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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 Environmental Assessments (EA), Environmental Impact Statements (EIS), or Individual Environmental Reports (IER)
- Public involvement is KEY: We want to hear from you!
- **Goal: more informed decision making through public involvement**



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Improving Hurricane Protection on the Inner Harbor Navigation Canal IER #11 Tier 2 Borgne





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Project Purpose

Provide 100-year level of protection to the communities surrounding the Inner Harbor Navigation Canal (IHNC) from hurricane-induced storm surges by June 2011.

Provide advance measures by hurricane season 2009.



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Where we've been

- IER #11 Tier 1 Decision Record signed March 14th
- Investigated alternatives for providing improved protection for the communities surrounding the IHNC



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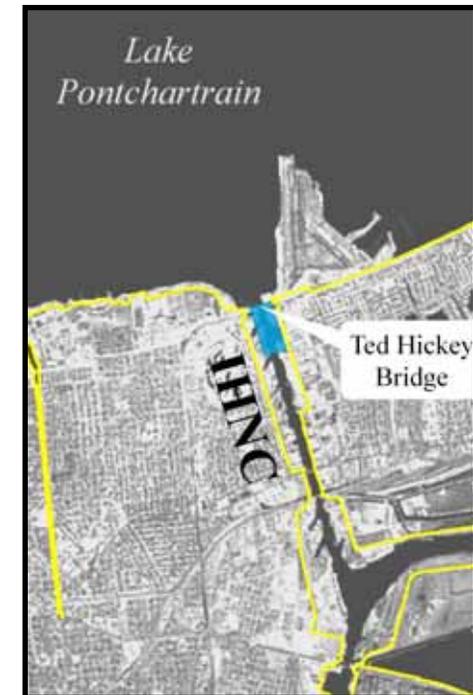
Where we've been

- Selected “Storm Surge Protection Structures” alternative to protect from Lake Borgne surge and Lake Pontchartrain surge
- Selected “Pontchartrain 2” and “Borgne 1” location ranges

Borgne 1



Pontchartrain 2





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IER #11 Tier 2: Where we're going

Two Tier 2 IERs

- **IER #11 Tier 2 Borgne:**

Alignment and design alternatives within “Borgne 1”

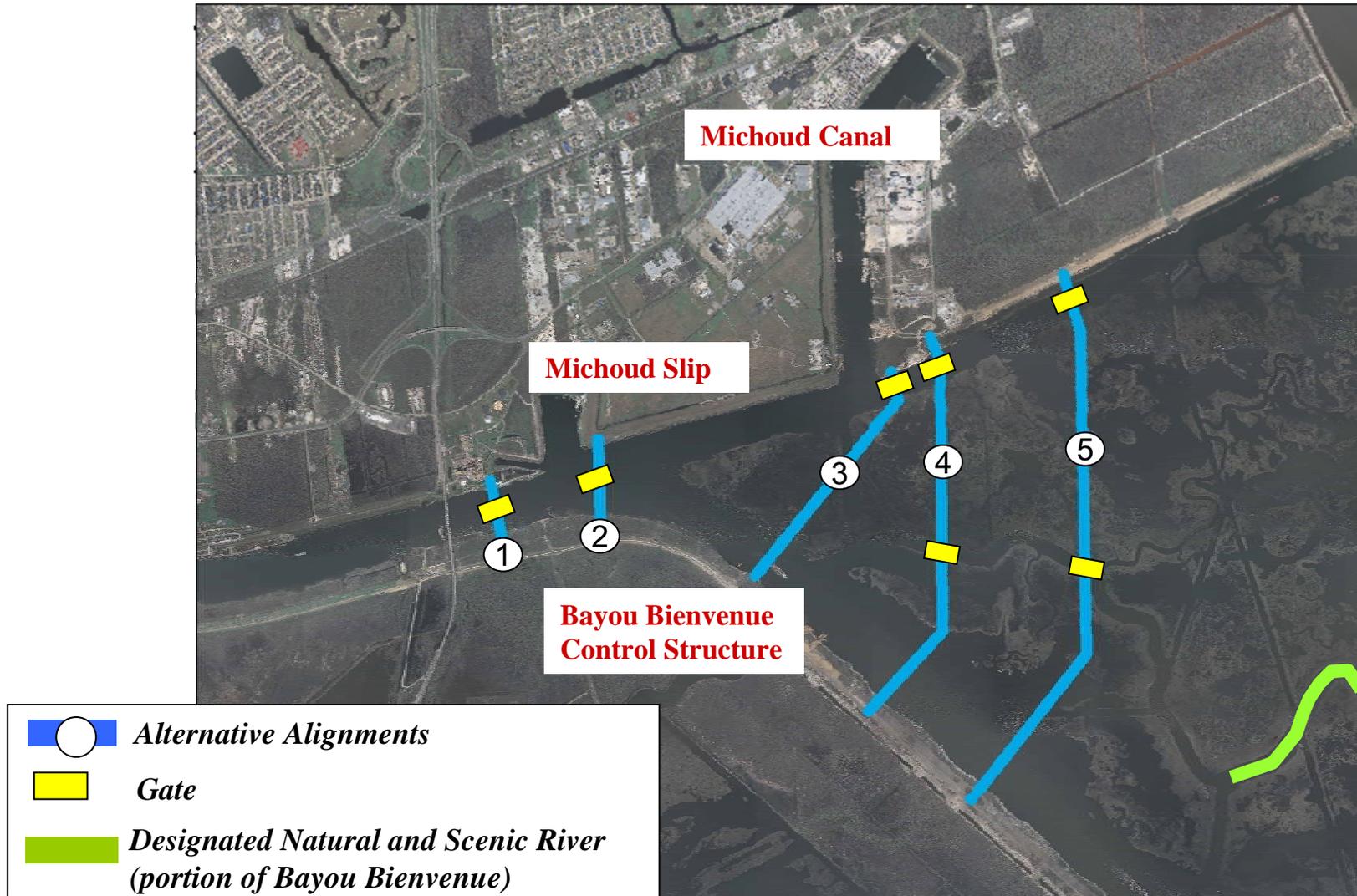
- **IER #11 Tier 2 Pontchartrain:**

Alignment and design alternatives within “Pontchartrain 2”
(alternatives to be developed this summer)



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IER #11 Tier 2 Borgne Alternative Alignments Overview

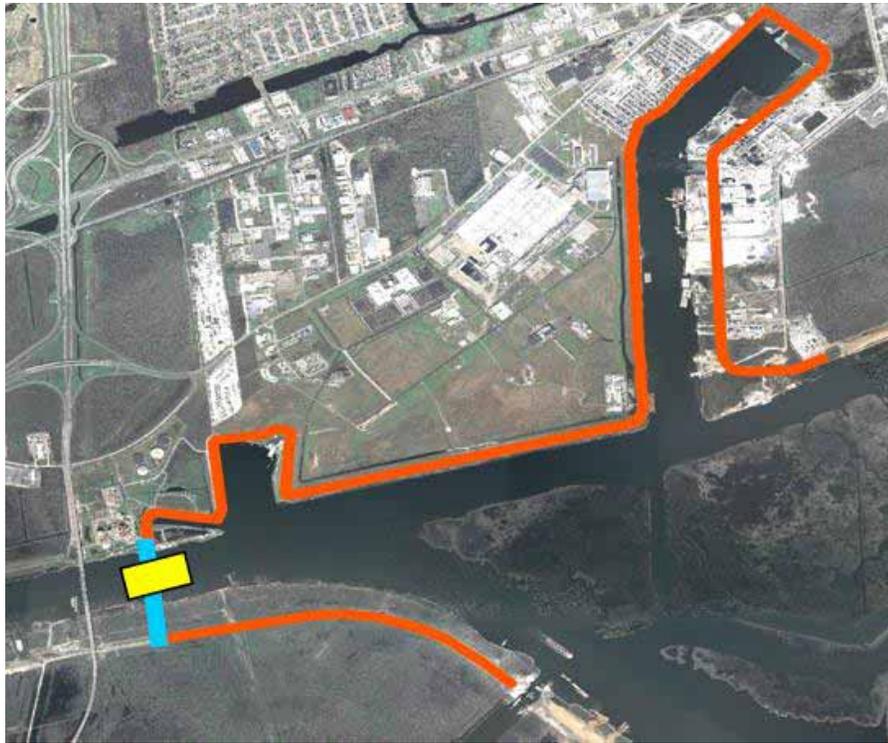




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IER #11 Tier 2 Borgne Alternative Alignments

