

TELFAIR

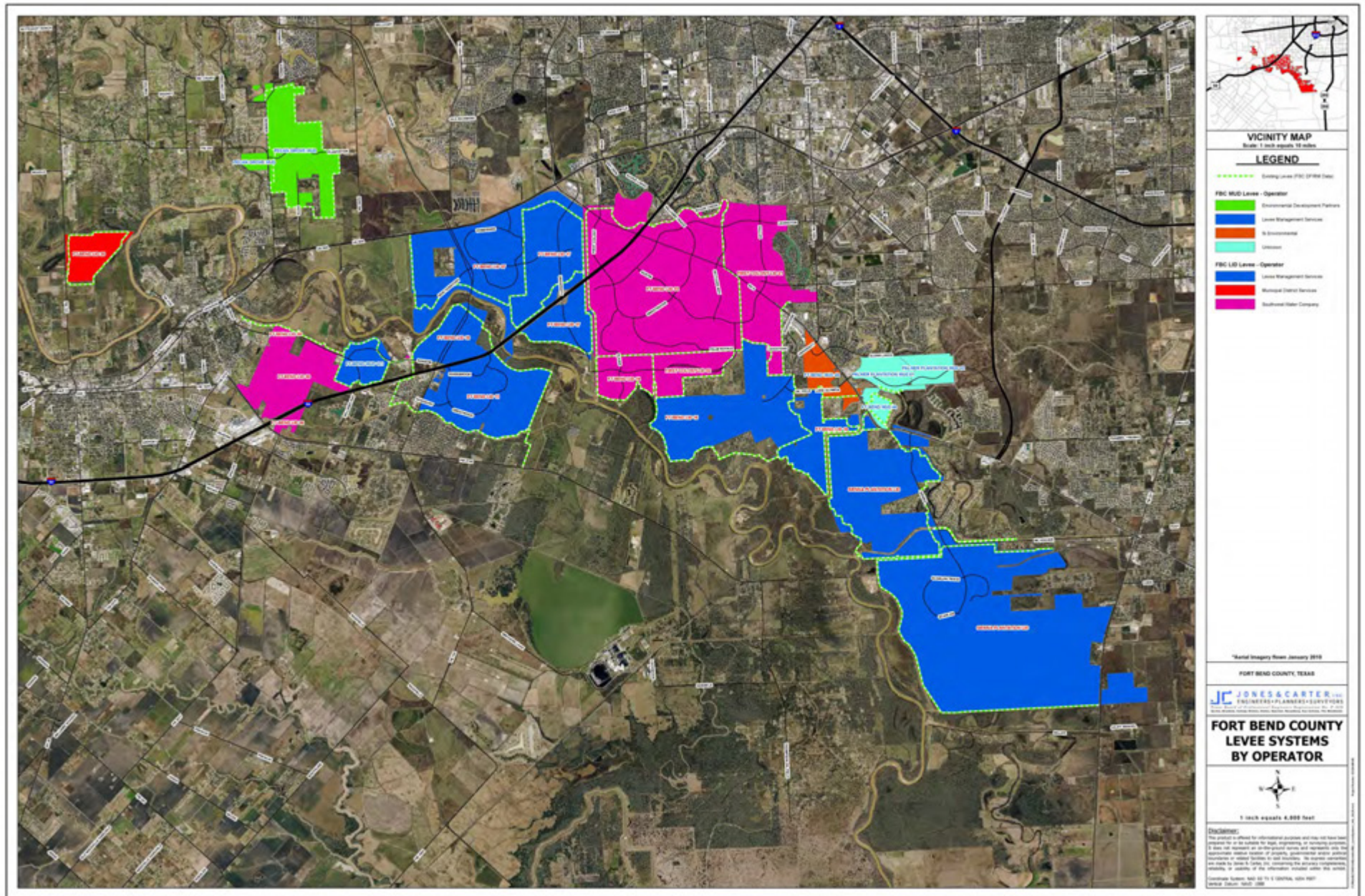
SUGAR LAND, TEXAS

Fort Bend County
Levee Improvement District #17
Hurricane Harvey Open House



Fort Bend County
Levee Improvement District #17
Levee District Basics

Fort Bend County Levee Districts



LID #17 Map

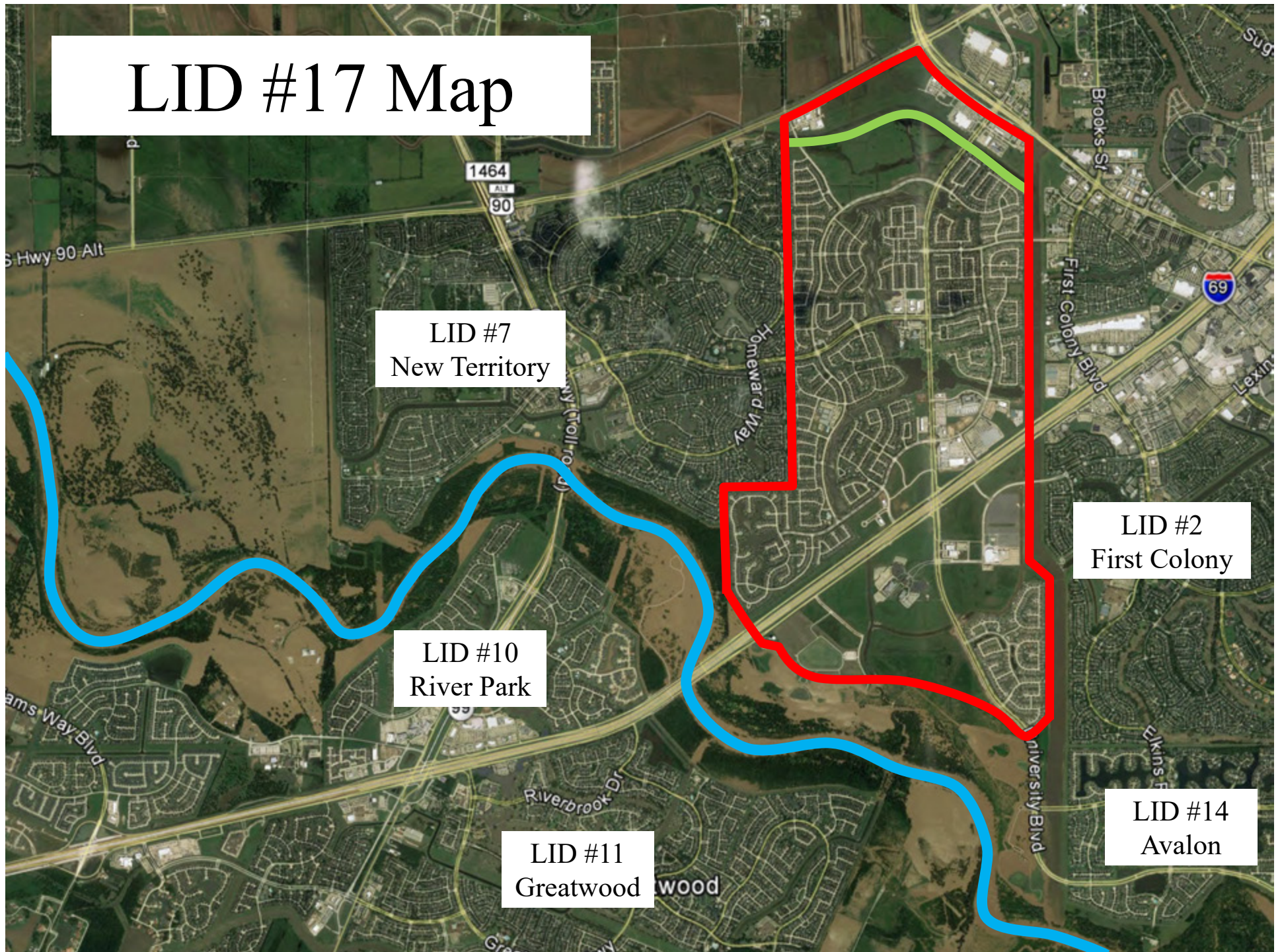
LID #7
New Territory

LID #10
River Park

LID #11
Greatwood

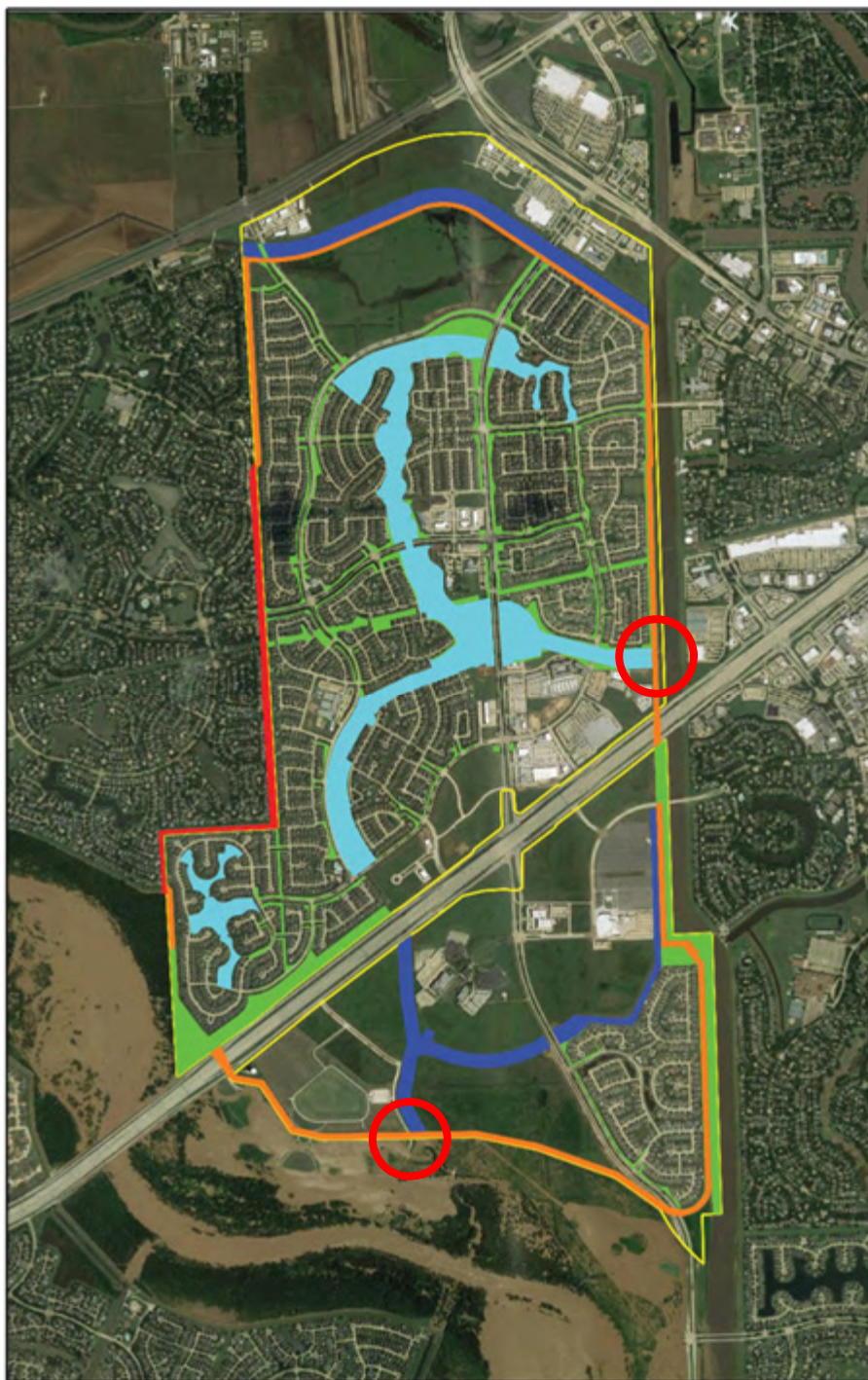
LID #2
First Colony

LID #14
Avalon



Fort Bend LID #17 Overview

- ***Created by FB County Commissioners on July 9, 2002***
- ***Governed by an appointed Board of Directors***
- ***Includes 2331 acres of land***
 - ***949 acres of residential land with 2839 lots***
 - ***375 acres of commercial land***
 - ***1007 acres of open space or public land***
- ***2017 Assessed Value \$1,829,885,079***
- ***2017 Tax Rate was \$0.57 per \$100 valuation***
 - ***\$0.27 for Debt Service and \$0.30 for M&O***
- ***2017 Tax Levy was \$10,430,345***
 - ***\$4,940,690 for Debt Service and \$5,489,655 for M&O***



Fort Bend LID #17 Facilities

- LID 17 levee system is 6.8 miles around Telfair (35,800 ft)
- Joint use with LID 7 levee system adds 1.6 miles (8,340 ft)
- Designed to Corps of Engineers and FEMA and FBC standards
- 2 Pump Stations
 - PS#1 – 4 pumps with total 56,000 gpm
 - PS#2 – 5 pumps with total 64,550 gpm
- 417 acres owned by the LID
 - 92 acres for levee
 - 74 acres for channels
 - 164 acres of lakes/ponds
 - 87 acres of parks/greenspace/reserves
- Maintenance of levee and drainage system by LID contractors
- Maintenance of parks and roadways by contract with the Telfair Community Association

