



Council Member Dave Martin

April 17, 2018

“Plea for Three”

- SJRA Board Seats
- Reduce “pooling level” at Lake Conroe from 201 feet above sea level to 198 feet above sea level
- Dredging projects in San Jacinto River and Lake Houston

“Plea to See”

- Thursday, February 8 – Visit to San Antonio and Austin to meet with Governor’s Staff
- Thursday, March 15 – Tour of Lake Houston with Governor Abbott
 - Thursday, March 22 – Tour of Lake Houston with George P. Bush
- Tuesday, April 3 – Tour of Lake Houston with Lt. Governor Dan Patrick

Monday March 26, 2018

Texas Department of Emergency Management (TEDM)

- Under the direction of Chief Nim Kidd
- Attendees included COH, FEMA, GLO, Army COE, Natural Resources Conservation Service (NRCS), Governor's Staff

Texas Water Development Board (TWDB)

- Bathymetric Survey

Bureau of Economic Geology (BEG)

- LIDAR Mapping

Objective: Determine the amount of sediment/sand that has accumulated within the River

Goal: Determine the amount caused by Harvey so the City can seek Federal assistance for the removal

Bank to Bank along the West Fork from 59 to confluence of East and West Forks in Lake Houston

Surveys & Responsibility

- HCFCFCD – Environmental Applicant
- HCFCFCD – three (3) borings of sand/silt for testing
- Army Core Of Engineers (COE) – Developing hydraulic model of River to determine flow capacity
- COE – obtain cross sections of River every 200 feet to be incorporated into model to simulate flow obstruction (design storm – 100 year)
- COE – prepare environmental documents including environmental assessment
- COE – prepare construction plans for dredging operations (interim step as COE will NOT be removing ALL material from bank to bank)
- COH/COE/HCFCFCD – investigating disposal sites
- COE – bid and manage the construction activity
- FEMA – will pay 90% of the cost (Debris Removal under Category A)
- FEMA – because FEMA is declaring an EMERGENCY, construction cannot proceed without final environmental; clearance. HOWEVER, if the environmental assessment determines mitigation is required, HCFCFCD will have to resolve these issues since they are the “applicant”

LIDAR (Light Imaging Detection and Ranging) Survey

Includes ditches draining into West Fork, South of Kingwood Drive, requested by HCFCD to determine sand/sediment deposition within ditches

In order for the City to determine impact of Harvey, we are required to show pre-Harvey conditions

TWDB completed a Bathymetric survey of the entire Lake in 2011.

The City has topographic data of sand bars from LIDA mapping done in 2008.

Dredging Project Scope

- FEMA issues a “Mission Assignment” directly to the Army Core of Engineers (COE)
- Phase 1 – Dredge the West Fork of the San Jacinto River, between US69/Hwy. 59 downstream to the West Lake Houston Bridge
- This directive is an “Emergency Declaration”, and Phase 1 is based upon “life safety and property protection”
- Amount of dredging to be performed, environmental/water quality and disposal site locations are still “issues”

Disposal Sites

David Perkins, President CEO

Texas Aggregates and Concrete Association (TACA)

