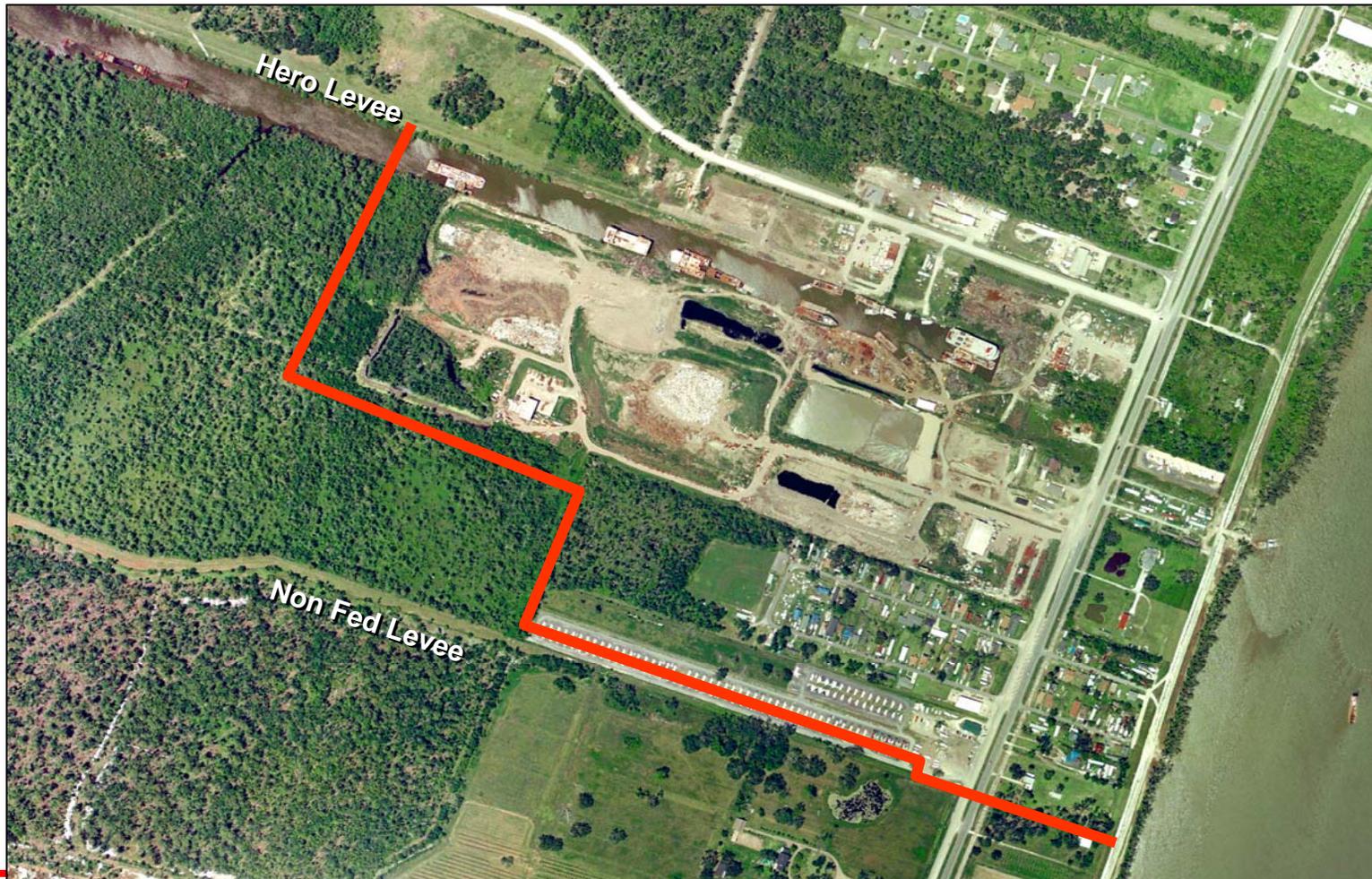
All Alternatives Under Consideration





# Hero to Oakville (IER 13)

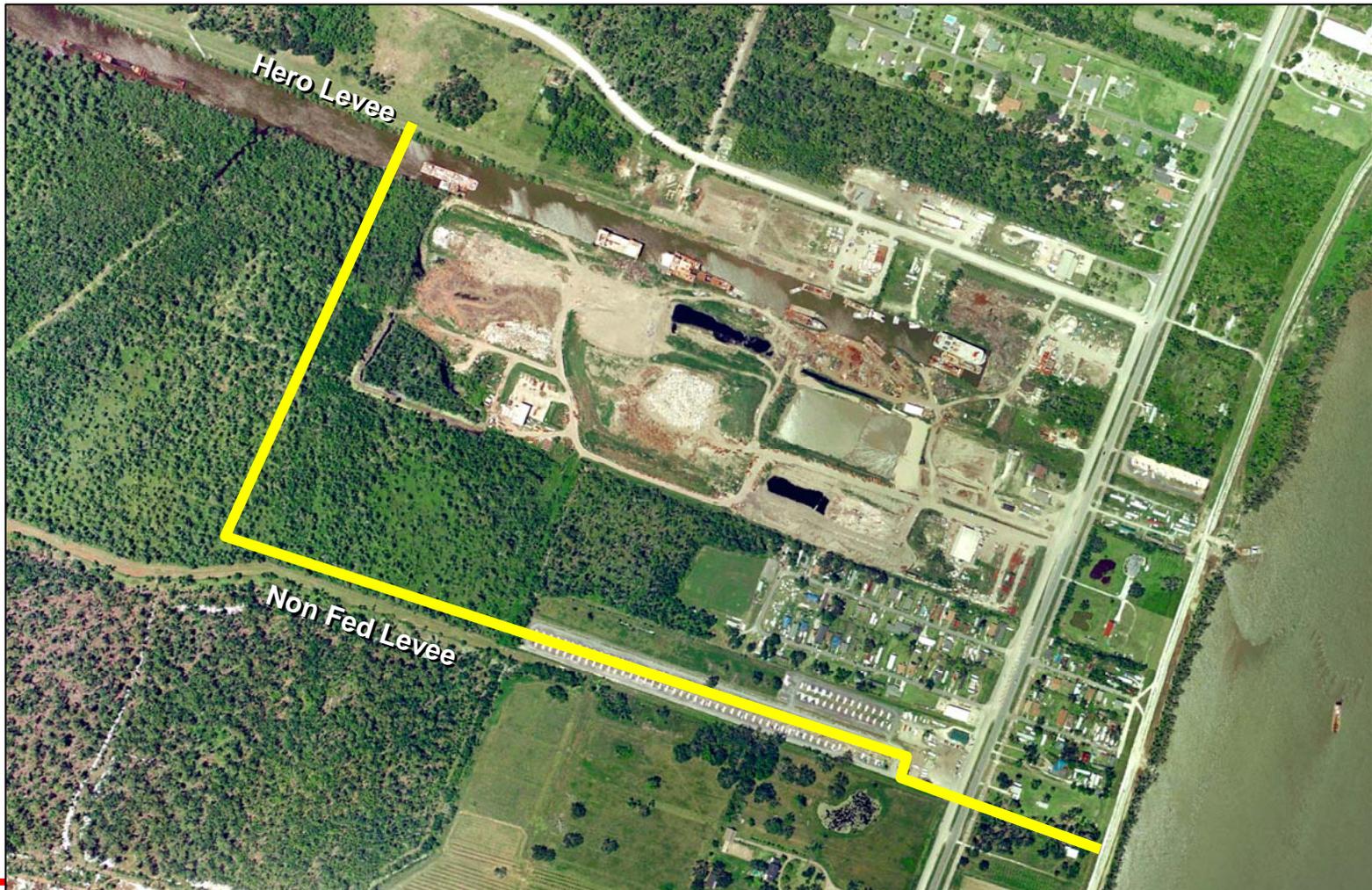
## Alternative 1





# Hero to Oakville (IER 13)

