

# Greater New Orleans Hurricane & Storm Damage Risk Reduction System

## Jefferson Parish Lakefront Construction Update

Congregation Gates of Prayer  
August 10, 2010



US Army Corps of Engineers  
**BUILDING STRONG**<sup>®</sup>

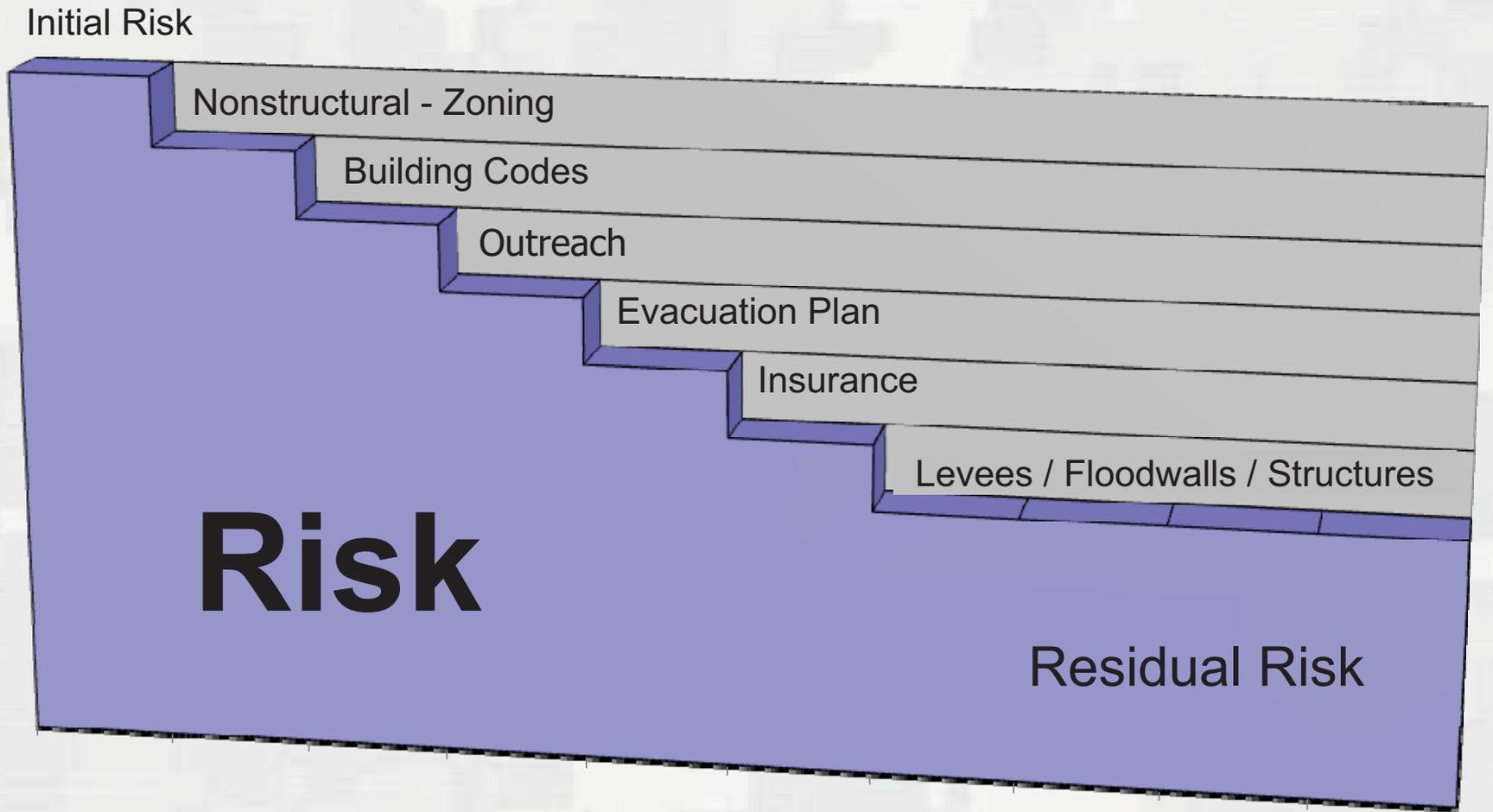


# Meeting Purpose

- Provide an update on the status construction of Jefferson Parish risk reduction features
  - Airport Levee
  - West Return Floodwall
  - Levee enlargements
  - Foreshore Protection
  - Floodgates
  - Causeway Bridge
  - Fronting Protection