6 weeks

Before and After Lowering
Lake Houston 2.5 feet

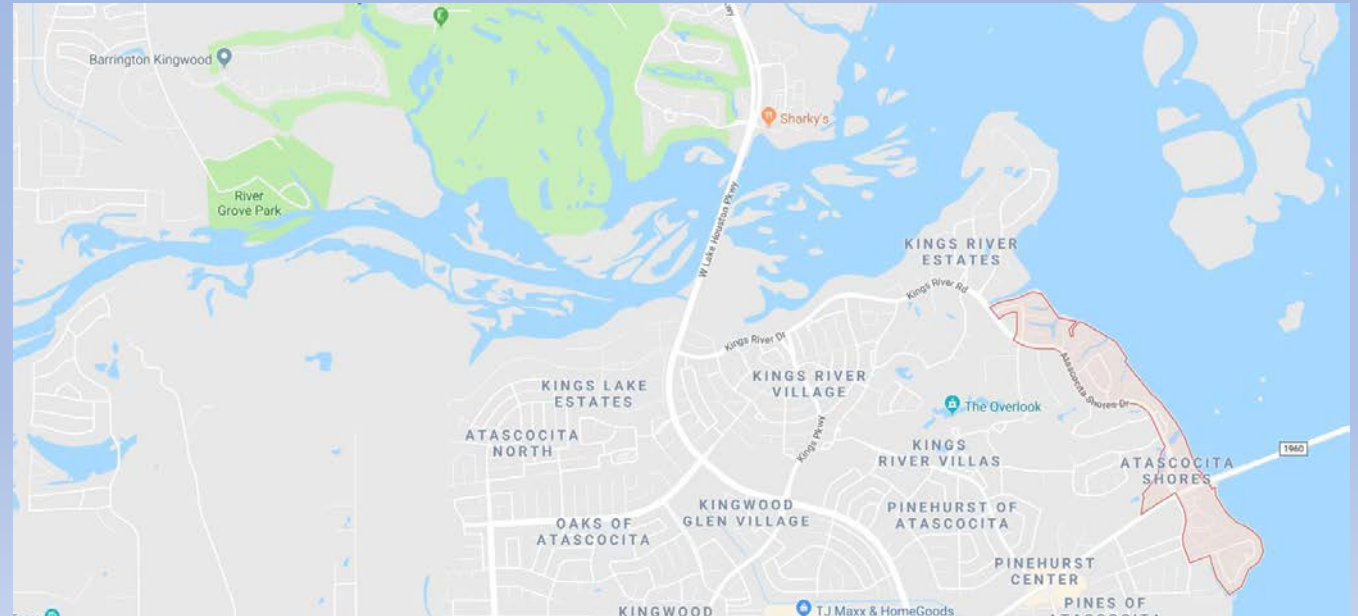
San Jacinto Watershed Sample Lake and River Conditions due to Rain on 3/27 & 3/28						
	Rain Amount	10:00 a.m. Thursday		Level on Wed.	Level on Mon.	Has this tributary Crested?
Lake Conroe	6	202.28 ft		201 ft	201 ft	n/a
West Fork at US59	3	50.59 ft		40.56 ft	42.63 ft	Predicted to Crest at 1:00 p.m. at 51.6 ft
Spring Creek	4	85.93 ft		73.96 ft	73.94 ft	Predicted to Crest at 7:00 p.m. at 88.3 ft
Cypress Creek	4	79.51 ft		64.35 ft	64.29 ft	Predicted to Crest at 1:00 P.M. at 79.2 ft
Lake Houston	3	41.55 ft		40.56 ft	42.63 ft	n/a
East Fork at New Caney	4	55.15 ft		48.78 ft	46.88 ft	Predicted to Crest at 4:00 a.m. Monday (4/2) at 61.2 ft
Lake Livingston	6	133 ft		131.57 ft	n/a	n/a
	Rain Amount	5:00 p.m. Thursday		Level on Wed.	Level on Mon.	Has this tributary Crested?
Lake Conroe	6	202.69 ft		201 ft	201 ft	n/a
West Fork at US59	3	51.6 ft		40.56 ft	42.63 ft	Predicted to Crest at 10:00 p.m. at 51.9 ft
Spring Creek	4	83.11 ft		73.96 ft	73.94 ft	Reached a high point of 86.83 ft at 5:30 a.m. receding now but expected to rise again and crest at 85.6 ft Saturday afternoon.
Cypress Creek	4	75.71 ft		64.35 ft	64.29 ft	Crested at 79.51 and started Receding at 7:30 a.m.
Lake Houston	3	42.66 ft		40.56 ft	42.63 ft	n/a
East Fork at New Caney	4	55.45 ft		48.78 ft	46.88 ft	Rise in river has slowed considerably but it is still predicted to Crest at 4:00 a.m. Monday (4/2) at 61.2 ft
Lake Livingston	6	132.8 ft		131.57 ft	n/a	n/a
San Jacinto Watershed Sample Lake and River Conditions due to Rain on 3/27 & 3/28						
	Rain Amount	9:30 a.m. Friday	Level on Thursday	Level on Wed.	Level on Mon.	Has this tributary Crested?
Lake Conroe	6	202.95 ft	202.69 ft	201 ft	201 ft	n/a
West Fork at US59	3	50.1 ft	51.6 ft	40.56 ft	42.63 ft	Crested at 56.66 ft 5:15 p.m. yesterday and river is receding now.
Spring Creek	4	79.99 ft	86.83 ft	73.96 ft	73.94 ft	Crested at 86.83 ft at 5:30 a.m. yesterday river has continued to recede.
Cypress Creek	4	70.09 ft	79.51 ft	64.35 ft	64.29 ft	Crested at 79.51 yesterday and has continued to recede.
Lake Houston	3	43.82 ft	42.66 ft	40.56 ft	42.63 ft	n/a
East Fork at New Caney	4	57.25	55.45 ft	48.78 ft	46.88 ft	Rise in river is steady and predicted to Crest on Sunday at 7:00 p.m. at 61.6 ft
Lake Livingston	6	131.14	132.8 ft	131.57 ft	n/a	n/a

