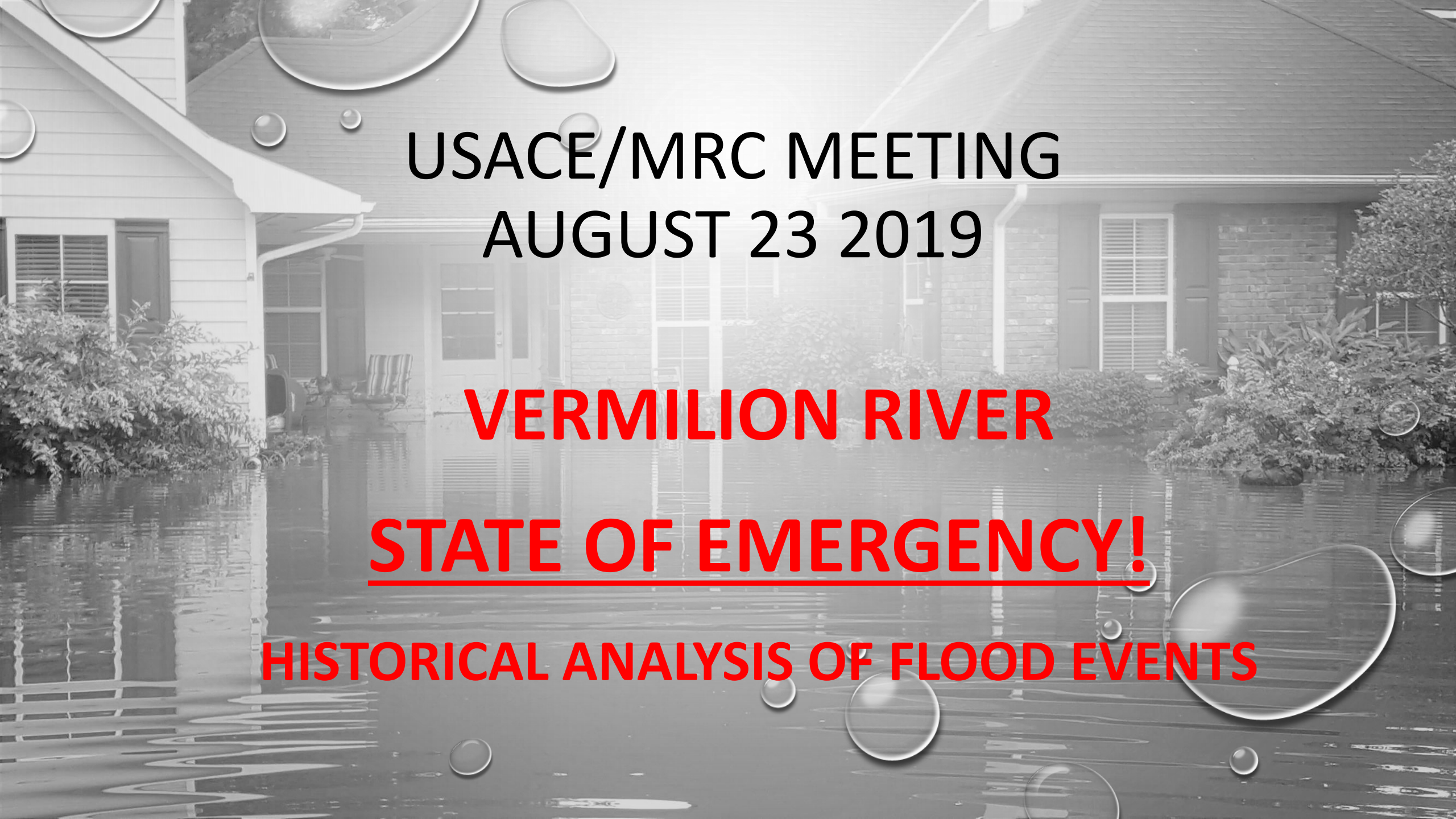


USACE/MRC MEETING
AUGUST 23 2019

