

Individual Environmental Report (IER) 9 Caernarvon Floodwall & St. Bernard Parish Hurricane and Storm Damage Risk Reduction Project Updates

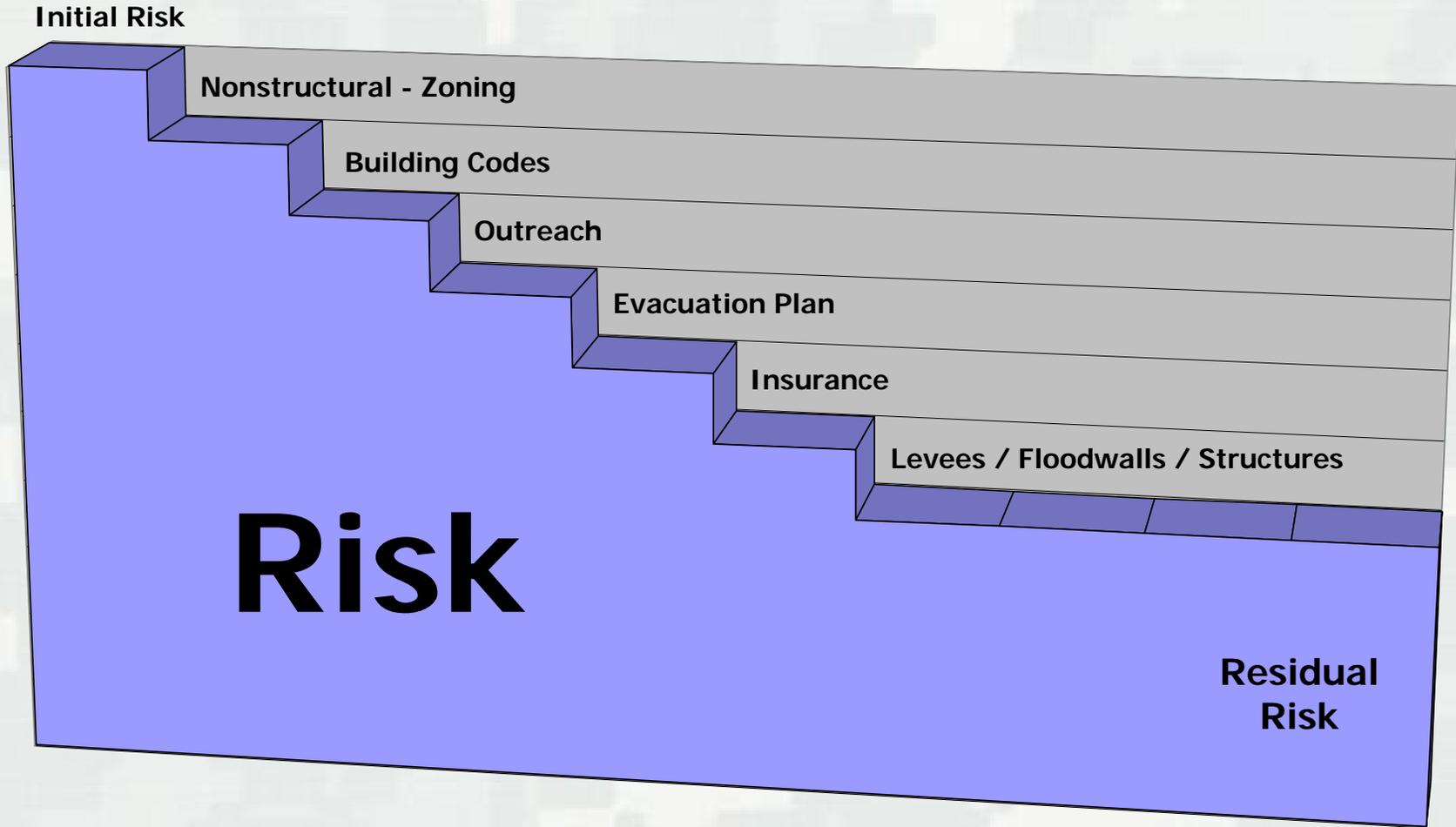
Chris Gilmore
Sr. Project Manager
December 10, 2009



US Army Corps of Engineers
BUILDING STRONG®



Buying Down Risk



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

IHNC Surge Barrier
Project Elevation: 24'- 26'

LPV 142
Project Elevation: 15'