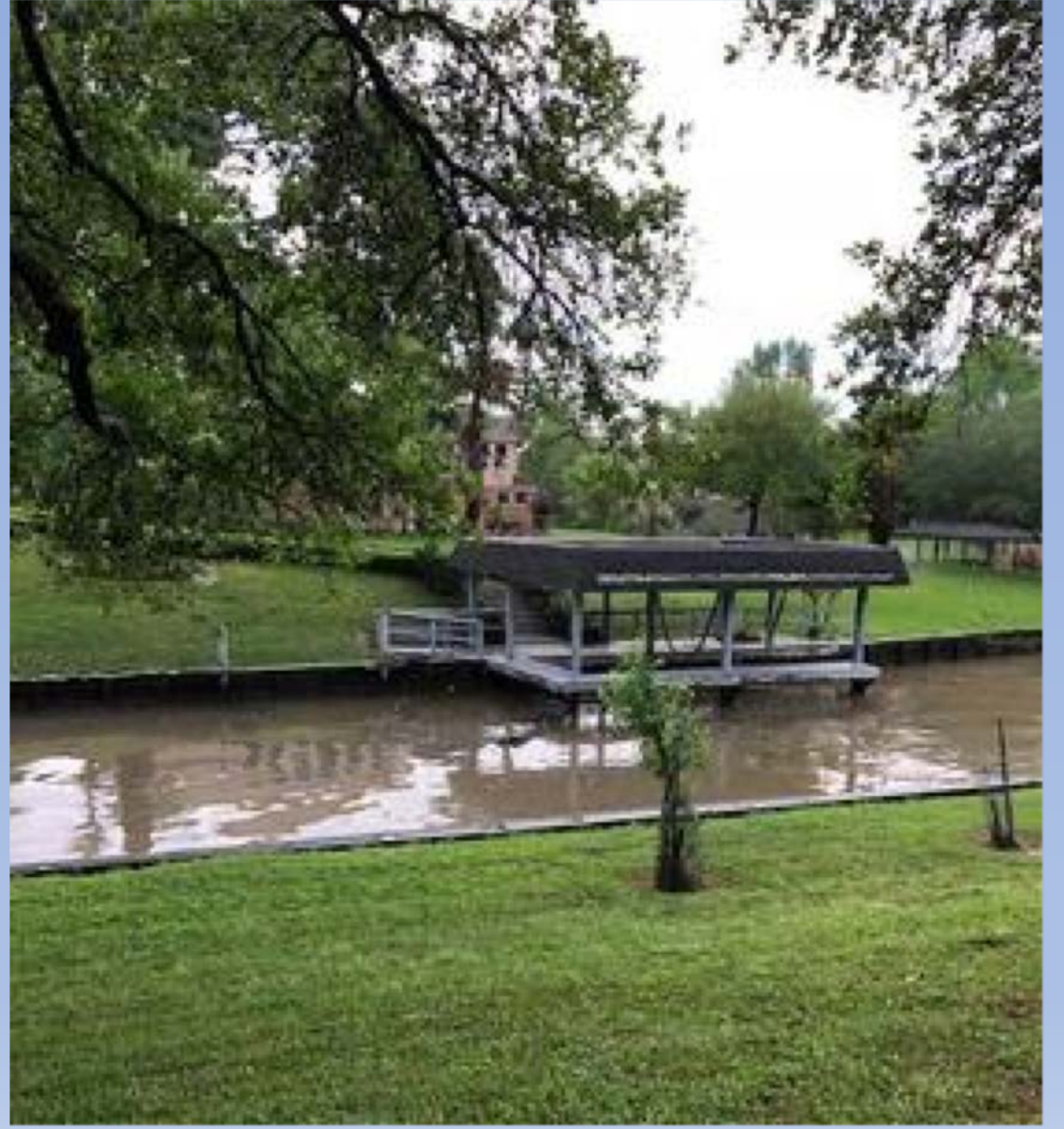


Atascocita Shores 3/28/2018



Atascocita Shores 3/29/2018







← West Fork of the San Jacinto River Facing East
towards IH69 Looking at Rail Road Tracks

