

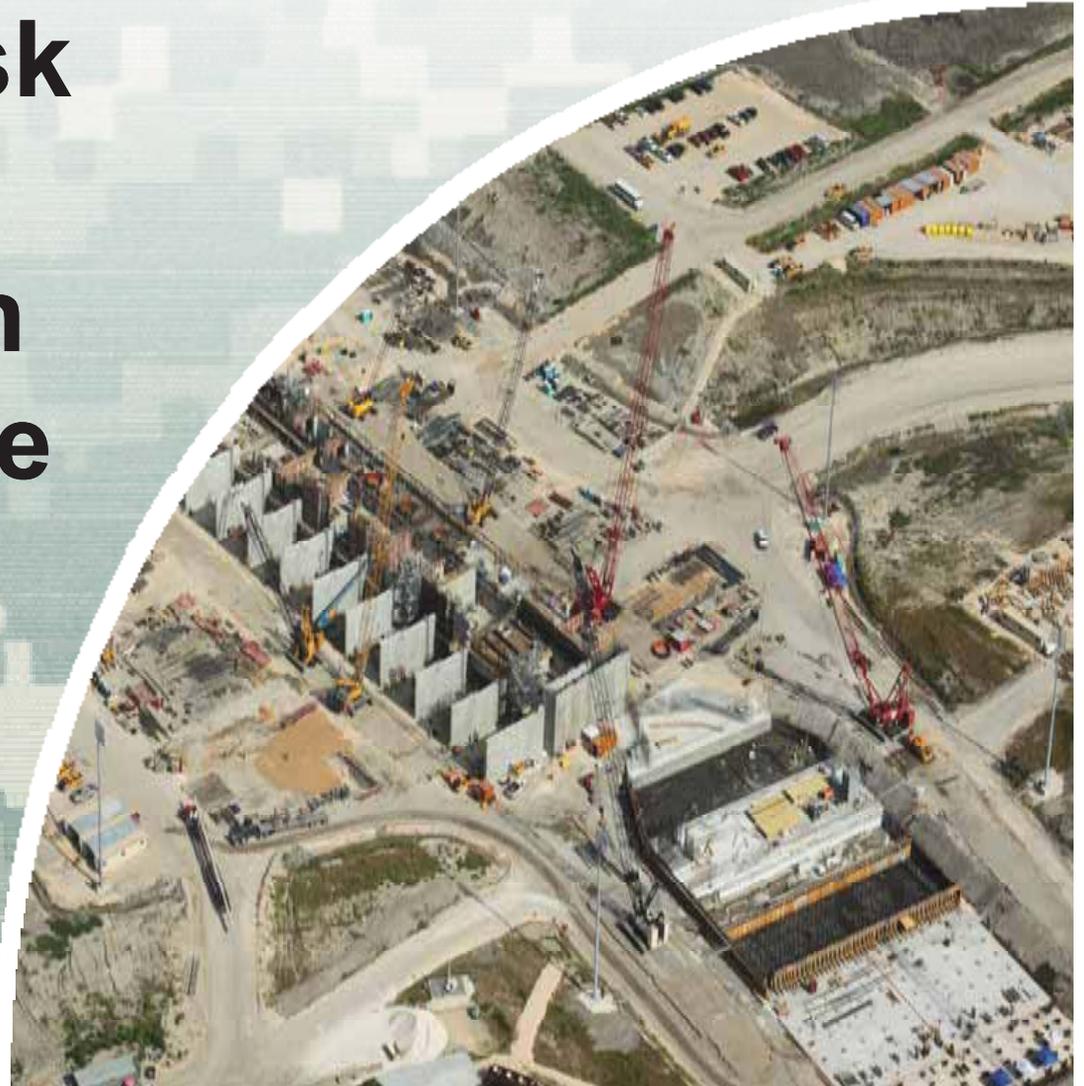
Greater New Orleans Hurricane & Storm Damage Risk Reduction System

