IERs 8, 9, 10 and 11

Chalmette Loop
Hurricane Protection System
and
Improved Protection on the
Inner Harbor Navigation Canal
Meeting Purpose

♦ Provide the public with up to date project information so that they can be an informed participant in the decision making process.

♦ Public involvement is KEY to the success of this process.

We want to hear from you!
One Team: Relevant, Ready, Responsive and Reliable

St. Bernard Parish

Hurricane Protection System

Chalmette Loop Levee

LPV 141

LPV 142

LPV 143

LPV 144

LPV 145

LPV 146

LPV 147

LPV 148

LPV 149

Lake Pontchartrain and Vicinity (LPV) Summary

LPV 141, 142, & 143 – IHNC to Bayou Bienvenue
LPV 144 – Bayous Bienvenue and Dupre Flood Gates
LPV 145 – Bayou Bienvenue to Bayou Dupre Levee
LPV 146 – Bayou Dupre to Hwy 46 Levee
LPV 147 – Hwy 46 Crossing and Bayou Road Flood Gate
LPV 148 – Verret to Caernarvon Levee
LPV 149 – Caernarvon Floodwall

St. Bernard Parish
Hurricane Protection System
Chalmette Loop Levee
Current Status

- **LPV 142: Southside of GIWW**
  - Levee being raised to elevation 15.0’
  - Some sandy material found in the levee which is being replaced with suitable material for levee construction
  - Continuing investigations to determine if more sandy material is present, if found appropriate corrective actions will be taken
- **LPV 148.01: Verret to Caernarvon (Phase I)**
  - Proposals received 10 Oct 07
  - Awarded on 31 Oct 07
**Current Status (cont.)**

- **LPV 144 – 149: Chalmette Loop Levee System**
  - Investigating various options to provide 100-yr level of protection (described on following slides)
  - Scheduled to initiate design January/February 2008

- **St. Bernard Back Levee**
  - Currently investigating the feasibility of incorporating the back levee into the Federal system
IER 9: LPV 149
Caernarvon Floodwall

One Team: Relevant, Ready, Responsive and Reliable
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A range of alternatives were considered for both the Federal and Non-federal levees

Screening analysis was performed for the range of alternatives to eliminate some alternatives from further consideration

Alternatives were eliminated for several reasons including adverse impacts, feasibility, and failure to meet purpose and need of the project.
Alternative Types Under Consideration
Federal Levee System

- **LPV 145: Bayou Bienvenue to Bayou Dupre**
  - Earthen Levee with Narrow Right-of-Way
  - Earthen Levee with Protected Side Shift
  - T-Wall Floodwall / Cap
- **LPV 146: Bayou Dupre to MRGO**
  - Earthen Levee with Protected Side Shift
  - Earthen Levee with Narrow Right-of-Way and Protected Side Shift
  - Earthen Levee with Narrow Right-of-Way
  - T-Wall Floodwall / Cap
- **LPV 146 (MRGO to Hwy 46)**
  - Earthen Levee
  - Earthen Levee with Narrow Right-of-Way and Protected Side Shift
  - Earthen Levee with Narrow Right-of-Way
  - T-Wall Floodwall / Cap
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LPV 146 Alternatives Right of Way Limits

- Earthen Levee
- Protected side Shift with Narrow ROW (Proposed ROW)
- Existing ROW
- Earthen Levee Narrow ROW and T-Wall Floodwall / Cap within existing ROW
- Earthen Levee (Proposed ROW)
Alternative Types Under Consideration
Federal Levee System

- **LPV 147: Hwy 46 and Bayou Road**
  - Earthen Levee with stability berm and Hwy 46 over the levee with overbuild
  - T-Wall Floodwall / Cap and Hwy 46 over the T-Wall with an overpass
  - Bayou Road replacement floodgate
  - Bayou Road replace floodgate with full levee section

- **LPV 148: Verret to Caernarvon**
  - Earthen Levee
  - Earthen Levee with Narrow Right-of-Way
  - T-Wall Floodwall / Cap
Earthen Levee (Proposed ROW)

Existing ROW

Earthen Levee Narrow ROW and T-Wall Floodwall / Cap within existing ROW
St. Bernard Parish
Hurricane Protection System
Chalmette Loop Levee
Non-Federal
Levee Alternative
Alternative Types Under Consideration

