





US Army Corps
of Engineers
New Orleans District

IER 12: Harvey and Algiers Canals Hurricane Protection Alternatives

GNO Hurricane Storm Damage Risk Reduction System

April 24, 2008

**Army Corps of Engineers, New Orleans District
NGO Meeting**

Purpose of Presentation

To facilitate discussion of WBV IER 12 alternatives that will bring the Westbank and Vicinity portion of the Greater New Orleans Hurricane Storm Damage and Risk Reduction System in Jefferson, Plaquemines and Orleans parishes up to 100-year protection levels.



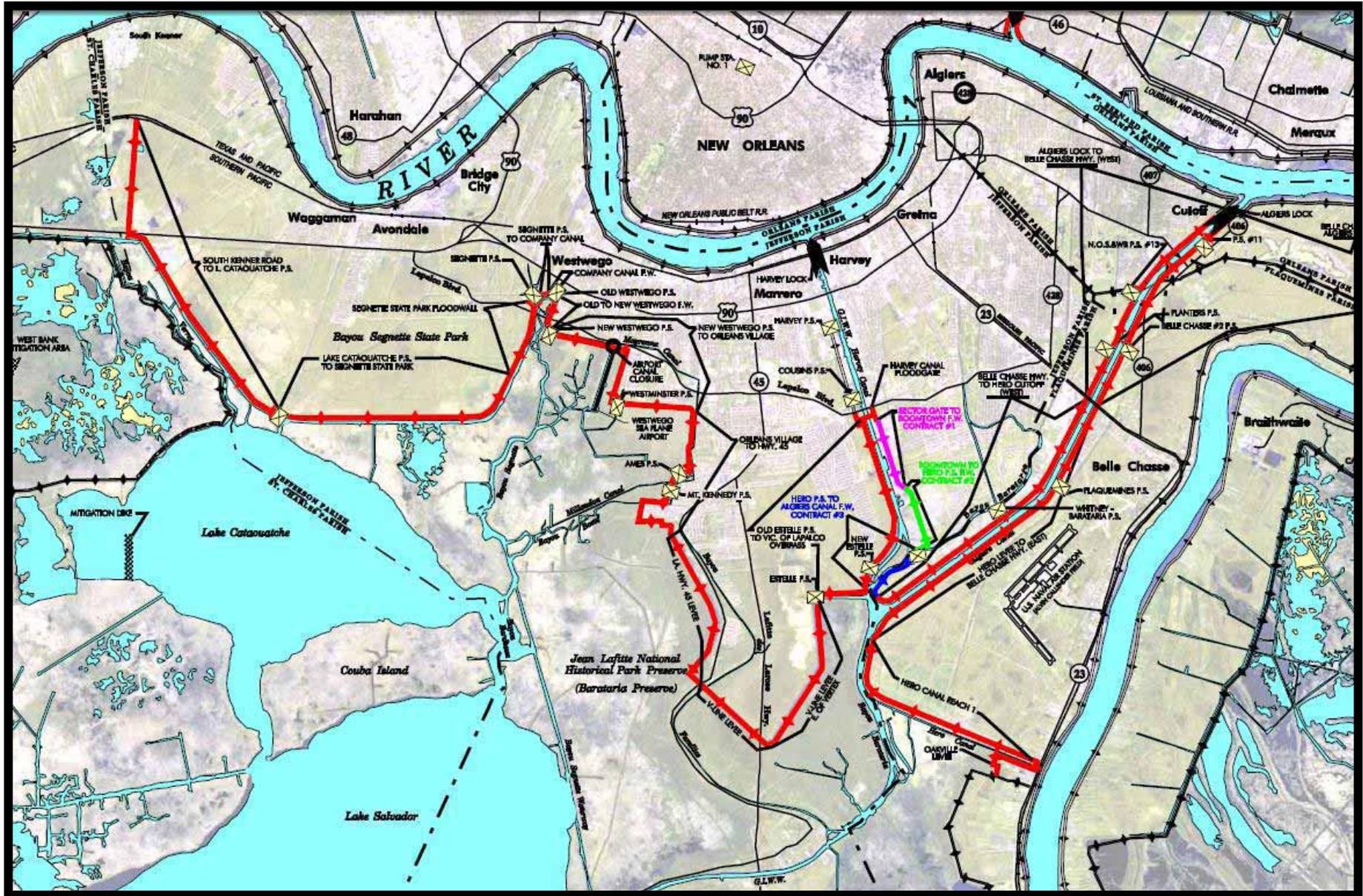
NEPA Process and Path Ahead

- Preferred alternative will be discussed at public meetings in May of 2008
- Final decision regarding IER recommendations will be made in 2008. Tentative decision date is: August 2008



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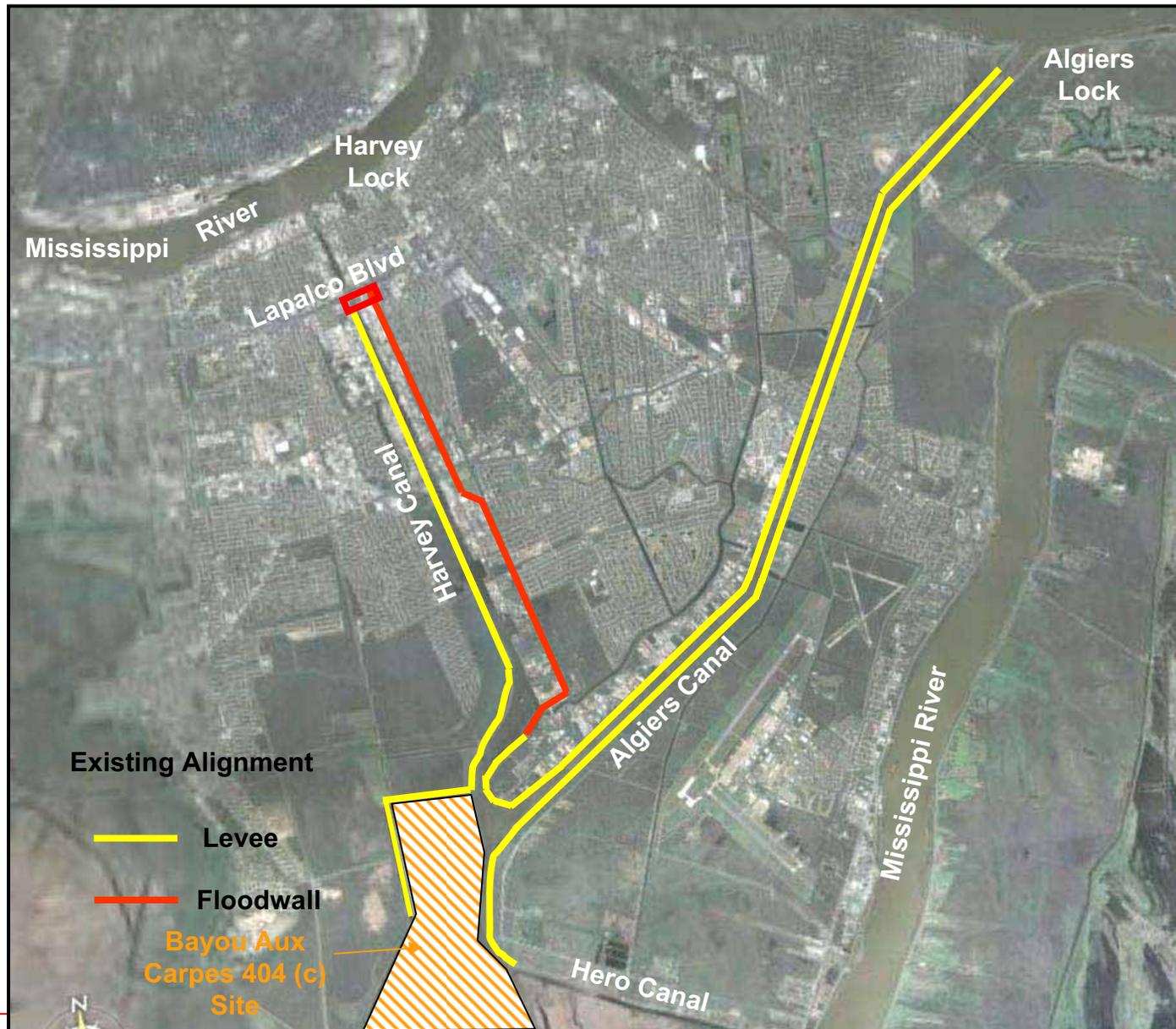
West Bank and Vicinity Hurricane Protection Project