VERMILION RIVER

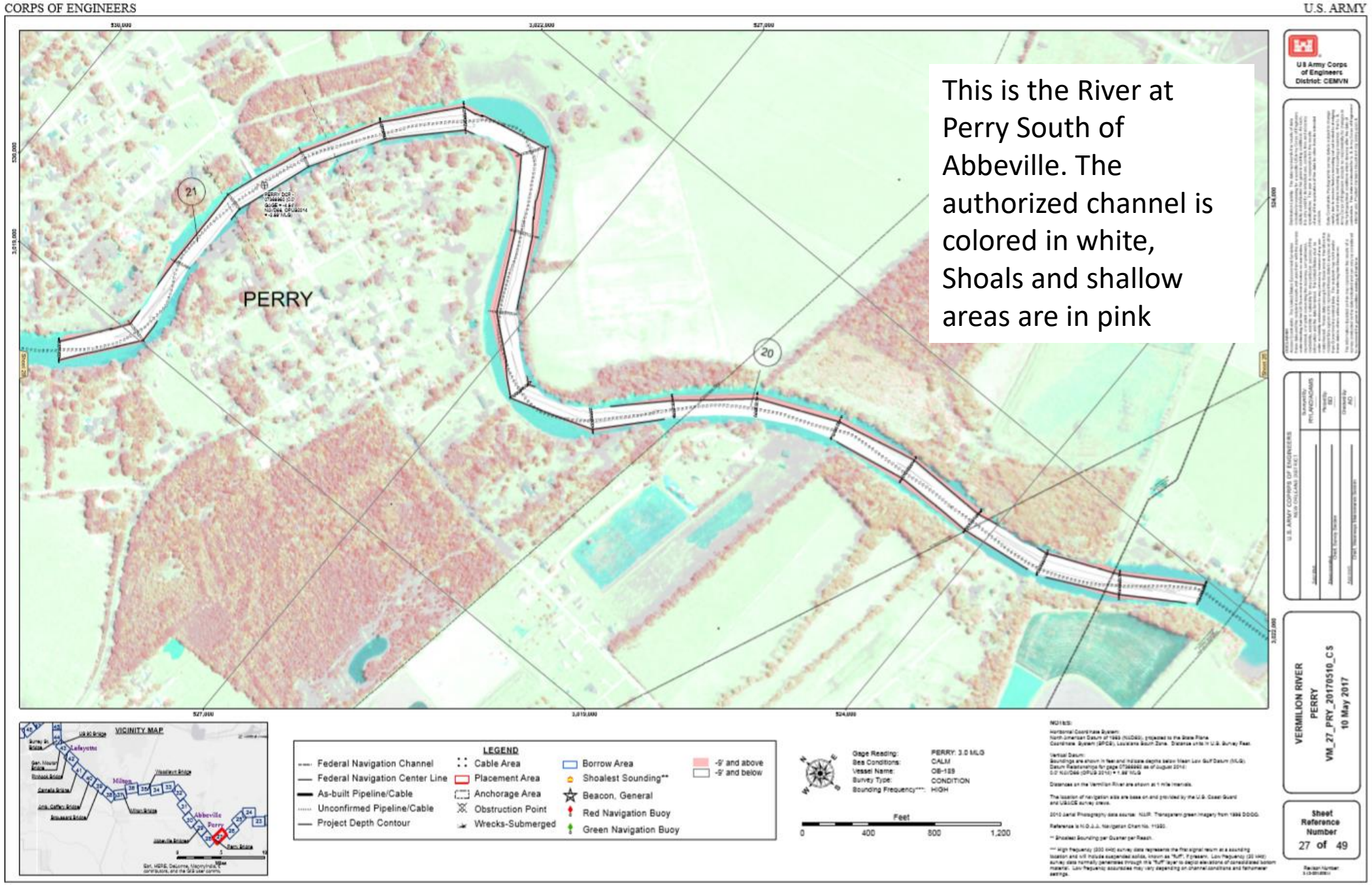
STATE OF EMERGENCY!