Westbank Risk Reduction Construction Status Update

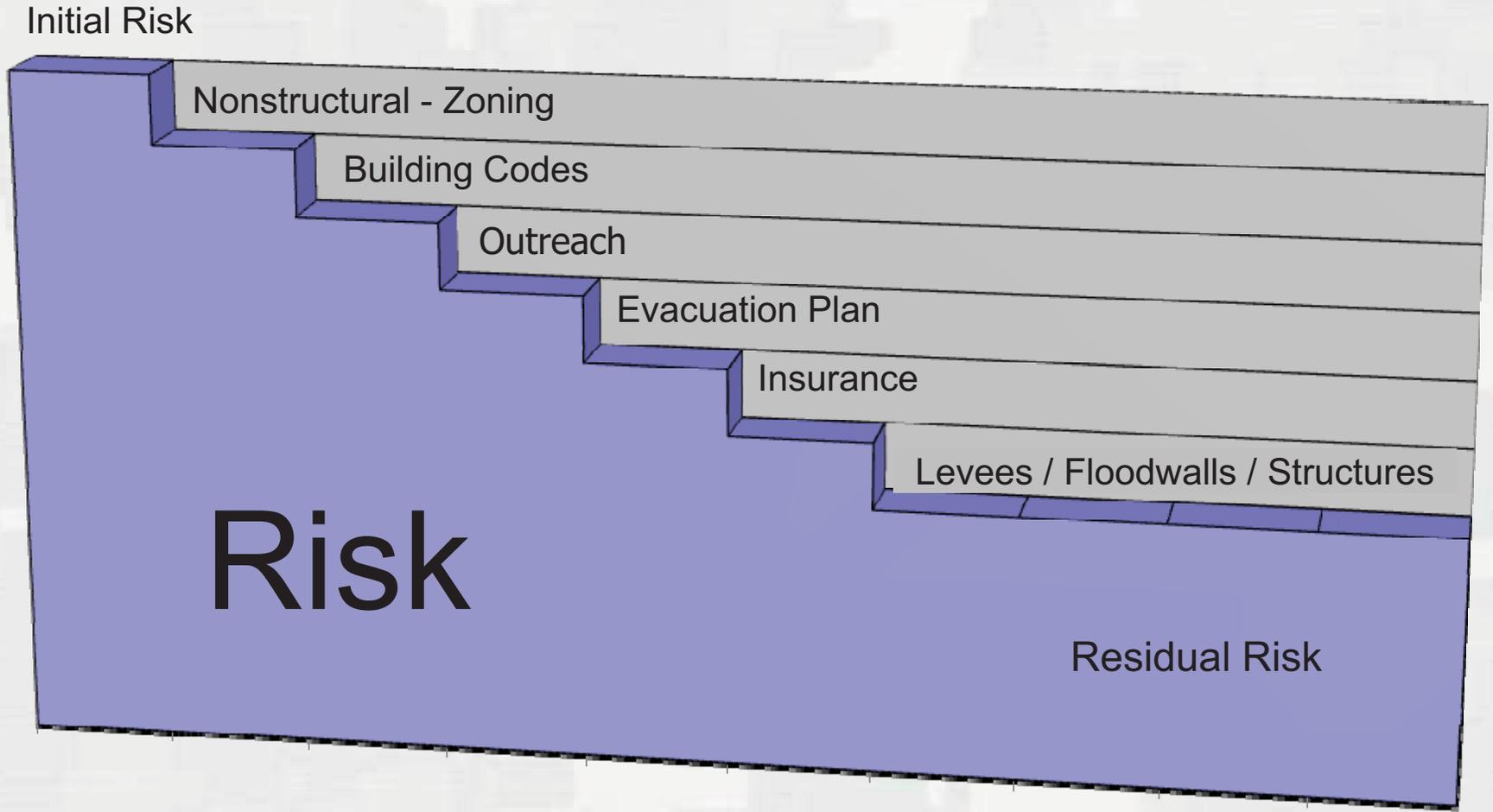
Sept. 14, 2010
Belle Chasse Library



US Army Corps of Engineers
BUILDING STRONG[®]



Risk – Shared Responsibility



Meeting Purpose

- To discuss construction status of the GIWW-West Closure Complex, Hero Canal Levee and Eastern Tie-In risk reduction projects
- To discuss the proposal to use the “Westbank N” borrow site as an alternative disposal site for material removed from the GIWW-West Closure Complex and the Hero Canal Levee