Alignment 1



Alignment 2



Levees & Floodwalls to be Raised



Alternative Alignments



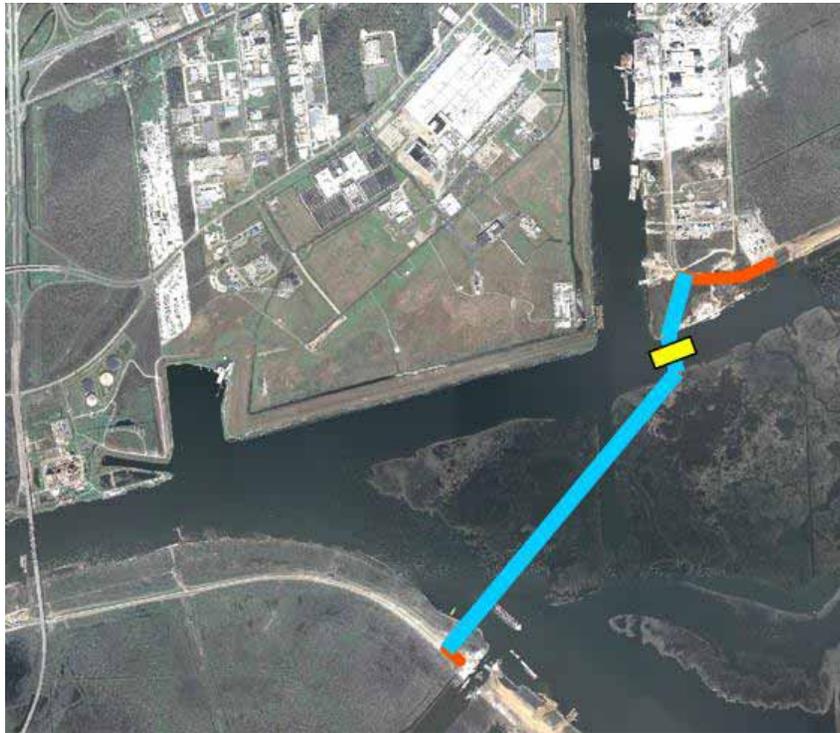
Gate



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IER #11 Tier 2 Borgne Alternative Alignments

Alignment 3



Alignment 4 & 5



- | | |
|---|----------------------------------|
|  | Levees & Floodwalls to be Raised |
|  | Alternative Alignments |
|  | Gate |



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Project Feature Alternatives

Gate

(GIWW gate on all alternative alignments; Bayou Bienvenue gate on alternative alignments 4 & 5)

- A. Vertical lift gate**
- B. Sector gate**
- C. Concrete barge gate**

MRGO Closure structure pending de-authorization
(applicable to alternative alignments 3, 4 & 5)

- A. Earthen closure**
- B. Sheet pile cells**
- C. Structural walls**



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Project Feature Alternatives

Barrier

(applicable to alternative alignments 3,4 & 5)

A-1. Traditional levee

A-2. Traditional levee with flow structures

B-1. Geotextile levee

B-2. Geotextile levee with flow structures

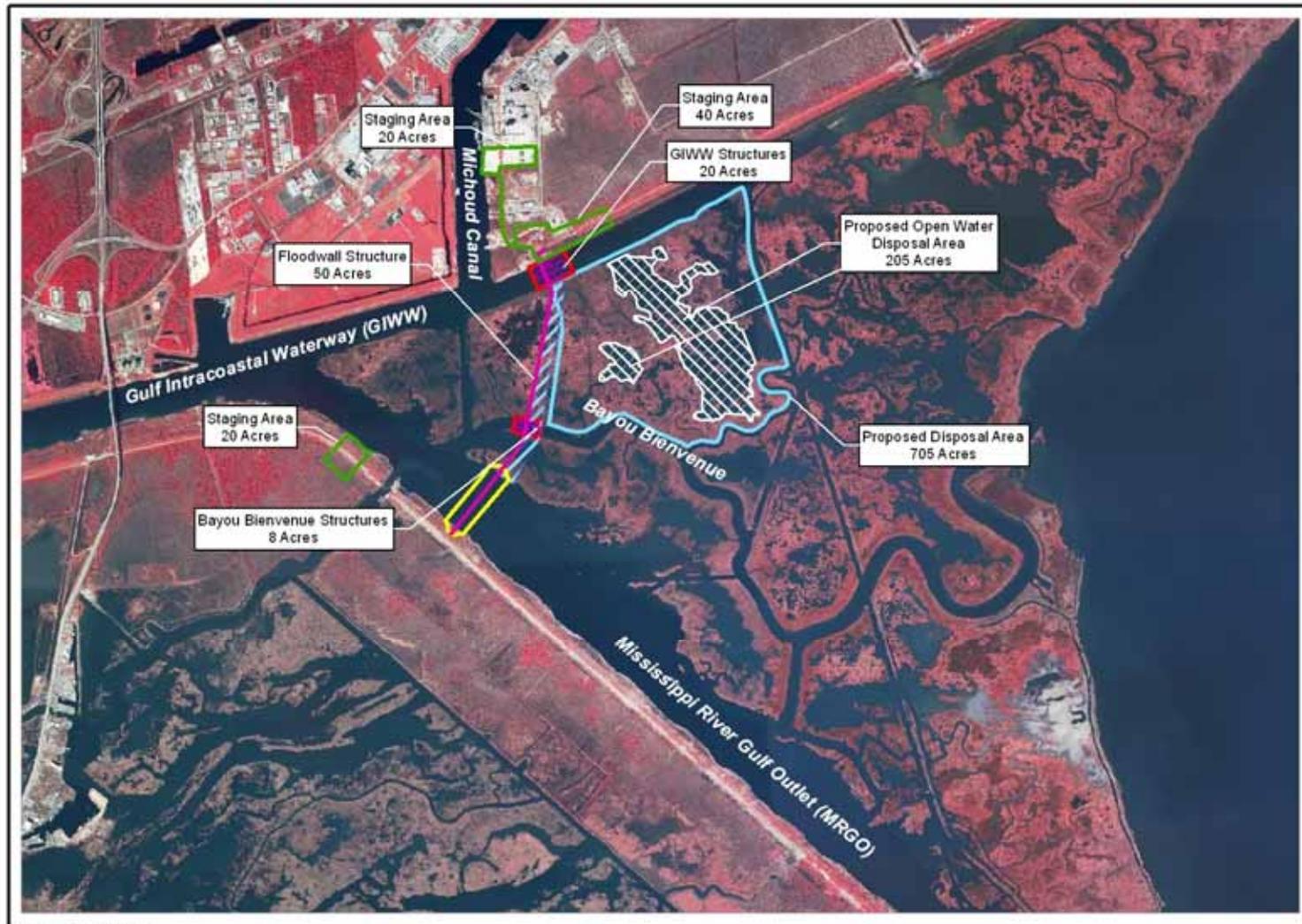
C-1. Structural wall

C-2. Structural wall with flow structures



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IER #11 Tier 2 Borgne Proposed Action

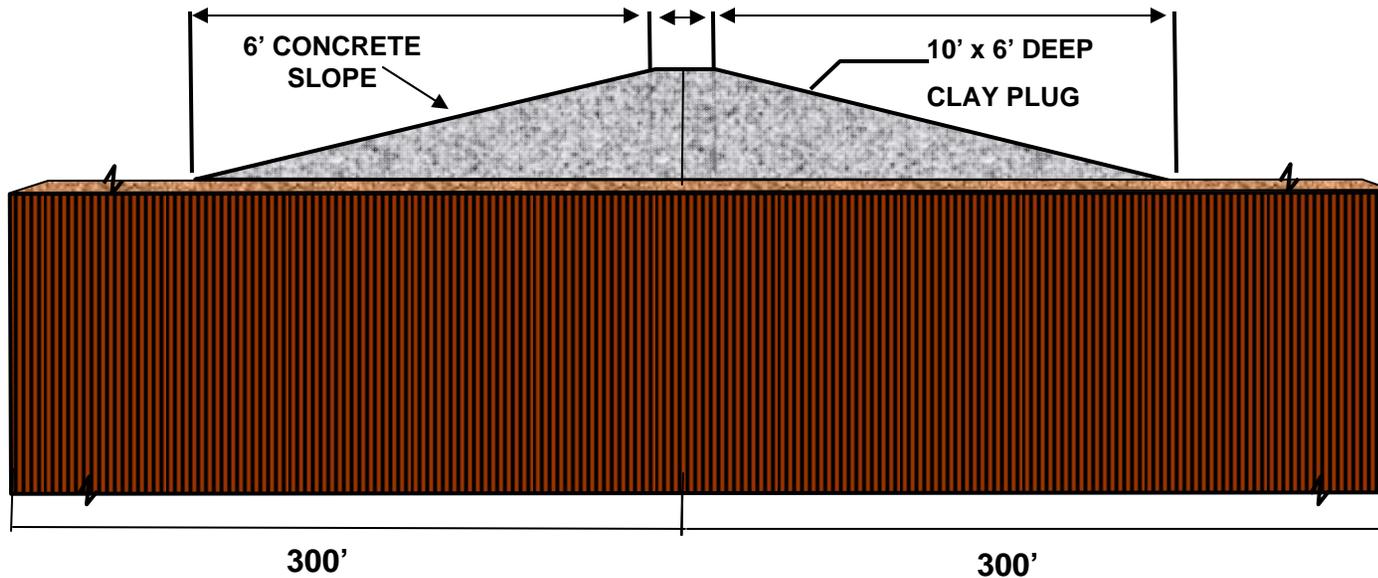


Printing Date: June 2, 2008
File: M:\YGIS\Projects\Louisiana\Levee Reach Files\IER Files\IER11_IHNC_Lake_Borgne\IER 11 Project Disposal Areas.mxd



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IER #11 Tier 2 Borgne Alternatives Geotextile levee