# Risk – Shared Responsibility

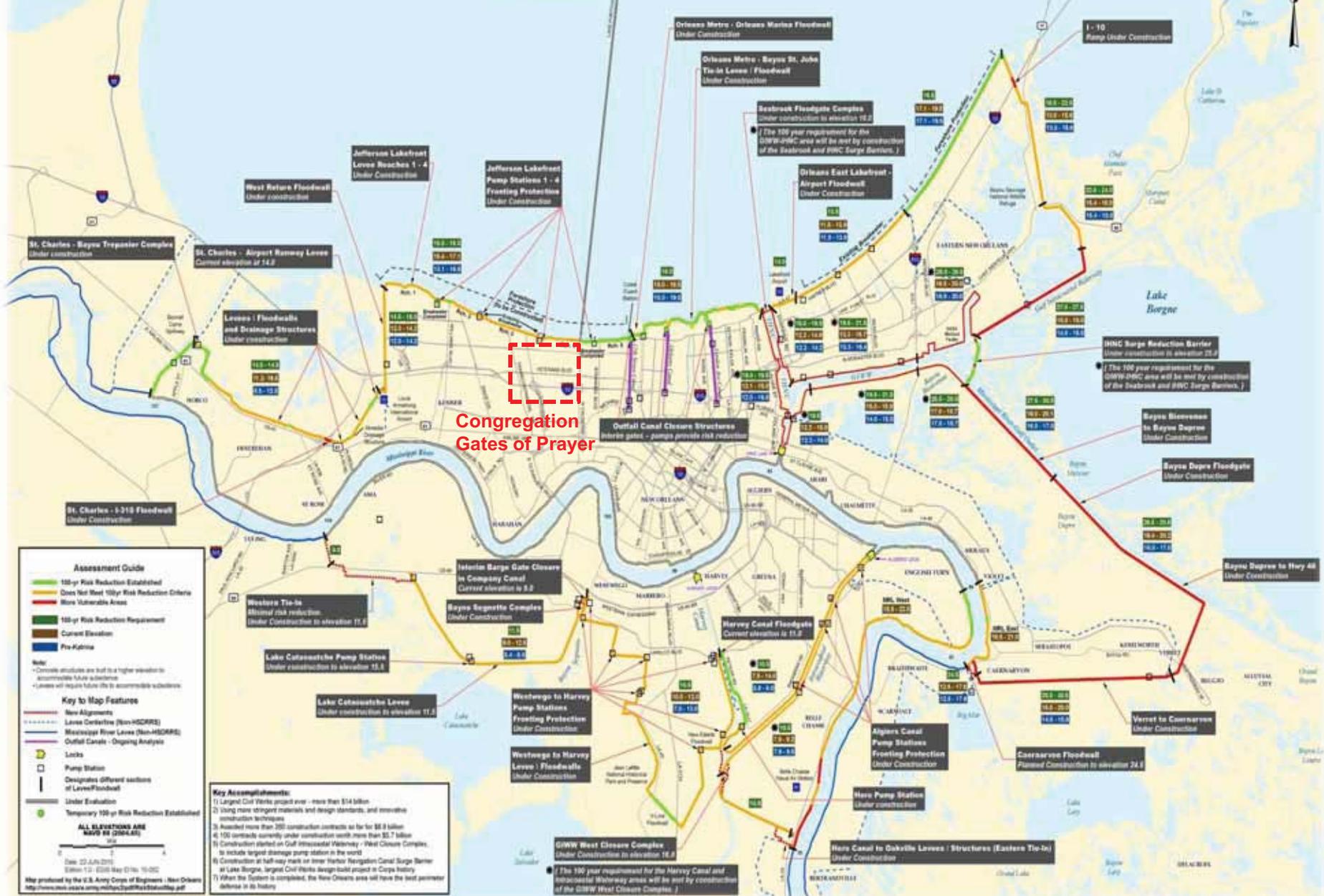




US Army Corps of Engineers

# GREATER NEW ORLEANS HURRICANE AND STORM DAMAGE RISK REDUCTION SYSTEM (HSDRRS) Status - June 2010

Lake Pontchartrain



Congregation  
Gates of Prayer

**Assessment Guide**

- 100-yr Risk Reduction Established
- Does Not Meet 100-yr Risk Reduction Criteria
- More Vulnerable Areas
- 100-yr Risk Reduction Requirement
- Current Elevation
- Pre-Storm

**Key to Map Features**

- New Alignments
- Levee Centerline (Non-HSDRRS)
- Mississippi River Levee (Non-HSDRRS)
- Outfall Canals - Ongoing Analysis
- Locks
- Pump Station
- Designates different sections of Levee/Floodwall
- Under Evaluation
- Temporary 100-yr Risk Reduction Established

**ALL ELEVATIONS ARE NAVD 83 (DMSLGS)**

Date: 23 JUN 2010  
 09:00:13: 0300: May 27/10: 10:00  
 May produced by the U.S. Army Corps of Engineers - New Orleans  
 http://www.usace.army.mil/infocopy/HSDDRRSmap.pdf

**Key Accomplishments:**

- 1) Largest Civil Works project ever - more than \$14 billion
- 2) Using more stringent materials and design standards, and innovative construction techniques
- 3) Awarded more than 200 construction contracts so far for \$8.9 billion
- 4) 150 contracts currently under construction worth more than \$2.7 billion
- 5) Construction started on Gulf Intracoastal Waterway - West Closure Complex, to include largest storage pump station in the world
- 6) Construction at half-way mark on Inner Harbor Navigation Canal Surge Barrier at Lake Borgne, largest Civil Works design build project in Corps history
- 7) When the System is completed, the New Orleans area will have the best perimeter defense in its history

**GW West Closure Complex**  
 Under construction to elevation 18.0

[ The 100 year requirement for the Harvey Canal and Intracoastal Waterway areas will be met by construction of the GW West Closure Complex. ]

**HW Surge Reduction Barrier**  
 Under construction to elevation 25.0

[ The 100 year requirement for the HW Surge area will be met by construction of the Seabrook and HW Surge Barriers. ]

**Bayou Du Large to Bayou Du Large**  
 Under Construction

**Bayou Du Large Floodgate**  
 Under Construction

**Corona Floodwall**  
 Planned Construction to elevation 24.0

**Harve Canal to Oakville Levees / Structures (Eastern Tie-In)**  
 Under Construction

# Jefferson Parish Lakefront



Lake Pontchartrain and Vicinity - Jefferson Parish



# Airport Levee LPV 3d.2



Not to Scale

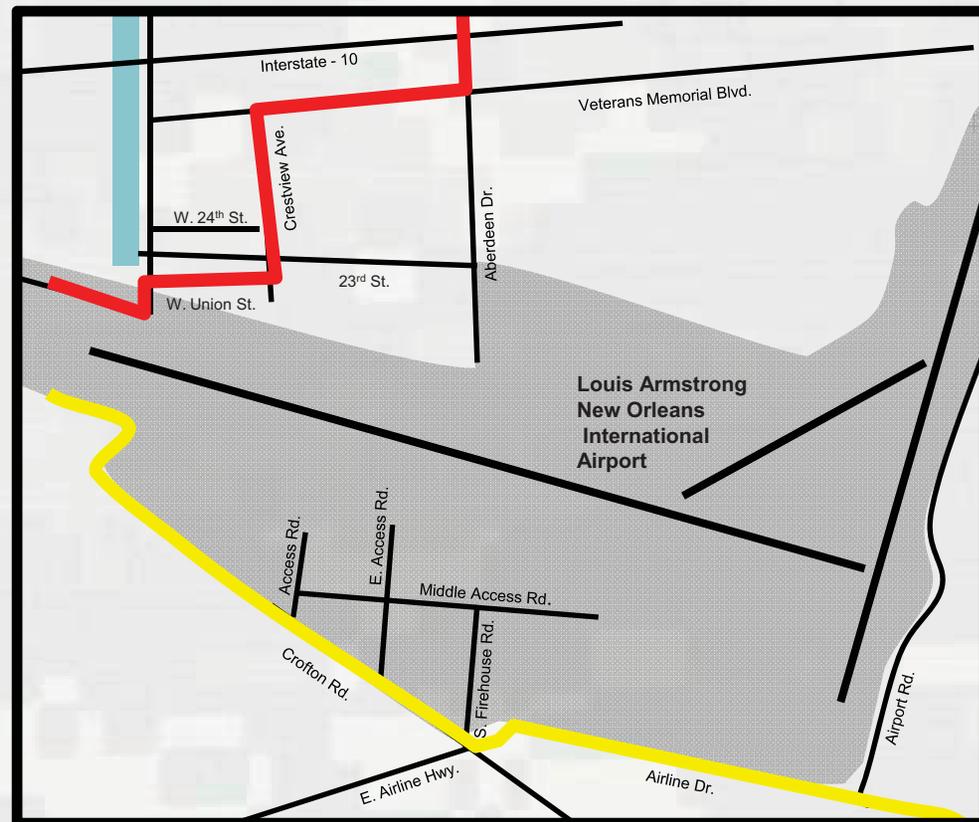


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# Airport Levee Status

## Airport Levee

- Estimated Award Date:  
September 2010
- Estimated Completion:  
June 2011
- Construction Access:
  - Veterans Blvd. to  
Crestview Ave. to West  
Union
  - Airline Dr. to Crofton St.