LPV 145
Project Elevation: 29'- 32'

LPV 144
Project Elevation: 31'

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

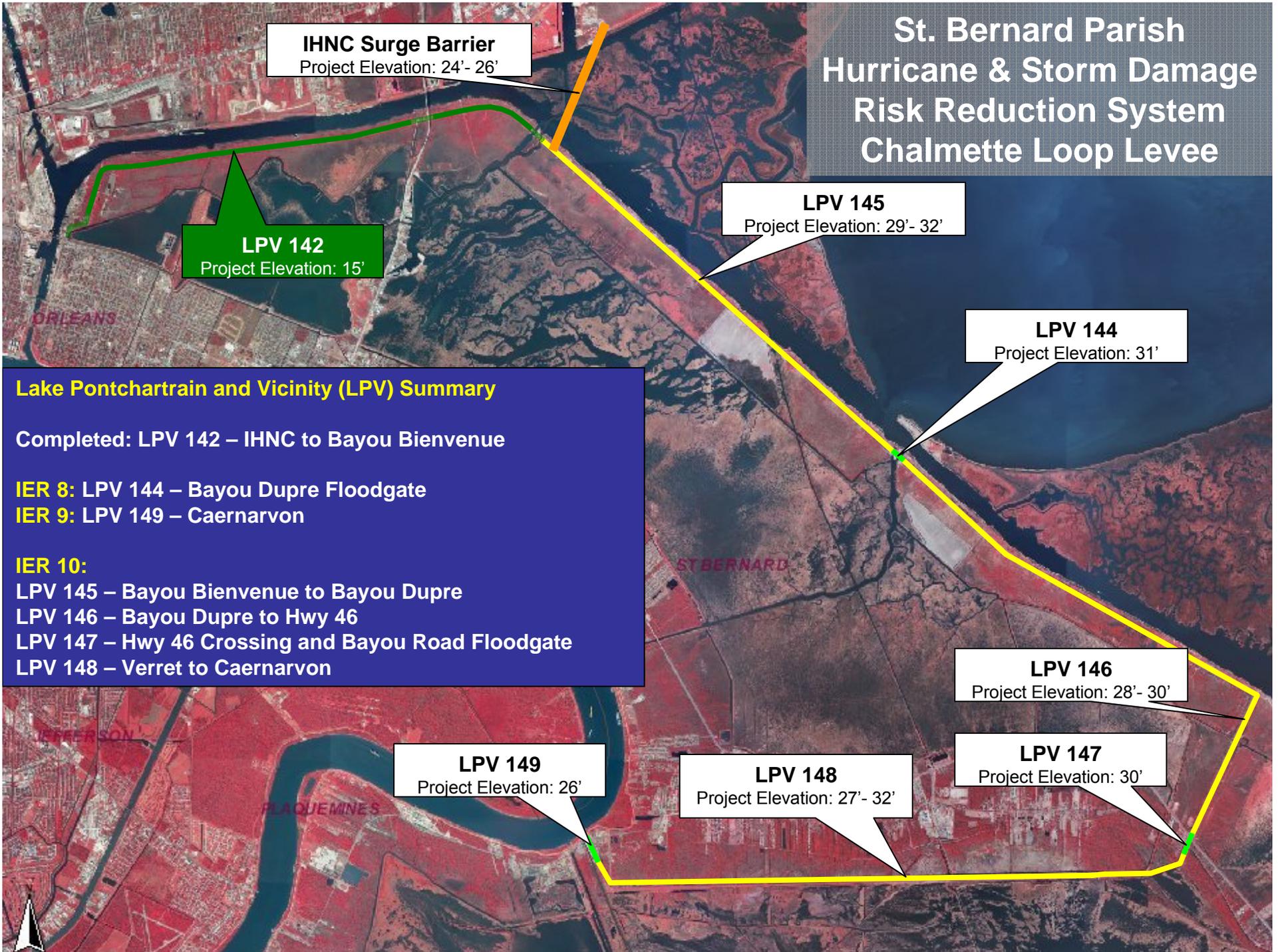
LPV 148 – Verret to Caernarvon

LPV 149
Project Elevation: 26'

LPV 148
Project Elevation: 27'- 32'

LPV 146
Project Elevation: 28'- 30'

LPV 147
Project Elevation: 30'



LPV 144: Bayou Dupre Floodgate



Existing Bayou Dupre Floodgate

Description:

- IER 8 (LPV 144) was approved on June 23, 2009
- Replacement of the existing 56' wide sector gate across Bayou Dupre
- 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'**



LPV 144: Bayou Dupre Floodgate

Status:

- Plans and Specifications (P&S) are complete
- Construction contract was advertised on December 4, 2009
- Construction contract is scheduled to be awarded in January 2010



Conceptual view after the new sector gate is built

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LPV 145: Bayou Bienvenue Floodgate to Bayou Dupre Floodgate

Description:

- IER 10 (LPV 145) was approved on May 26, 2009
- Approximately 6 miles of T-wall constructed on top of the existing levee
- T-wall will tie into the IHNC Surge Barrier project, just below the Bayou Bienvenue floodgate
- In the south the T-wall will tie into the new Bayou Dupre floodgate
- Access points will be constructed
- **Existing Elevation: 18.5'- 20'**
- **Project Elevation: 29'- 32'**



LPV 145 pile load test



LPV 145: Bayou Bienvenue Floodgate to Bayou Dupre Floodgate

Status:

- The 100% design is scheduled to be delivered in December 2009
- A contract has been awarded in the amount of approximately \$57 M
- The additional phase for construction of a T-wall for approximately \$299 M is scheduled to be awarded in January 2010
- The contractor will construct a temporary access bridge across Bayou Bienvenue
- The contractor has started driving piles for the pile load tests
- T-wall construction is scheduled to start January 2010



LPV 145 pile load test



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LPV 146: Bayou Dupre Floodgate to Highway 46

Description:

- IER 10 (LPV 146) was approved on May 26, 2009
- Approximately 8.5 miles T-wall will be constructed on top of the existing levee
- T-wall will tie into the new Bayou Dupre floodgate
- In the south the T-wall will tie into the new floodgate crossing Highway 46
- Three flood gates will be constructed in this reach to allow access through the T-wall
- **Existing Elevation: 18.5'- 20'**
- **Project Elevation: 28'- 30'**



Existing levee between Bayou Dupre and Hwy 46



LPV 146: Bayou Dupre Floodgate to Highway 46

Status:

- The 100% designs are scheduled to be submitted in January 2010
- An contract has been awarded in the amount of approximately \$50 M
- The additional phase for construction of a T-wall, for approximately \$235 M is scheduled to be awarded in January 2010
- The contractor scheduled to mobilize this month to begin the pile load tests
- T-wall construction is scheduled to start March 2010



Existing levee between Bayou Dupre and Hwy 46



LPV 147: Highway 46 and Bayou Road

Description:

- IER 10 (LPV 147) was approved on May 26, 2009
- The proposed action for this reach is the construction of floodgates at the Hwy 46 and Bayou Road
- The floodgates will be overhead trolley gates
- An emergency access ramp will be constructed adjacent to Hwy 46 to permit access once the floodgates are closed



Highway 46 and Bayou Road

- **Existing Elevation: 15'**
- **Project Elevation: 30'**



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LPV 147: Highway 46 and Bayou Road

Status:

- The 100% designs are scheduled to be complete in December 2009
- Construction of this reach is scheduled for February 2010



Example of a closed trolley floodgate



Example of an open trolley floodgate



LPV 148: Verret to Caernarvon

Description:

- IER 10 (LPV 148) was approved on May 26, 2009
- Approximately 8.5 miles of T-wall will be constructed on top of the existing levee to an elevation
- T-wall will tie into the new Bayou Road floodgate
- In the west the T-wall will tie into the new Caernarvon T-wall near Hwy 39
- Access points will be constructed
- **Phase 1 Pre-Katrina Elevation: 14'- 17.5'**
- **Phase 1 Project Elevation: 20'**
- **Phase 2 Project Elevation: 27'- 32'**



Existing Verret to Caernarvon levee raised to 20'



LPV 148: Verret to Caernarvon

Status:

- The 100% designs are scheduled to be submitted in February 2010
- The recent contract awarded was protested
- The award has been canceled and updated proposals will be reviewed
- The new award is scheduled for January 2010



Existing Verret to Caernarvon levee
by the Verret Fire Station (LPV 147)