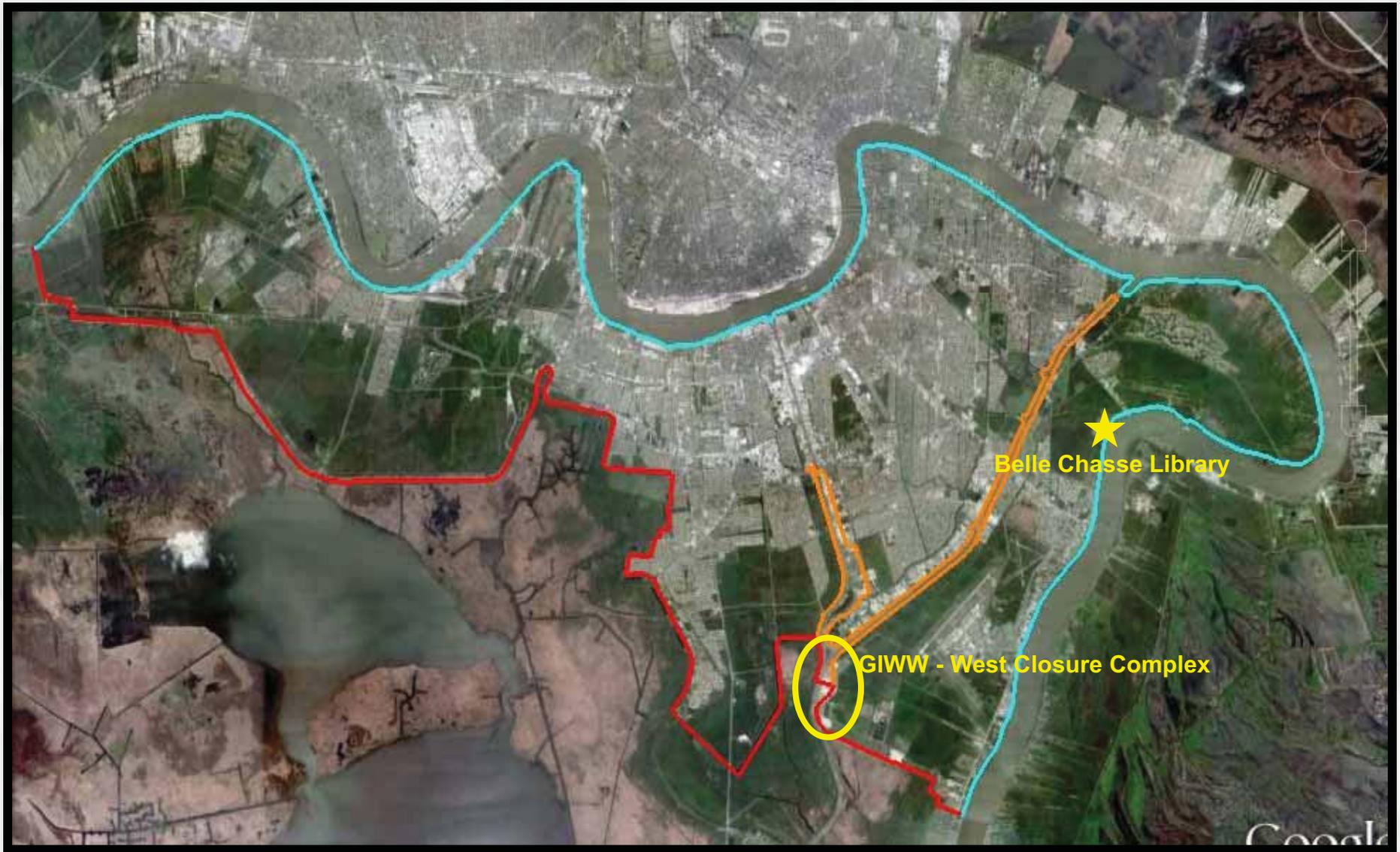


National Environmental Policy Act: NEPA

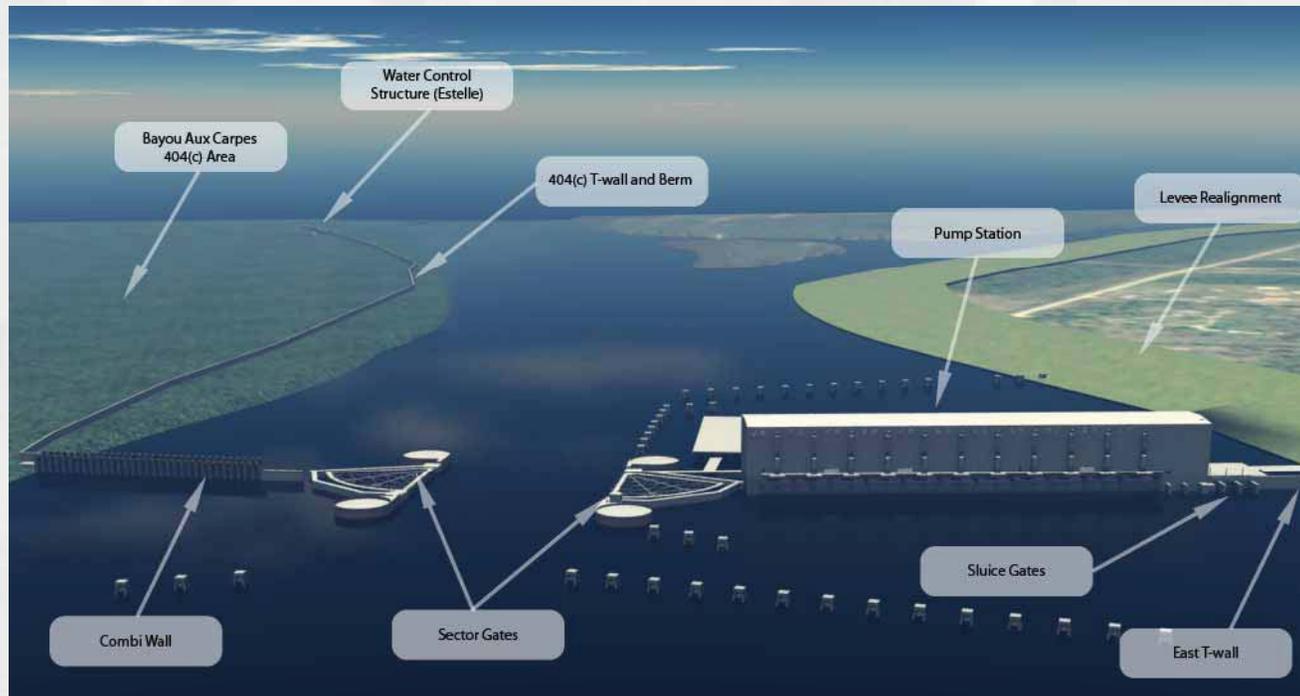
- Required of all major federal actions
- Analyze potential impacts to the human and natural environment and investigate reasonable alternatives
- Public involvement is KEY! We want to hear from you.
- Goal: more informed decision making through public involvement
- Analysis documented in Individual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