## Alternative 2





# Hero to Oakville (IER 13)

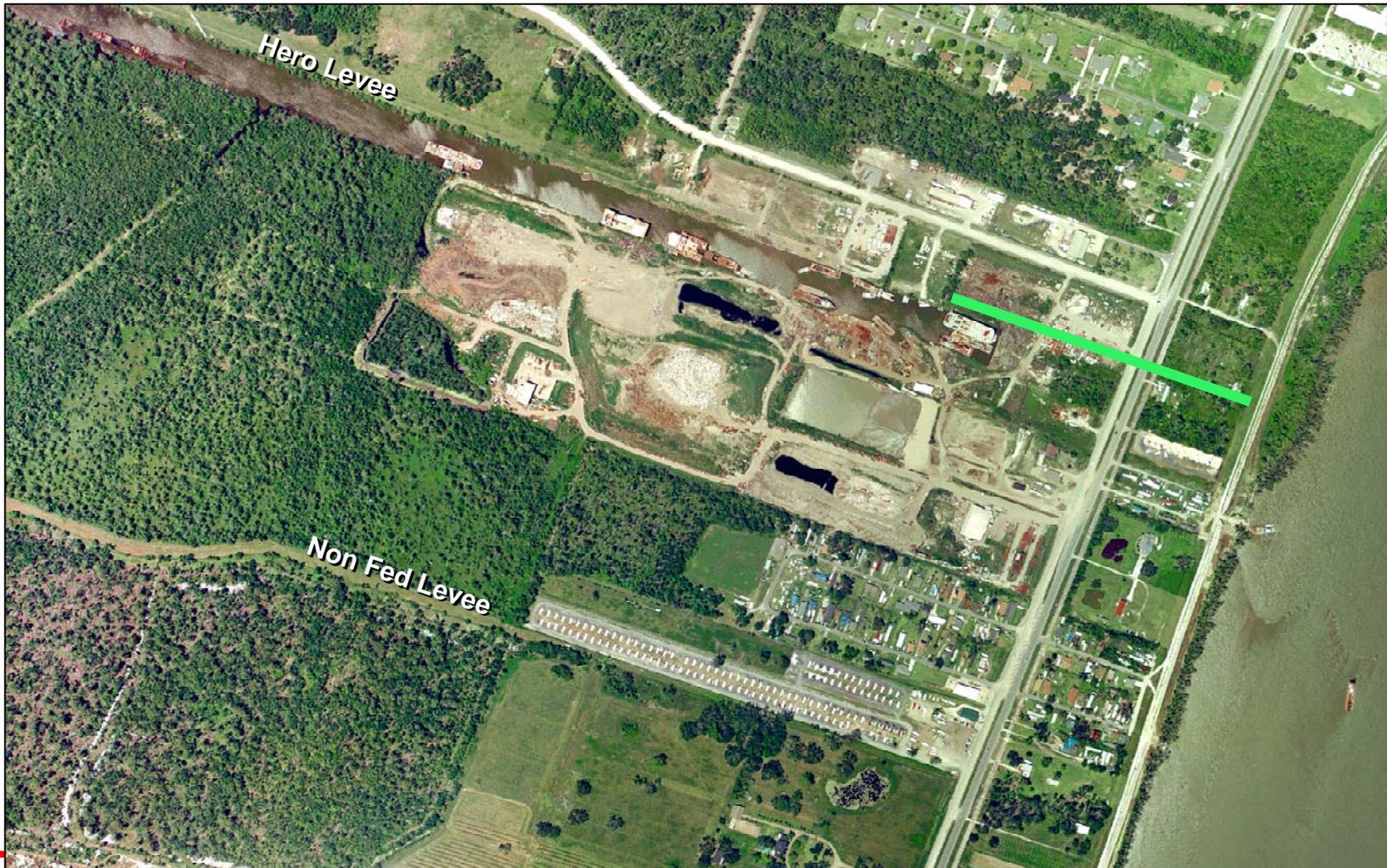
## Alternative 3





# Hero to Oakville (IER 13)

## Alternative 4





# Hero to Oakville (IER 13)

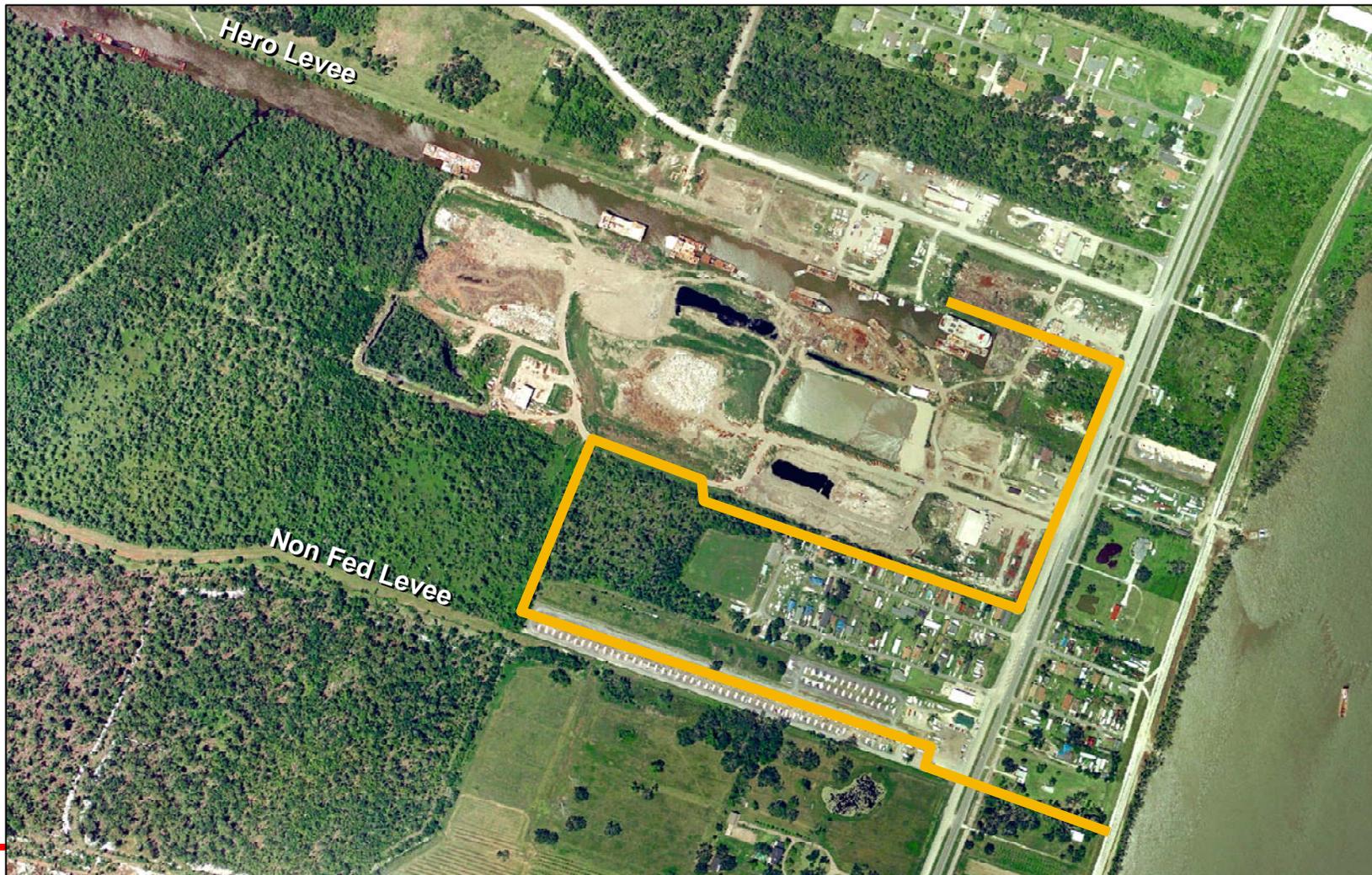