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

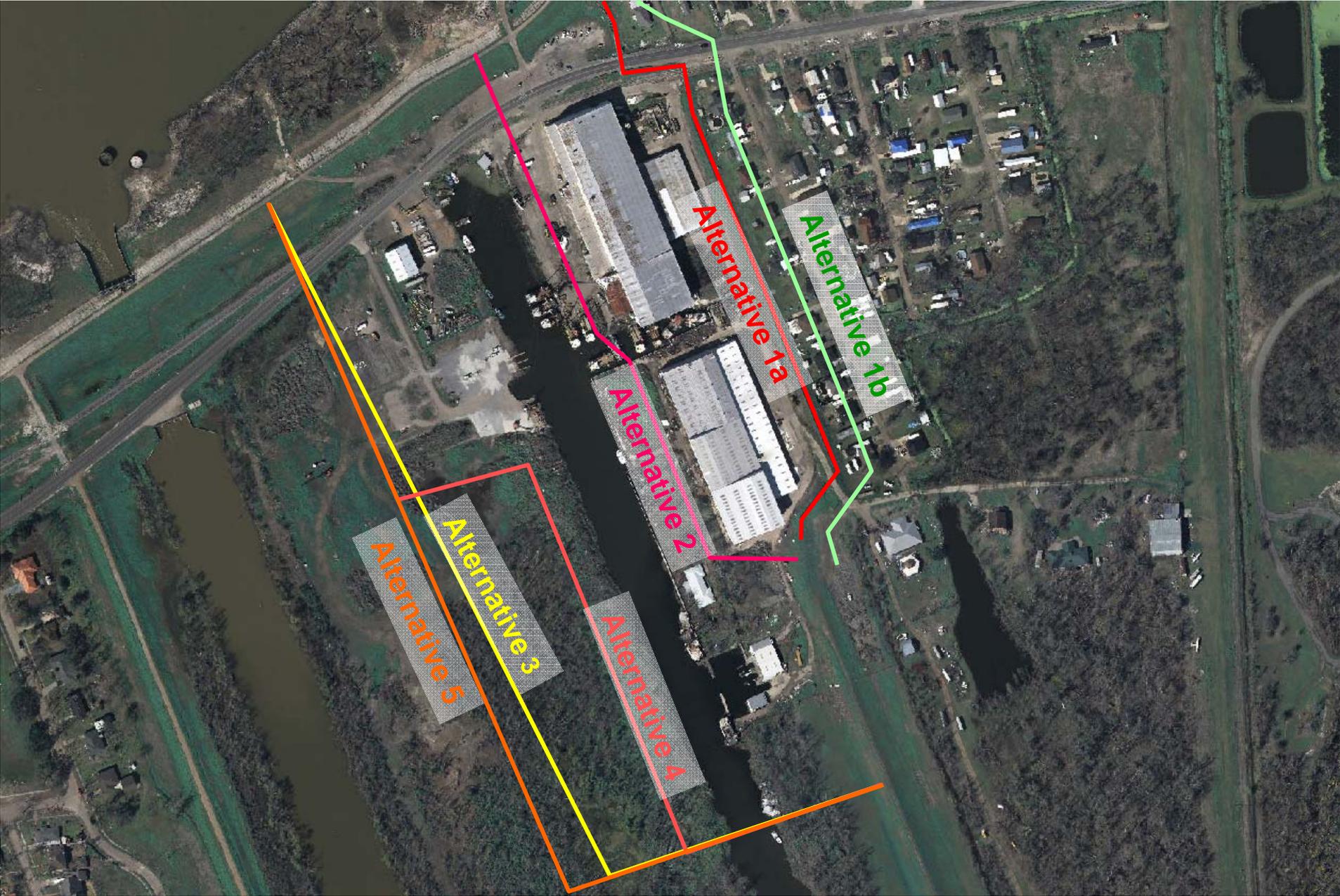


Individual Environmental Report (IER) 9

Caernarvon Floodwall



(IER 9) LPV 149: Caernarvon Floodwall Alignments



(IER 9) LPV 149: Caernarvon Floodwall Proposed Action

Description:

- A new T-wall alignment will be constructed across the Caernarvon Canal and along the western side of the canal
- The new alignment will include:
 - New overhead trolley gates across Hwy 39 and the Norfolk Southern Railroad
 - Construction of a new sector gate across the Caernarvon Canal
- **Existing Elevation: 14'**
- **Project Elevation: 26'**



(IER 9) LPV 149: Caernarvon Floodwall

Status:

- The Individual Environmental Report (IER) 9 is currently out for public review
- IER public review period ends December 24, 2009
- 404 Public Review period ends January 4, 2010
- The 100% design is scheduled to be submitted in December 2009
- The construction contract is scheduled to be awarded in March 2010*



Caernarvon Canal



**based off of the IER 9 Decision Record
being signed by mid January 2010*

<u>Project Description</u>	<u>IER Status</u>	<u>Construction Status*</u>
LPV 144 - Dupre Flood Gate	<i>IER #8 approved on June 23, 2009</i>	Construction contract award January 2010
LPV 145 - Bayou Bienvenue to Bayou Dupre	<i>IER #10 approved on May 26, 2009</i>	T-wall construction to begin January 2010
LPV 146 - Bayou Dupre to Hwy 46	<i>IER #10 approved on May 26, 2009</i>	T-wall construction to begin March 2010
LPV 147 - Hwy 46 and Bayou Road Floodgate	<i>IER #10 approved on May 26, 2009</i>	Construction to begin February 2010
LPV 148 - Verret to Caernarvon	<i>IER #10 approved on May 26, 2009</i>	New construction contract award January 2010
LPV 149- Caernarvon Floodwall	<i>IER #9 Public Review 11/25/09-12/24/09</i>	Construction contract award March 2010**

*Dates are estimated

** Based off of IER 9 Decision Record being signed in mid January

Currently Available for Public Review

- **IER Supplemental 14.a – Harvey to Westwego Levee, Jefferson Parish, LA**
 - ▶ Public review period: Nov. 16, 2009 to Dec. 15, 2009

- **IER 9 – Caernarvon Floodwall, St. Bernard Parish, LA**
 - ▶ Public review period: Nov. 25, 2009 to Dec. 24, 2009

- **IER 32 – Contractor Furnished Borrow Material #6, Ascension, Plaquemines and St. Charles Parishes, LA**
 - ▶ Public review period: Nov. 25, 2009 to Dec. 24, 2009



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:

**Patricia Leroux
P.O. Box 60267
New Orleans, LA 70160-0267
Telephone: 504-862-1544**

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



Resources

www.nolaenvironmental.gov

NOLA Environmental
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 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 7 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 Stormproofing EA #474 Drafts Public Comment](#) Period 4/17 - 5/23
- [Jefferson Parish Pump Station Stormproofing EA #475 Drafts Public Comment](#) Period 4/14 - 5/20
- Draft [IER 10 Public Comment](#) Period 4/13 - 5/12

[More...](#)

Upcoming

- 05/11/2009 - Public Meeting (IER 8, 9, 10 and borrow)
- 05/12/2009 - Draft IER 10 Public Comment Period Ends

[More...](#)

Newly Available

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

- News Release 06 May 09 Draft IER 5
- [IER 5 - Phase 2 Final Report: Operating Scenario Analysis](#)

[More...](#)

FEATURED PROJECT

USACE-MVN 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

Address: http://www.mvn.usace.army.mil/

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US Army Corps of Engineers

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New Orleans District

Floodwalls

Building them bigger, stronger, better
The U.S. Army Corps of Engineers is continuing to work expeditiously to complete the Hurricane and Storm Damage Risk Reduction System (HSDRRS) by 2011. To this end, the Corps is using valuable lessons learned to construct more resilient levees and floodwalls.

[See for yourself >>](#)

PUBLIC INFORMATION

6 Hurricane & Flood Risk Reduction
[Learn more about what the Corps is doing to reduce risk here >>](#)

Emergency Information
[Road Closures, Disaster Recovery, Parish Information and More >>](#)

NOLA Environmental
Did you miss a meeting? No problem! Find presentations, summaries and [More >>](#)

TOP HEADLINES

- [document confirming action on Westwego t Haxxy](#)
- [Corps releases environmental document for public review](#)
- [Corps to provide update on Westbank risk reduction projects](#)
- [Corps Seeks Industry Input on Design and](#)

ASK THE CORPS

The Corps wants to hear from you

Q. Do you have information on the closing of Industrial Locks on August 1, 2008 for 60 days?

A. Yes, for information regarding the August 1st closing of the Inner Harbor Navigation Canal Lock, [please click here.](#)

Submit questions or comments to askthecorps@usace.army.mil

FEATURED VIDEOS

West Closure Complex
Learn more about the alternatives under consideration to reduce risk on the Westbank. [Watch >>](#)

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

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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



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.