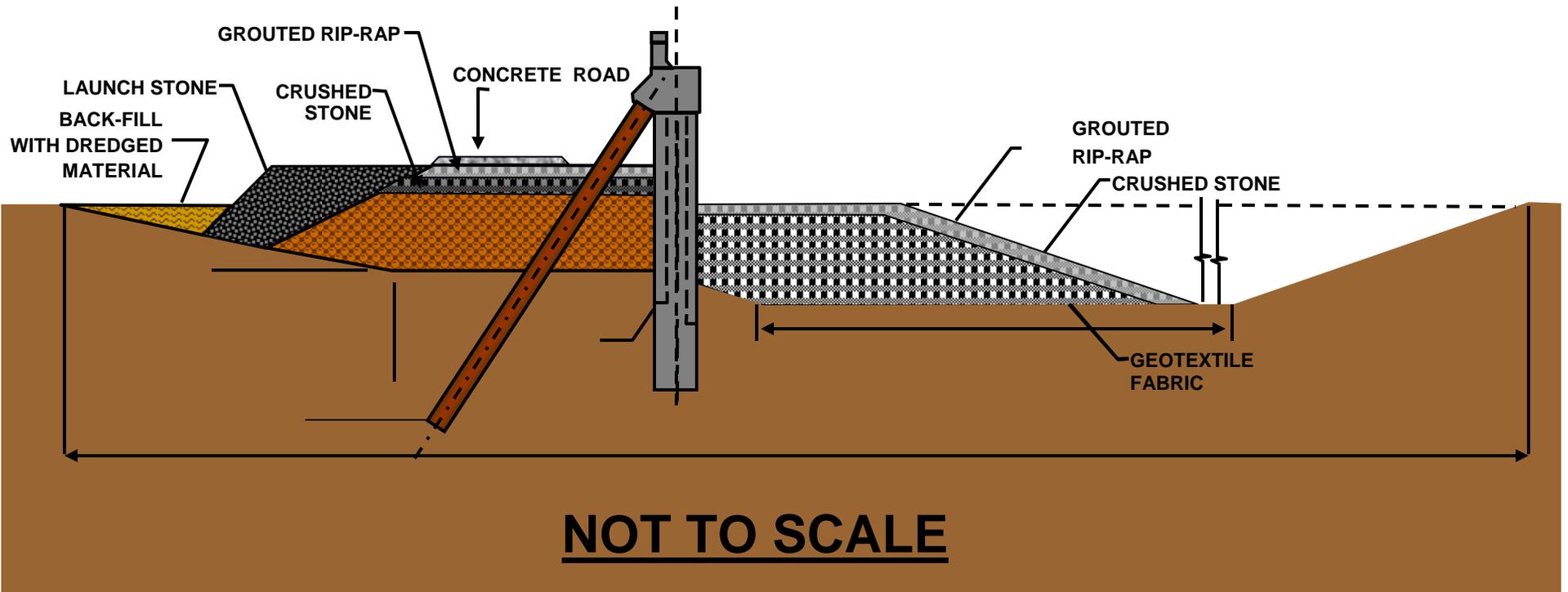
NOT TO SCALE



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IER #11 Tier 2 Borgne Alternatives

Structural Wall Across Marsh





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Vertical Lift Gate



16

One Team: Relevant, Ready, Responsive, Reliable



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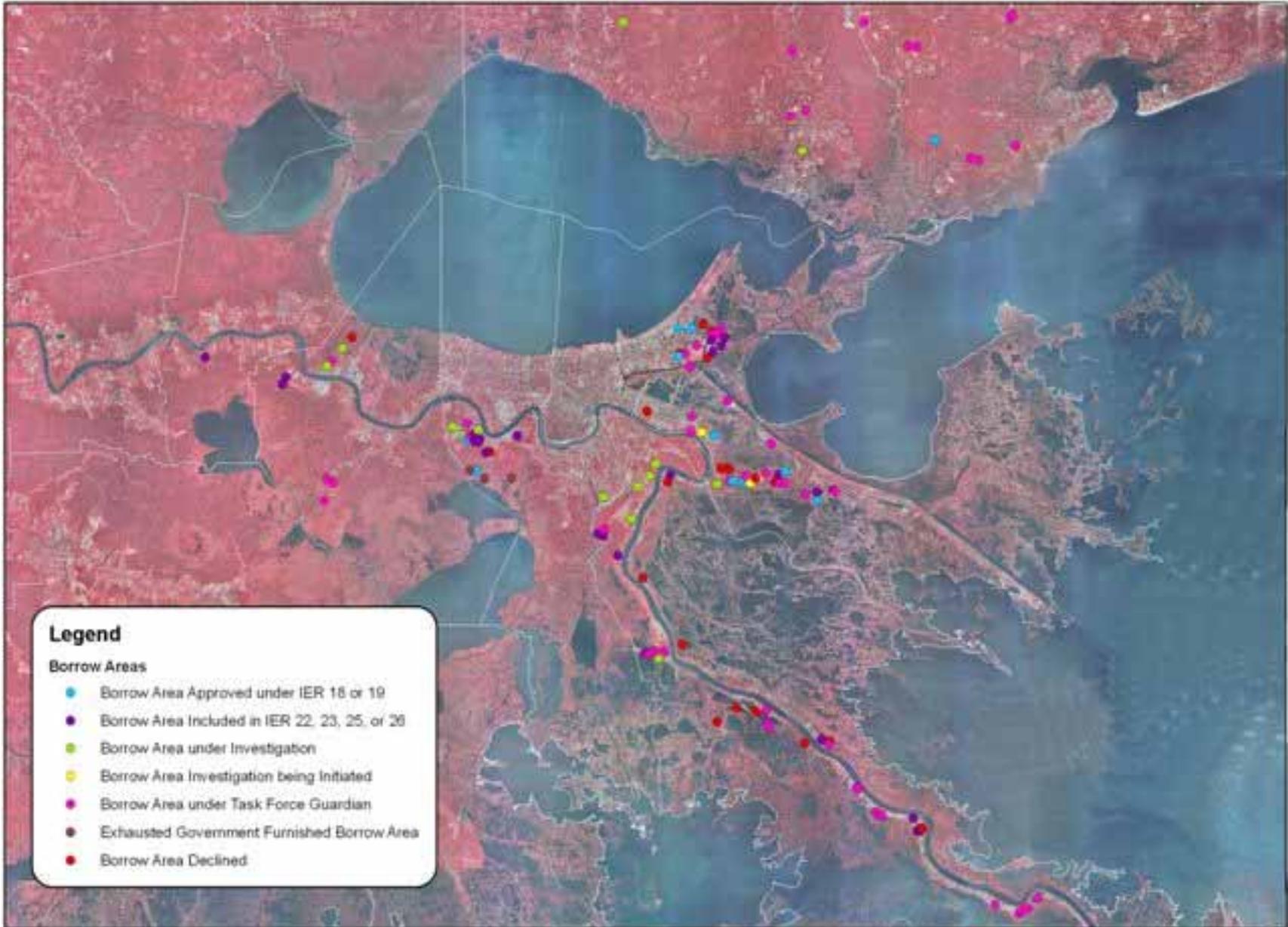
Bayou Bienvenue Flood Control Structure





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Investigated Borrow-Site – System Wide





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Opportunities for Public Input

- Monthly Public Meetings throughout New Orleans Metro 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 Protection Projects should be addressed to:

Gib Owen
PM-RS
P.O. Box 60267
New Orleans, LA 70160-0267
Telephone: 504-862-1337

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



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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 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. [Learn more...](#)

FEATURED PROJECT



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

Announcements

- The Decision Record for **IER 22** has been signed by the District Commander
- The Decision Record for **IER 23** has been signed by the District Commander ([News Release](#))
- **IER 1 Draft** Public Comment Period 4/29 - 5/29
- **IER 15 Draft** Public Comment Period 4/28 - 5/28
- The Decision Record for **IER 11** has been signed by the District Commander ([News Release](#))
- The Decision Records for **IER 18** and **IER 19** have been signed by the District Commander

Upcoming

- [06/04/2008 - Public Meeting \(IERs 6 7 11 Tier 2\)](#)
- [06/17/2008 - Public Meeting \(IERs 1 2 3\)](#)

[More...](#)

Newly Available

- [News Release 3 June 08 Public Meeting IERs 6 7 11 Tier 2](#)
- [News Release 2 June 08 Public Meetings June July August 2008](#)

[More...](#)



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Back-up Slides



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Neighborhood Borrow Maps: Cummings / Franklin Ave Baptist Church



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Neighborhood Borrow Maps: Eastover



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Neighborhood Borrow Maps: Maynard



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Neighborhood Borrow Maps: Stumpf