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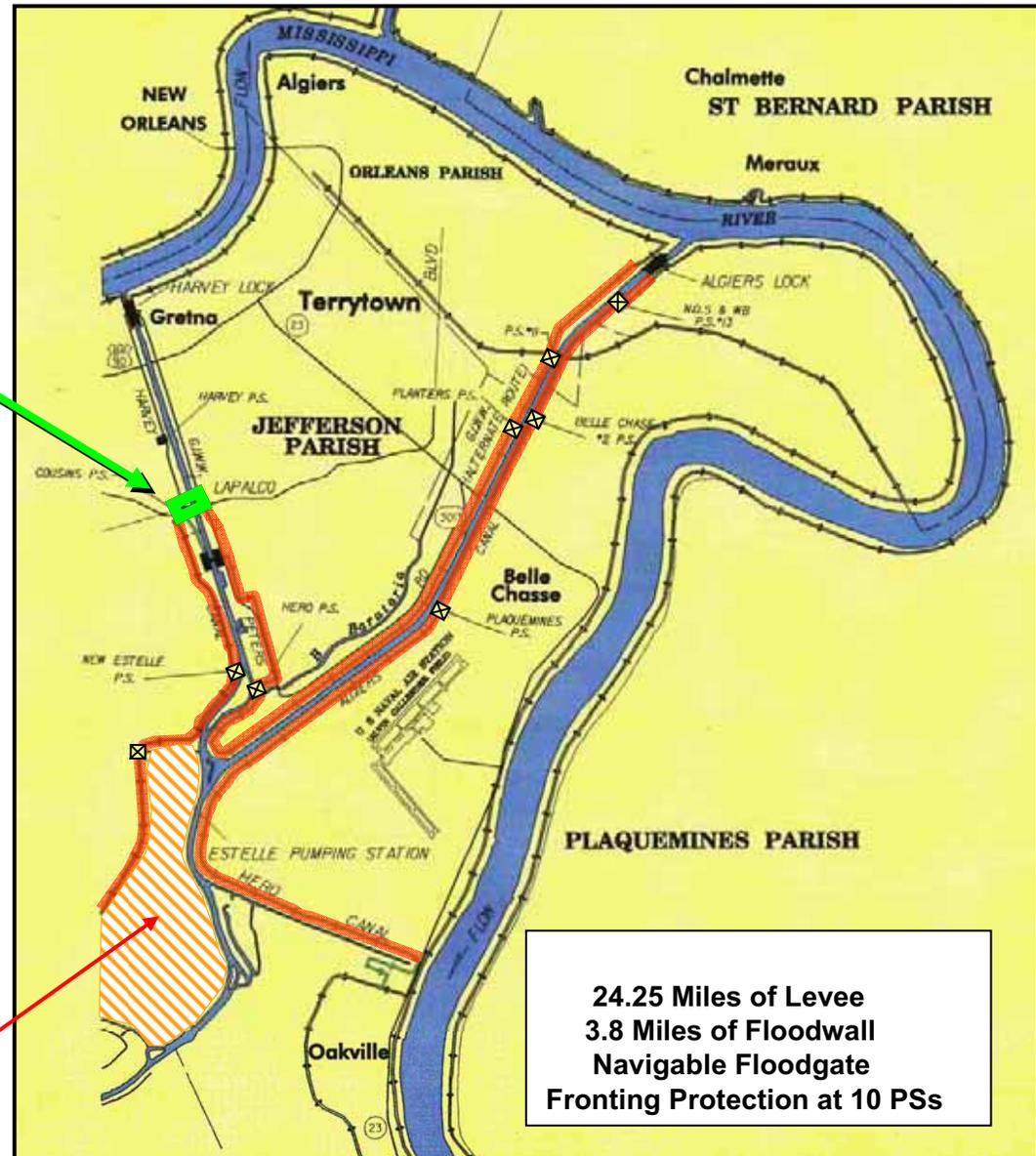
IER 12 Harvey and Algiers Canal