Access routes



# West Return Floodwall



# West Return Floodwall Construction Sequence



Existing Wall



New Wall Built



Old Wall Demolished



# West Return Floodwall Project Staging Areas and Construction Access Routes



Project area north of Interstate-10

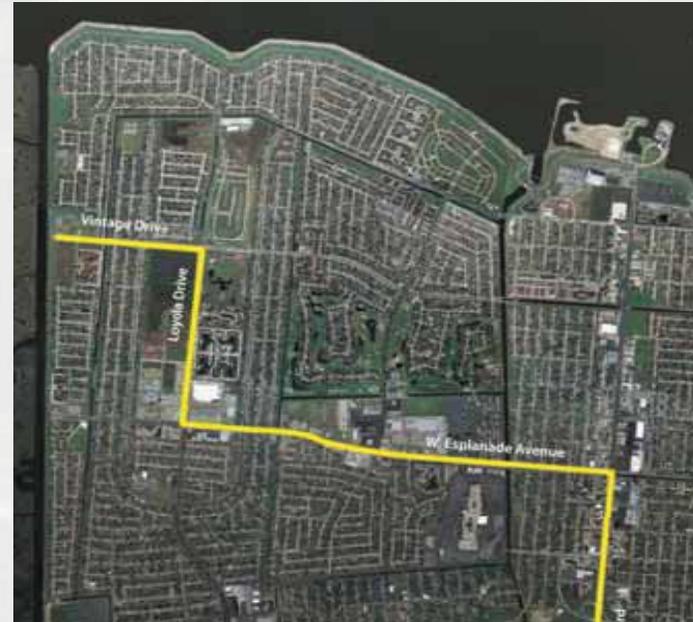


Project area south of Interstate-10



# West Return Floodwall Northern Contract

- Award Date: 15 July 2010
- Contractor: Odebrecht/Johnson Bros
- Impacts
  - Increased truck traffic on access roads; however contractor will use marine access for delivery of materials and equipment
  - Access to Parish Line Canal and access road closed throughout construction
  - Increased noise in close proximity to the floodwall
  - 24 hour operations permitted; pile driving 7 a.m. to 10 p.m.
  - Demolition of existing floodwall will follow completion of new T-wall (provides increased green space)



Access route north of Interstate-10



# West Return Floodwall Southern Contract

- Award Date: 29 July 2010
- Contractor: Cajun Constructors Inc.
- Impacts
  - Increased truck traffic on access roads
  - Access to Parish Line Canal and access road closed throughout construction
  - Increased noise in close proximity to the floodwall
  - 24 hour operations permitted; pile driving allowed 7 a.m. to 10 p.m.
  - Demolition of existing floodwall will follow completion of new T-wall (provides increased green space)



Access route south of Interstate-10



# Jefferson Parish Levee Reaches



# Typical Levee Section



# Levee Status

## **Reach 1**

- Award Date: 18 August 2009
- Estimated Completion: Sept. 2010
- Construction Access: Williams Blvd. to Joe Yenni Blvd. to Duncan St.
- 95% Complete

## **Reach 2**

- Award Date: 14 July 2009
- Estimated Completion: Oct. 2010
- Construction Access: Williams Blvd. to Treasure Chest Casino Parking Lot
- 80% Complete

## **Reach 3**

- Award Date: 14 July 2009
- Estimated Completion: Sept. 2010
- Construction Access: Clearview Pkwy.
- 91% Complete

## **Reach 4**

- Award Date: 3 September 2009
- Estimated Completion: Sept. 2010
- Construction Access: Causeway Blvd. to West Esplanade Ave. to Severn Ave.
- 93% Complete

## **Reach 5**

- Award Date: 27 October 2008
- Estimated Completion: Sept. 2010
- Construction Access:
  - Causeway Blvd. to 5<sup>th</sup> St. to Ridgelake Dr.
  - Bonnabel Blvd.
  - West End Blvd. to Hammond Highway to Coast Guard Ramp
- 92% Complete



# Levee Construction



# Foreshore Protection



# Foreshore Protection

## Reach 1 and Reach 2

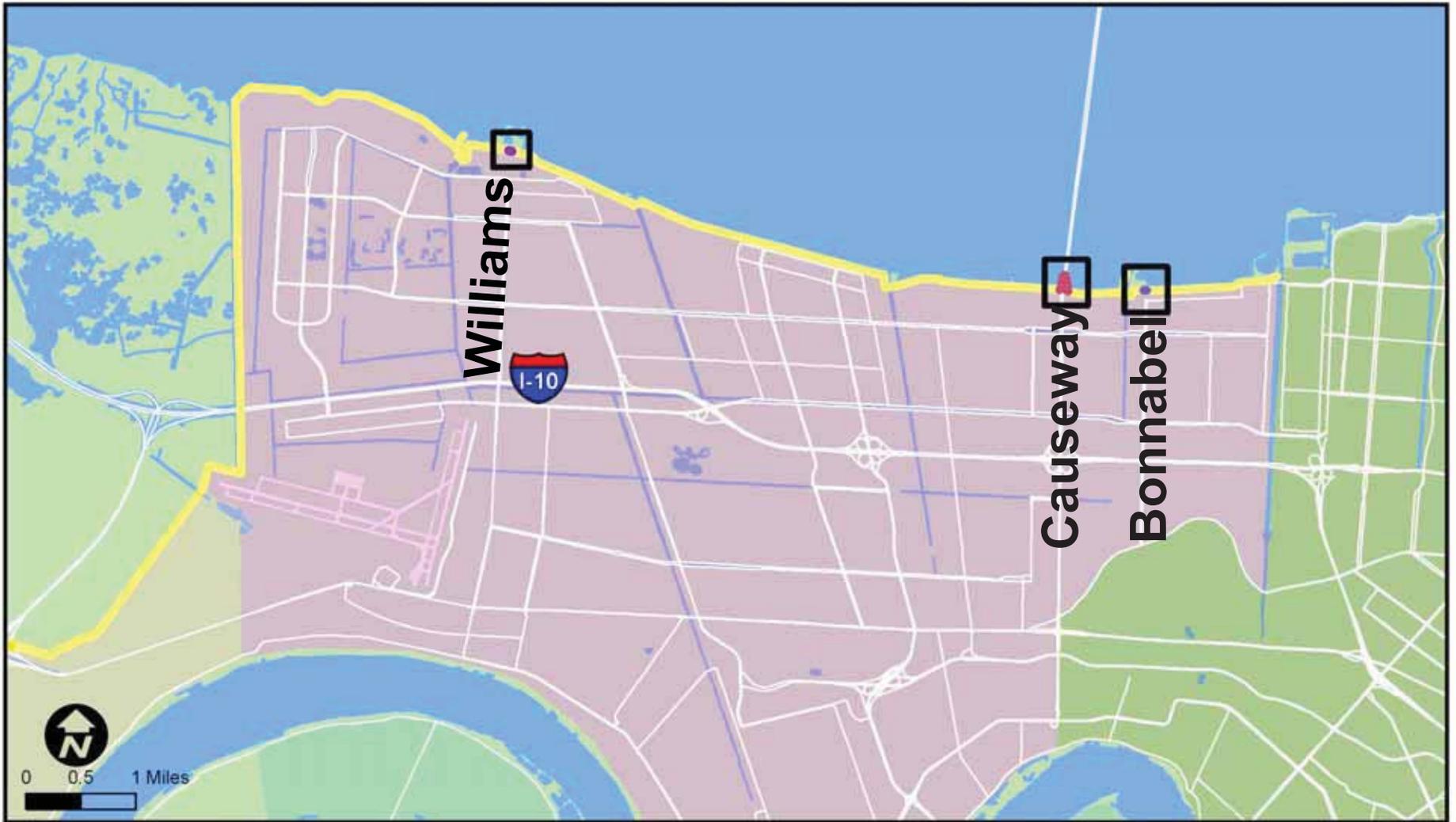
- Estimated Award Date: September 2010
- Impacts
  - Limited shoreline access during construction
- Construction Access
  - Marine only

