

## Jersey Village City Council Meeting September 19, 2016

### Fred W. Ziehe public comments

Good evening. My name is Fred Ziehe and I live at 8409 Hawaii Ln and am a member of the JV citizens' flood committee, "Residents Working to Improve Jersey Village".

Five months since the 2016 Tax Day Flood, we have now arrived at the point of contracting Dannenbaum Engineering to perform an engineering study for the mitigation of our flooding issues.

Though the proposed contract with Dannenbaum, which should detail their scope and process, has not yet been made available to the public, I think it's necessary to repeat some of the concerns previously expressed by our citizens' flood group.

It is our opinion that the large contributing factors to our flooding are the result of :

- 1) Large volumes of flood waters moving downstream from the 18 sq mile upper reach of White Oak Bayou. This was never so evident than during the recent rains we had on Sunday, August 14, 2016. During this rain, only 2.7 " of rain fell on JV, yet the flood waters rose within 4 ft of the top of bank in JV. There is no way this small amount of rain caused this high rise in our channel. However, upstream of JV the rains were more severe. In fact, 8.4" of rain was reported upstream of us. This is why it's critical that Dannenbaum, in concert with HCFCD, consider the entire drainage area in their engineering modelling and study.
- 2) The channels through JV are not as wide as they are directly upstream and downstream of JV. This is evident on satellite pictures of the area on Google Maps and by using your own eyes if you took the time to walk the bayou. This was also obvious during the Tax Day Flood. The flood waters stayed in bank directly upstream of JV in the Willow Bridge area and also directly downstream of JV east of the Beltway. Yet, the same flood waters came out of bank by 2.4 ft through JV and flooded in excess of 225 homes. The narrowing of the channels through JV is causing the flooding we experience. Too much water is being directed to a narrow channel. Widening and deepening of the channels are absolute necessities to mitigating the flooding issues in JV. These are not just options, they are requirements.
- 3) Higher water levels have been witnessed by homeowners along the South Tributary ever since the "Elwood Weir" or "drop structure" was constructed. It is also slowing down the water trying to exit JV. The need for this structure, or at least the dimensions of it, need to be reconsidered.
- 4) The effectiveness of the By-Pass must be re-evaluated. The By-Pass had excess capacity available to move more water during the Tax Day Flood. The flood waters were about 6 ft below the top of bank.....during the same time that JV was being flooded. Sure it is moving some water from the main channel right before entering JV, but not enough, in my

opinion. Furthermore, it is receiving more water from the Willow Bridge area downstream by the iron walk bridge. That is taking up some of its capacity as well. The volume of water moving through the By-Pass must be calculated and its utilization must be maximized to prevent flooding of any of the nearby areas.

These issues are just some of the critical items that must be required to be considered by Dannenbaum. As I stated previously, their actual scope of study has not yet been made public. However, if these items are not considered by this competent engineering firm, the study would be incomplete. To ignore these critical items would be a significant omission of the study. **Will the Council please confirm that these items are included in Dannenbaum's scope of study or not?**

I hope the City Council and City Manager will address each of these specific items tonight during their discussions of this most important issue currently facing Jersey Village.

Thank you for your time.