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Algiers and Harvey Canal Area – 100-Yr Protection Alternative: Parallel Protection



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

 Levees and Floodwalls
at elevation to provide
100 yr level of protection

Bayou Aux Carpes 404 (c) Site

24.25 Miles of Levee
3.8 Miles of Floodwall
Navigable Floodgate
Fronting Protection at 10 PSs

One Team: Relevant, Ready, Responsive and Reliable

Parallel Protection Features*

- 27 miles of levee and floodwall
- LaPalco floodgate
- Fronting protection modifications to 9 pumping stations
- Harvey Canal floodwalls and levees
- Algiers Canal levees

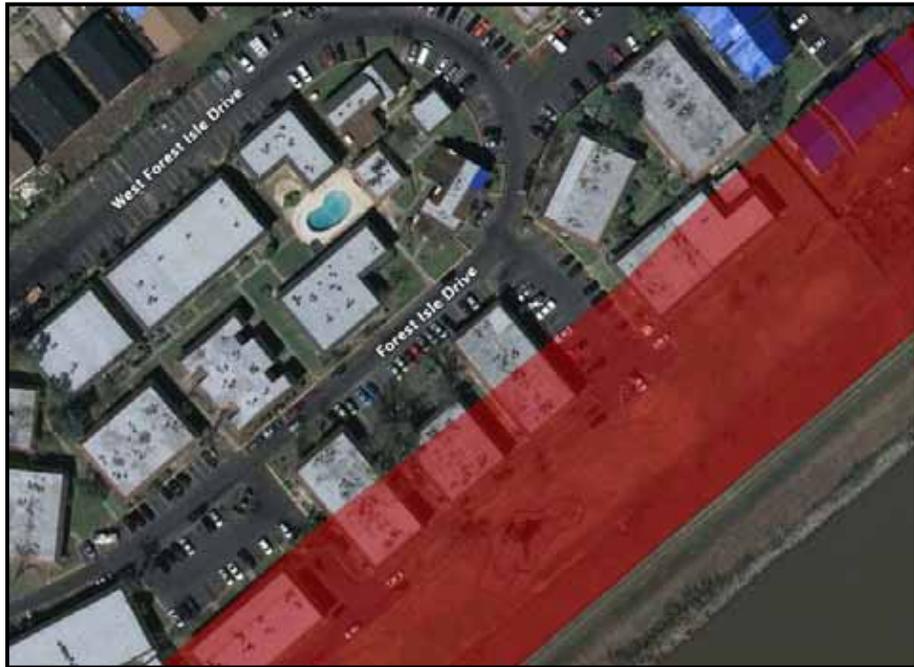


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Algiers and Harvey Canal Area – 100-Yr Protection

Alternative: Parallel Protection

Impacts to the Human Environment



Algiers Canal

Enlarged Levee Section ROW Requirement

Additional ROW requirements to raise levees along the Algiers Canal to the 100 year level of protection will require the relocation of approximately 70 residences and 600 apartment residents in Orleans and Plaquemines Parishes.

One Team: Relevant, Ready, Responsive and Reliable



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Algiers and Harvey Canal Area – 100-Yr Protection

Alternative: Parallel Protection Impacts to the Human Environment



Algiers Canal

Enlarged Levee Section ROW Requirement

Additional ROW requirements to raise levees along the Algiers Canal to the 100 year level of protection will require the relocation of approximately 50 businesses in Plaquemines Parishes.