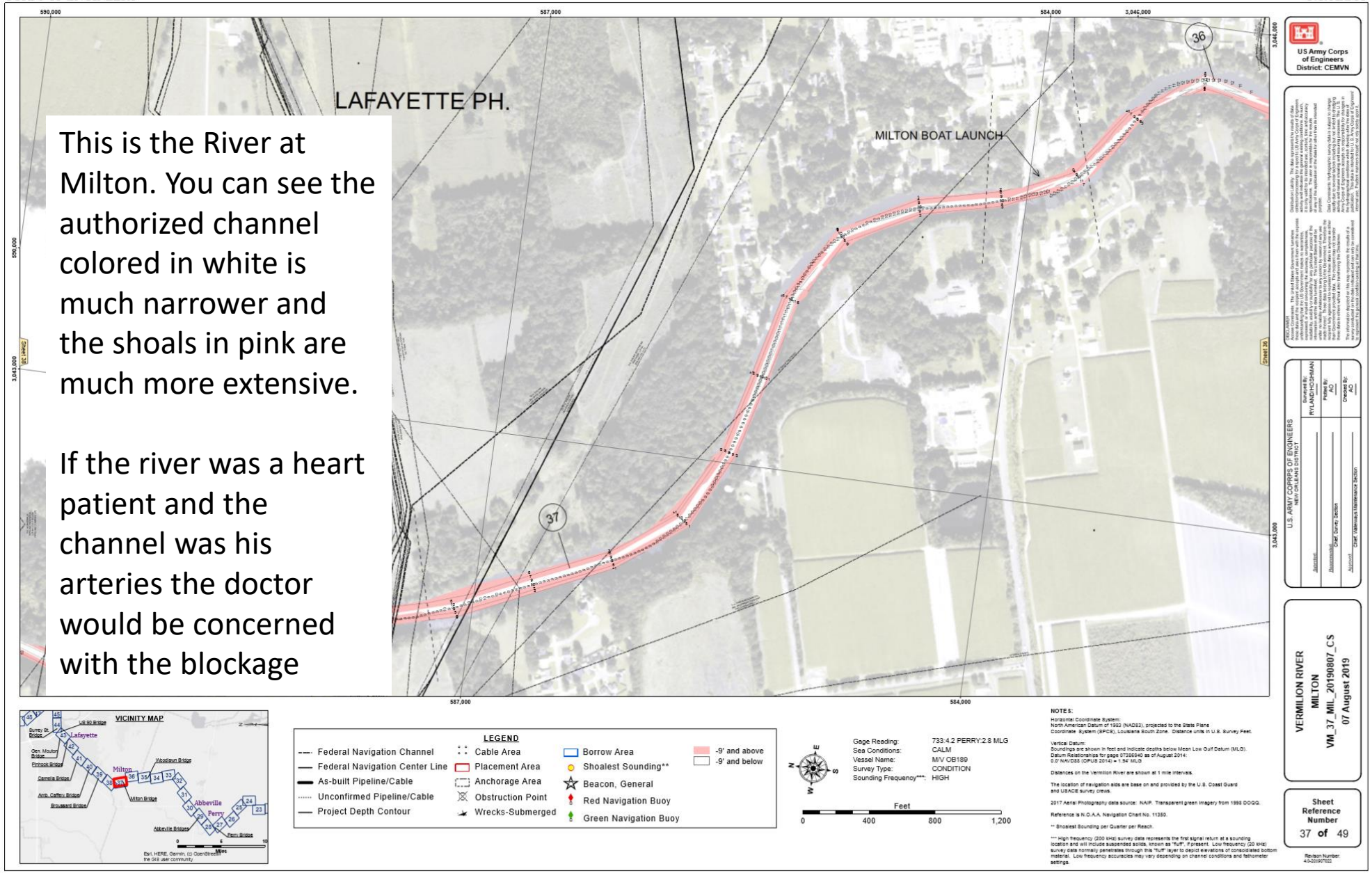
HISTORICAL ANALYSIS OF FLOOD EVENTS

Recap of the Flood of August 2016

Acadiana + Regional Impacts

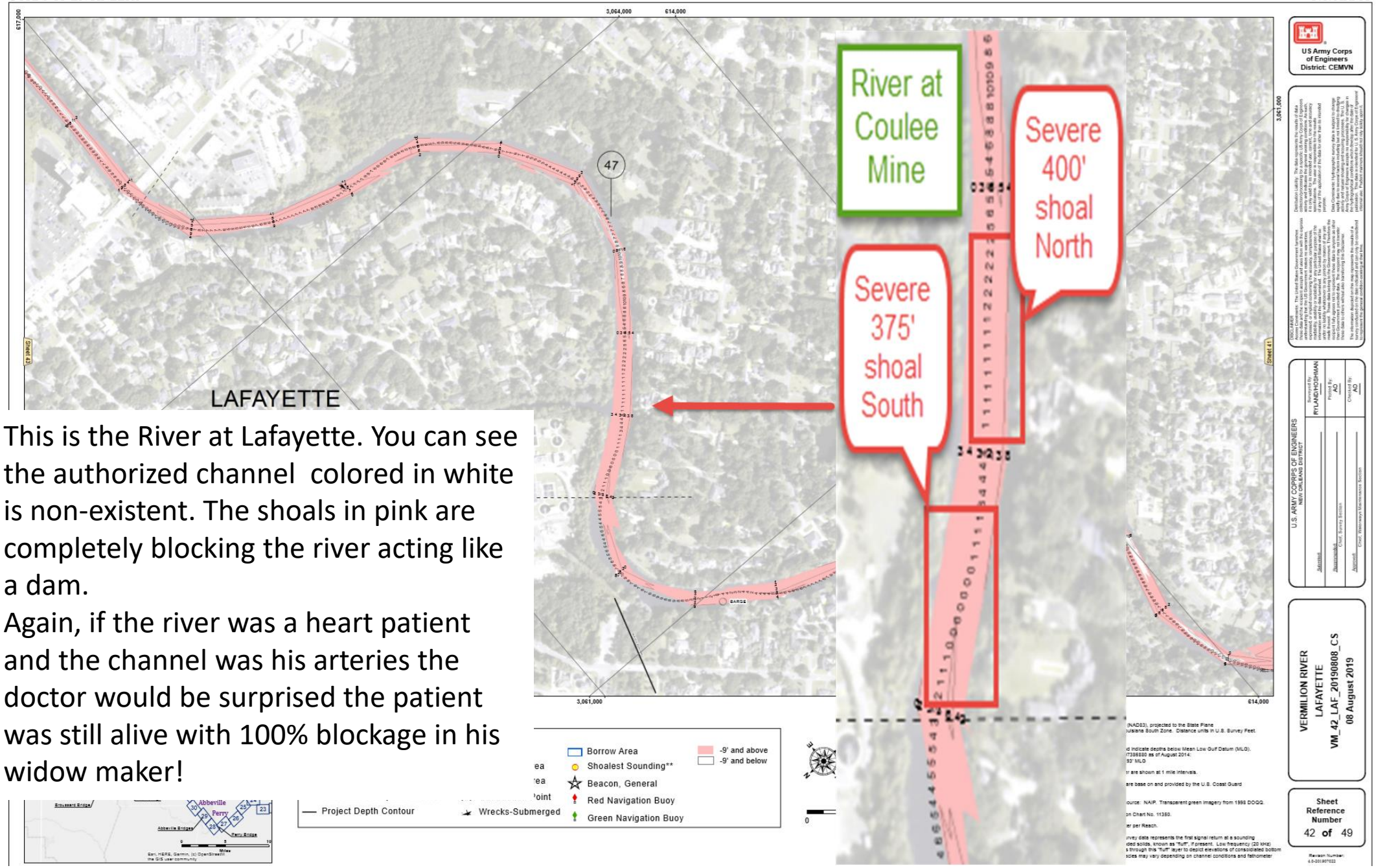
- Watershed had approximately 10,375+ Homes Flooded
- Louisiana had 84,900+ Homes Flooded
- Numerous Businesses either Flooded or Adversely Impacted
- Louisiana FEMA Flood Insurance, Grants, and Loans Payouts = $4.259 Billion
- Has lead to revised Flood Maps that will increase Flood Insurance Rates


