# Lake Pontchartrain & Vicinity General Reevaluation Report

## Public Information Meeting for the Draft Report

New Orleans District January 22, 2020

"The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation."





EAR BULKHEADS CAN BE XS & DAM

ESTRESSED CONCRET

## **PUBLIC INFORMATION MEETING**

## <u>Agenda</u>

- FAQs
- Corps Study Process
- Project Background
- Alternatives Considered
- Tentatively Selected Plan
- Next Steps: Project Schedule
- Public Comment Period

## **Information Posters & Tables**

## **Submitting Comments**

- Email: CEMVN-LPVGRR@usace.army.mil
- Court Reporter available tonight







## FAQS

- Does the HSDRRS currently provide the 1% level of risk reduction?
- Why weren't the levees/floodwalls built higher to begin with?
- Why didn't this study begin until 2018 when the need for future levee lifts was always known?
- Why is the study important?
- When would construction begin?





## **MEETING PURPOSE / WHAT WE NEED FROM YOU**

## • Inform the public

- Provide background on study
- Discuss alternatives evaluated
- Present "Tentatively Selected Plan"

## Solicit your input

- Issues and concerns
- Formulation and evaluation of alternatives
- Tentatively Selected Plan





	Study Overview	Planning Steps	Path Forward	Comments	
CO	RPS STUD	Y PROCESS			
	Scoping	Alternative Evaluation & Analysis	Feasibility Analysis of Selected Plan	Final Repo	rt
<ul> <li>Realist</li> <li>inp areains</li> </ul>	<ul> <li>quest public</li> <li>ut on study</li> <li>a issues for</li> <li>nsideration</li> </ul>	Evaluate alternatives Recommend a plan Draft report / National Environmental Policy Act (NEPA) document Opportunity for public review & comment	<ul> <li>Finalize report and release for public review</li> </ul>	n • Send final repo Congress for approval and funding	ort to
		Stage		US Army Corps of Engineers *	U.S.ARNY

6

## **AGENCY PARTNERSHIP & COORDINATION**

#### **Non-Federal Sponsor**

Coastal Protection and Restoration Authority (CPRA)

# CPRA AND RESTORY ON AUTHORY

#### **Permitting & Advisory Agencies**





## **PROJECT AREA – LAKE PONTCHARTRAIN & VICINITY**

- Located between the Mississippi River, Lake Pontchartrain, and Lake Borgne
- Originally authorized by the Flood Control Act of 1965
- Approximately 126 miles of levees and floodwalls



Study Overview	Planning Steps	Path Forward	Comments	

## WHY ARE WE HERE?

Today, the system provides the 1% level of risk reduction authorized by Congress and the Corps is fully confident it will perform as designed and continue to do so for several years without additional lifts.

The need for future levee lifts has always been known, but was not authorized along with the system's initial construction.





of Engineers





\**Note*: Because of the age of the levees, the topography, bathymetry, and other factors, the levee settlement rates are not equal across the system.





#### Effects of settlement, subsidence, and sea level rise





12

File Name

#### WHY CONSTRUCT IN LIFTS?



Multiple Lift vs. Single Lift Construction Compared





Study Overview	Planning Steps	Path Forward	Comments
Olday Overview			Comments

#### Study Purpose

• The study will reevaluate the performance of the LPV project given the combined effects of consolidation, settlement, subsidence, sea level rise, and new datum over time.

#### **Study Area Problems**

- Increased risk of overtopping of LPV levees during hurricane and tropical storm events.
- Increased risk to life safety and storm-related economic damages.

#### **Study Objectives**

 Reduce economic damages and risk of life loss due to hurricane and tropical storm damage.





Comments

## PLAN FORMULATION PROCESS

#### **Measure Identification**

- Utilized existing infrastructure, existing reports, and subject matter expertise
- Structural, Non-Structural, Natural and Nature Based Solutions

#### **Measure Screening**

- 13 measures identified
- Evaluated using professional judgment, existing data, cost/benefit, meets objectives
  - 4 measures screened from further analysis

#### **Alternative Formulation**

- 6 formulation strategies
- 4 screened from further analysis

#### **Final Array**

2 Final





	Study Overview	Planning Steps	Path Forward	Comments	17
		MEAS	SURES		
<ul> <li>Le</li> <li>Su</li> <li>Ne</li> <li>Br</li> <li>Int</li> <li>Ac</li> </ul>	actural evee lift urge Barrier ew floodwalls reakwaters terior drainage impro dd armoring at the flo ave berms	<ul> <li>Risk C</li> <li>Buyou</li> <li>Flood-</li> <li>Elevat</li> </ul>	ructural Communication Its Proofing ed buildings	<ul> <li>Nature-Base</li> <li>Marshes</li> <li>Dunes/Beaches</li> <li>Living Shoreline</li> </ul>	
	ACQUISITION	ELEVATED BUILDING DRAINAGE IMPROVEMENTS LEVEE/ FLOODWALL		ures . Reefs .ts e	REAKWATERS

## ALTERNATIVES CONSIDERED

- No Action Alternative
- Alternative 1: System Levee Lifts to the Projected 1% AEP Event at 2057
- Alternative 2: System Levee Lifts to the Projected 1% AEP Event at 2073
- Alternative 3: System Levee Lifts at 2073 that Maximize Benefits
- Alternative 4: Selective Levee Lifts
- Alternative 5: Non-Structural
- Alternative 6: Sponsor Plan





	Study Overview	Planning Steps	Path Forward	Comments	19
	VALUATION O			407V 507V	
$\checkmark$	Hydrology & hydr modeling	aulics		Pinto	State of the state
$\checkmark$	Cost estimates			100W REW DOW	sow aow 79w ongitude
$\checkmark$	Economic benefit (damages reduce		Econ	Hydraulics	
√	Environmental im (mitigation)	pacts		Life Safety Environ- mental	1
$\checkmark$	Real estate consi	derations		Effects	
$\checkmark$	Reductions in life	safety risk			2.90
✓	Reduction in risk infrastructure	to critical	Tentat	ively Selected Plan	

US Army Corps of Engineers \*

U.S.ARNY



Estimated total cost: ~\$2.6 billion

	Study Overview	Planr	ning Steps	Path Forward	Comments	
NE	XT STEPS					
Final General Reevaluation Report			<ul> <li>Response to public comments included</li> <li>Refined design based on additional analysis</li> <li>Final plan sent to Congress</li> </ul>			
	Congressiona Authorization Appropriation	&	Water • Fundin	Resources Develo	ly through federal	
	Design Phase	•		onal survey and da rt design refineme		
Со	nstruction (Pha	ased)		ruction contracts a jed by the Corps	warded and	





## HOW TO COMMENT

#### Send your comments by February 7, 2020

Mail:

U.S. Army Corps of Engineers, New Orleans District C/O Mr. Bradley Drouant, P.E. CEMVN-PMO-L, Room 361 7400 Leake Avenue New Orleans, LA 70118

> Email: CEMVN-LPVGRR@usace.army.mil

A Court Reporter is available tonight to accept verbal comments





## **FREQUENTLY ASKED QUESTIONS**







## PLACEHOLDER FOR FAQS