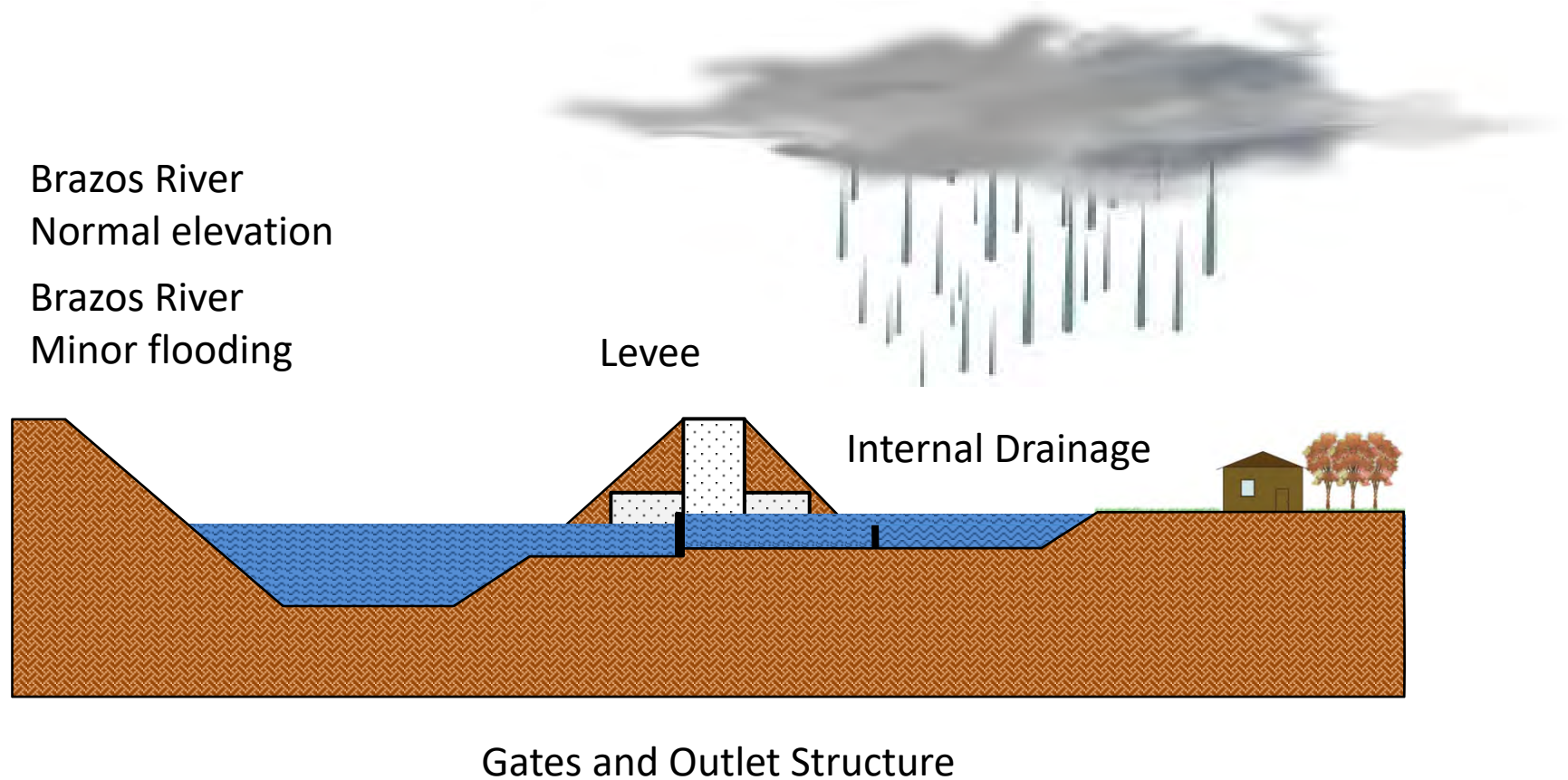
Fort Bend LID #17

Operations

Routine Operations and Maintenance

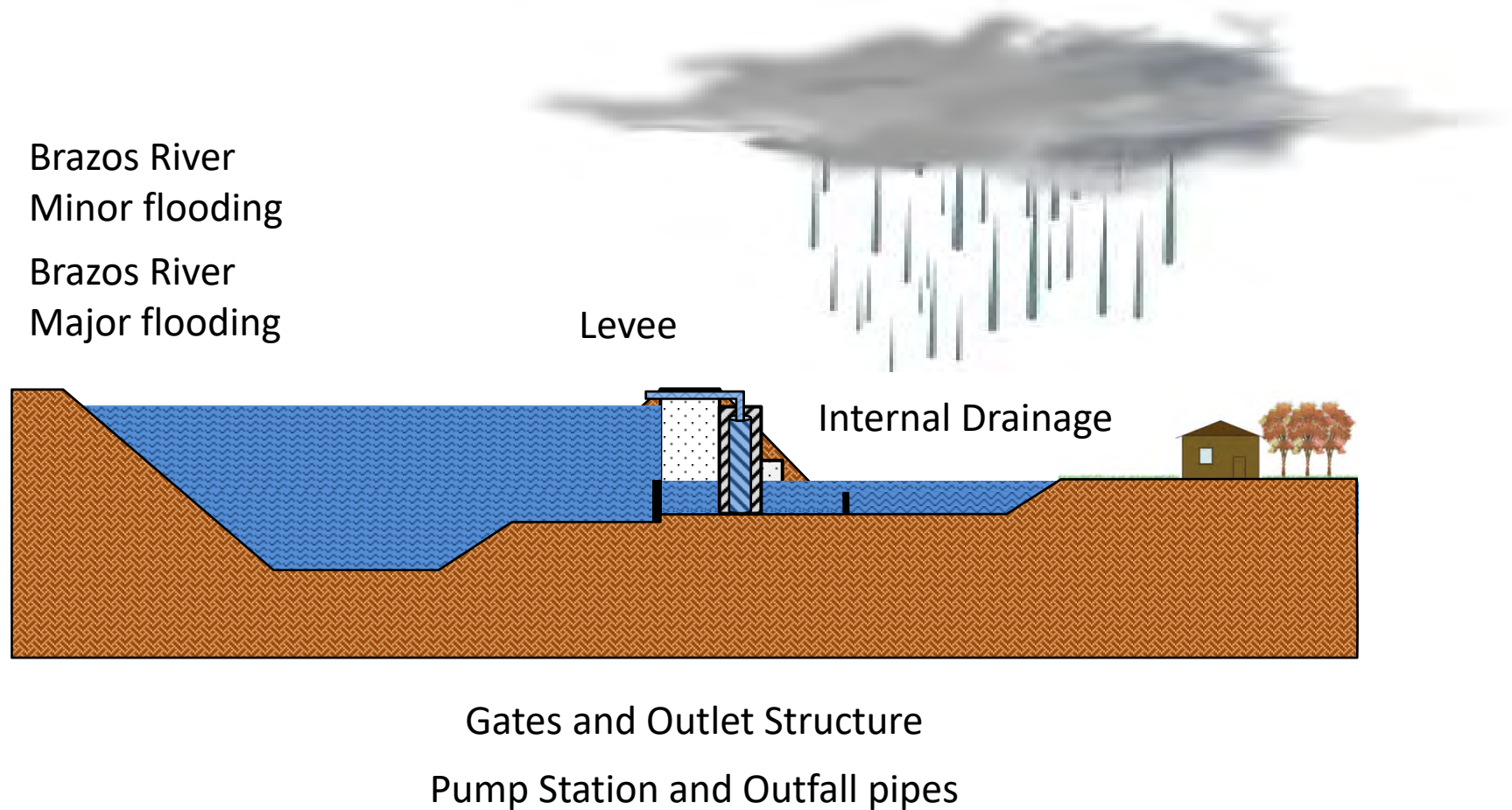
- ***The pump station and pump equipment is inspected once each working day***
- ***Pumps are “bumped” quarterly to inspect for deficiencies***
- ***Generators are tested quarterly to ensure proper operations***
- ***Diesel fuel and tank is tested quarterly to ensure fresh fuel***
- ***Flap gates and the outfall structure are inspected each week and after all major rain events to check for debris***
- ***The levee system is inspected once each week***
- ***Mowing is 14 times per year***
- ***Ant control is quarterly***
- ***Fertilization and seeding is done in the Fall and Spring***