CORPS OF ENGINEERS
U.S. ARMY
PERRY
21
20
This is the River at Perry South of Abbeville. The authorized channel is colored in white, Shoals and shallow areas are in pink
VICINITY MAP
Lafayette
Milton
Abbeville
Perry
LEGEND
Federal Navigation Channel
Federal Navigation Center Line
As-built Pipeline/Cable
Unconfirmed Pipeline/Cable
Project Depth Contour
Cable Area
Placement Area
Anchorage Area
Obstruction Point
Wrecks-Submerged
Borrow Area
Shoalest Sounding**
Beacon, General
Red Navigation Buoy
Green Navigation Buoy
-9' and above
-9' and below
Gage Reading: PERRY: 3.0 MLG
Sea Conditions: CALM
Vessel Name: OB-129
Survey Type: CONDITION
Sounding Frequency***: HIGH
Feet
0
400
800
1,200
US Army Corps of Engineers District: CEMVN
VERMILION RIVER
PERRY
VM_27_PRY_20170510_CS
10 May 2017
Sheet Reference Number
27 of 49



This is the River at Milton. You can see the authorized channel colored in white is much narrower and the shoals in pink are much more extensive.

If the river was a heart patient and the channel was his arteries the doctor would be concerned with the blockage



This is the River at Lafayette. You can see the authorized channel colored in white is non-existent. The shoals in pink are completely blocking the river acting like a dam.

Again, if the river was a heart patient and the channel was his arteries the doctor would be surprised the patient was still alive with 100% blockage in his widow maker!