## Alternative 5





# Hero to Oakville (IER 13)

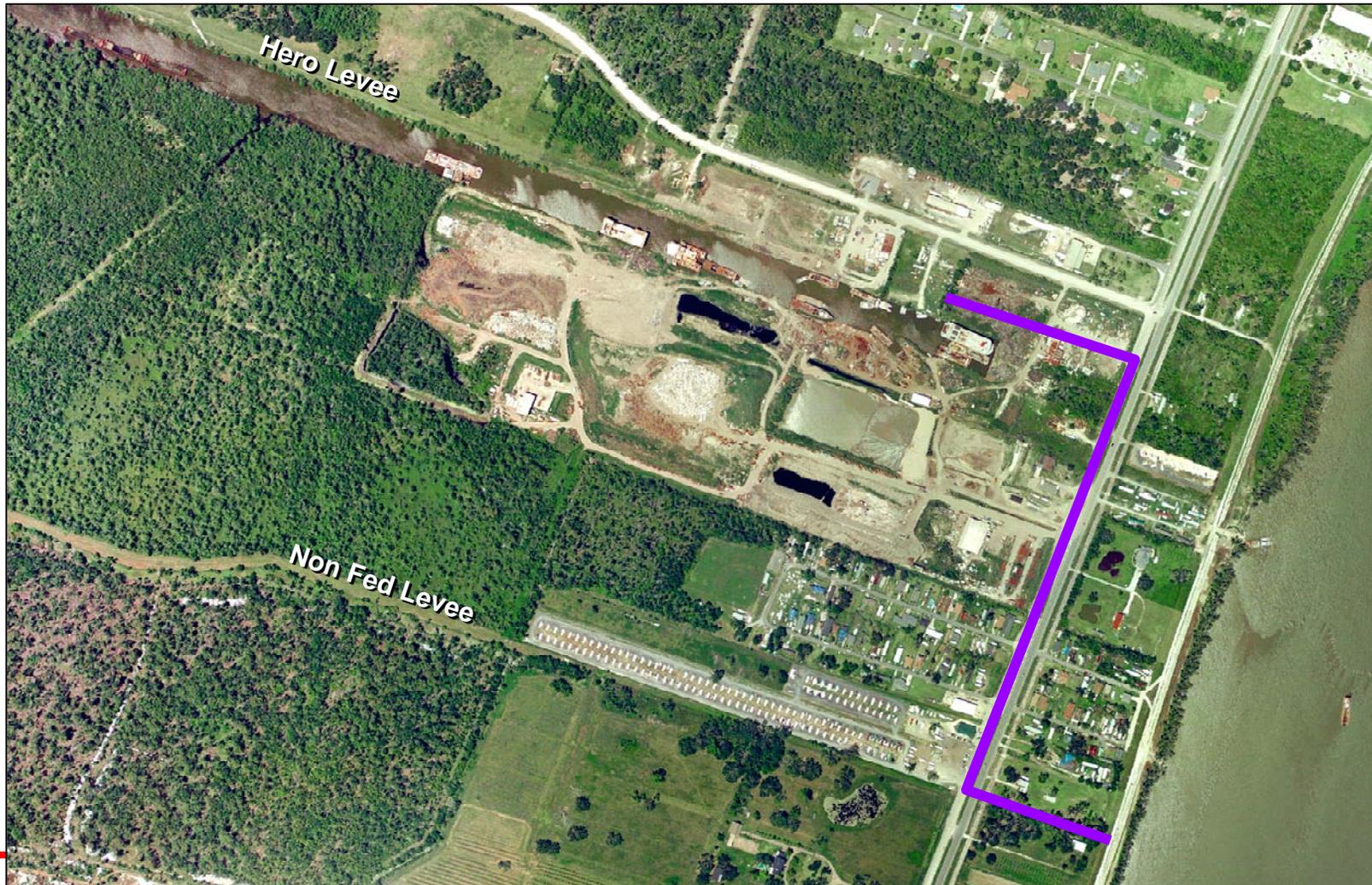
## Alternative 6





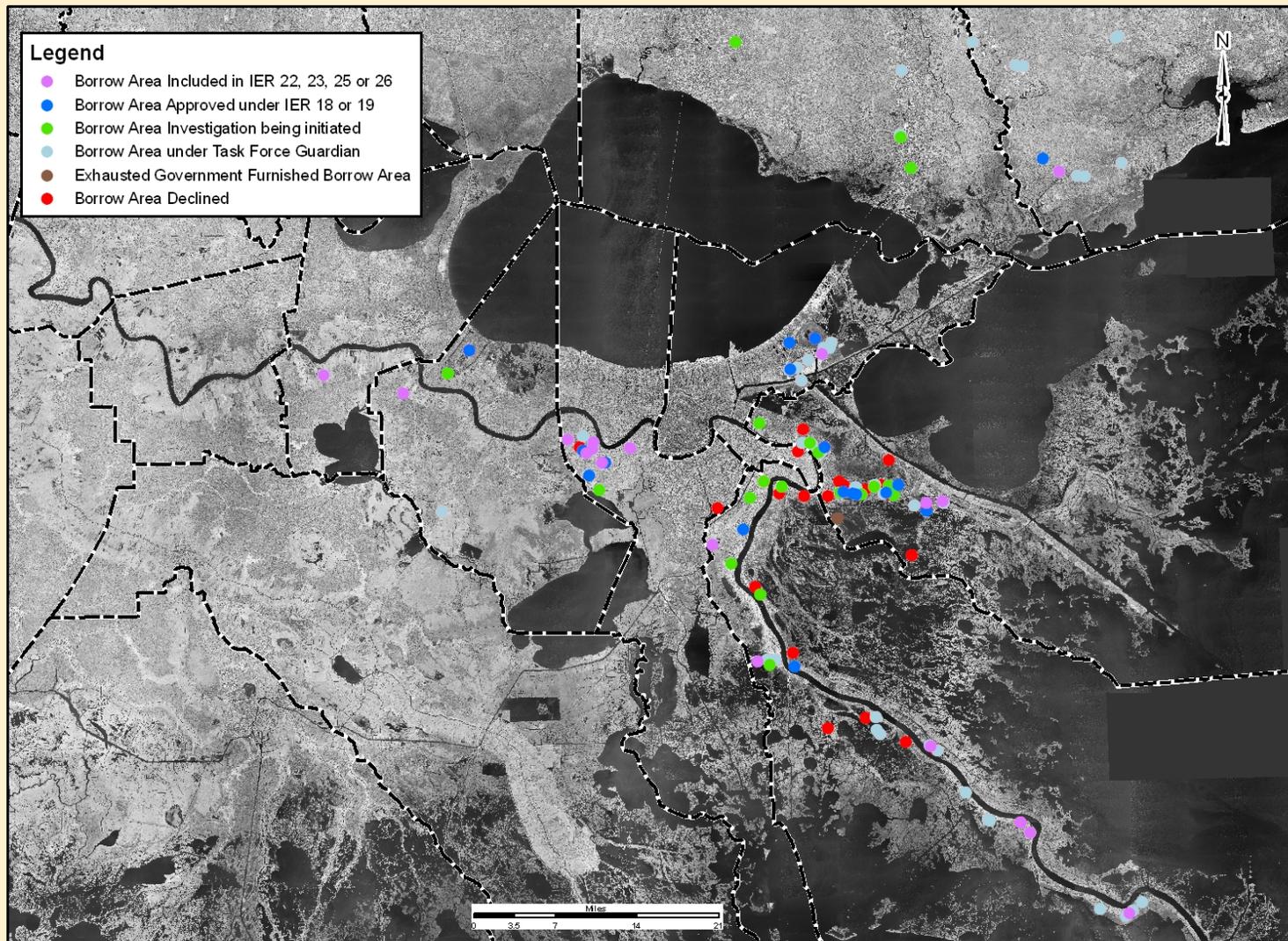
# Hero to Oakville (IER 13)