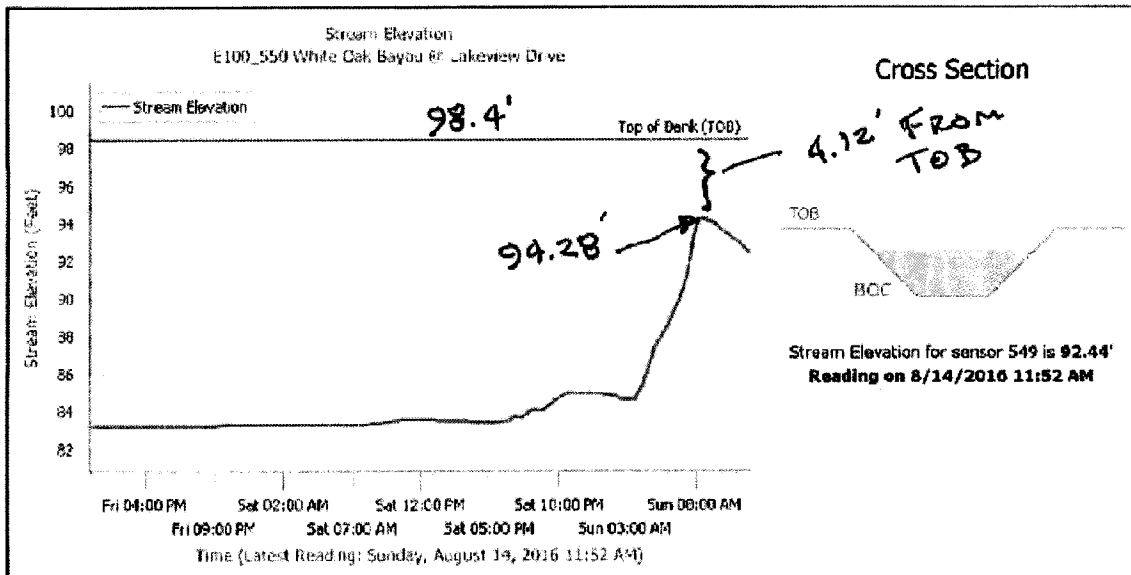
Agency: Harris County Flood Control District  
 Location: 550: E100\_550 White Oak Bayou @ Lakeview Drive  
 Last: 2 Days | Reported from: 8/14/2016 11:55 AM | Refresh

Stream Elevation | Rainfall

**Stream Elevation Sensor 549**  
**E100\_550 White Oak Bayou @ Lakeview Drive**

Key Map	409M
Sensor ID	549
Sensor Type	Bubbler
Installed	10/7/1985
Top of Bank (TOB)	98.40'
Bottom of Channel (BOC)	81.82'
Tip of Orifice	82.13'
Measuring Plate	89.65'
Benchmark	89.60'

RM 050103 stamped E100 BM19 located on the downstream sidewalk at north end bridge.  
 1986 NAVD, 2001 adjustment. 78 to 81 Adjustment -5.03'  
 As of July 1, 2007, the elevation datum was changed from 1929 NGVD, 1970 adjustment to the 100B NAVD, 2001 adjustment.



Export to Excel

Sensor	Reading Date	Stream Elevation
549	8/14/2016 11:52 AM	92.44'
549	8/14/2016 11:38 AM	92.59'
549	8/14/2016 11:26 AM	92.72'
549	8/14/2016 11:18 AM	92.83'
549	8/14/2016 11:07 AM	92.94'
549	8/14/2016 10:58 AM	93.06'
549	8/14/2016 10:44 AM	93.18'
549	8/14/2016 10:30 AM	93.29'
549	8/14/2016 10:13 AM	93.45'
549	8/14/2016 9:58 AM	93.62'
549	8/14/2016 9:41 AM	93.74'
549	8/14/2016 9:27 AM	93.86'
549	8/14/2016 9:19 AM	93.97'

Flood Frequency	Elevation
10% (10-year)	101.30'
2% (50-year)	102.20'
1% (100-year)	103.00'
.2% (500-year)	104.00'