The Risk

The Vermilion River is one of the main drains for the Teche-Vermilion Watershed

Historical Flood Events

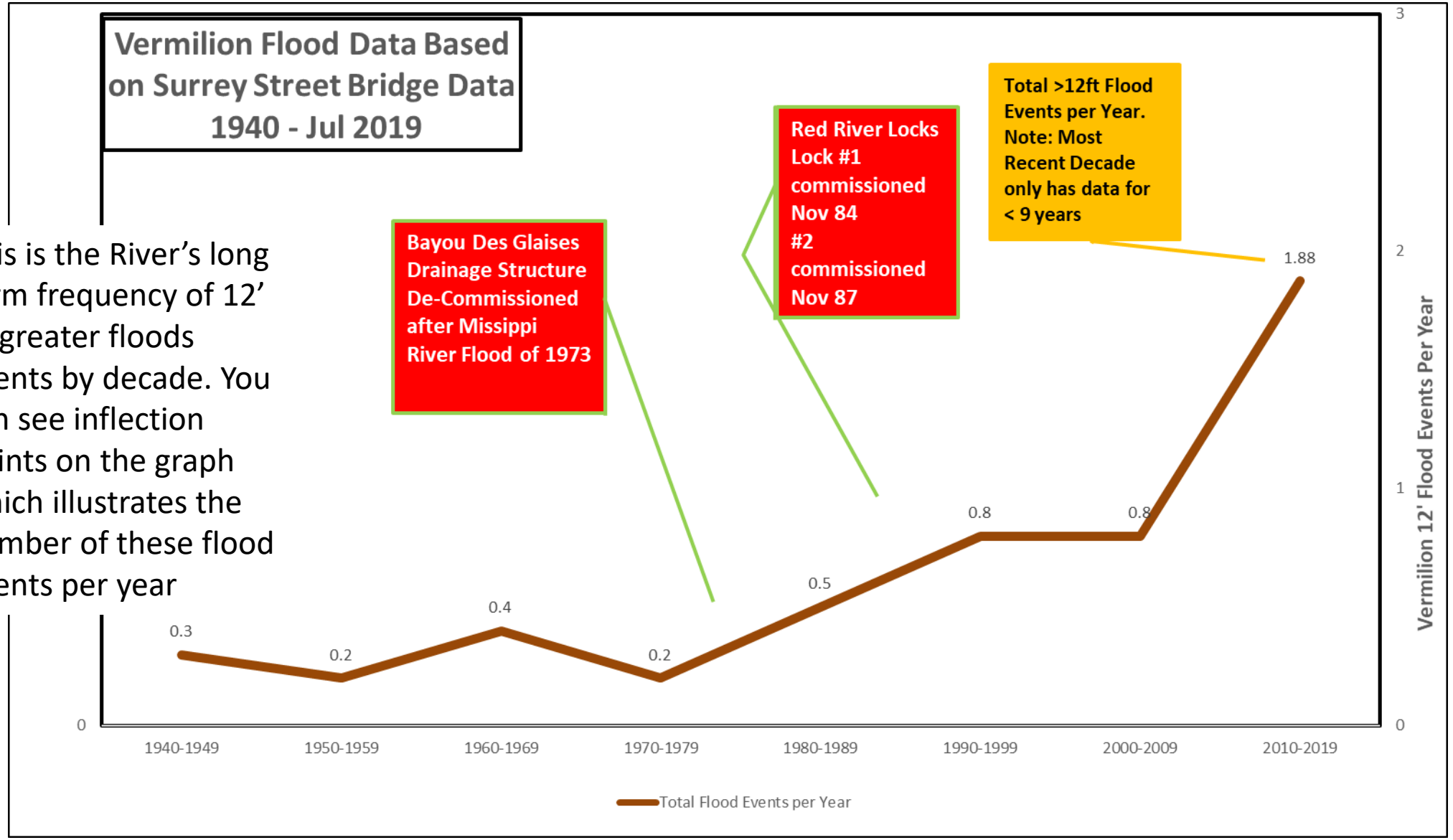
11-12’ Flood Events from 1940-1980

7-12’ Flood Events in the last 24 Months

5-12’ Flood Events since Jan 1 2019!!

Vermilion River Flooding Frequency Data

This is the River's long term frequency of 12' or greater floods events by decade. You can see inflection points on the graph which illustrates the number of these flood events per year