## Alternative 7



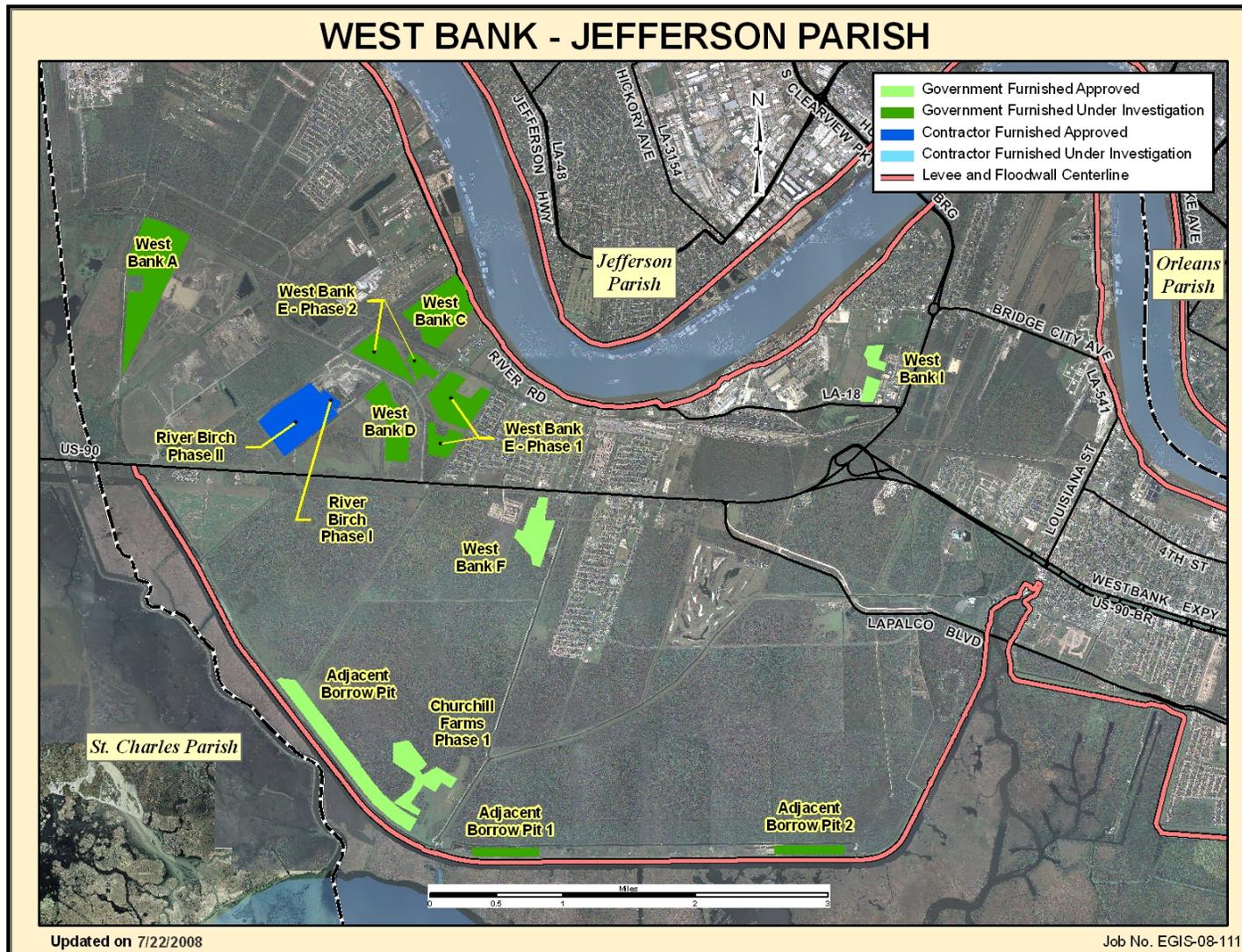


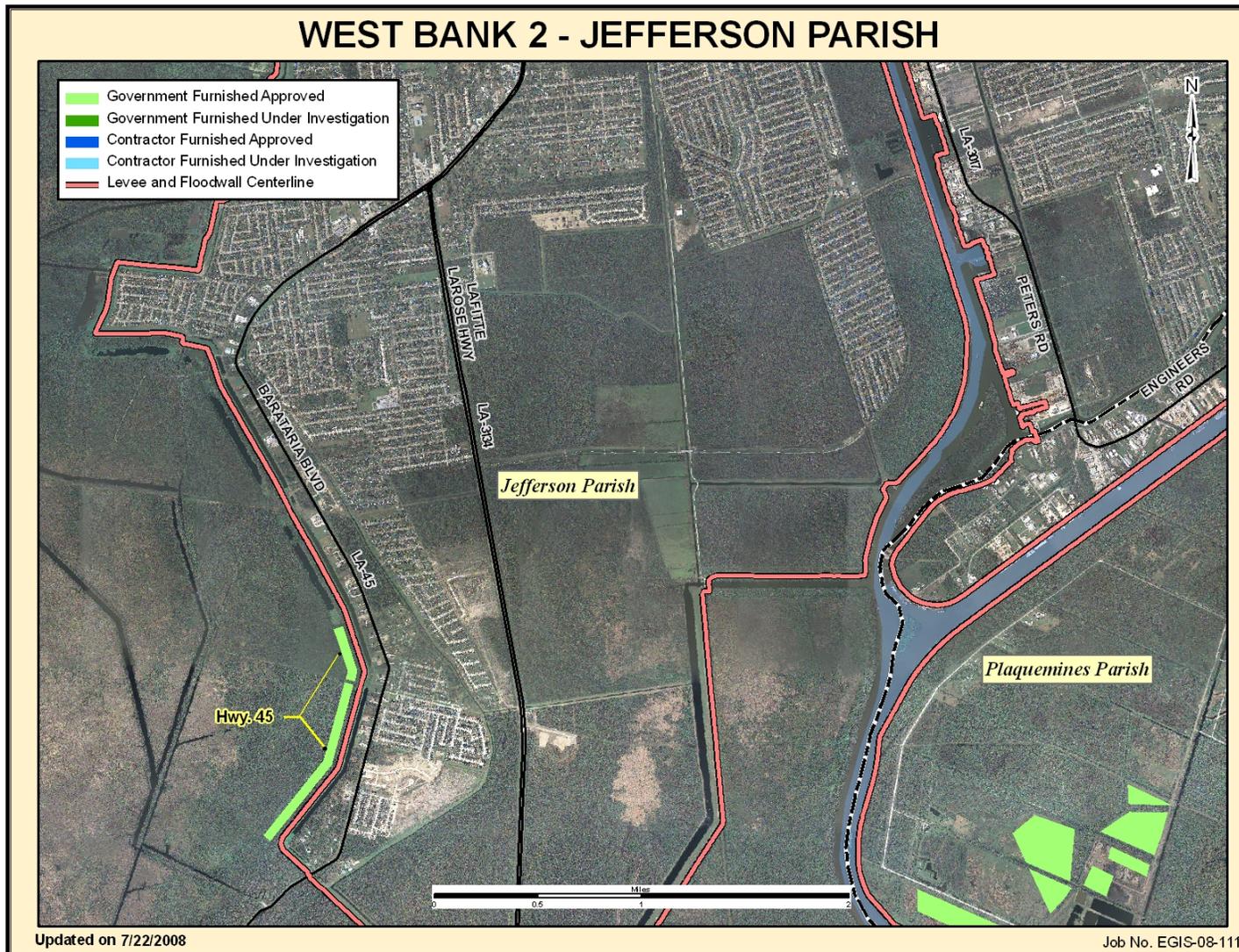
## Borrow Areas

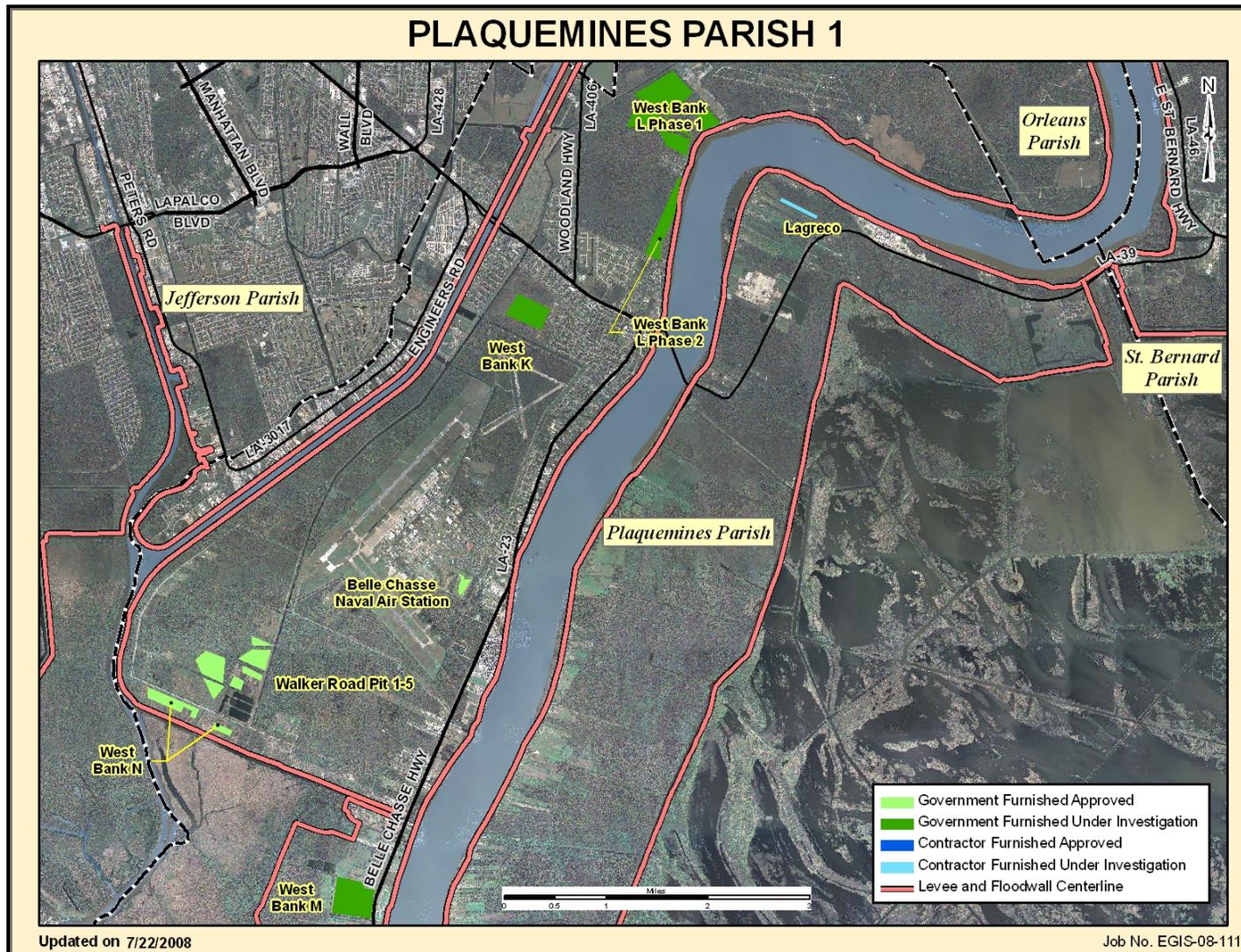


Updated on 7/30/2008

Job No. EGIS-08-111

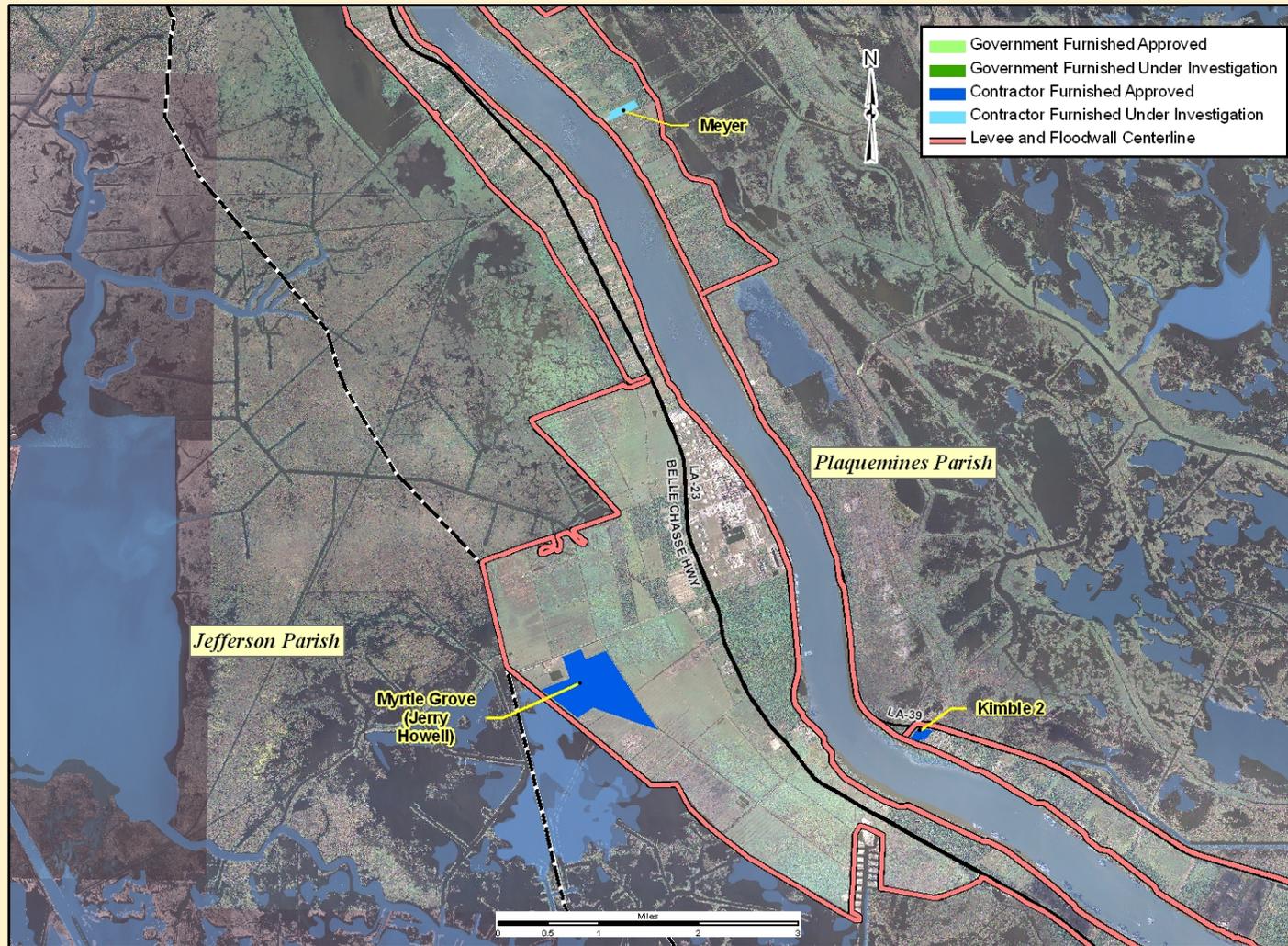








## PLAQUEMINES PARISH 2



Updated on 7/22/2008

Job No. EGIS-08-111



# IER Currently Available for Public Review

## IER 11 Tier 2 Borgne – Improved Protection at the Inner Harbor Navigation Canal

- Released for Public Review and Comment: Aug. 20, 2008
- Public Comment Period closes: Sept. 18, 2008

\* copies available at [www.nolaenvironmental.gov](http://www.nolaenvironmental.gov) or by request



# Opportunities for Public Input

- Monthly Public Meetings throughout New Orleans Metro Area
- Comments can be submitted at: [www.nolaenvironmental.gov](http://www.nolaenvironmental.gov)
- Individual Environmental Reports (IER) 30-day Public Review

Questions and comments regarding Greater New Orleans Storm Damage Risk Reduction System 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)**



## 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 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

- The public meeting scheduled for Aug. 6, 2008 has been cancelled. Please check the [NOLA Environmental calendar](#) for future meeting dates.
- The Decision Record for **IER 3** has been signed by the District Commander (*July 25, 2008*)
- The Decision Record for **IER 2** has been signed by the District Commander (*July 18, 2008*)
- Draft **IER 14** Public [Comment](#) Period 6/30 - 8/4
- The Decision Record for **IER 15** has been signed by the District Commander

[More...](#)

### Upcoming

- [08/19/2008 - Small Neighborhood Focus Meeting](#)
- [08/21/2008 - Public Meeting \(IERs 12 13 14\)](#)

[More...](#)

### Newly Available

- [IER 11 Tier 2 Borgne Hydraulics - Hydroperiod Modeling Study Report](#)
- [IER 11 Tier 2 Borgne Hydraulics - Hydroperiod Modeling Study Report : Appendix A Hydrographs](#)

[More...](#)