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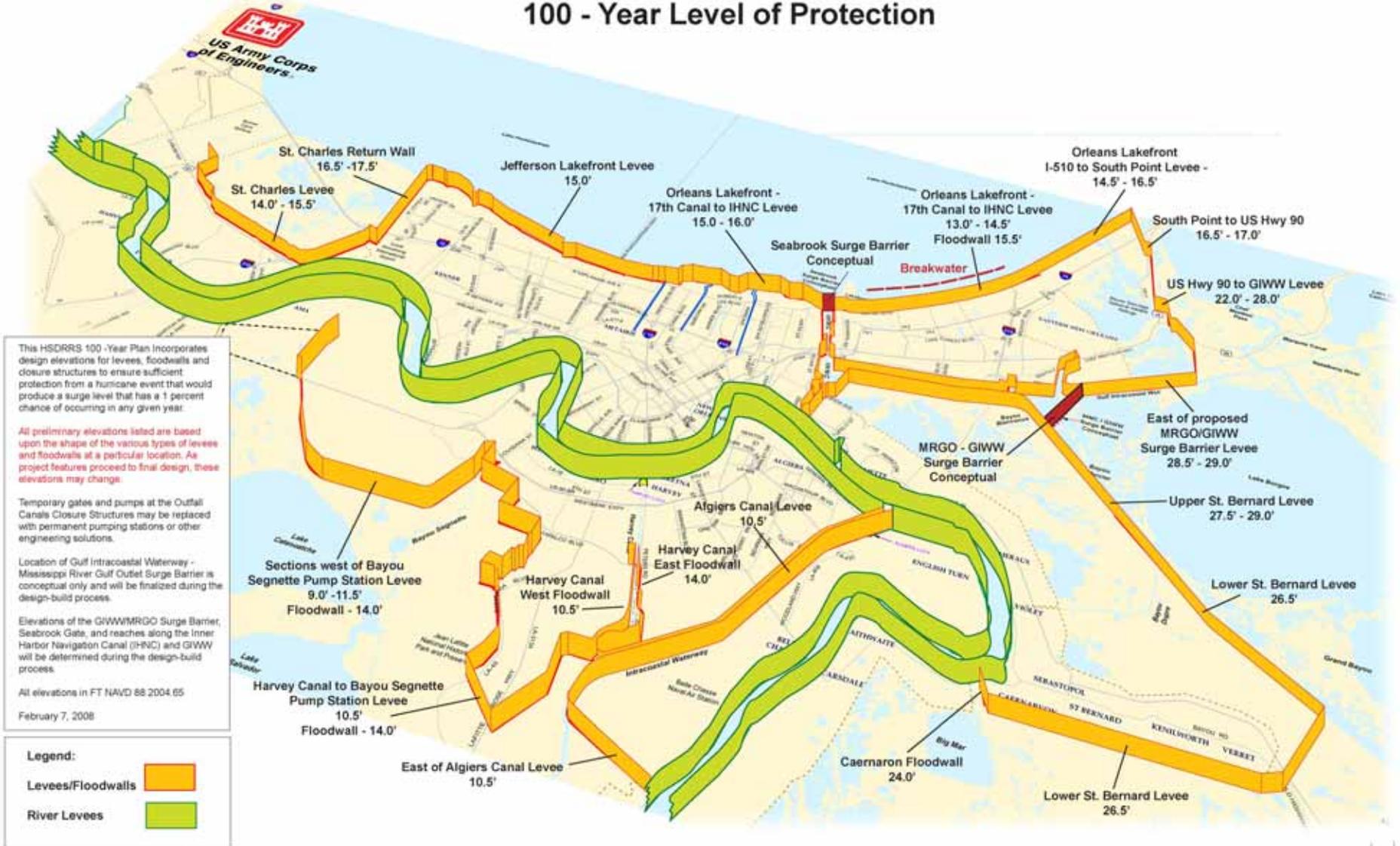


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Outreach

- Nearly 70 meetings since Mar. 2007
- Printed mailer goes to over 6,000 households
- Regular advertisements in Gambit Weekly, Times-Picayune and Nola.com
- Ads in local papers such as Plaquemines Gazette, L'Observateur and St. Bernard News (depending on meeting locations)
- Morning television show appearances
- E-mails/mailed notices to elected officials
- E-mails/mailed notices to neighborhood associations and groups
- Flyers at nearby grocery stores or churches
- Road signs

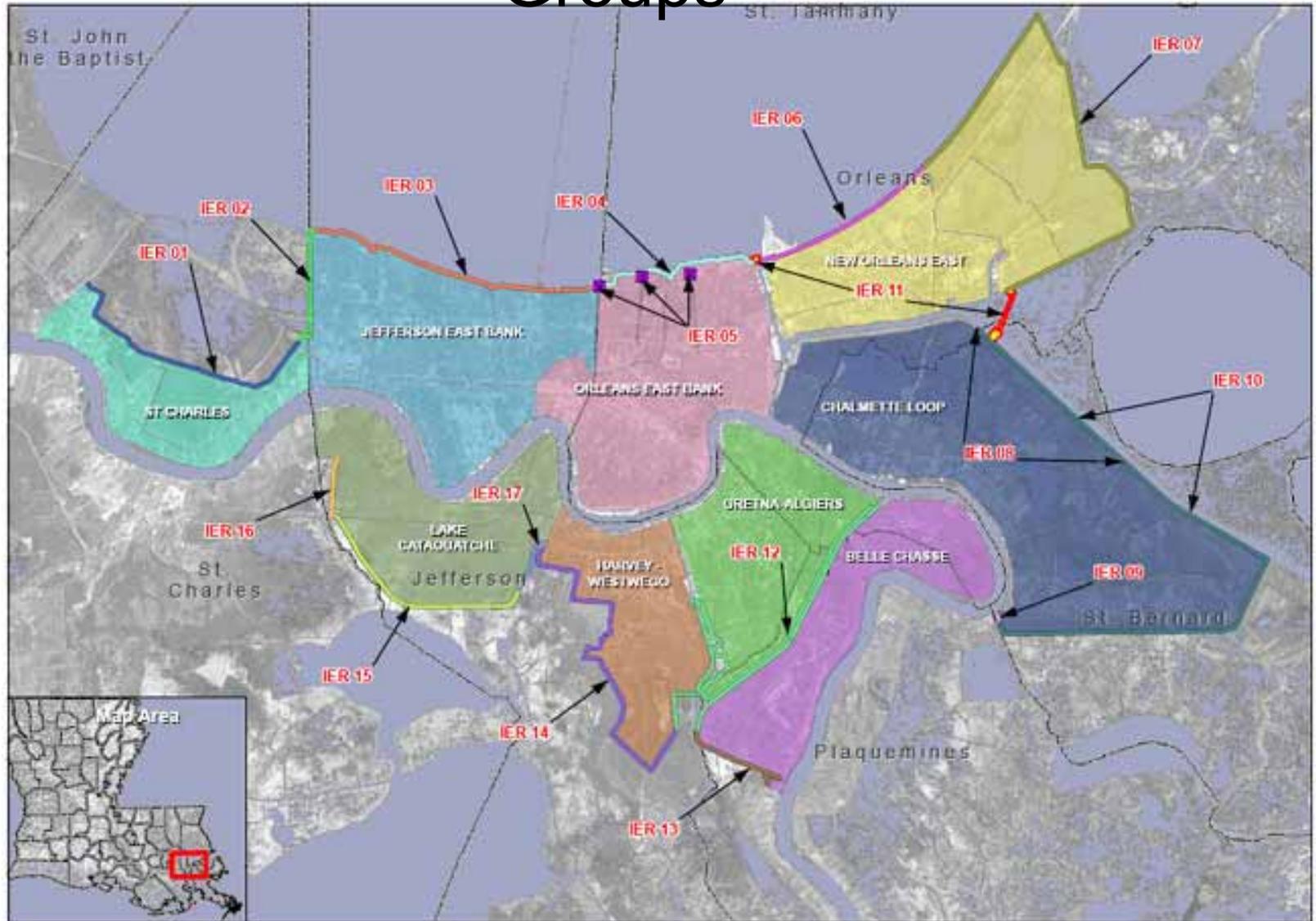
Greater New Orleans Hurricane and Storm Damage Risk Reduction System 100 - Year Level of Protection



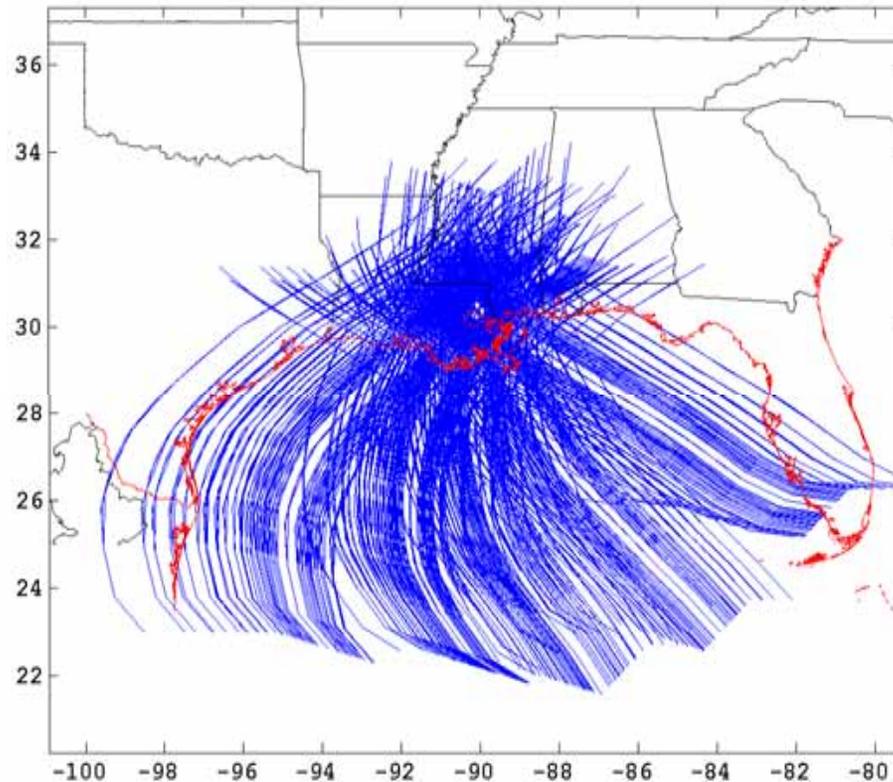


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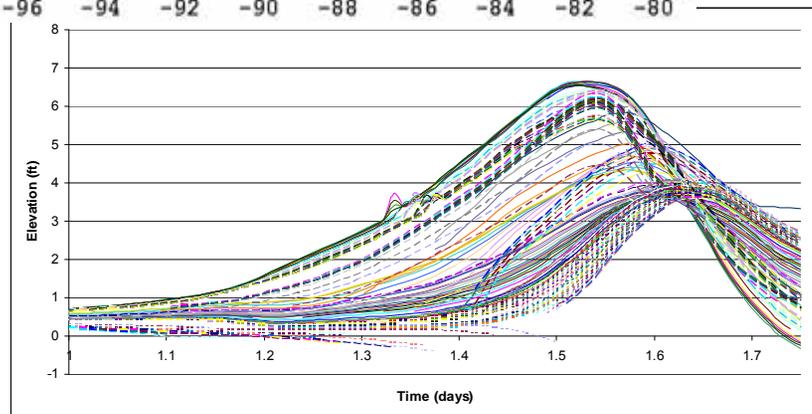
Sub Basins and Representative Project Groups