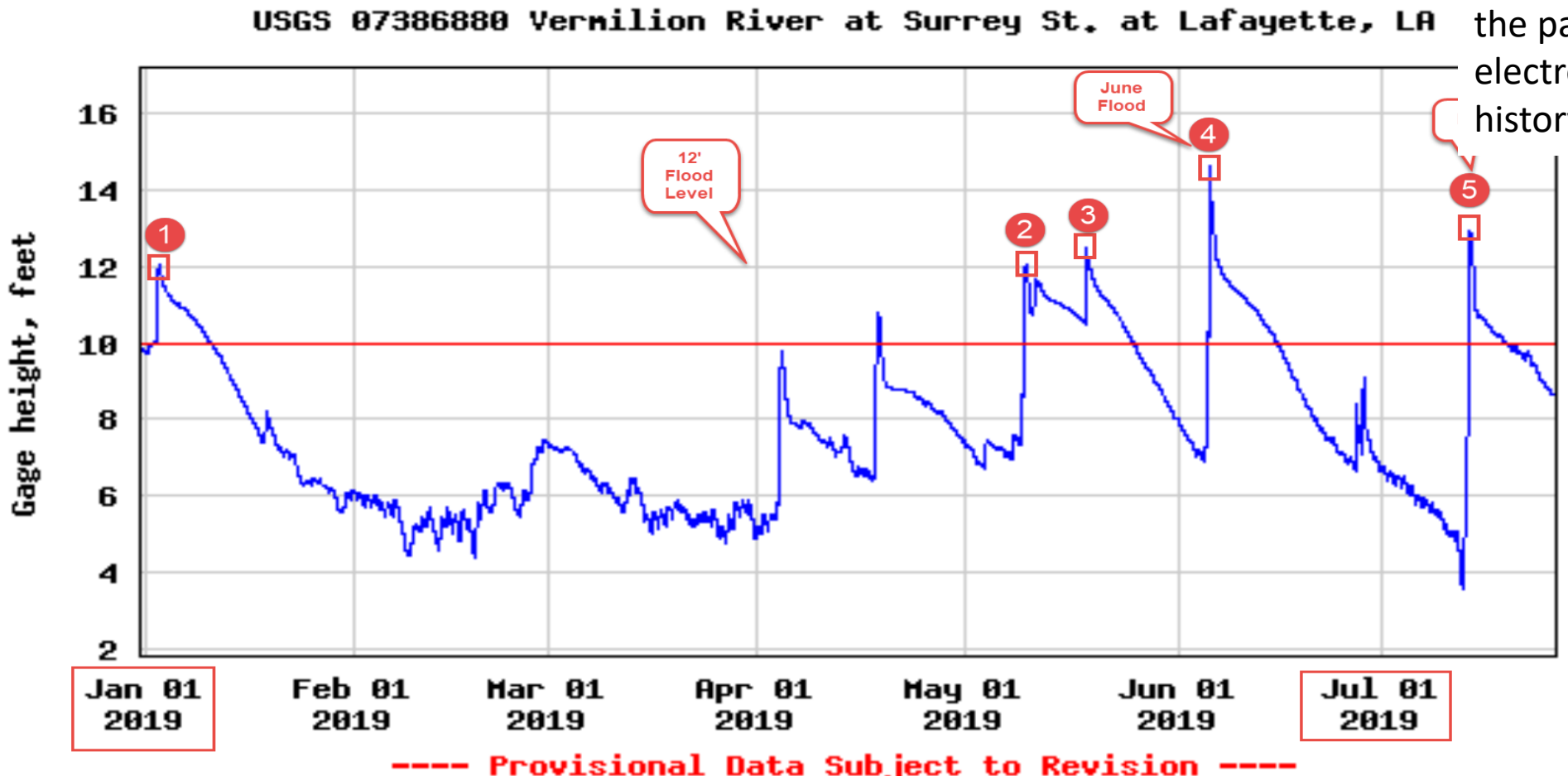


Vermilion River 12’ Floods YTD 2019

This is the River’s frequency of 12’ or greater floods events **since Jan 1 2019**.
Note we only had 11 of these floods between 1940 and 1980
This is equivalent to the patient’s electrocardiogram history of heart attacks