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Algiers and Harvey Canal Area – 100-Yr Protection

Alternative: Parallel Protection Impacts to the Natural Environment



West Bank Harvey Canal
Enlarged Levee Section ROW Requirement

Additional ROW requirements to raise levees along the West Bank of the Harvey Canal to the 100 year level of protection will impact approximately 150 acres of bottomland hardwood habitat. (Acreage could vary depending on final levee/floodwall design)



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Algiers and Harvey Canal Area – 100-Yr Protection

Alternative: Floodgate on GIWW

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



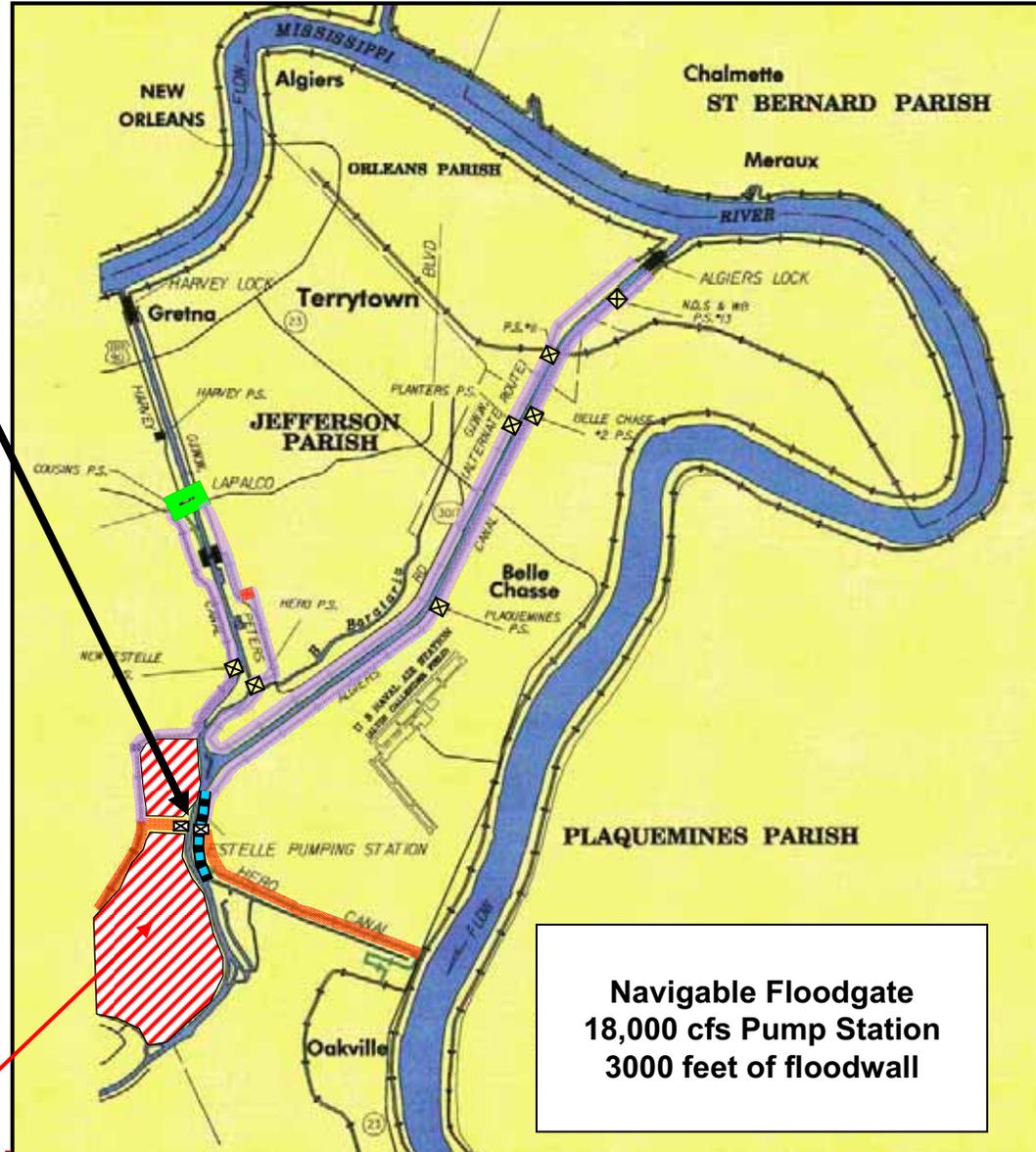
GIWW permanent bypass channel



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



Levees and Floodwalls to the 100 yr level of protection



Navigable Floodgate
18,000 cfs Pump Station
3000 feet of floodwall

Bayou Aux Carpes 404 (c) Site

One Team: Relevant, Ready, Responsive and Reliable

GIWW Features*

- 150 foot sector gate
- Realigned GIWW channel
- Pumping station in GIWW (18,600 cfs)
- 60 foot tainter gate flow control structure
- Temporary cofferdams and dewatering system
- Floodwall sluice-gate system
- Flow separator
- T-wall connections