Road Impassable South of Hamblen Road Under
IH69 Looking South Towards River →



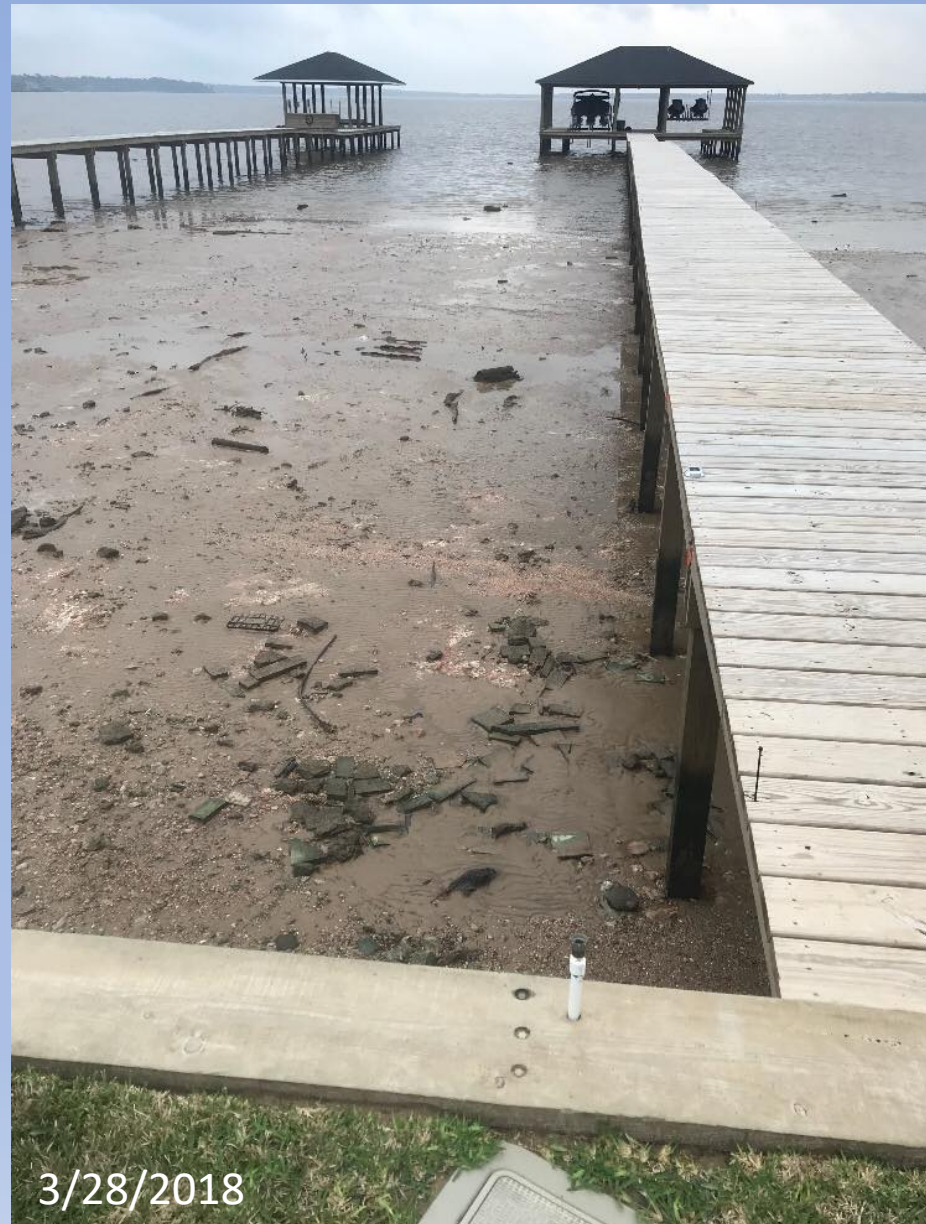


3/28/2018



3/29/2018

Same address on the lake, one day apart in Walden on Lake Houston.