Gage height, feet

Most recent instantaneous value: 8.65 07-26-2019 12:15 CDT



In Closing

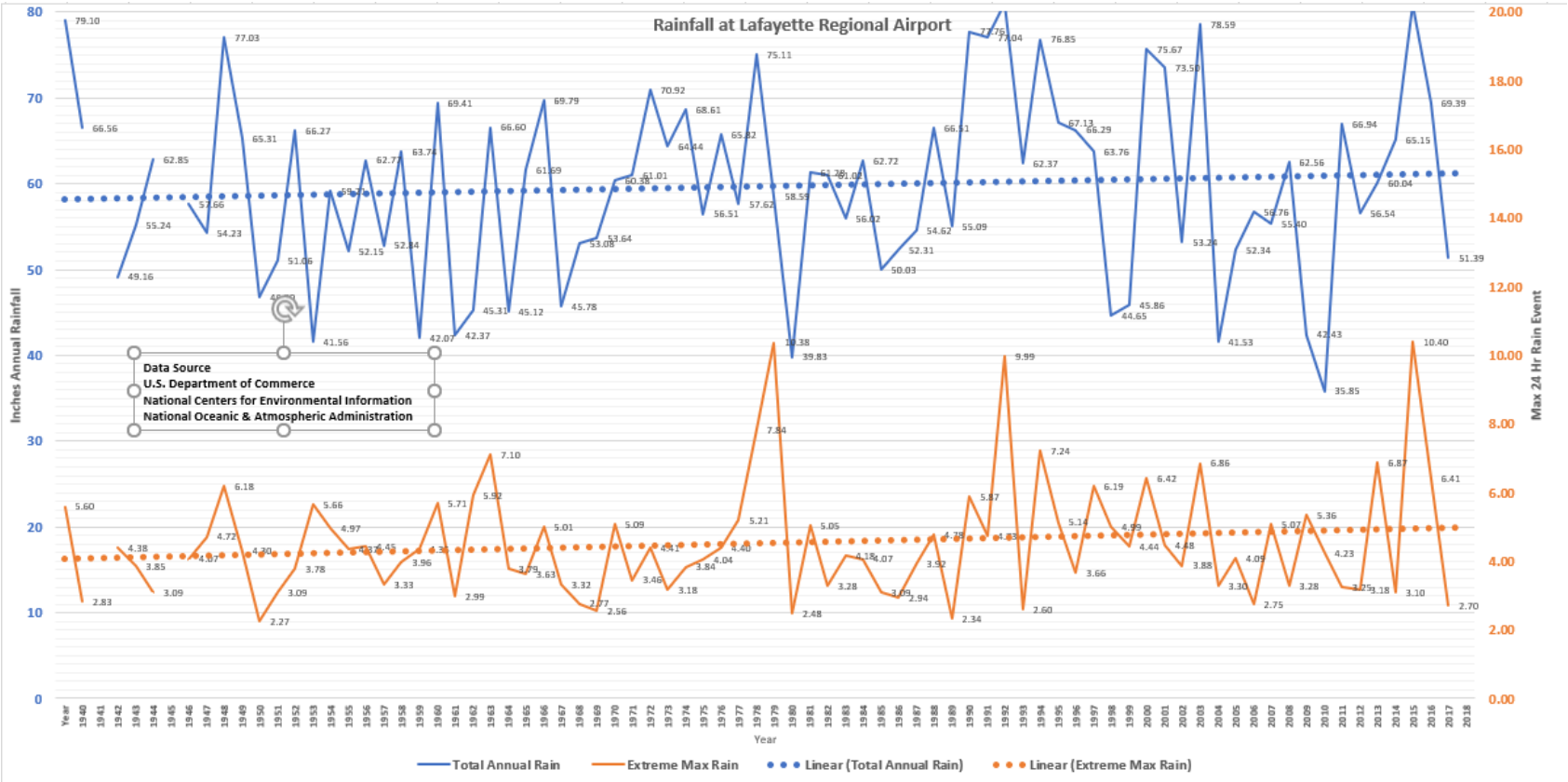
We must have Sense of Urgency to Resolve these Problems

Questions ? and Answers ?

Comments and Suggestions

Thank You for Your Time and Consideration. We urgently need your help and guidance

So is it **Raining** more now?



This is Lafayette's long term rain data recorded at the airport . The blue is annual total and the red is the max rain during any 24 hr period during that year. The dotted lines are the trend.

The answer is yes –but not an extreme amount more.

Vermilion River Hurricane Barry

People ask what happened during Barry. A combination of the pre-emptive action of stopping the pumping , a strong north wind and the timing of the rain event and storm surge helped.

Barry proved that pre-emptive draining of our natural retention (Cypress Island and Courtableau area swamps) worked