West Bank Hurricane & Storm Damage Risk Reduction System



GIWW-West Closure Complex



- 19,140 cfs Drainage Pumping Station
(11 x 1740 cfs vertical “Flower Pot” pumps)
- 225-foot primary navigation gate
- Sluice gates (5 – 16’ x 16’)
- T-wall along edge of Bayou aux Carpes
CWA 404(c) wetlands
(4200’ X 100’ construction corridor)
- Water Control Structure
- Levee and East Bayou Road Realignment
- Environmental Mitigation and Augmentations
- Foreshore Protection
- Algiers Canal dredging

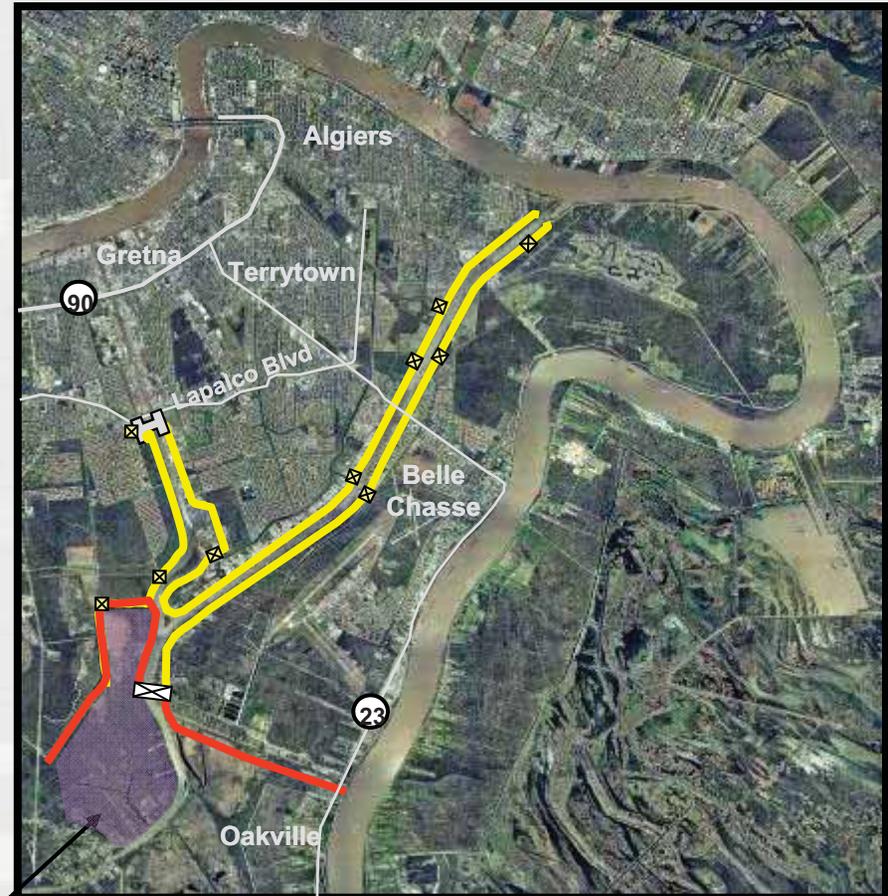


Not-to-scale
Conceptual

GIWW - West Closure Complex

Key Project Influences / Challenges

- **Storm Water Drainage:** Harvey and Algiers Canals function as the primary drainage conduits for the West Bank. 9 drainage pumping stations discharge into these canals.
- **Navigation:** The Harvey and Algiers Canals are part of the Gulf Intracoastal Waterway. 30 commercial barge tows per day pass the project site.
- **Environmental:** The project interacts with the Bayou Aux Carpes 404 (c) site. A wetland of national significance, only 11 of this type in the nation.
- **Timing:** Achieve risk reduction by June 2011



Bayou Aux Carpes 404 (c) site

8



Pump Stations

Detention basin

100-yr level of protection



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Construction July 2009



Construction of the GIWW-West Closure Complex began in August 2009 with grubbing and clearing