Hurricane Paths Considered in the Risk Analysis



- 3 HPS Geometries
 - Pre-Katrina
 - Current (1 June 07)
 - 100-year LOP (~2011)
- 152 storm hydrographs
- 350+ features
 - Floodwalls
 - Levees
 - Pumps Stations



→ **62,928 Hurricane**
→ **Hydrographs**



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IHNC Surge Protection

cost \$500 Million to \$1 Billion

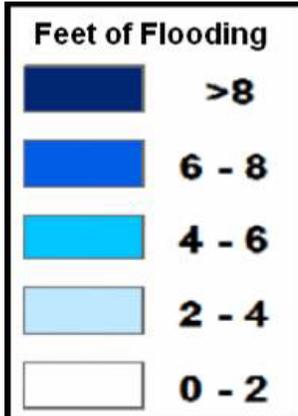


One Team: Relevant, Ready, Responsive, Reliable

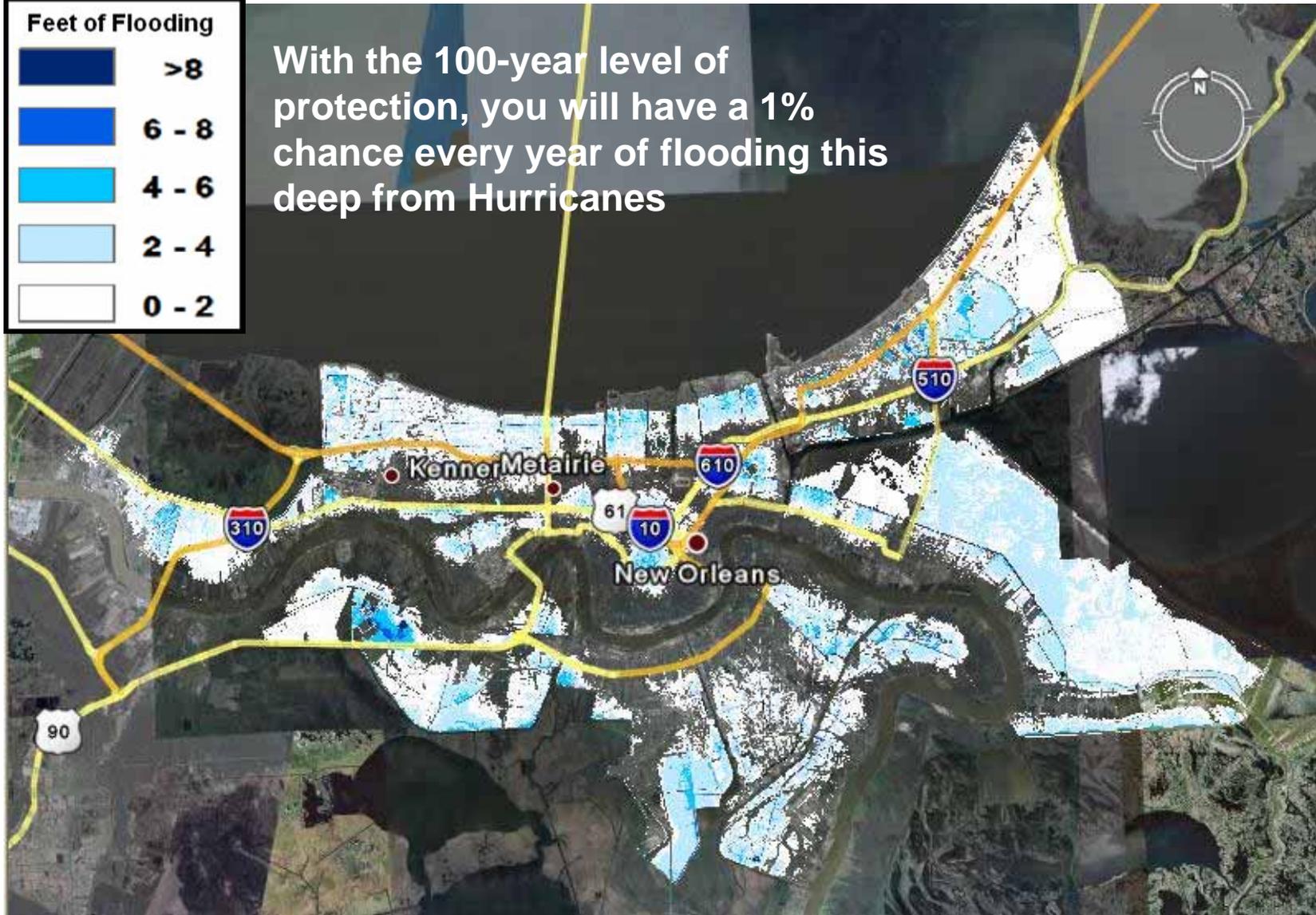


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100-year Protection Flood Risk



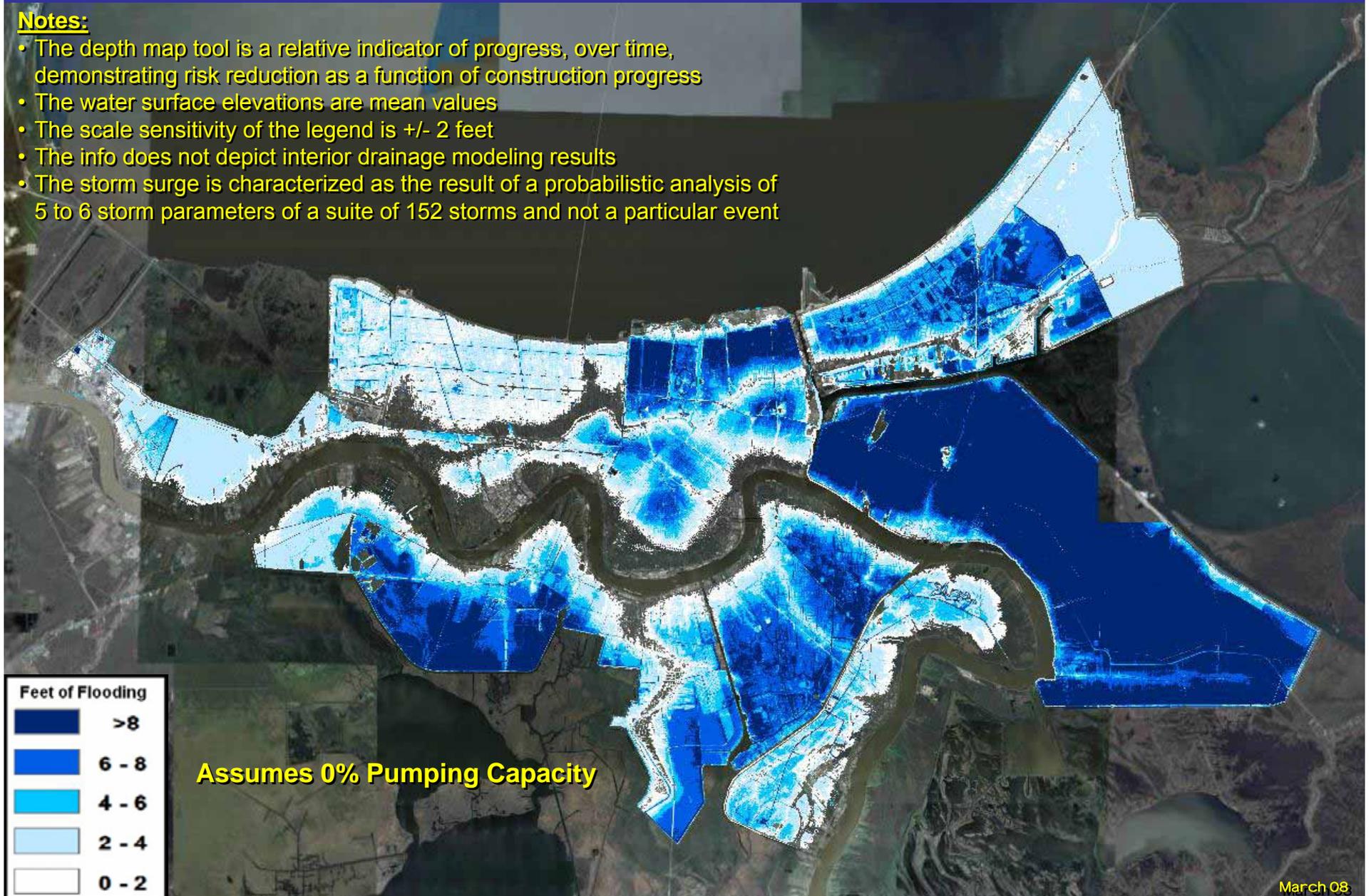
With the 100-year level of protection, you will have a 1% chance every year of flooding this deep from Hurricanes