## Reach 3 and a portion of Reach 4

- Estimated Award Date: August 2010
- Impacts
  - Limited shoreline access during construction
- Construction Access
  - Marine only



# Floodgates and Floodwalls



# Williams and Bonnabel Floodgate

## Williams Floodgate

- Award Date: 10 September 2009
- Estimated Completion: Sept. 2010



## Bonnabel Floodgate

- Award Date: 15 December 2009
- Estimated Completion: Sept. 2010



# Floodgate Construction



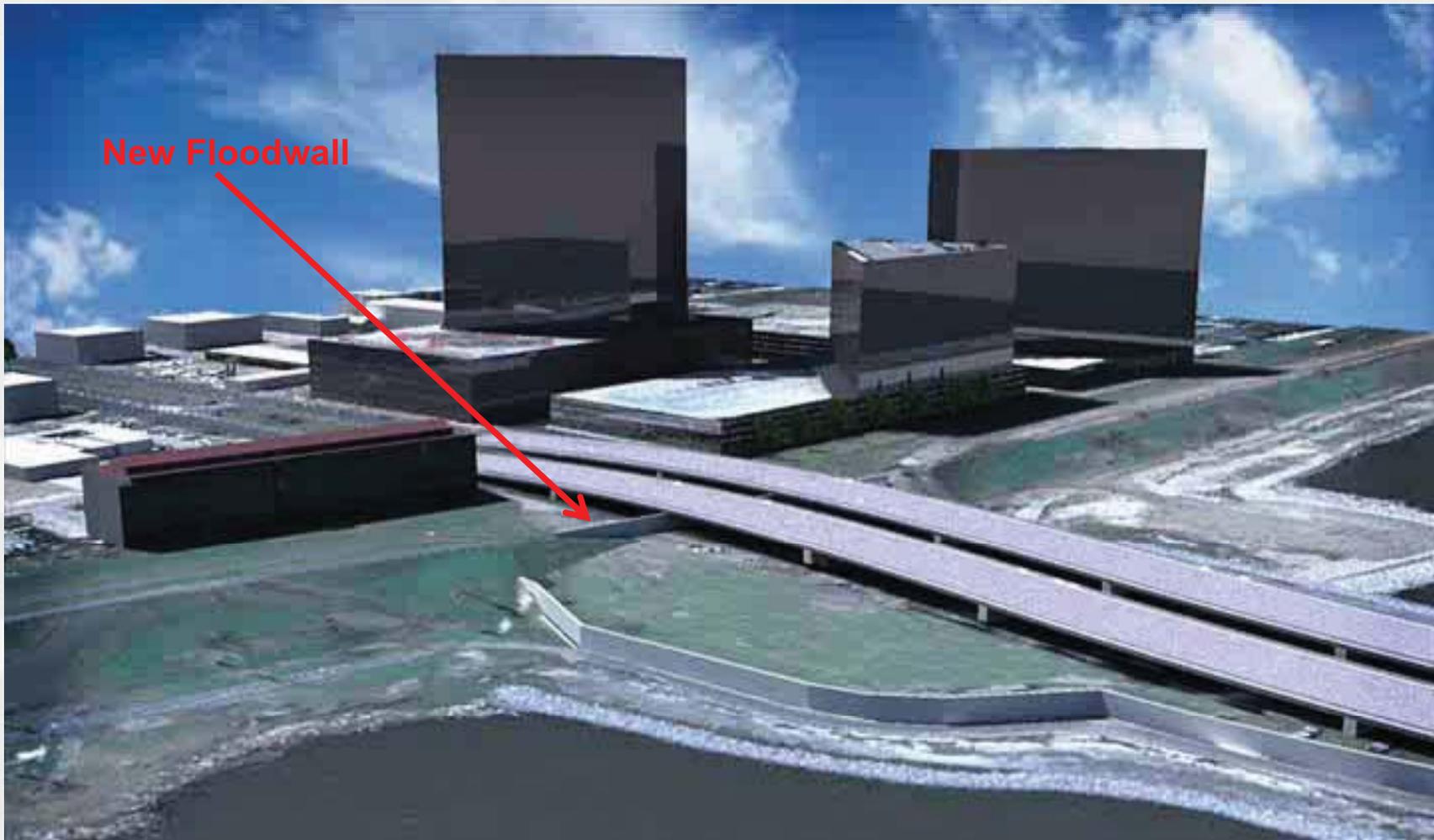
Williams Floodgate under construction



Bonnabel Floodgate under construction



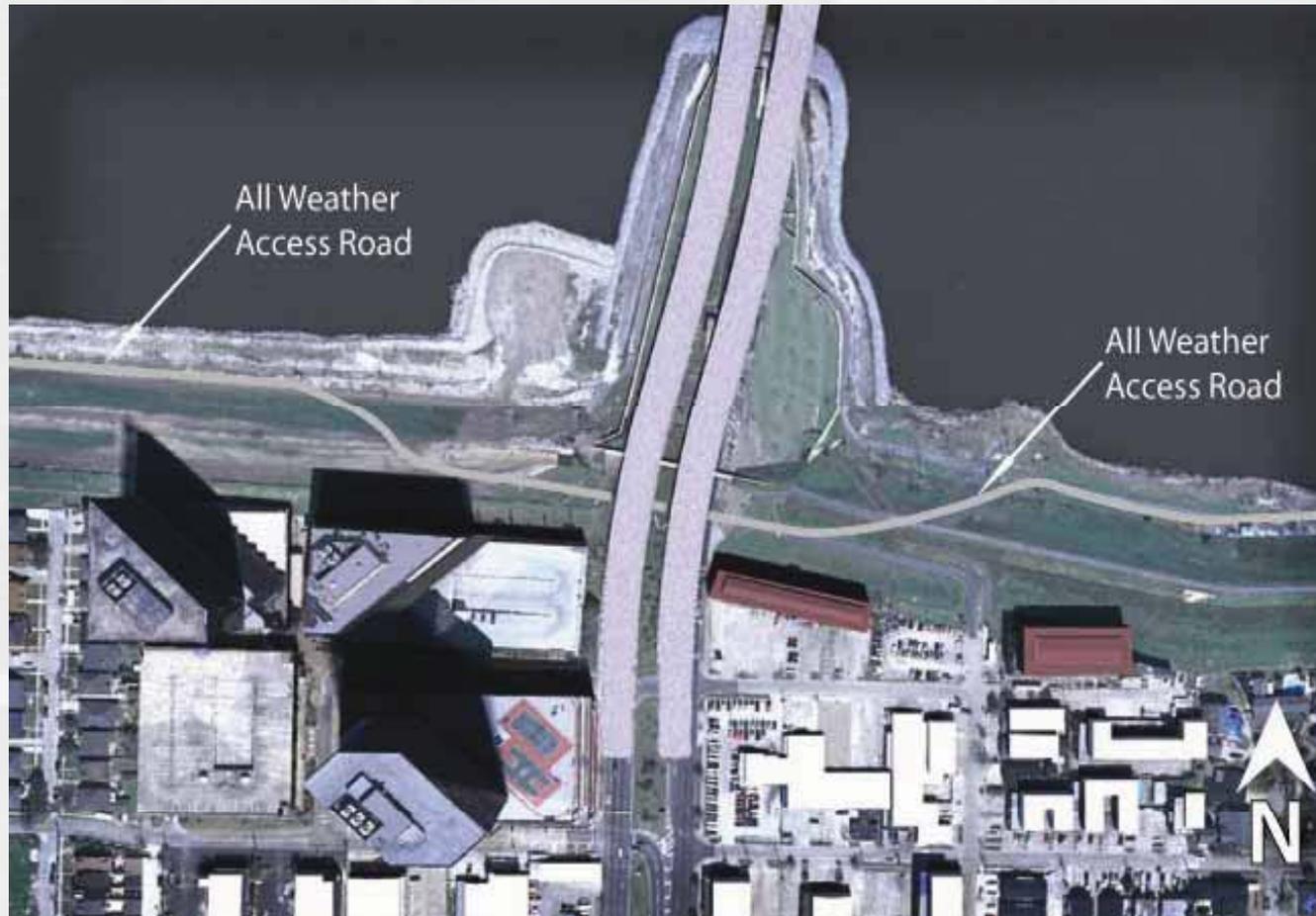