Non-Federal Levee System (17.0EL)

- **Reach 1**
  - Earthen Levee with Flood-side Shift
  - T-Wall Floodwall
  - New T-Wall between railroad and Florida Ave

- **Reach 2**
  - Earthen Levee
  - T-Wall Floodwall
  - Earthen Levee to EL 13.5 and T-Wall Cap to EL. 17.0

- **Reach 3**
  - Earthen Levee
  - T-Wall Floodwall
  - Earthen Levee to EL 13.5 and T-Wall Cap to EL. 17.0
Reach 2 Alternatives
Right of Way Limits

Earthen Levee (Proposed ROW)

T-Wall Floodwall (Proposed ROW)

Earthen Levee to EL 13.5 and T-Wall Cap to EL 17.0 (Proposed ROW)

Existing ROW
Alternative Types Under Consideration
Non-Federal Levee System (17.0EL)

- Reach 4
  - Floodgate Closure Structure
- Reach 5
  - Earthen Levee
  - T-Wall Floodwall
  - Earthen Levee to EL 13.5 and T-Wall Cap to EL. 17.0
- Reach 6
  - Earthen Levee
  - T-Wall Floodwall
  - Earthen Levee to EL 13.5 and T-Wall Cap to EL. 17.0
Improving Hurricane Protection on the Inner Harbor Navigation Canal
IER #11
Project Purpose

Provide a 100-year Level of Protection to the IHNC from Hurricane-Induced Storm Surges by 1 June 2011
Alternatives

1. No Action
2. Raise buildings in flood zone
3. Raise levees and floodwalls
4. Construct channel and/or water body structures
5. Construct wetlands
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Alternative 4: Project Features and Location Ranges

Lake Pontchartrain Storm Surge Protection Project

Lake Borgne Storm Surge Protection Project

Pontchartrain 1

Pontchartrain 2

Borgne 1

Borgne 2

Borgne 3
One Team: Relevant, Ready, Responsive and Reliable
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One Team: Relevant, Ready, Responsive and Reliable
Alternatives and Preliminary Impacts to Significant Resources

No Action: Bring to authorized grade
Socio economic impacts: lack of adequate hurricane protection would result in flooding from some hurricanes.

Non-structural: Raise buildings.
Socio economic impacts: damages to buildings would be reduced but study area would be subject to flooding

Raise levees and floodwalls to 100 year flood protection level
Possible HTRW contamination and water quality impacts from sediment disturbance and construction activities, must maintain navigation so footprint would impact businesses and adjacent households, tree removals.

Construct channel and/or water body structures for storm surge protection
Various acreages of wetland and habitat impacts, salinity changes, shoreline erosion, short-term construction impacts to water quality, fisheries impacts, T&E impacts, tree removals.

Construct wetlands
Socio economic, impacts to flow and corresponding impacts to wetlands, salinity, sedimentation, fisheries impacts, short-term construction impacts to water quality, T&E impacts.
One Team: Relevant, Ready, Responsive and Reliable
Goal: provide an improved level of protection & reduced risk to the IHNC by 1 June 2009

Advertised advance measures with 100-year project solicitation on 26 October 2007

The amount of protection will be determined after a contractor is selected

Solution could be part of 100-year structure or a completely separate structure

Detailed design will be disclosed and analyzed in Tier 2 NEPA document
Questions and comments regarding Hurricane Protection Projects should be addressed to:

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PM-RS
P.O. Box 60267
New Orleans, LA 70160-0267
E-mail: mvnenvironmental@usace.army.mil
nolaenvironmental.gov.gov
Telephone: 504-862-1337

Your comments are welcome anytime now until the close of the IER Public Review Period

One Team: Relevant, Ready, Responsive and Reliable
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.

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 1567.11). This process was implemented in order to expediously complete environmental analysis for the 100-year level of Hurricane and Storm Damage Reduction effort authorized and funded by the Administration and the Congress. The proposed actions are located in southern Louisiana area and relate to the Federal effort to rebuild the Hurricane and Storm Damage Reduction system in the New Orleans Metropolitan area as a result of Hurricanes Katrina and Rita. [Learn More]

**UPCOMING EVENTS:**

Public Meeting: July 26, 2007 7:00 pm, St. Charles Sub Basin - Ramada Inn 100 James Drive St. Rose, LA 70087

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