Before Katrina, you had a 1% chance every year of flooding this deep from Hurricanes

Notes:

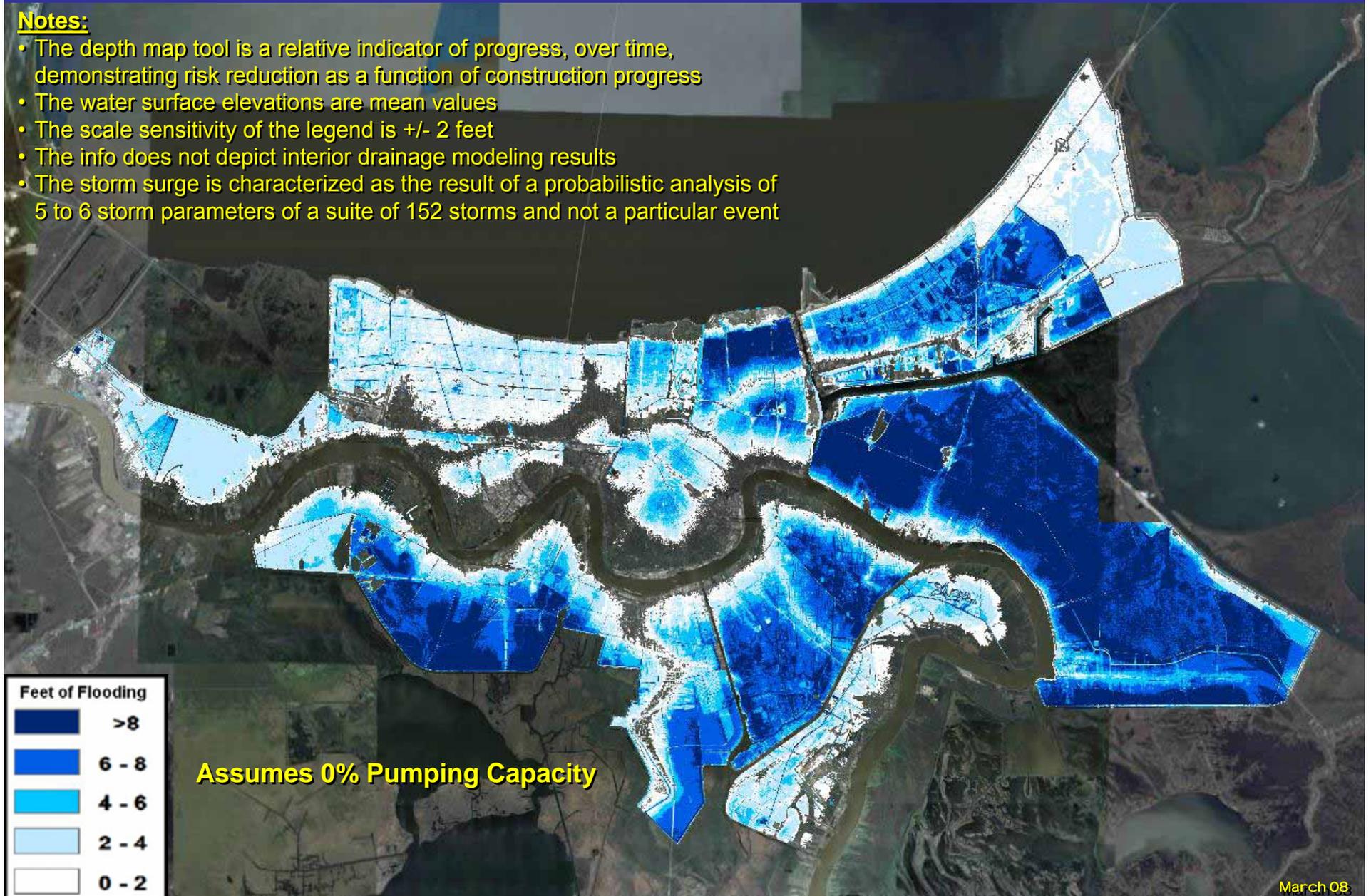
- The depth map tool is a relative indicator of progress, over time, demonstrating risk reduction as a function of construction progress
- The water surface elevations are mean values
- The scale sensitivity of the legend is +/- 2 feet
- The info does not depict interior drainage modeling results
- The storm surge is characterized as the result of a probabilistic analysis of 5 to 6 storm parameters of a suite of 152 storms and not a particular event



On June 1, 2007, you had a 1% chance every year of flooding this deep from Hurricanes

Notes:

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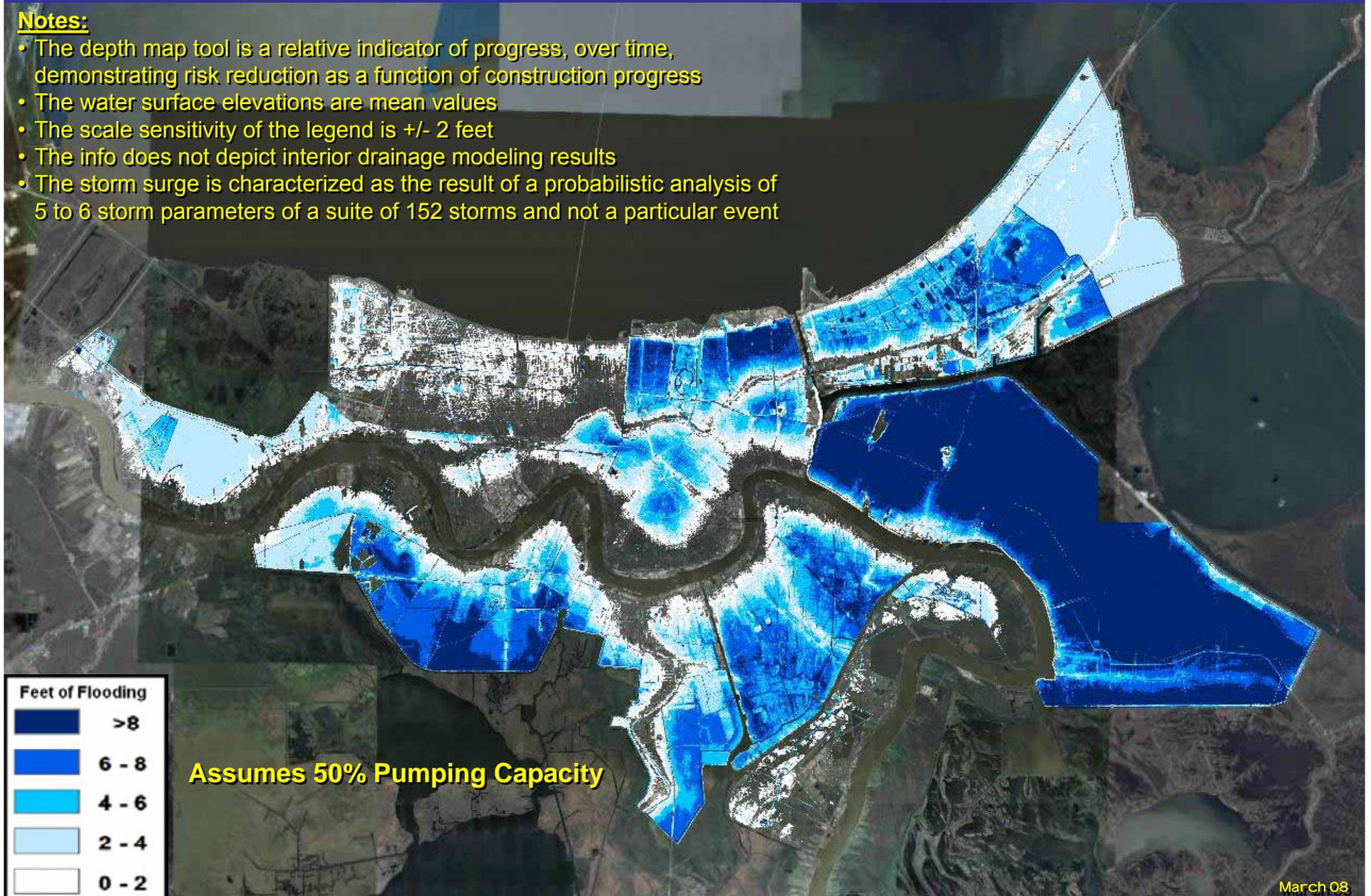
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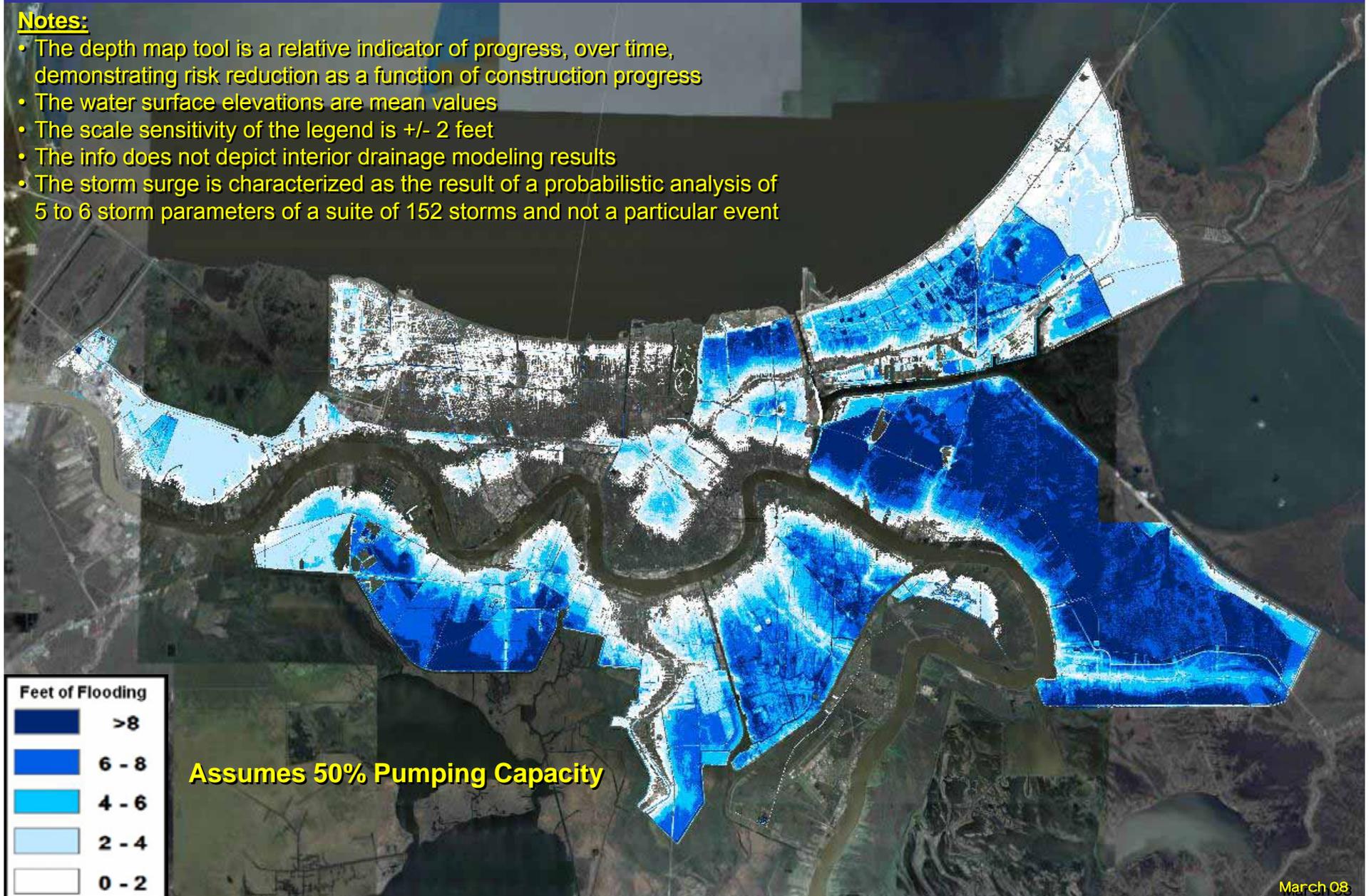
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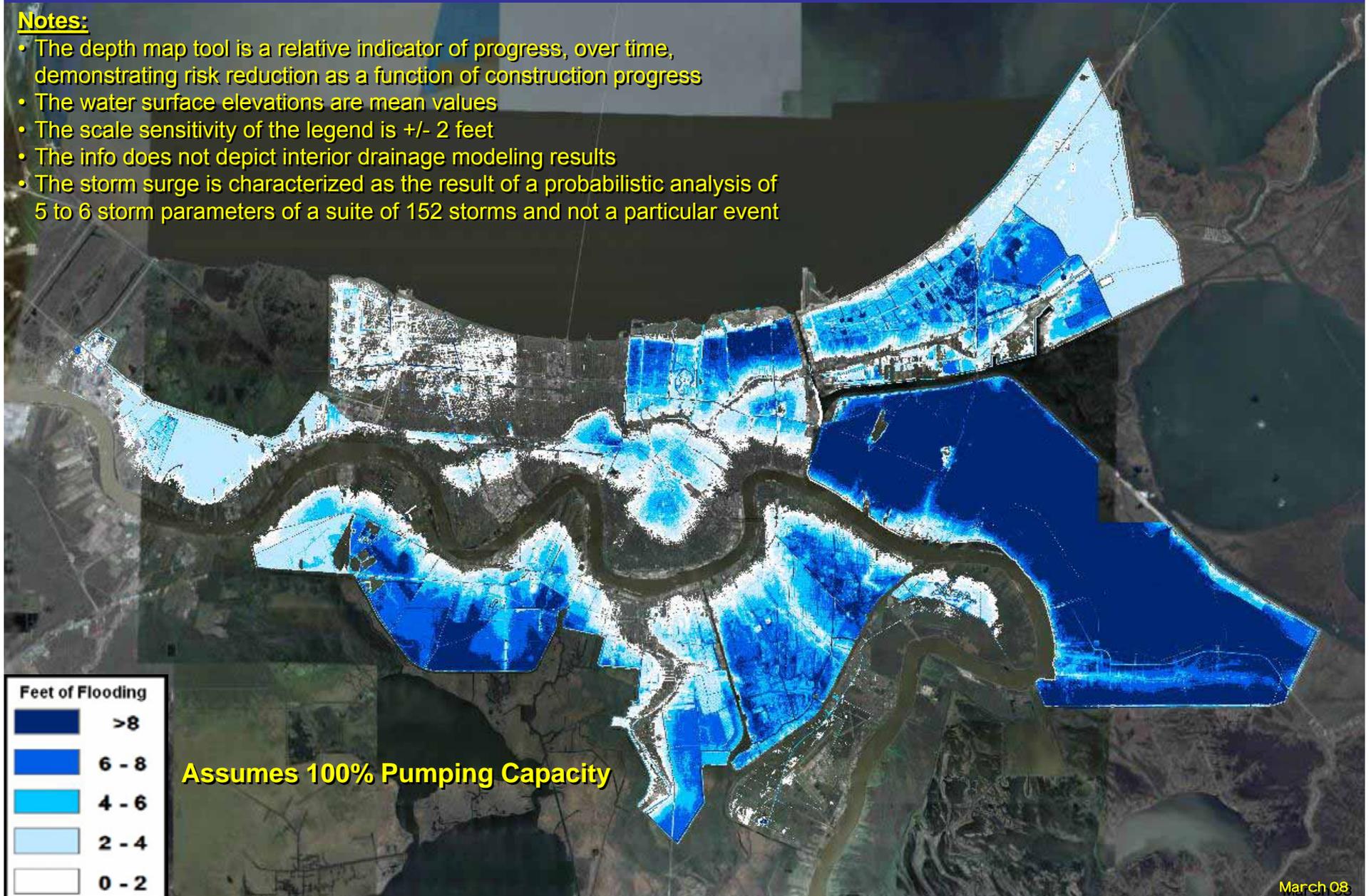