# Lake Pontchartrain Causeway



Proposed plan is to construct an overpass bridge over a concrete T-wall



# Causeway Construction Complete



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



# Lake Pontchartrain Causeway

- Estimated Award Date: August 2010
- Construction Access
  - Causeway Blvd.
  - Lake Pontchartrain by barge



# Construction Impacts

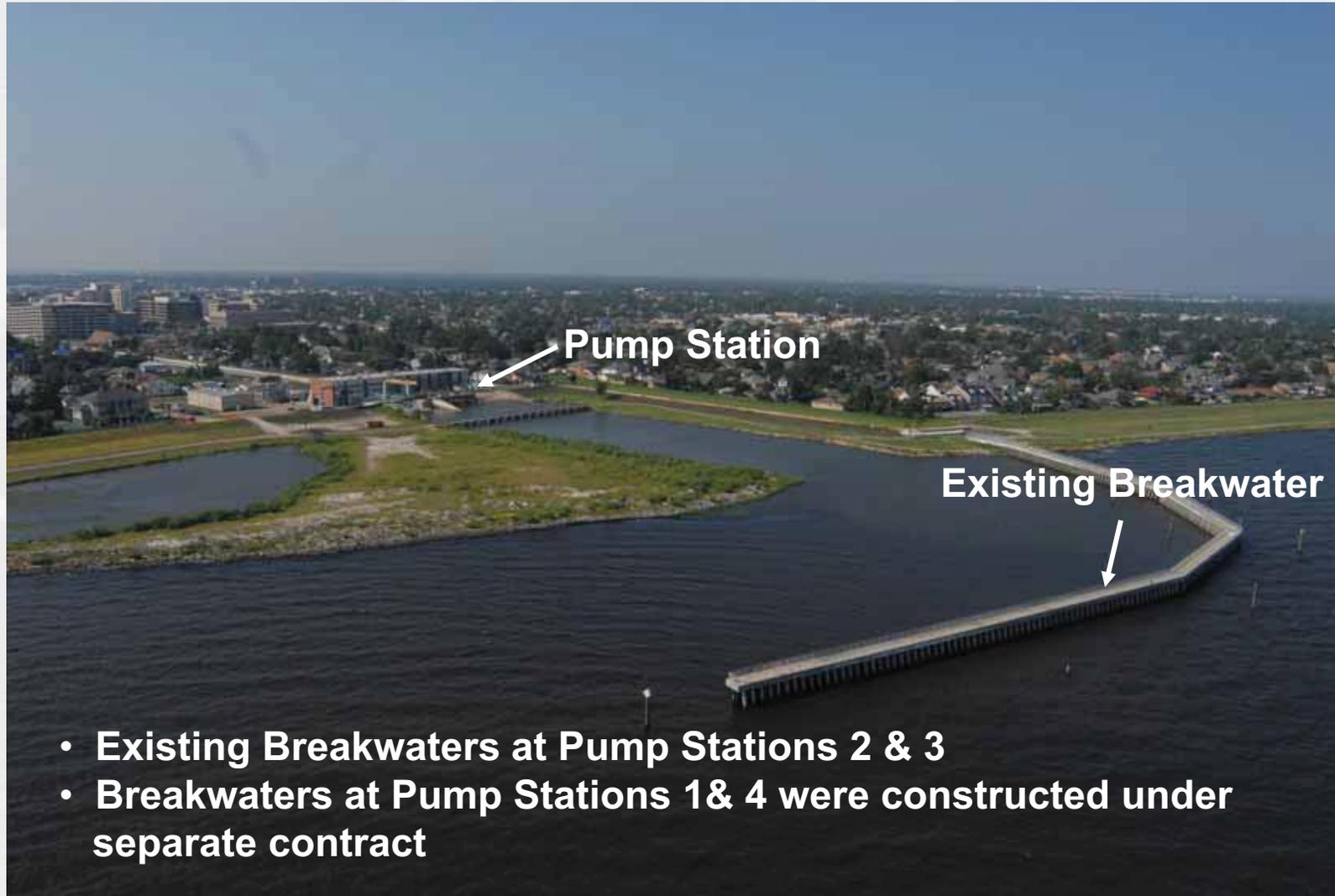
- Anticipated to begin in Fall 2010
- Minimize traffic impacts
  - Two-phased construction detours
  - Two lanes (north and south) open at all times
  - Modification of traffic signal at 6<sup>th</sup> Street to minimize delays