Algiers and Harvey Canal Area – 100-Yr Protection

Alternative: 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

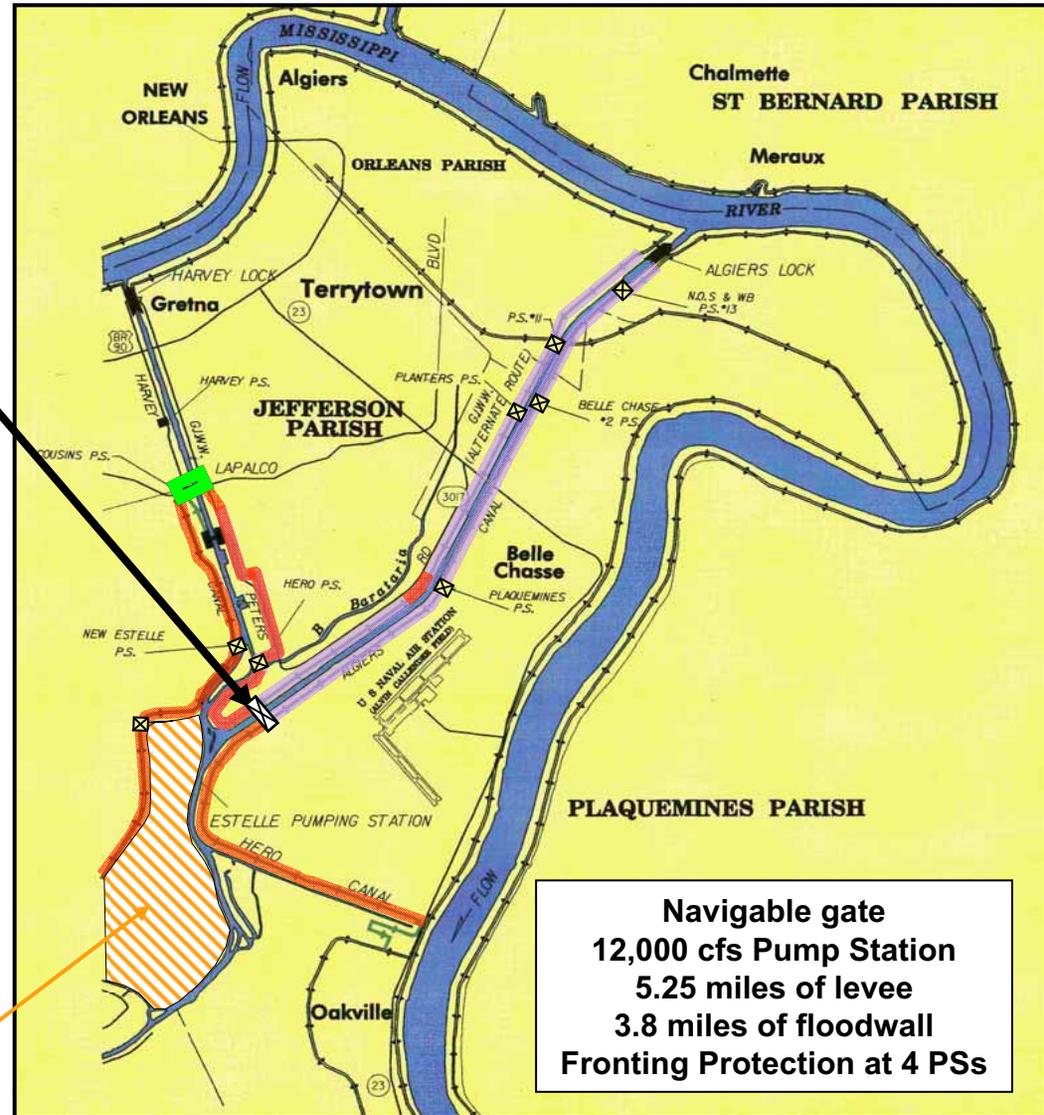


Levees and Floodwalls to the previously authorized level of protection



Levees and Floodwalls to the 100 yr level of protection

Bayou Aux Carpes 404 (c) Site



Navigable gate
12,000 cfs Pump Station
5.25 miles of levee