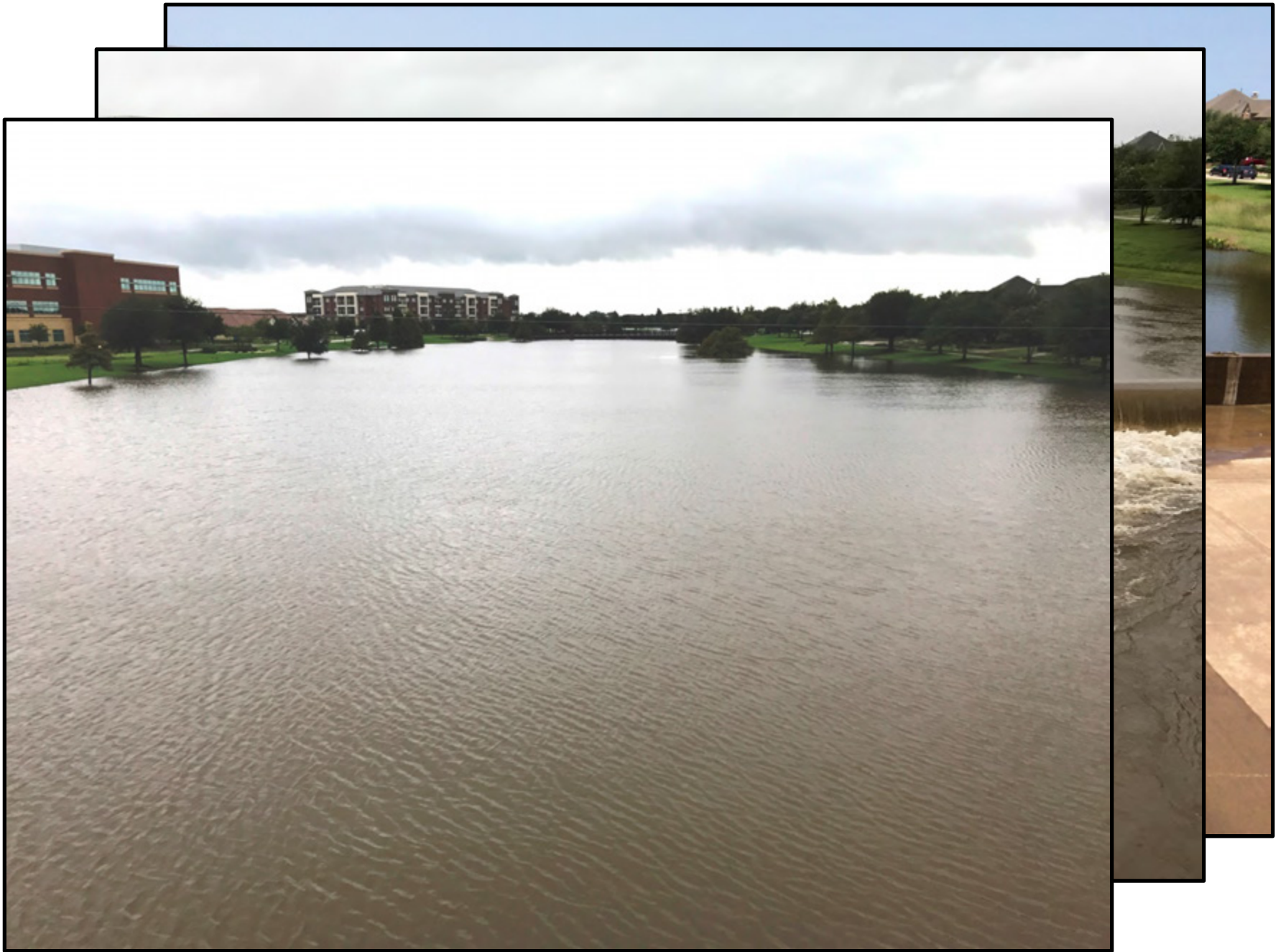
Fort Bend LID #17

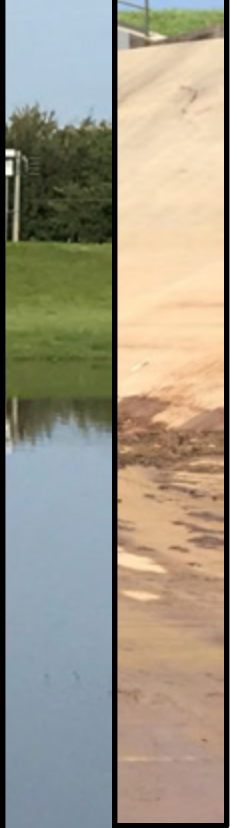




Fort Bend LID #17







Fort Bend County
Levee Improvement District #17

**Hurricane Harvey Event
Discussion**

MEMORANDUM



DATE: September 5, 2017
TO: HCFCD Flood Watch/Partners
FROM: Jeff Lindner
Director of Hydrologic Operations/Meteorologist
RE: Immediate Report – #1
Hurricane Harvey - Storm and Flood Information

RAINFALL - Peak total rainfall for the various time periods are listed below for HCFCD gages across Harris County.

Time	1-hr	2-hr	3-hr	6-hr	12-hr	24-hr	2-day	4-day
Peak Rainfall (inches)	6.8	11.9	14.8	18.9	20.9	25.6	34.5	47.4

Duration	Rainfall Amount	Return Interval – years (exceedance probability)
1-Hour		
Maximum	6.8"	1,500 (0.0667%)
Weighted Range	4-5"	50-500 (2.0% - 0.2%)
24-Hour		
Maximum	28.6"	8,000 (0.0125%)
Weighted Range	16-20"	200-1,000 (0.5%-0.1%)
2-Day		
Maximum	35.2"	9,000 (0.011%)
Weighted Range	27-33"	2,500-6,000 (0.04%-0.0167%)
4-Day		
Maximum	47.4"	40,000 (0.0025%)
Weighted Range	35-43"	500-20,000 (0.2%- 0.005%)