# Jefferson Lakefront Pump Stations



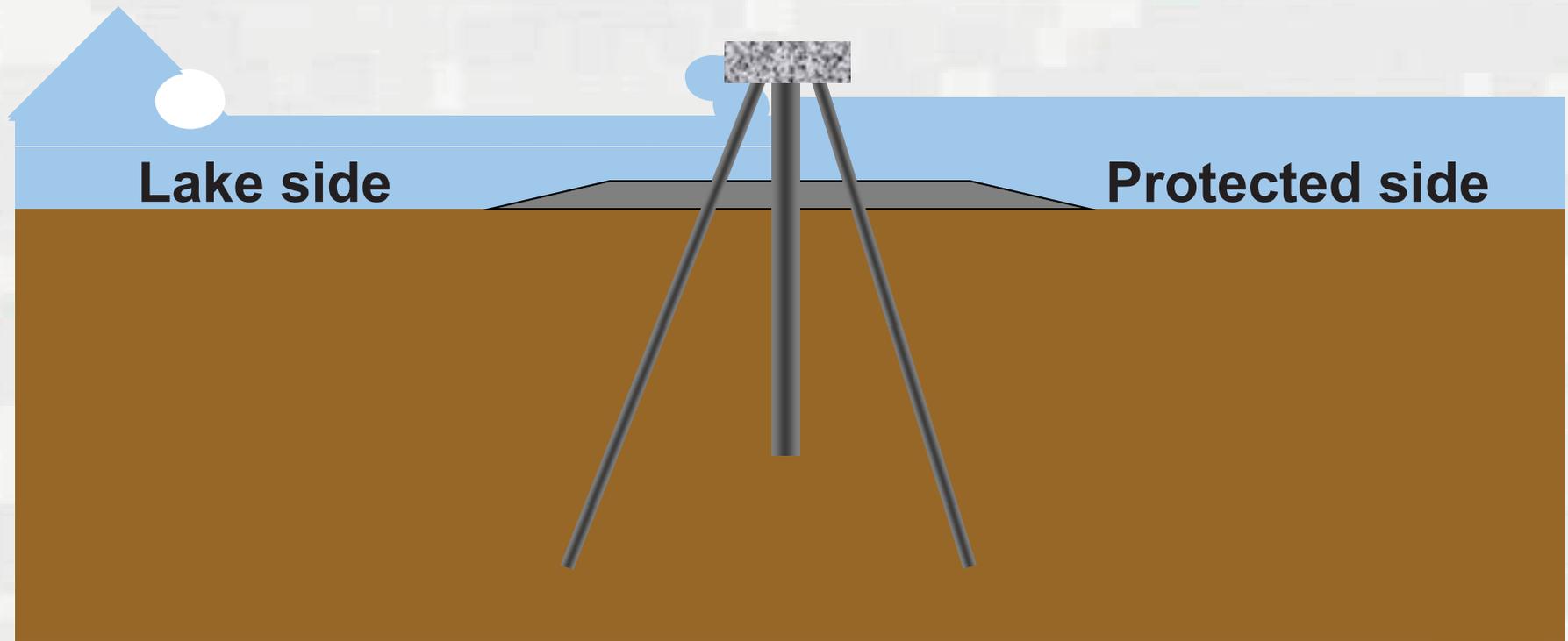
# Typical Breakwater



- Existing Breakwaters at Pump Stations 2 & 3
- Breakwaters at Pump Stations 1& 4 were constructed under separate contract