Construction November 2009



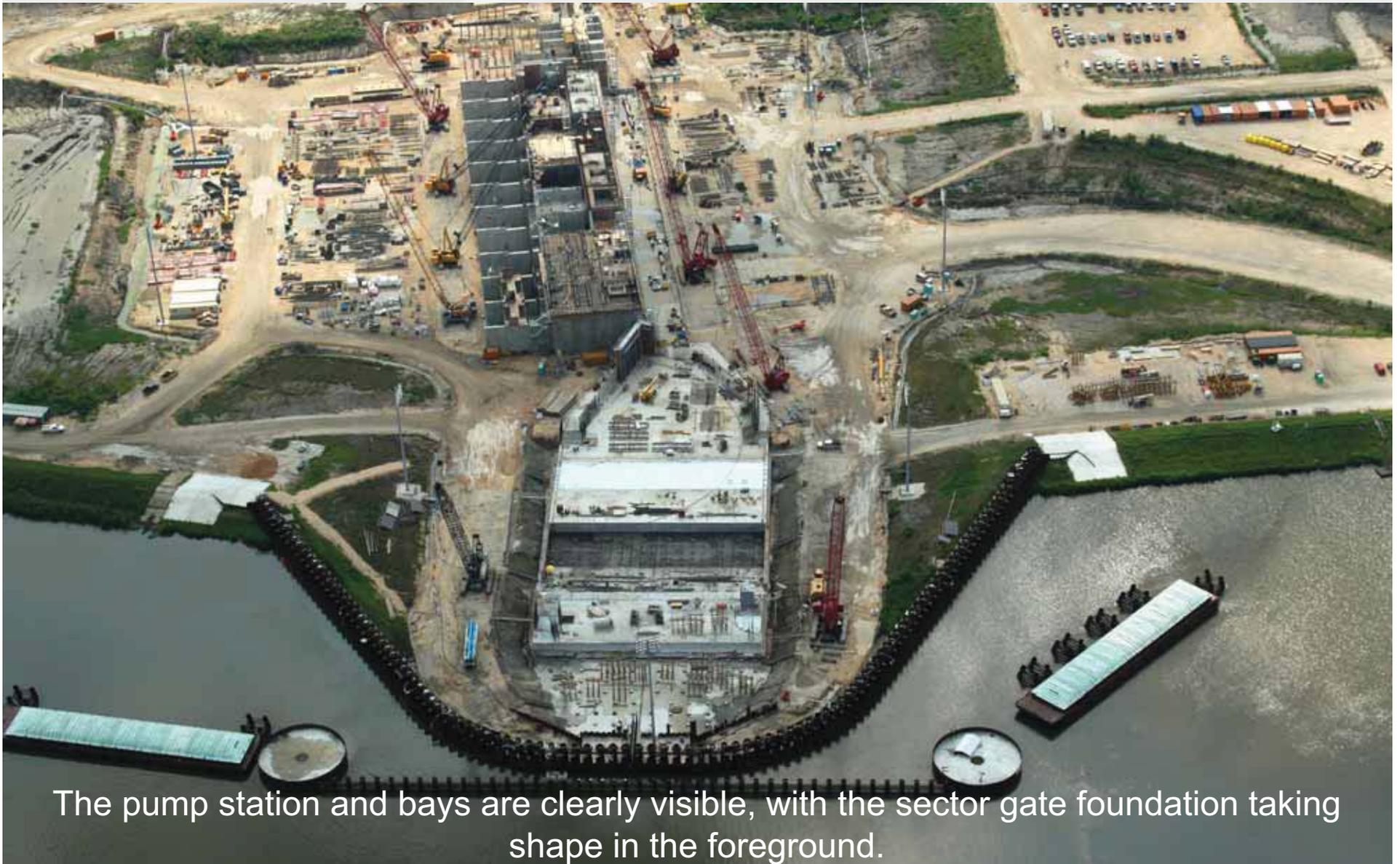
Construction July 2010



By the summer of 2010, major advances on the construction of all features of the GIWW West Closure Complex were underway.

The onsite concrete batch plant in the foreground produces 350 cubic yards per hour.

Construction August 2010



The pump station and bays are clearly visible, with the sector gate foundation taking shape in the foreground.

Pump Installation



- 4 September 2010, 3 of 11 flower pot pumps were installed in the pump station
- Each pump has a capacity of 1,740 cubic feet per second and weighs approximately 70 tons



Pump Installation



- A 600 ton crane lifted each pump individually into place
- Eight pumps will be installed by hurricane season of 2011, and the remaining three will be in place by 2012



Pump Station



The 19,140 cubic feet per second pump station would evacuate stormwater from the Harvey and Algiers canals during a storm event.