Fort Bend LID #17

Rainfall in Telfair

Day	Date	Rainfall	Total
Thursday	Aug-24	0.18	0.18
Friday	Aug-25	1.96	2.14
Saturday	Aug-26	9.22	11.36
Sunday	Aug-27	14.87	26.23
Monday	Aug-28	7.96	34.19
Tuesday	Aug-29	1.23	35.42

Fort Bend LID #17

Rainfall in Telfair

Day	Date	Rainfall	Total
Thursday	Aug-24	0.18	0.18
Friday	Aug-25	1.96	2.14

Weather History for Sugar Land, TX [KTXSUGAR31]



Previous

Weekly Mode



August

Summary

August 23, 2017 - August 30, 2017

	High	Low	Average
Temperature	95.4 °F	70.5 °F	79.2 °F
Dew Point	82.2 °F	66.7 °F	73.4 °F
Humidity	99%	43%	85.9%
Precipitation	35.42 in	--	--

11.36

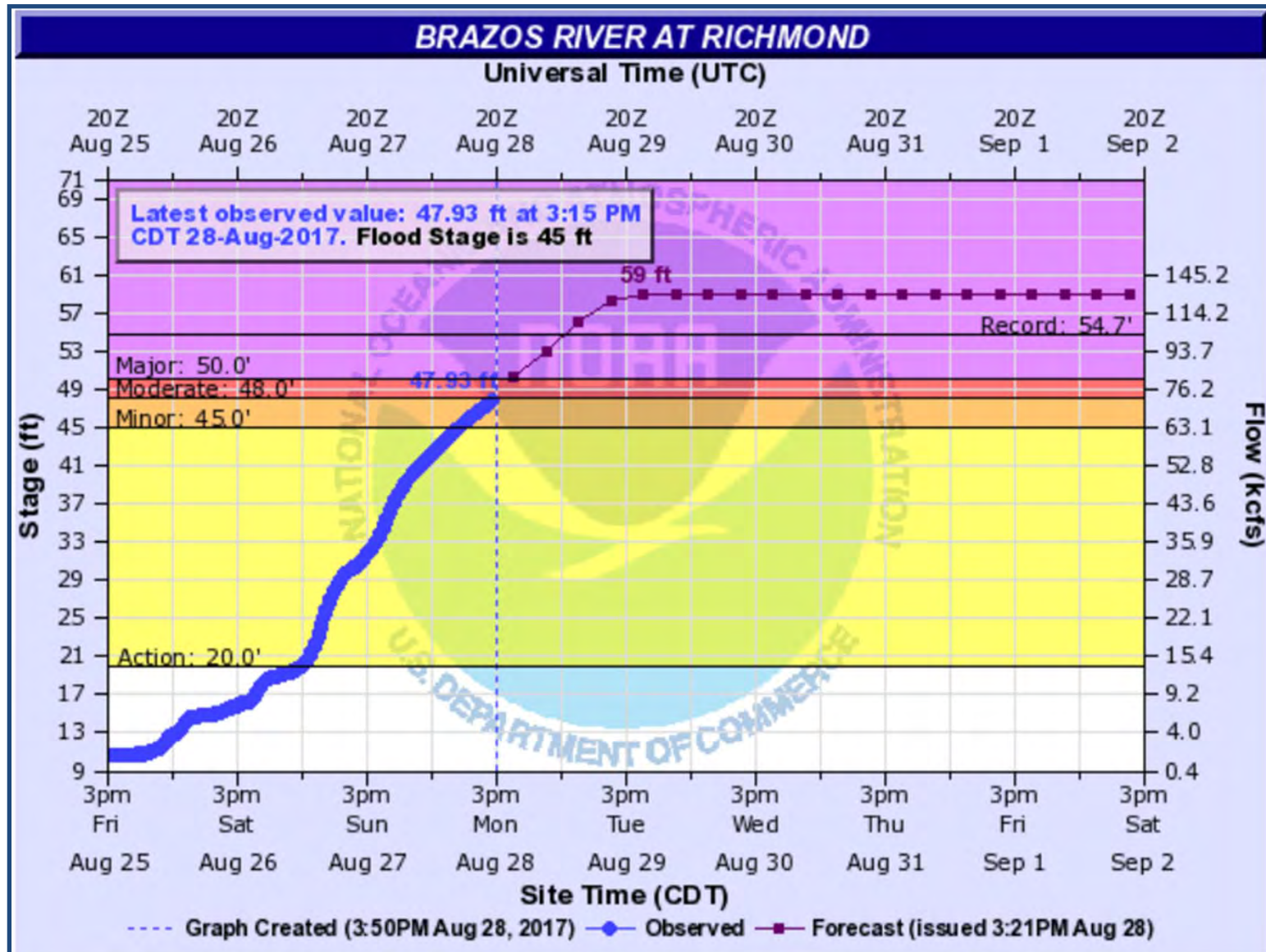
26.23

34.19

35.42

Fort Bend LID #17

NWS Brazos River Forecasts



Fort Bend LID #17

NWS Brazos River Forecasts



Fort Bend LID #17

Emergency Operations

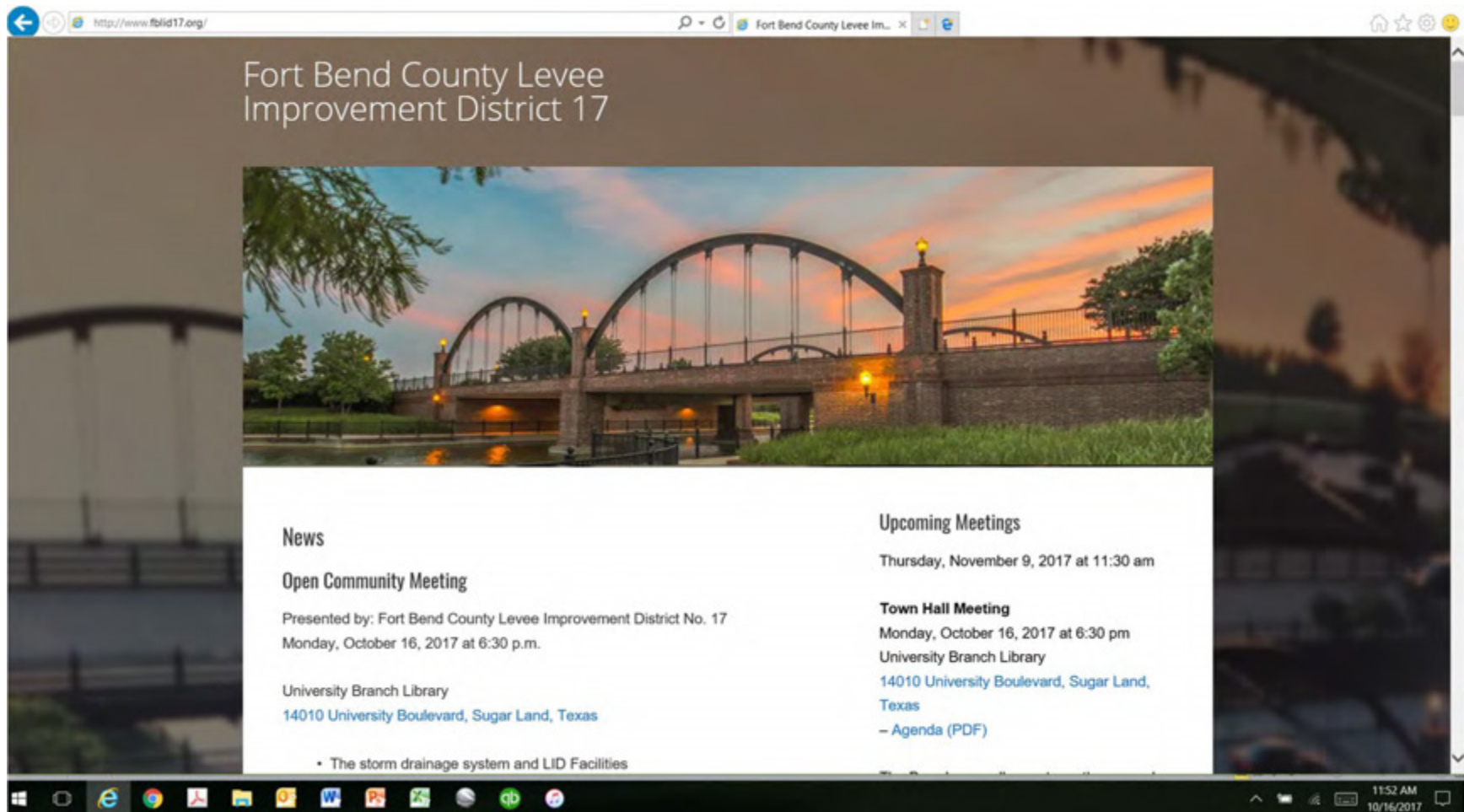
Emergency Operations

- *The pump stations are inspected at least 3 times each 24-hour period to ensure proper operation*
- *Flap gates are inspected for proper closure. Debris is removed if present and it feasible to remove it.*
- *The Levee is monitored for sloughs/slides along side slopes*
- *Areas around the levee are checked for sink holes or boils*