# Typical Section of Breakwater



# Breakwater Completion

## Bonnabel Breakwater



- Award Date: 7 May 2009
- Completion Date: 30 April 2010

## Duncan Breakwater



- Award Date: 21 August 2009
- Completion Date: 23 July 2010



# Fronting Protection



**Duncan Pump Station**



**Elmwood Pump Station**



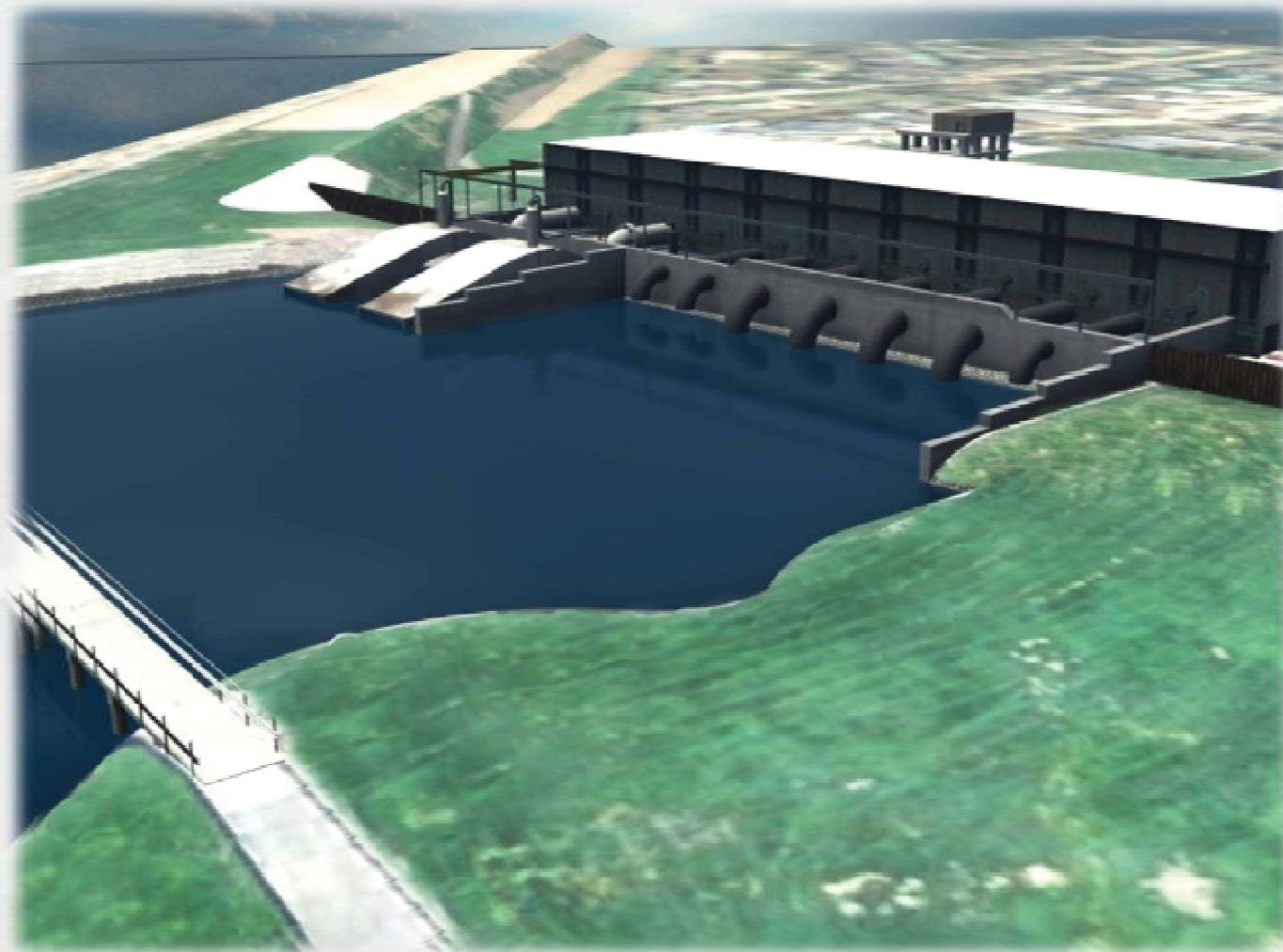
**Suburban Pump Station**



**Bonnabel Pump Station**



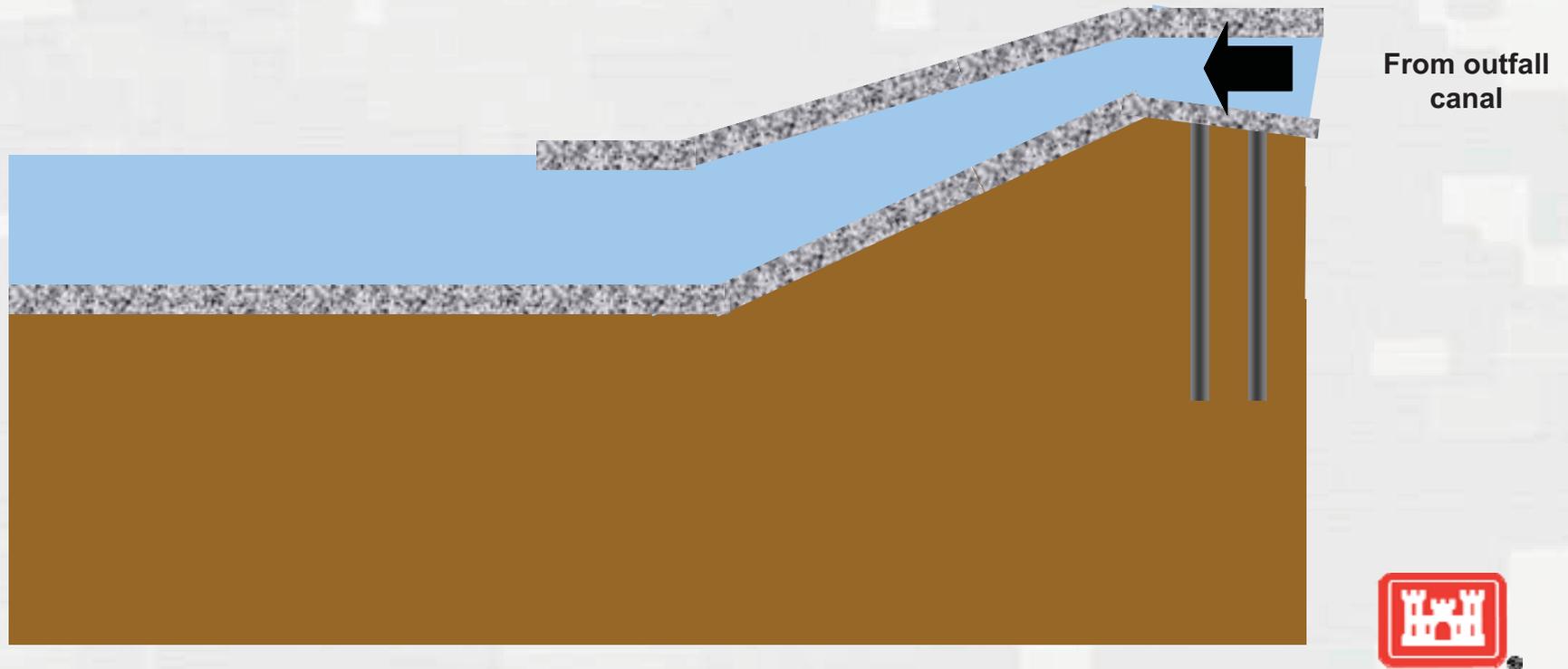
# With Newinfor Prototyping Stratteaction



# Typical Fronting Protection

## Jefferson Parish Horizontal Pumps

Current configuration



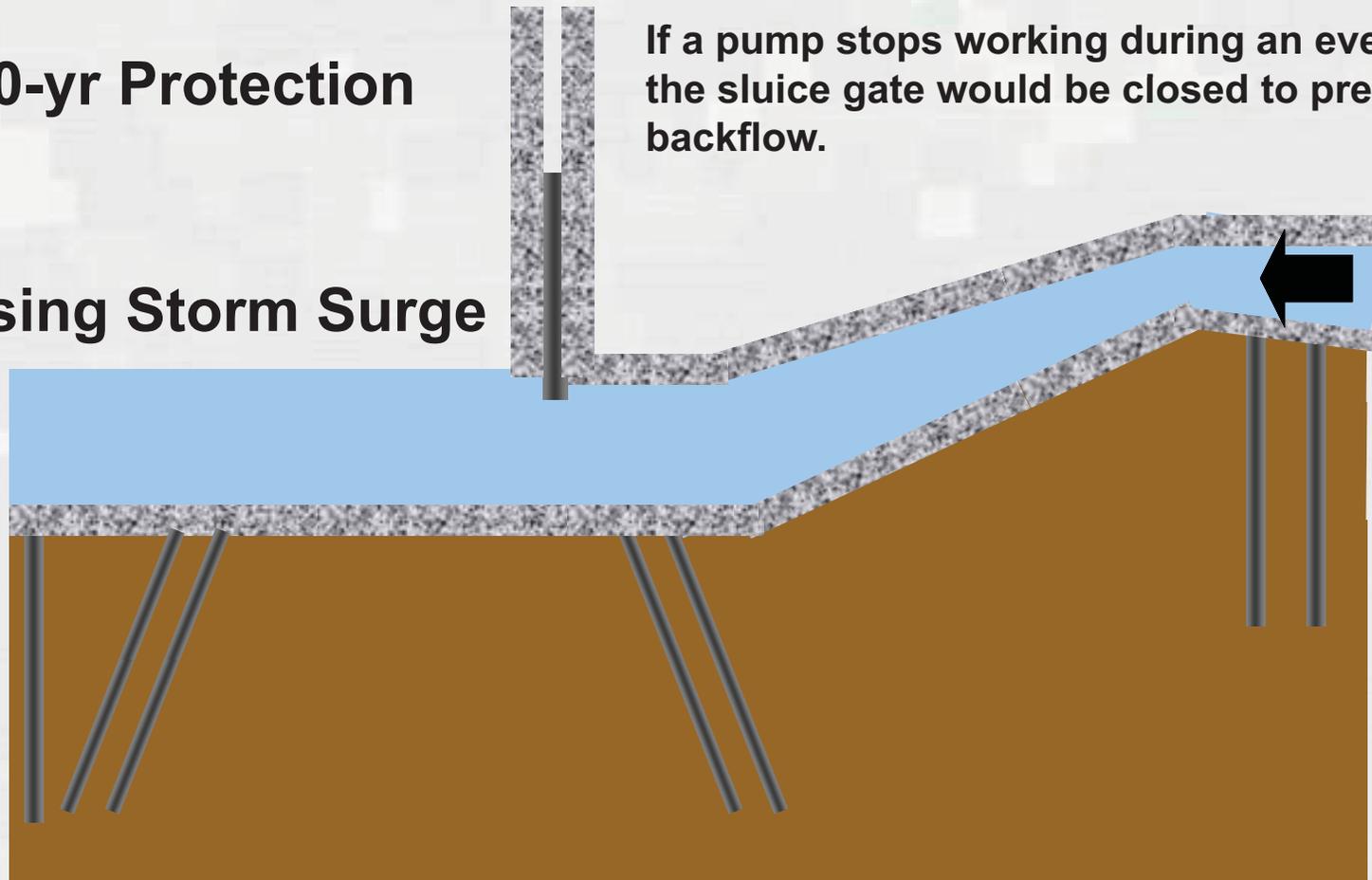
# Typical Fronting Protection Jefferson Parish Horizontal Pumps

100-yr Protection

Rising Storm Surge

If a pump stops working during an event the sluice gate would be closed to prevent backflow.