GIWW - West Closure Complex

Conceptual



Approx. 1,000 workers work two, 10-hr shifts per day 6 days a week

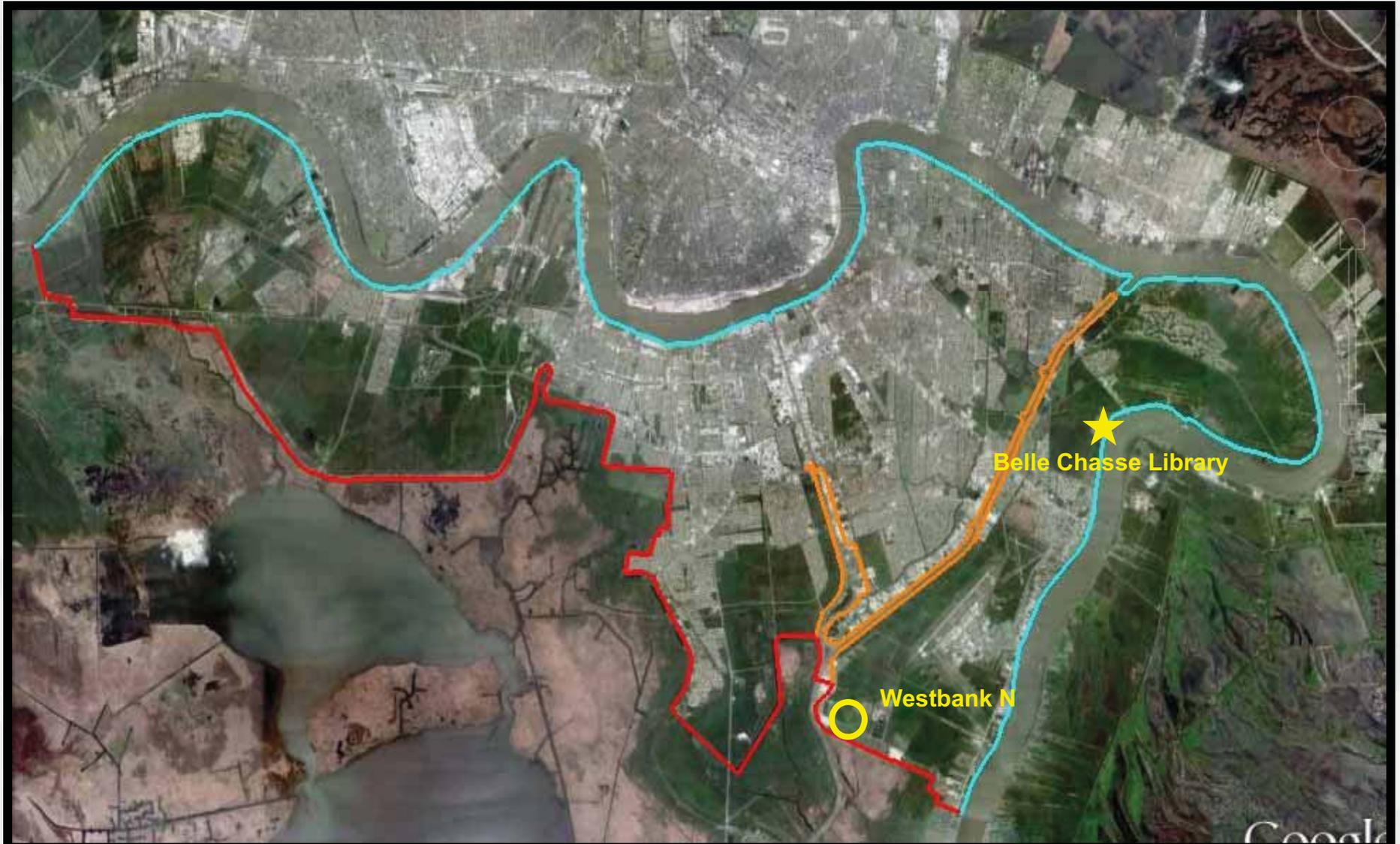


GIWW-West Closure Complex by the Numbers

- 2,300,000 cubic yards of on-site excavation/dredging
- 610,000 linear feet of piling
- 140,000 cubic yards of concrete
- 18,028,000 pounds of rebar
- 770,000 cubic yards of levee embankment
- Nearly 3,000,000 man hours