US Army Corps of Engineers



# Discussion



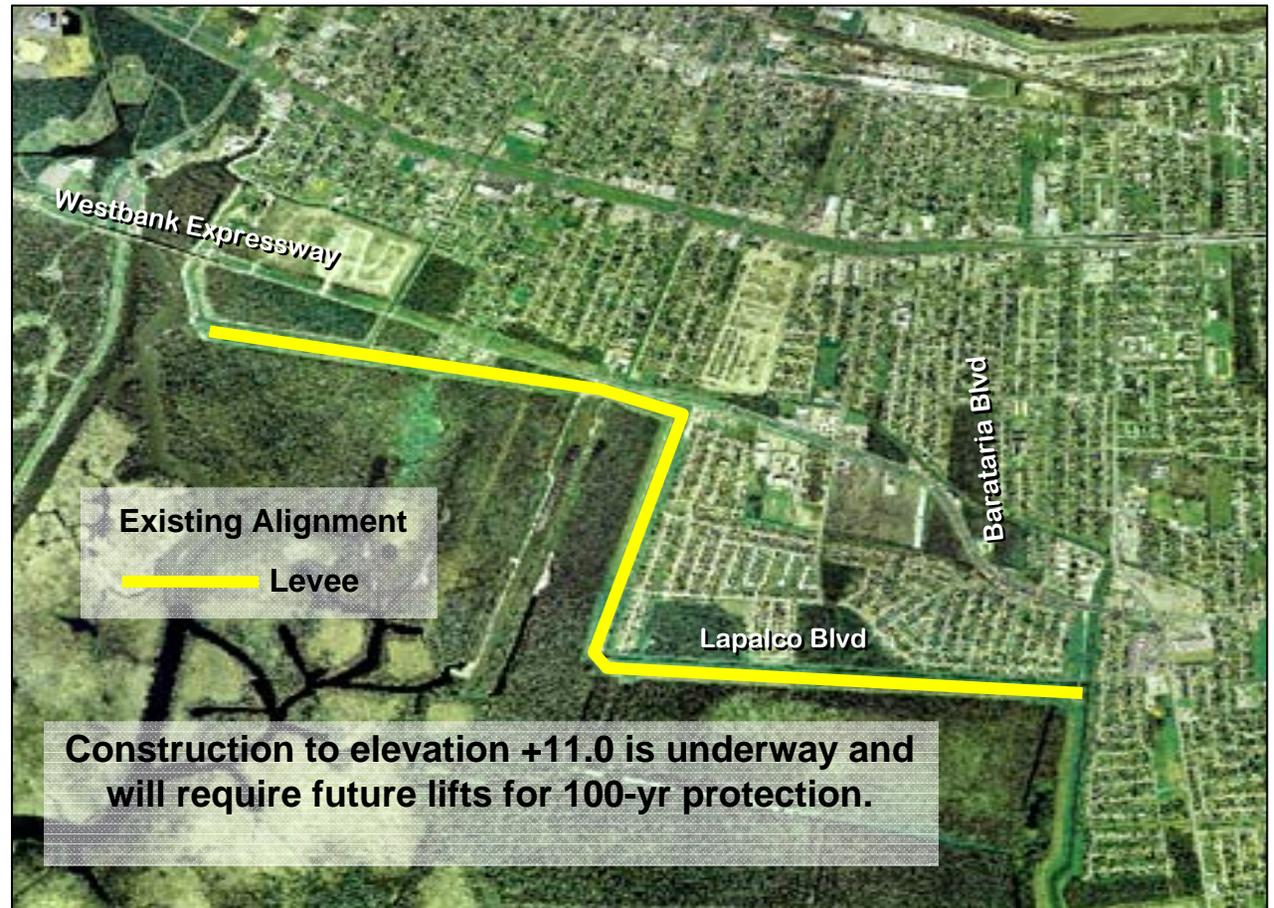
# WBV-14c.2 New Westwego Pump Station to Orleans Village Levee Enlargement (IER 14)

## Alternatives Considered:

- Levee Enlargement (straddle, landside or floodside shift) and floodwalls

## Recommended Plan:

- Earthen levee section to elevation +14 within existing right-of-way
- May require geotextile fabric and/or soil mixing





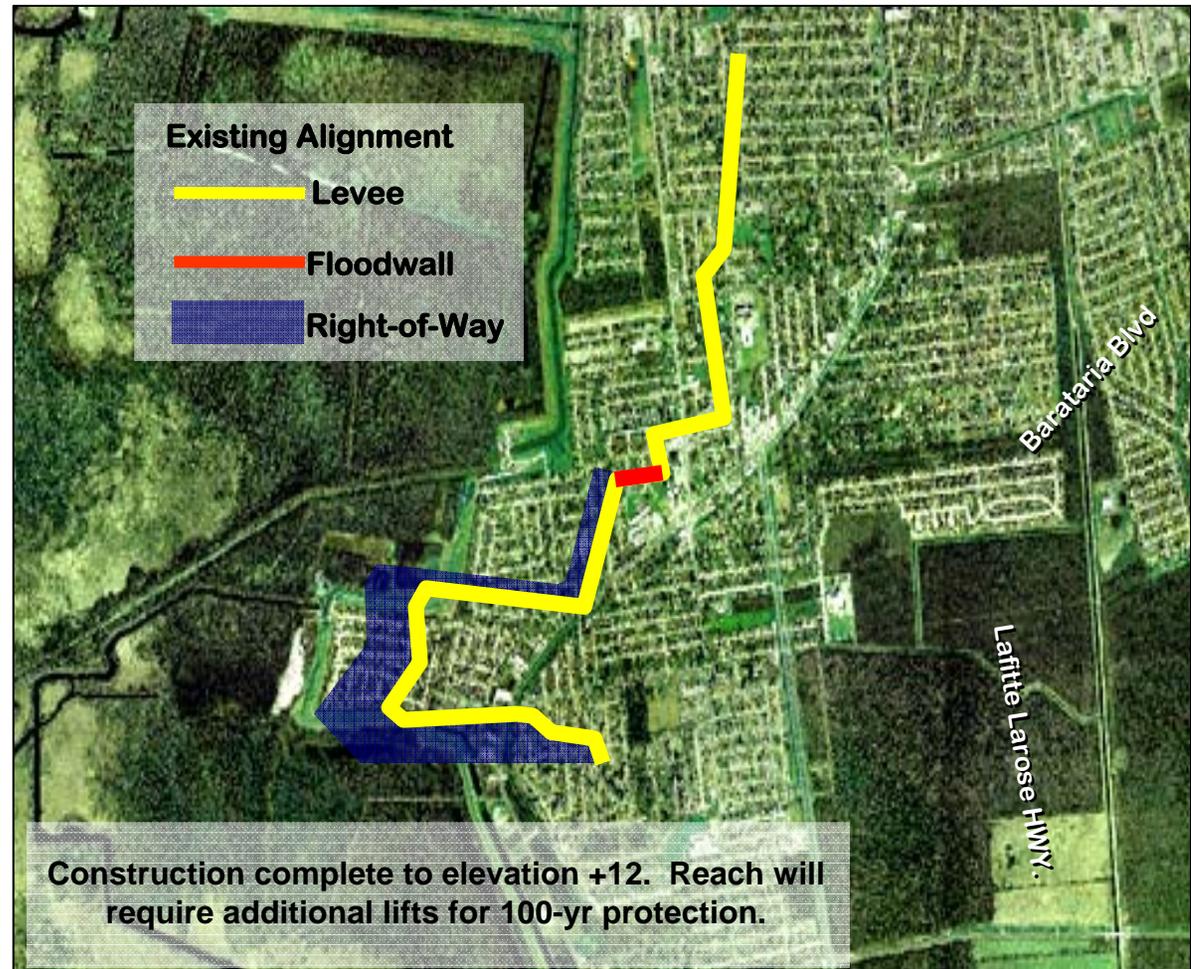
## WBV-14b.2 Orleans Village to Hwy 45 Levee Enlargement (IER 14)

### Alternatives Considered:

- Levee Enlargement (straddle, landside or floodside shift) and floodwalls

### Recommended plan:

- Earthen levee section to elevation +14 within existing right-of-way.
- May require geotextile fabric and/or soil mixing