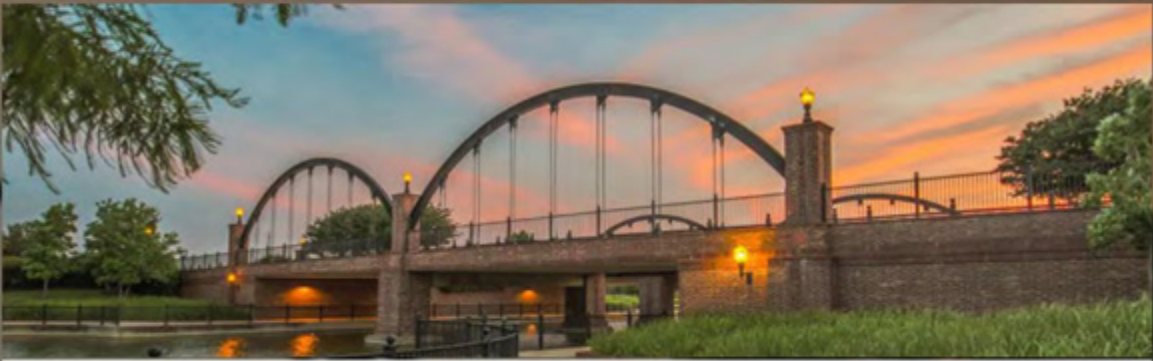
Fort Bend LID #17

Communications

www.fblid17.org



Fort Bend County Levee Improvement District 17



News

Open Community Meeting

Presented by: Fort Bend County Levee Improvement District No. 17
Monday, October 16, 2017 at 6:30 p.m.

University Branch Library
14010 University Boulevard, Sugar Land, Texas

Upcoming Meetings

Thursday, November 9, 2017 at 11:30 am

Town Hall Meeting

Monday, October 16, 2017 at 6:30 pm
University Branch Library
[14010 University Boulevard, Sugar Land, Texas](#)
[– Agenda \(PDF\)](#)

• The storm drainage system and LID Facilities

Fort Bend LID #17

Communications

www.fbcoem.org

The screenshot shows a web browser window displaying the Fort Bend County Office of Emergency Management (OEM) website. The address bar shows the URL <http://fbcoem.org/incidents/HARVEY/>. The website header includes navigation links: HOME, CONTACT US, FBC ALERT, NEWS & INFORMATION, VOLUNTEER, PLANS, PREPARE, RECOVER, and EVENTS. The main content area is titled "Harvey" and contains the following text:

This page serves as a repository for all information about Tropical Storm Harvey.