3.8 miles of floodwall
Fronting Protection at 4 PSs

Algiers Gate Features*

- 150 foot sector gate
- Pumping station in GIWW (12,100 cfs)
- Bypass channel
- Temporary cofferdams and dewatering system
- T-wall connections

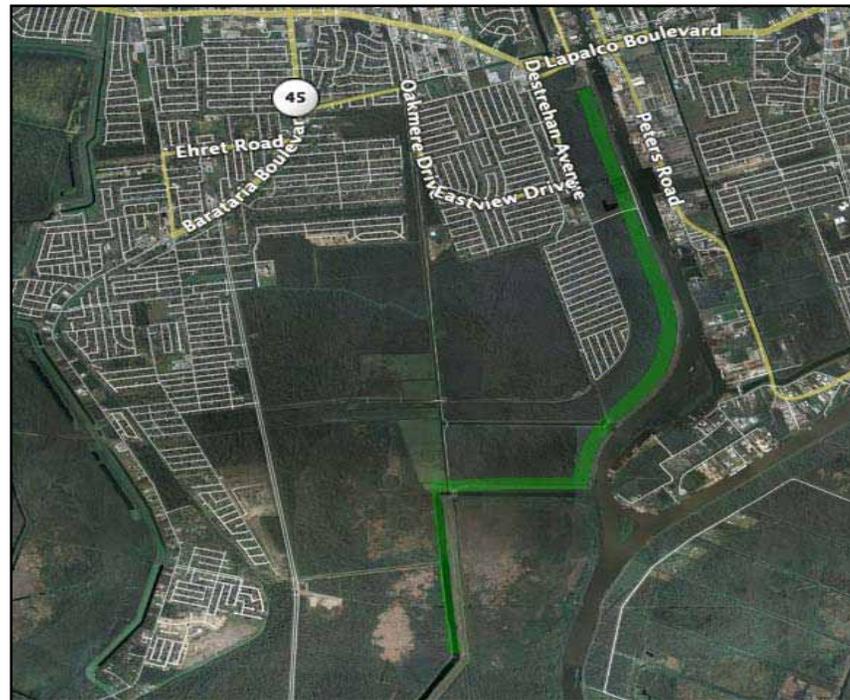


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Algiers and Harvey Canal Area – 100-Yr Protection