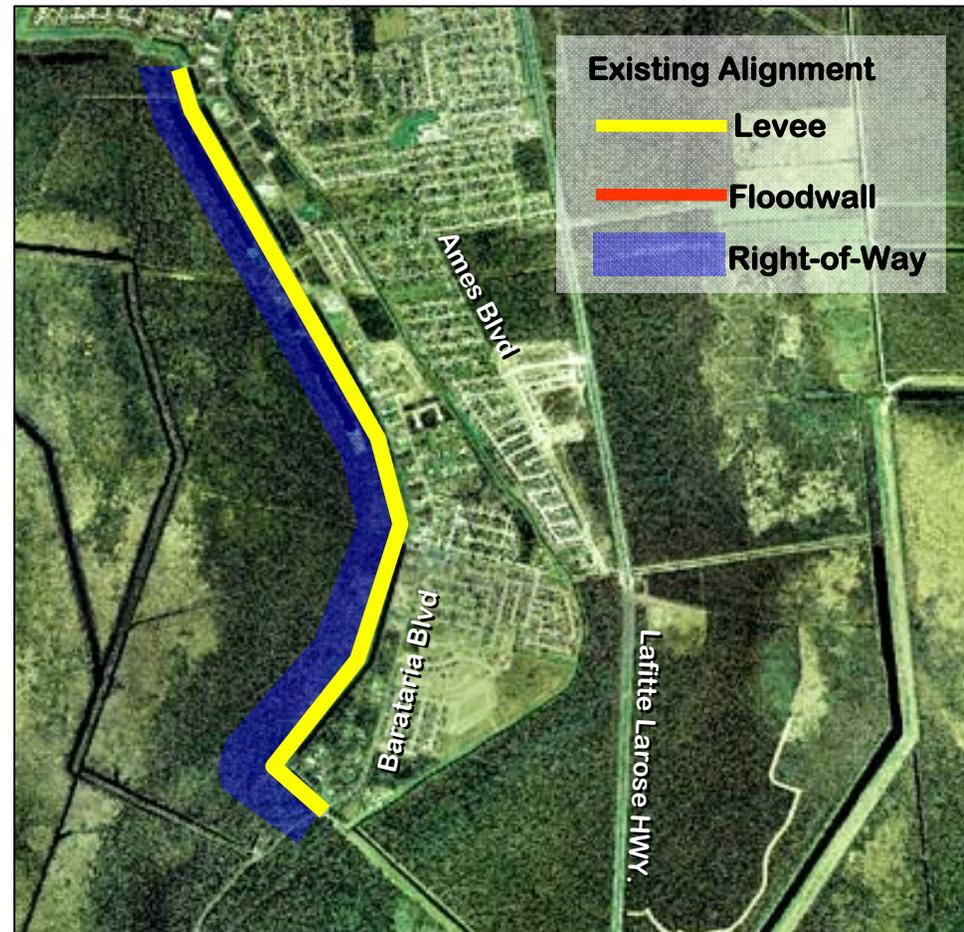
# WBV-14f.2 Hwy 45 Levee Enlargement (IER 14)

## Alternatives Considered:

- Levee Enlargement (straddle, landside or floodside shift) and floodwalls

## Recommended plan:

- Earthen levee section to elevation +14 within existing right of way.
- May require geotextile fabric and/or soil mixing





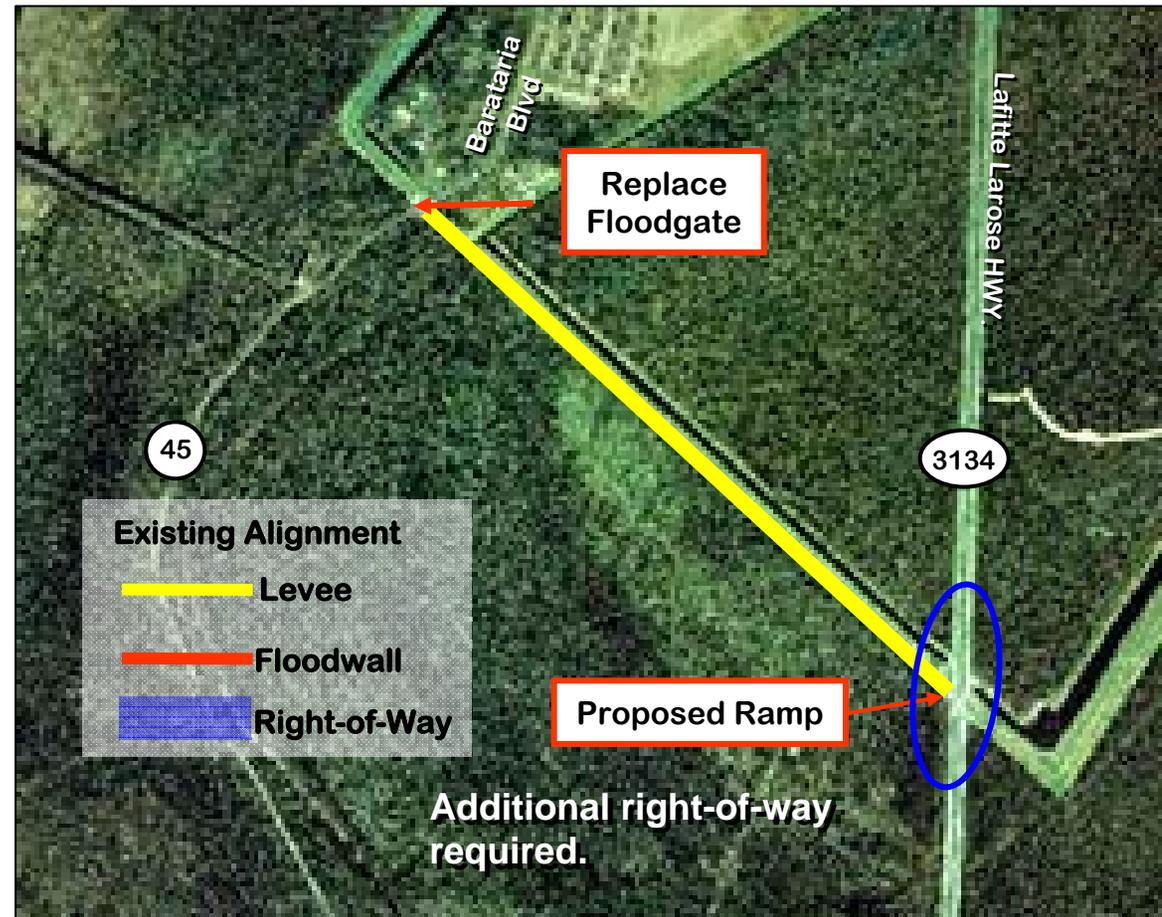
## WBV-14d V-Line Floodwall (IER 14)

### Alternatives Considered:

- Levee Enlargement (straddle, landside or floodside shift) and floodwalls

### Recommended Plan:

- Replace I-Wall with New Floodwall
- Includes ramp at Lafitte Larose Hwy and replacing the floodgate at Hwy 45.
- Minimal additional right-of-way required at the proposed ramp at Lafitte Larose Hwy.





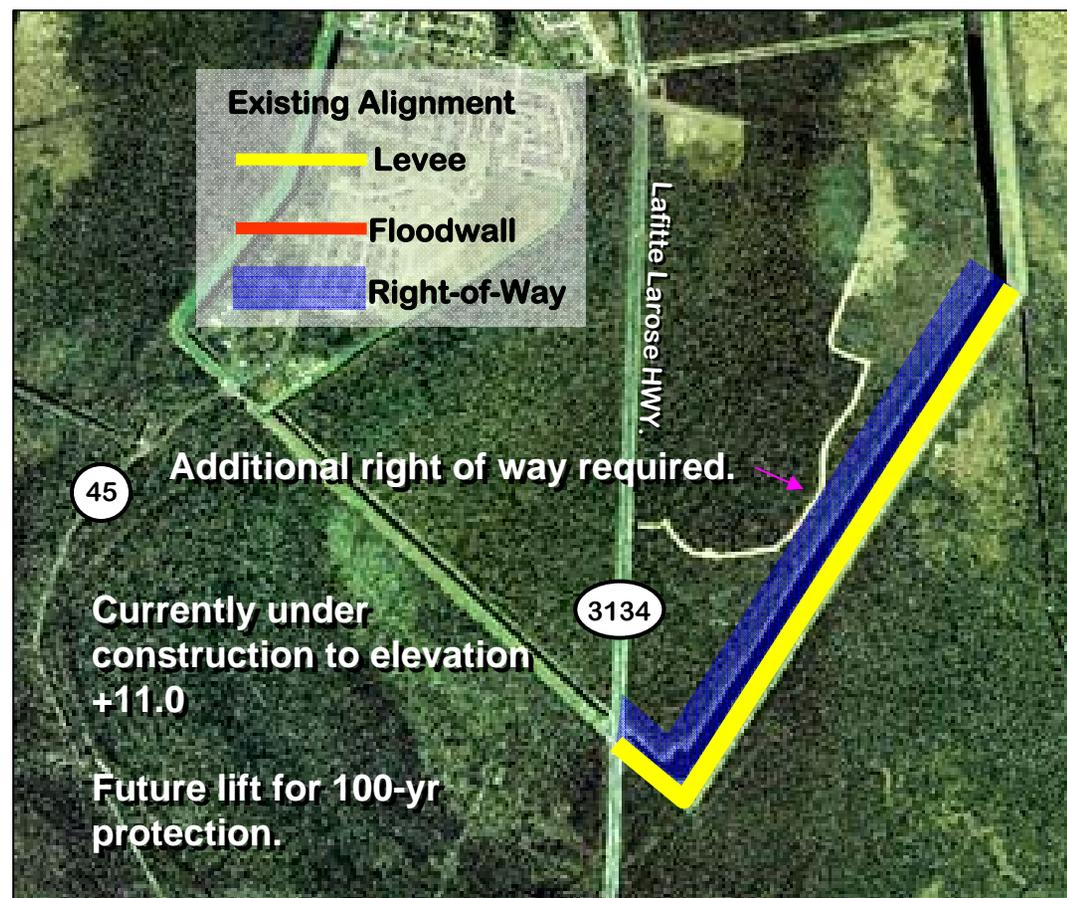
## WBV-14e.2 V Line Levee East of Vertex Levee Enlargement (IER 14)