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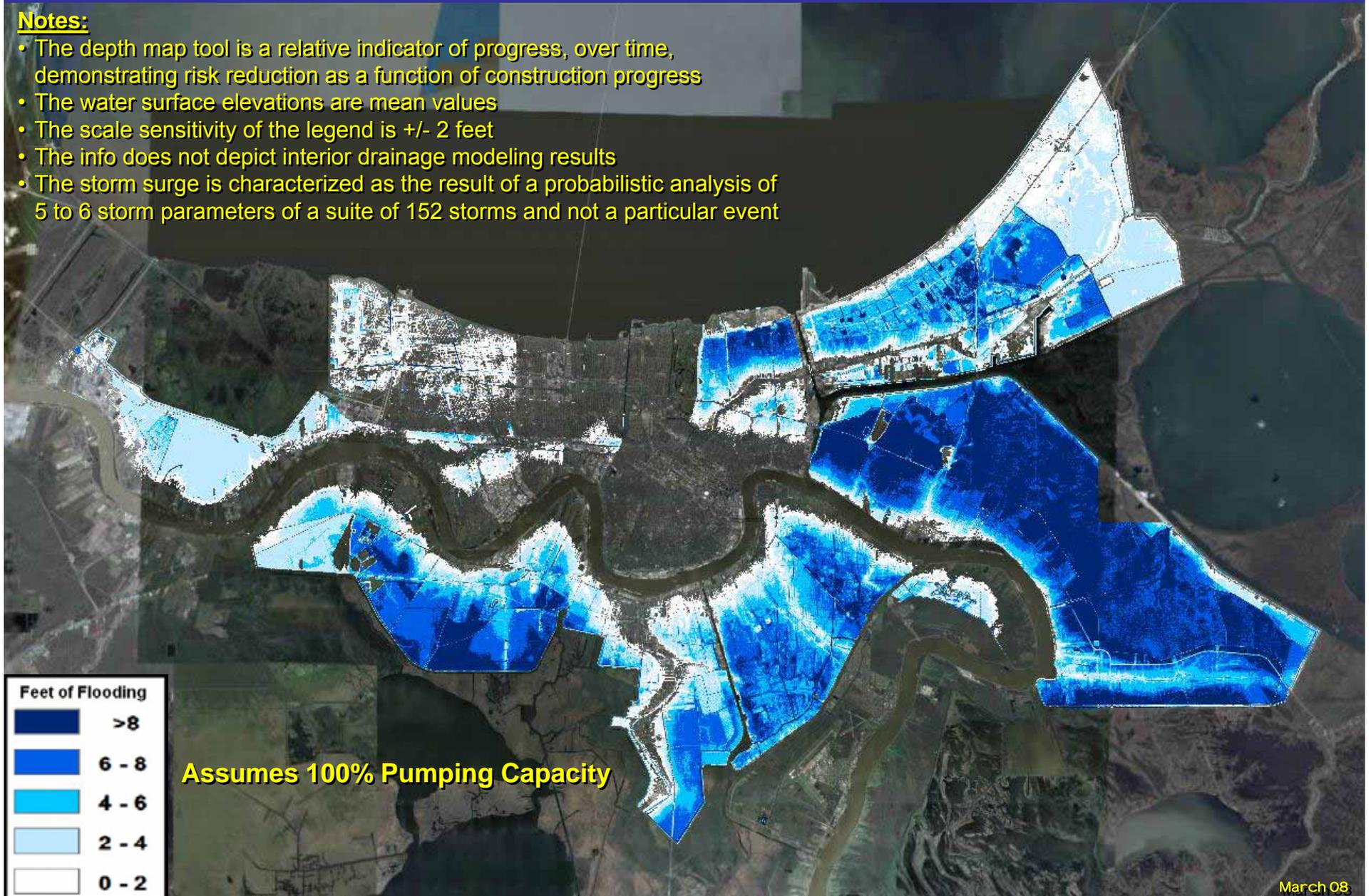
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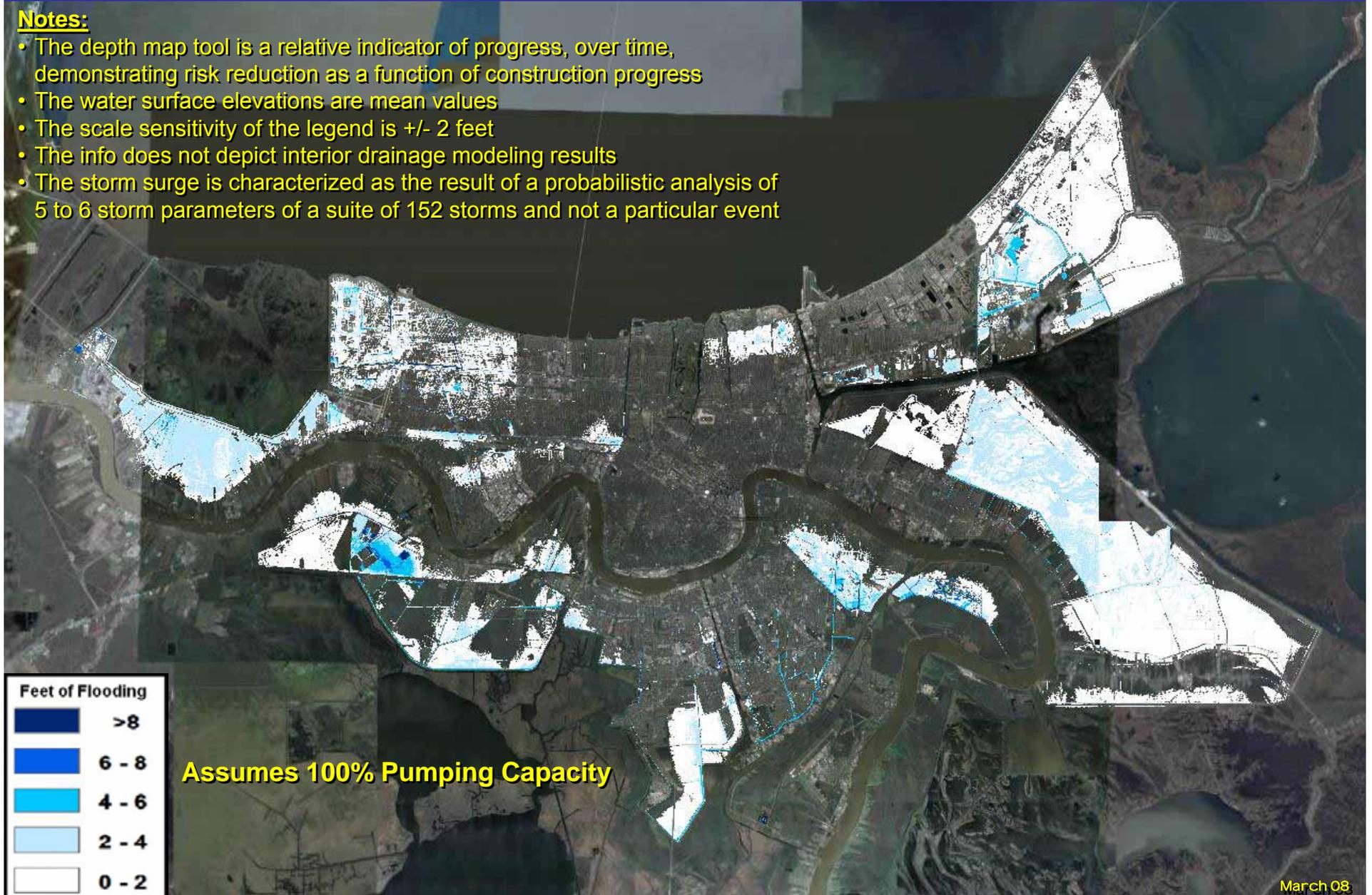
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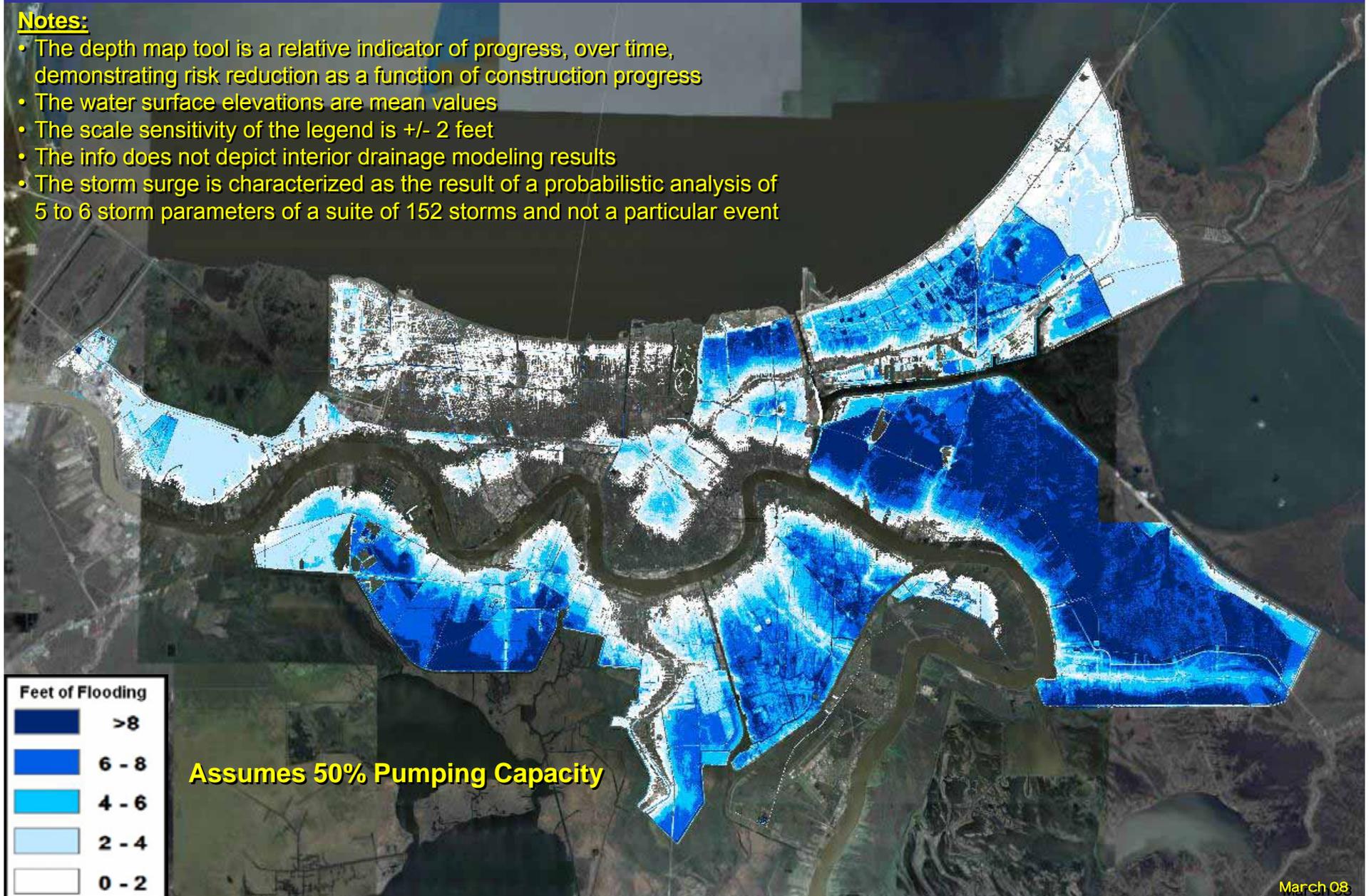
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