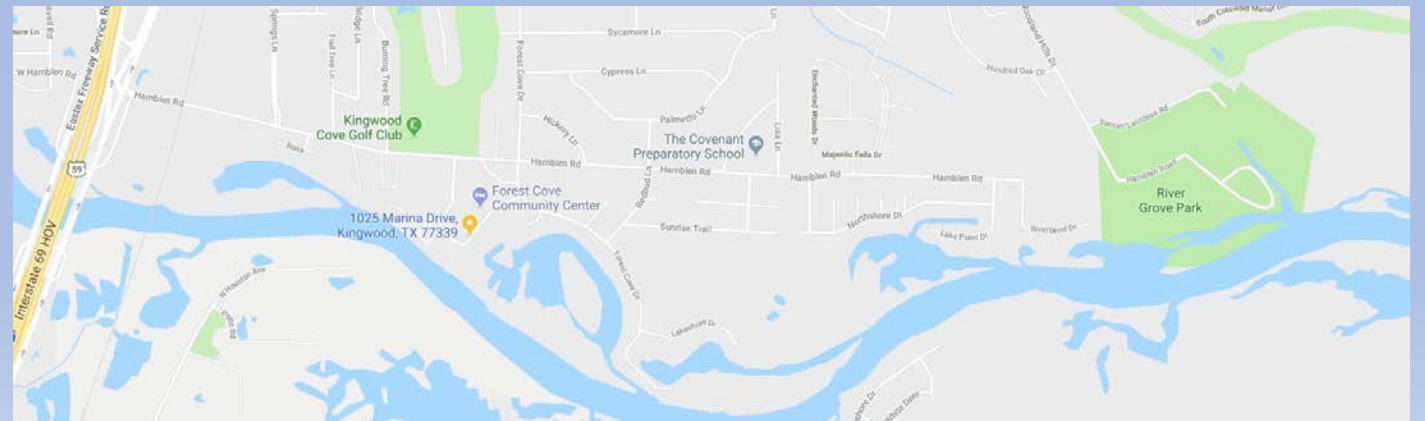




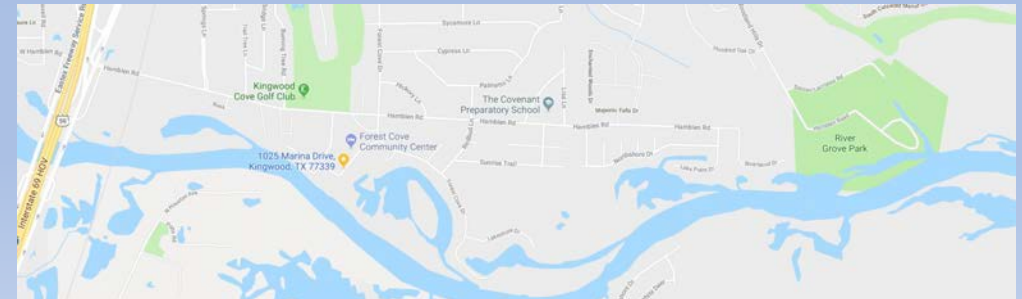
3/28/2018



3/29/2018



River Grove Park



River Grove Park Continued Post 3/28 Rain