Alternative: Floodgate on Algiers Canal

Impacts to the Natural Environment

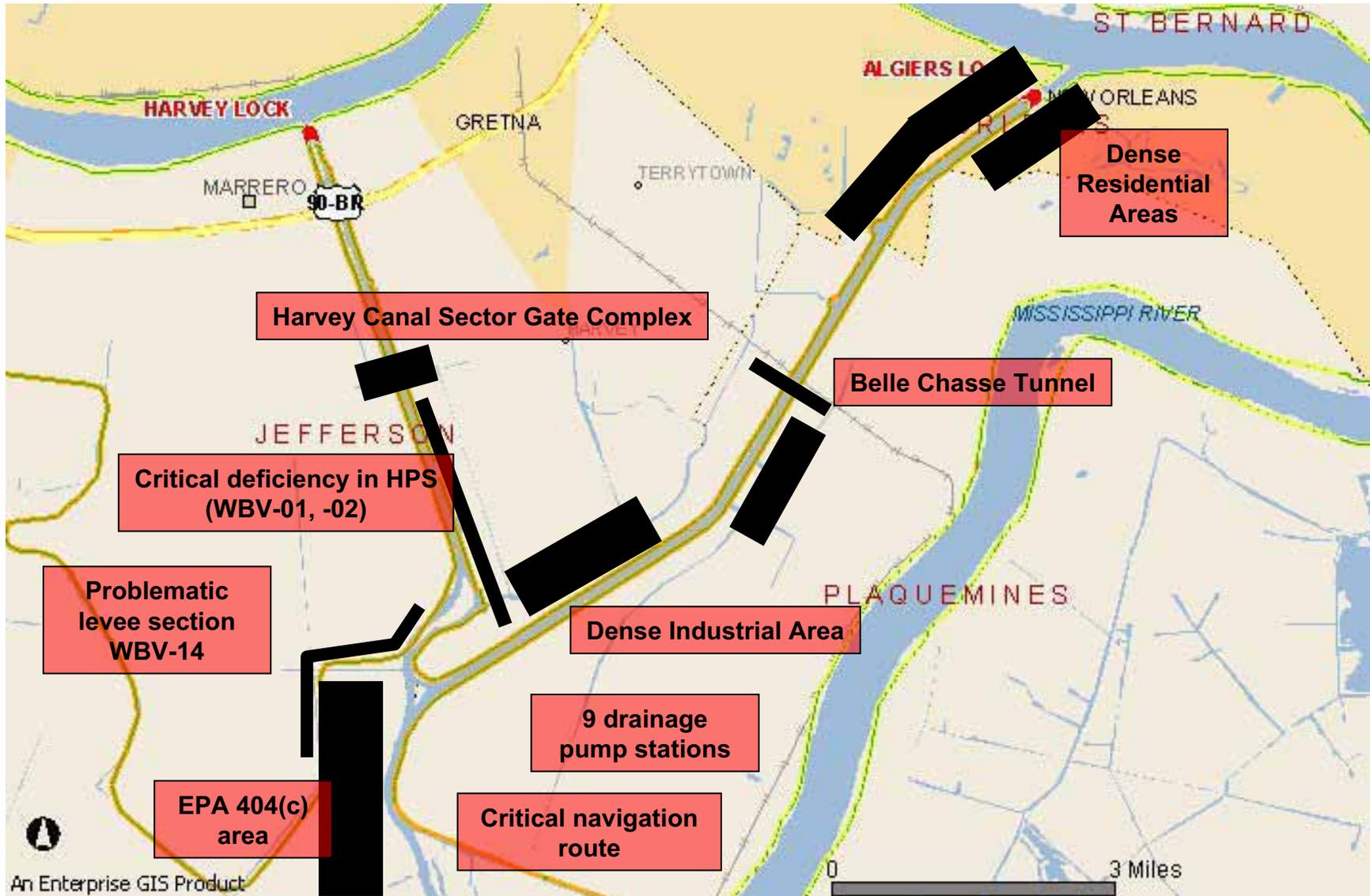


West Bank Harvey Canal
Enlarged Levee Section ROW Requirement

Additional ROW requirements to raise levees along the West Bank of the Harvey Canal to the 100 year level of protection will impact approximately 150 acres of bottomland hardwood habitat. (Acreage could vary depending on final levee/floodwall design)



Factors



One Team: Relevant, Ready, Responsive and Reliable



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Comments/Concerns to be Addressed

- How many acres of 404c possibly impacted?
- Engineering challenges with:
 - Work on navigable waterway
 - Belle Chasse tunnel
 - Poor and/or unstable soils