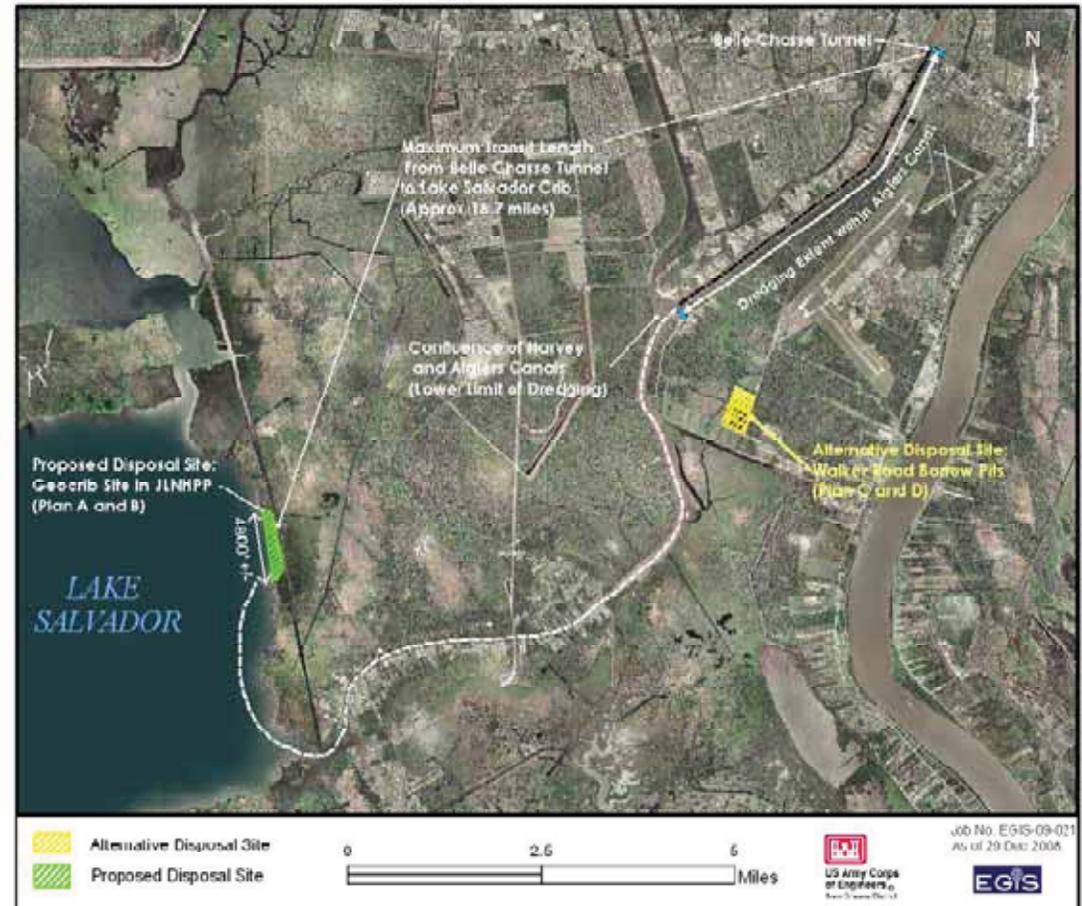
West Bank Hurricane & Storm Damage Risk Reduction System



Original Disposal Plan

- Corps has refined plans throughout construction
- All unsuitable earthen material excavated from the WCC site was originally to be disposed of in the Walker Road borrow sites
- Material dredged from the Algiers Canal is being disposed of in Jean Lafitte National Historic Park and Preserve “Geocrib” site

Algiers Canal Dredging Extent and Beneficial Use Areas



Geocrib



Per the original disposal plan, material dredged from the Algiers Canal has been deposited into the geocrib and is helping to rebuild marsh lands.



Proposed Modification to Disposal Plan Westbank N Borrow Site

- Individual Environmental Report 12 Supplemental
 - Proposes unsuitable material be placed in Westbank N borrow site, in addition to Walker Road borrow sites
 - Is a more economical disposal site, shorter haul distance
 - Reduces risk of Belle Chasse Naval Air Station aircraft encountering birds on landings and takeoffs
 - Currently available for public review and comment through Oct. 2, 2010
 - Available for download at www.nolaenvironmental.gov



West Bank Hurricane & Storm Damage Risk Reduction System



Hero Canal Levee Construction



- **Connects to the GIWW-West Closure Complex and the Eastern Tie-In project**
- **Approx \$12 million contract awarded to Gulf IntraCoastal Constructors in April 2010**
- **Earthen levees being raised from about 8 ft. to a final elevation of 10.5 ft.**



Hero Canal Levee Construction



- **Scheduled for completion in March 2011**
- **Approx 643,000 cubic yards of clay will be used to build the 2.2 mile levee**