### Alternatives Considered:

- Levee Enlargement (straddle, landside or floodside shift) and floodwalls

### Recommended Plan:

- Earthen levee section (landside shift) to elevation +14.
- May require relocation of drainage canal, geotextile fabric and/or soil mixing





# Algiers and Harvey Canals Area

## Alternative 1: Floodgate on GIWW (a)

Floodgate and permanent bypass channel in the GIWW below the confluence of the Algiers and Harvey Canals to the 100-yr level of protection

 Lapalco Floodgate and Cousins PS Discharge Channel Walls at previously authorized level of protection

 Proposed Floodgate and pump station at 100-yr level of protection

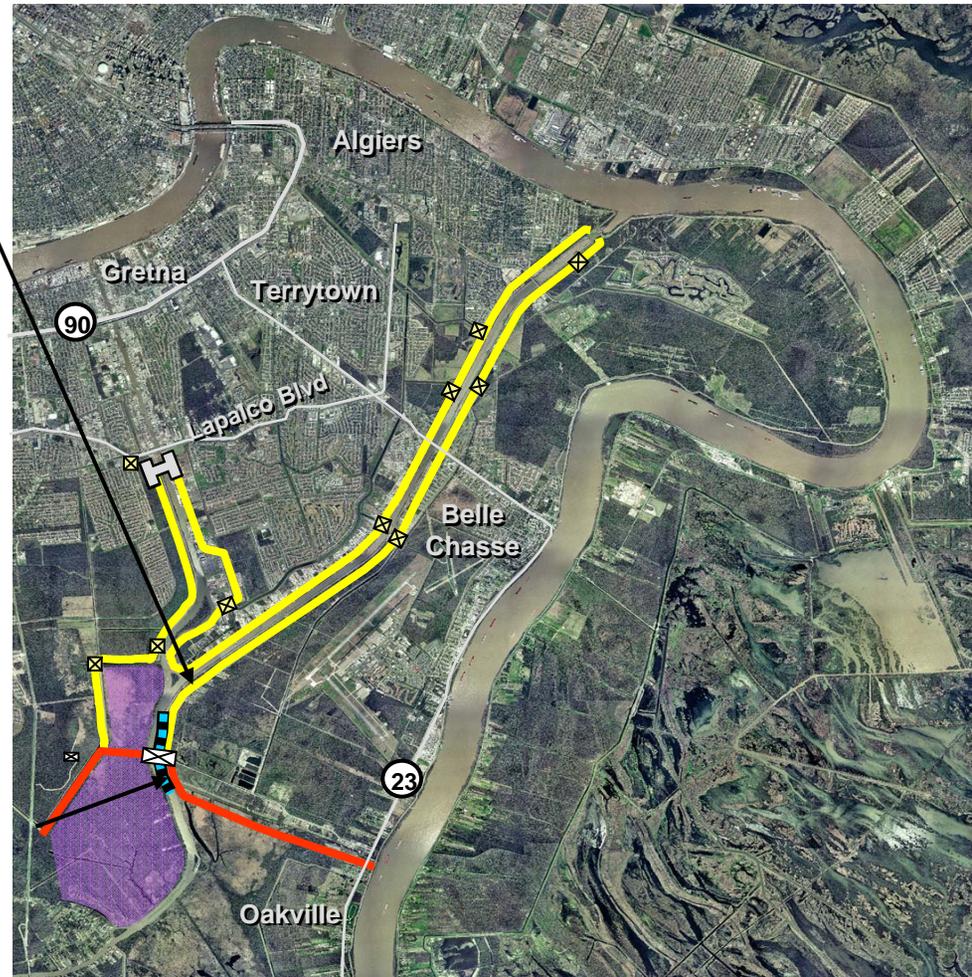
 GIWW permanent bypass channel

 Levees and Floodwalls to the previously authorized level of protection or greater

 Levees and Floodwalls to the 100-yr level of protection

 Pump Stations

 Bayou Aux Carpes 404 (c) site





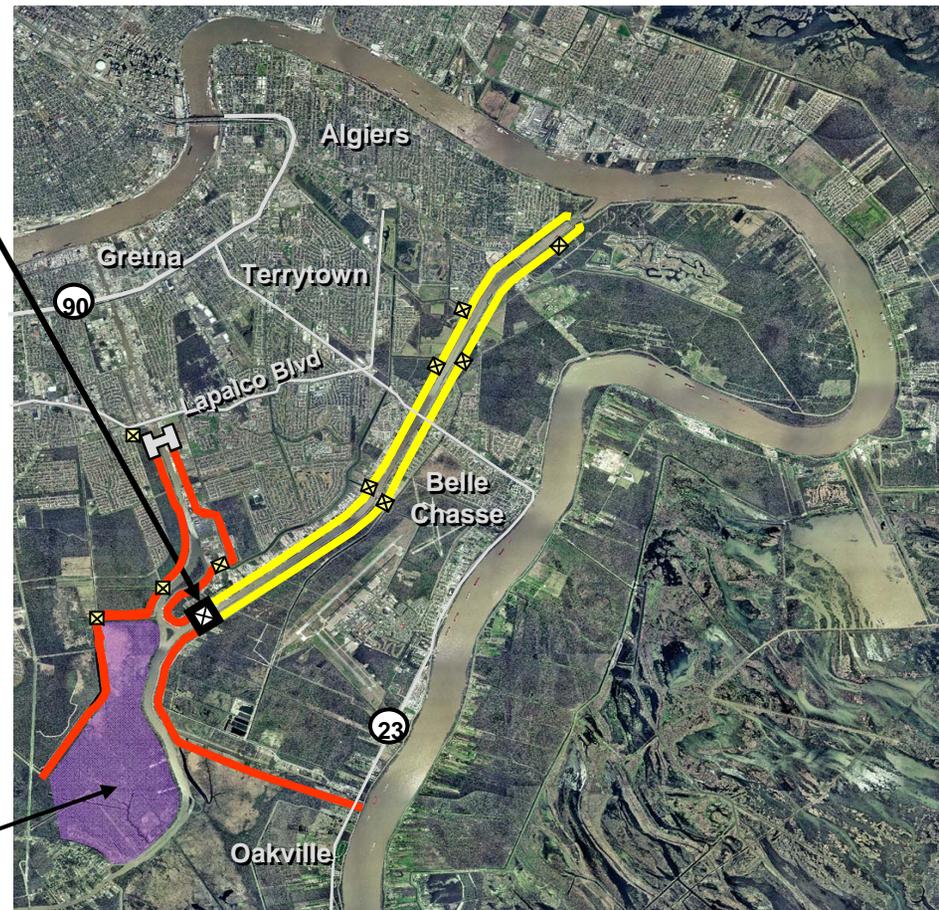
# Algiers and Harvey Canals Area

## Alternative 3: Floodgate on Algiers Canal

**Sector floodgate in the Algiers Canal to the 100-yr level of protection**

-  Lapalco Floodgate and Cousins PS Discharge Channel Walls (raised to provide 100-yr level of protection)
-  Proposed Floodgate and pump station at 100-yr level of protection
-  Levees and Floodwalls to the previously authorized level of protection or greater
-  Levees and Floodwalls to the 100-yr level of protection
-  Pump Stations

 Bayou Aux Carpes 404 (c) site





# Algiers and Harvey Canals Area

## Alternative 4: Parallel Protection



Lapalco Floodgate and Cousins PS  
Discharge Channel Walls (raised to provide  
100-yr level of protection)



Levees and Floodwalls to the 100-yr level  
of protection



Pump Stations



**Bayou Aux Carpes 404 (c) Site**