Historical Storm

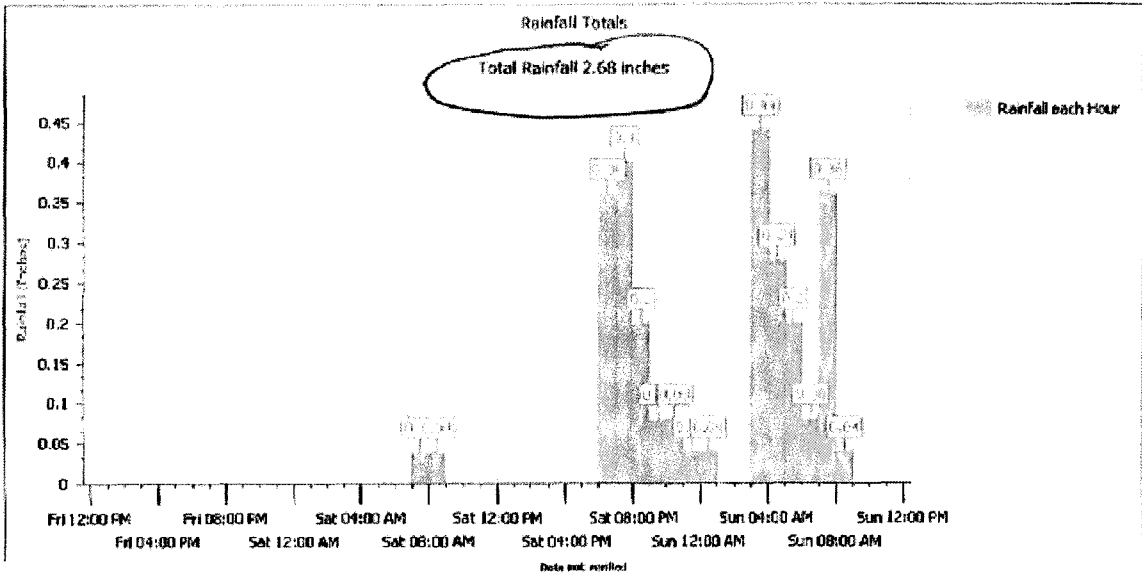
Date	Event	Elevation
8/31/1981		97.97'
5/14/1982		94.67'
8/18/1983	Alicia	93.40'
9/11/1998	Frances	99.97'
6/9/2001	Allison	101.97'
10/29/2002		99.87'
11/17/2003		97.57'
12/14/2005		97.65'
6/19/2006		96.60'
10/16/2006		97.50'
9/13/2008	Ike	96.00'
4/28/2009		98.60'
10/25/2015		93.10'
4/18/2016		101.30'



Agency: Harris County Flood Control District  
 Location: 550: E100\_550 White Oak Bayou @ Lakeview Drive  
 Last: 2 Days | Reported from: 8/14/2016 11:55 AM | Refresh

Stream Elevation | Rainfall

Showing rainfall totals from 8/12/2016 12:00 PM to 8/14/2016 12:00 PM CDT



The following detail shows the rainfall that has fallen by the selected time span. The default selection matches the Rainfall totals in the graph above.

Export to Excel | 1 Hour

Reading Date From	Reading Date To	Rain
8/14/2016 11:00 AM	8/14/2016 12:00 PM	0.00"
8/14/2016 10:00 AM	8/14/2016 11:00 AM	0.00"
8/14/2016 9:00 AM	8/14/2016 10:00 AM	0.00"
8/14/2016 8:00 AM	8/14/2016 9:00 AM	0.04"
8/14/2016 7:00 AM	8/14/2016 8:00 AM	0.36"
8/14/2016 6:00 AM	8/14/2016 7:00 AM	0.08"
8/14/2016 5:00 AM	8/14/2016 6:00 AM	0.20"
8/14/2016 4:00 AM	8/14/2016 5:00 AM	0.28"
8/14/2016 3:00 AM	8/14/2016 4:00 AM	0.44"
8/14/2016 2:00 AM	8/14/2016 3:00 AM	0.00"
8/14/2016 1:00 AM	8/14/2016 2:00 AM	0.00"
8/14/2016 12:00 AM	8/14/2016 1:00 AM	0.04"
8/13/2016 11:00 PM	8/14/2016 12:00 AM	0.04"
8/13/2016 10:00 PM	8/13/2016 11:00 PM	0.08"
8/13/2016 9:00 PM	8/13/2016 10:00 PM	0.08"
8/13/2016 8:00 PM	8/13/2016 9:00 PM	0.20"
8/13/2016 7:00 PM	8/13/2016 8:00 PM	0.40"
8/13/2016 6:00 PM	8/13/2016 7:00 PM	0.36"
8/13/2016 5:00 PM	8/13/2016 6:00 PM	0.00"
8/13/2016 4:00 PM	8/13/2016 5:00 PM	0.00"
8/13/2016 3:00 PM	8/13/2016 4:00 PM	0.00"
8/13/2016 2:00 PM	8/13/2016 3:00 PM	0.00"
8/13/2016 1:00 PM	8/13/2016 2:00 PM	0.00"
8/13/2016 12:00 PM	8/13/2016 1:00 PM	0.00"
8/13/2016 11:00 AM	8/13/2016 12:00 PM	0.00"
8/13/2016 10:00 AM	8/13/2016 11:00 AM	0.00"
8/13/2016 9:00 AM	8/13/2016 10:00 AM	0.00"