All relevant incident information will be posted to this page.

Additionally, there are pages which we use for every incident, like the Road Closures page, which is maintained constantly during an incident.

Showing 1-9 of 10

September 14, 2017
Fort Bend County is not engaging in aerial spraying at this time

September 13, 2017
Contact a Case Manager

The right sidebar features a "RECENT POSTS" section with the following entries:

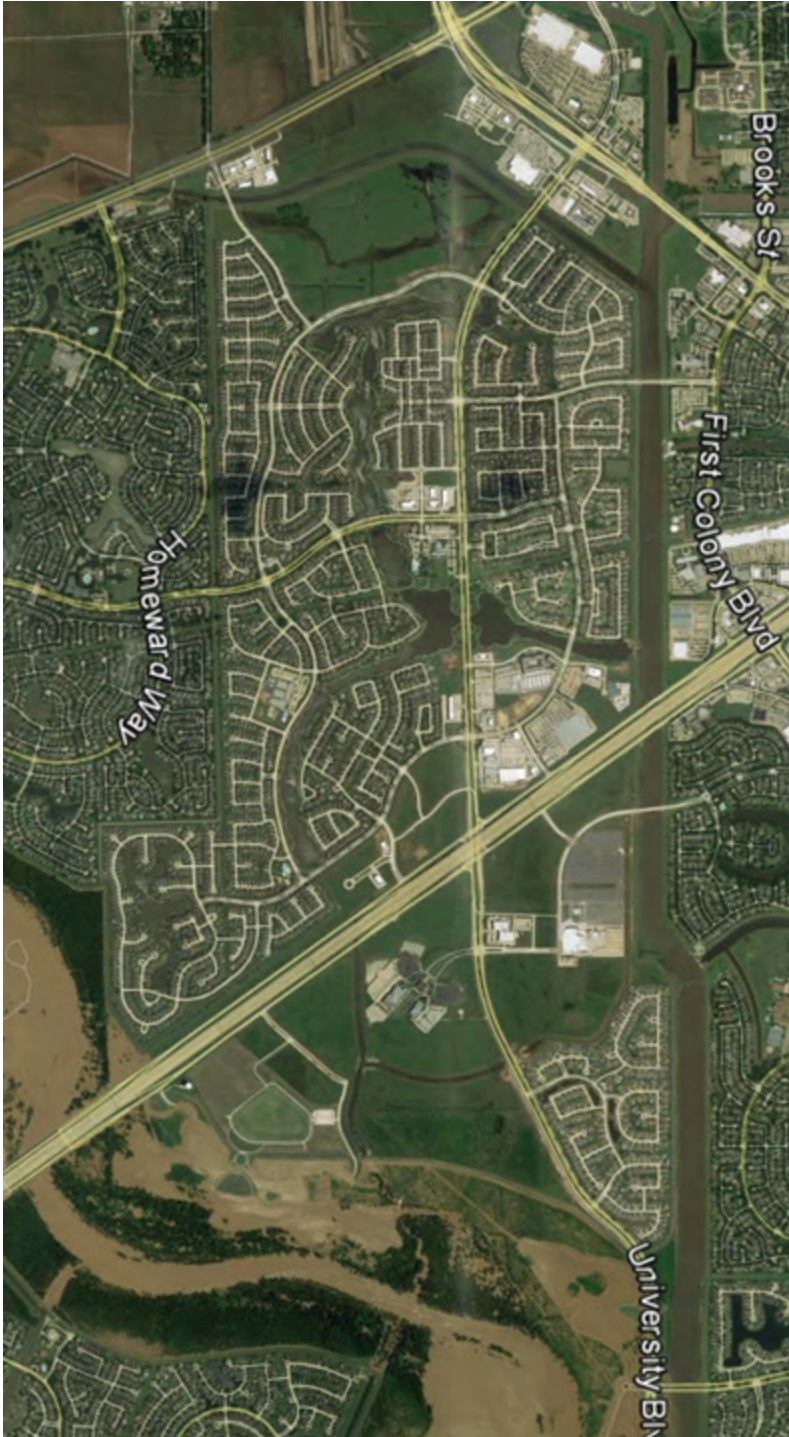
- Fort Bend County is not engaging in aerial spraying at this time
September 14, 2017 16:08
- Contact a Case Manager
September 13, 2017 16:50
- All Evacuation Orders for Hurricane Harvey Available Online
September 12, 2017 14:24
- Community Event for Hurricane Harvey Survivors – September 16th!
September 11, 2017 08:27
- Fort Bend County Residents Can Choose

The Windows taskbar at the bottom shows the time as 12:00 PM on 10/16/2017.

Fort Bend LID #17

Communications

- The following entities are trusted sources for information during an emergency:
 - Fort Bend County Office of Emergency Management (<http://fbcoem.org>)
 - City of Sugar Land
- Both entities can be followed on Twitter, Facebook and Instagram for up to date information on emergencies.
- FBCOEM also has a reverse 911 system for people to sign up to receive text/phone messages



Fort Bend LID #17

Questions/Answers

- Street Flooding?
- Maximum River Height?
- Flood Insurance Requirements?
- New Territory Blvd Closure?
- District Contact info?

Fort Bend County
Levee Improvement District #17

Thank You for Attending!