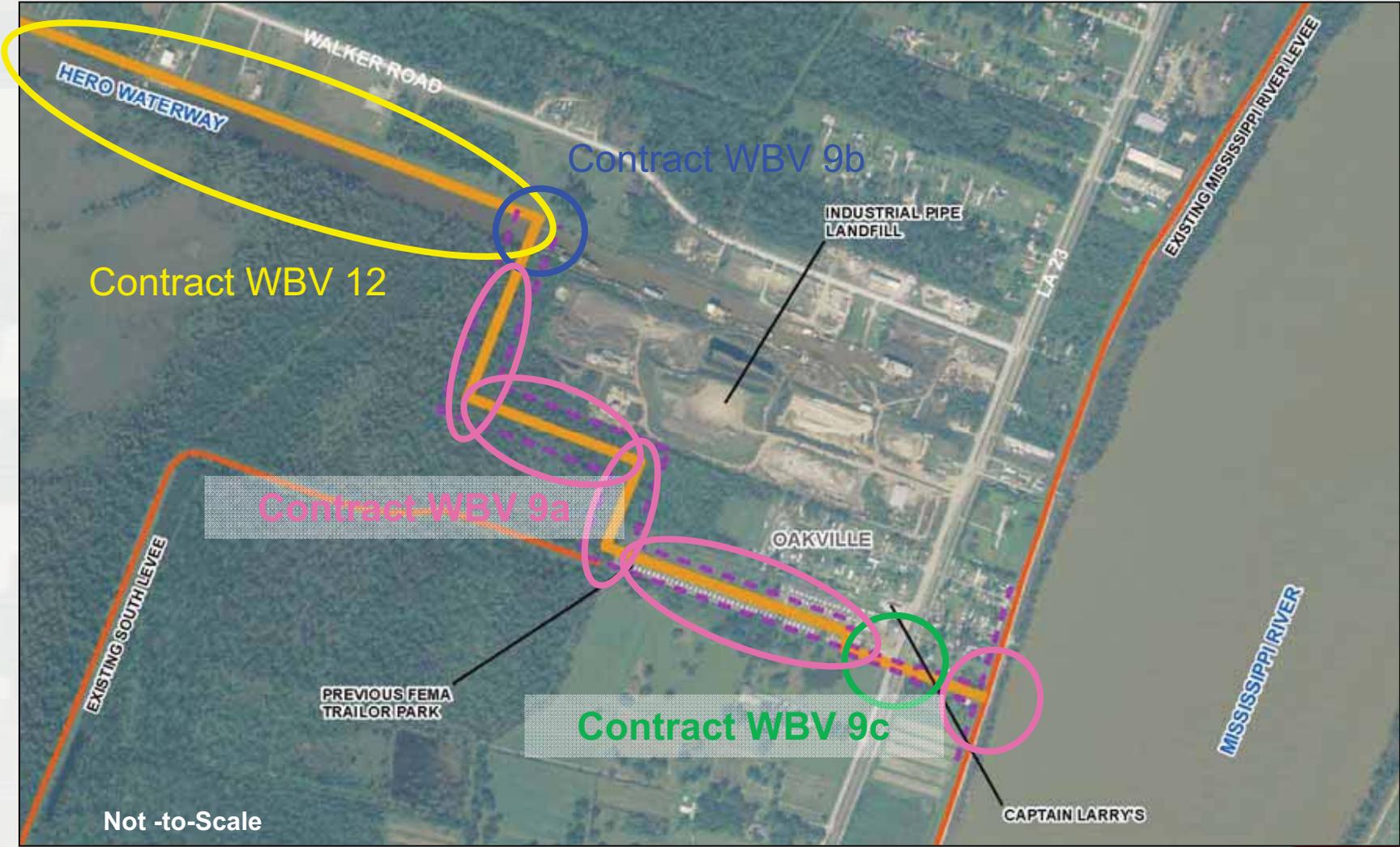


West Bank Hurricane & Storm Damage Risk Reduction System



Eastern Tie In

Connects to the Hero Canal Levee and the Mississippi River Levees in Oakville



Eastern Tie-In

Contract WBV 9a recent/current activities:

- Clearing and grubbing of the wetlands area west of Oakville
- Clearing and grubbing of the former FEMA trailer site

Completed work will include:

- Earthen levees that will connect to the Mississippi River Levee
- Emergency Bypass Road
- 150 cfs pump station which will discharge into the wetlands



A portion of the Eastern Tie-In project will include new levee construction in a wetlands area. Impacts to wetlands will be mitigated.



Eastern Tie-In

**Contract WBV 9b
recent/current activities:**

- Installation of sand pre-load and wick drains
- Dredging of the Hero Canal

Completed work will include:

- 56 ft stoplog gate across the Hero Canal
- 70 cfs pump station which would discharge into the unprotected side of the Hero Canal



Construction of the stoplog gate at the Hero Canal includes dredging a portion of the Hero Canal.



Eastern Tie-In



Contract WBV 9c includes construction of:

- **Three swing gates at Hwy 23**
- **A concrete T-wall built to elevation 14 ft on the southern edge of Capt. Larry's Seafood Restaurant Parking lot**
- **Contract has been awarded but work has been delayed**



What To Expect During Construction

- **Construction impacts**
 - Elevated noise levels from motors, pumps, generators, pile driving, etc.
 - Increased truck traffic
- **Corps' efforts to minimize impacts**
 - Contractor has ability to use both canal and road access
 - Wet unpaved roads (to minimize dust)



Construction of T-walls at the GIWW West Closure Complex require pile driving and heavy equipment



Mitigation

- The Corps has made efforts to 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 funded



Proposed mitigation projects are currently under development and will be discussed in future environmental documents.



Currently Available for Public Review

- IER 27 – Outfall Canal Remediation
 - Public review Sept. 2 through Oct. 1, 2010
- IER 12 Supplemental – Westbank N Disposal Site
 - Public review Sept. 3 through Oct. 2, 2010
- Comments can be submitted by:
 - Calling 504-862-1544
 - E-mailing mvnenvironmental@usace.army.mil
 - Or at any time at www.nolaenvironmental.gov



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
- Construction Impact Hotline: 1-877-427-0345
- Comments can be submitted at any time at 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)





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.

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.

flickr



Explore...

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, search New Orleans District.



Resources

www.nolaenvironmental.gov

<http://www.mvn.usace.army.mil>



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