From outfall canal





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



# Fronting Protection

- Consists of 4 Lake Pontchartrain and Vicinity pump stations
  - Phase 1
    - Elmwood Pump Station
    - Suburban Pump Station
  - Phase 2
    - Bonnabel Pump Station
    - Duncan Pump station
- Contractor: Odebrecht



# Phase 1 Fronting Protection

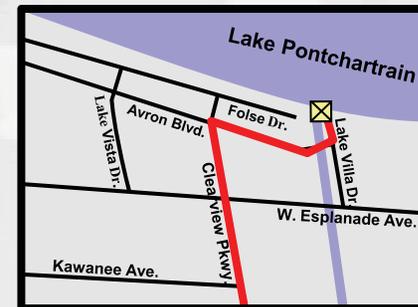
## Elmwood Pump Station

- Award Date: 15 April 2010
- Impacts
  - Increased truck traffic on access roads (marine access will be used to minimize impacts)
  - Increased noise in close proximity to the Pump Station
  - 24 hour operations permitted; pile driving allowed from 6 a.m. to 9 p.m.
- Construction Access
  - Williams Blvd to Vintage Dr. to Caryota Dr.
  - Lake Pontchartrain by barge



## Suburban Pump Station

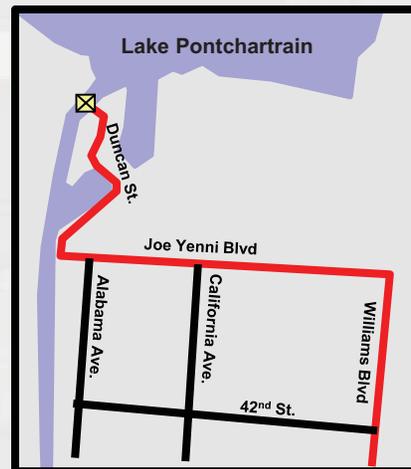
- Award Date: 15 April 2010
- Impacts
  - Increased truck traffic on access roads (marine access will be used to minimize impacts)
  - Increased noise in close proximity to the Pump Station
  - 24 hour operations permitted; pile driving allowed from 6 a.m. to 9 p.m.
- Construction Access
  - Clearview Pkwy. to Avron Blvd. to Lake Villa Dr.
  - Lake Pontchartrain by barge



# Phase 2 Fronting Protection

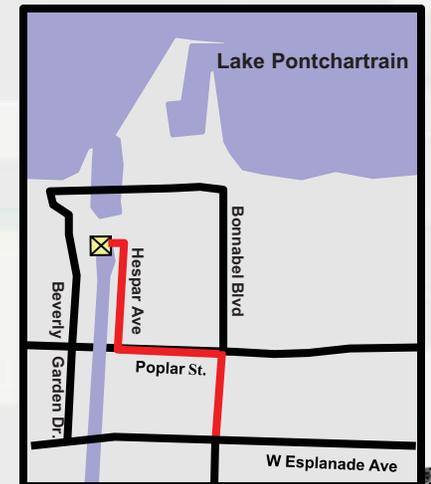
## Duncan Pump Station

- Award date: 15 April 2010
- Impacts
  - Increased truck traffic on access roads (marine access will be used to minimize impacts)
  - Increased noise in close proximity to the Pump Station
  - 24 hour operations permitted; pile driving allowed from 7 a.m. to 10 p.m.
- Construction Access
  - Williams Blvd. to Joe Yenni Blvd. Duncan St.
  - Lake Pontchartrain by barge



## Bonnabel Pump Station

- Award date: 15 April 2010
- Impacts
  - Increased truck traffic on access roads (marine access will be used to minimize impacts)
  - Increased noise in close proximity to the Pump Station
  - 24 hour operations permitted; pile driving allowed from 6 a.m. to 9 p.m.
- Construction Access
  - Bonnabel Blvd. to Poplar St. to Hesper Ave.
  - Bonnabel Blvd. to Lakefront
  - Lake Pontchartrain by barge



# 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](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)





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](http://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](http://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](http://www.facebook.com), search New Orleans District.



# 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 (40 CFR § 1506.11). Learn more...

### Announcements

- Draft [IER 2 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 Stormwatering EA #474 Drafts Public Comment](#) Period 4/17 - 5/23
- [Jefferson Parish Pump Station Stormwatering EA #475 Drafts Public Comment](#) Period 4/24 - 5/23
- Draft [IER 10 Public Comment](#) Period 4/13 - 5/12

### Upcoming

- [05/11/2009 - Public Meeting IER 8, 9, 10 and 11](#) [Learn More](#)
- [05/17/2009 - Draft IER 10 Public Comment Period Ends](#) [Learn More](#)

### Newly Available

- [NEW!! NOLA Environmental Data Viewer](#)
- [News Release 06 May 09 Draft IER 5](#)
- [IER 5 - Phase 2 Final Report: Operating Scenario Analysis](#) [Learn More](#)

**FEATURED PROJECT**

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

<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**

SEARCH

**PUBLIC INFORMATION**

[Learn more about what the Corps is doing to reduce risk. Browse](#)

**Emergency Information**  
[Food Storage](#) | [Disaster Response](#) | [Health Information and More](#)

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

**TOP HEADLINES**

[Document confirms action on Hurricane 11](#)

[SOUTH MISSISSIPPI ENVIRONMENTAL COMPLIANCE FOR PUBLIC REVIEW](#)

**ASK THE CORPS**

The Corps wants to hear from you!  
Q. Do you have information on the closing of Industrial Locks on August 11, 2009 for 60 days?  
A. Yes, for information regarding the August 11 closing of the lower Harbor Navigation Canal Lock, please visit [http://www.usace.army.mil](#)

Submit questions or comments to [ask.usace@usace.army.mil](mailto:ask.usace@usace.army.mil)

**RELATED VIDEOS**

[Meet Closure Complex](#)  
Learn more about the alternatives under consideration to reduce risk on the Westbank, South.

[Hurricane & Storm Damage Risk Reduction System](#)  
From levees to pumping stations, find out more about system features.

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