TUESDAY, AUGUST 22

- Southeast Texas under flood watch
- 7 – 10 inches of rain projected for 7 day period
**WEDNESDAY, AUGUST 23**

**MORNING**

- NWS Briefing, Projected 10 – 15 inches of rain, maybe more
WEDNESDAY, AUGUST 23

AFTERNOON

- Situational briefing of EOC staff
- Municipal Facility Site Prep
- CenterPoint Energy Preparing for Event
- Alerts to contractors to prepare sites
- Protection of office equipment
- Contact with debris management companies
- Clearing of Storm Inlets
- Alert of staff to be prepared to stay for weekend
- NWS first mention of locally heavy rain to 20 inches
THURSDAY, AUGUST 24

MORNING

• Reports of cars blocking traffic at gas stations

• Another contact made with debris collection companies

• Continued planning of housing and feeding employees through the weekend

• Metro offers use of buses if evacuations necessary

• Announced EOC to fully activate Friday at noon

• Public Message: cars off street; pools, recreation center, library closed for weekend; JIC information
THURSDAY, AUGUST 24

AFTERNOON/EVENING

• NWS: some areas may receive 30 inches of rain
• Public Works develops action plan for weekend
• Public Message: Safety tips from Ready Harris
• Arranged for area of last refuge
• P-card limits increased
FRIDAY, AUGUST 25

MORNING

• NWS: Catastrophic flooding possible south of I-10
• Mayor signs disaster declaration
• Mayor Message No. 1: Disaster Declaration
• Arrangements made for employee vehicle parking
FRIDAY, AUGUST 25

AFTERNOON/EVENING

- Municipal Facilities contractor implements hurricane preparation plan
- Order placed for on-site gasoline and diesel
- FAQ list developed for dispatch
- Police begins checking on special needs residents

- Public Message: City staff available over weekend, contact information for power outages, stay out of hi-water
- EOC fully operational (level 1) at 7:00 p.m.
- NWS: Catastrophic flooding likely, isolated areas could receive 40 inches
SATURDAY, AUGUST 26

MORNING

• Large tree at Chimney Rock/Maple removed from right-of-way

• List of needed resources updated on emergency management website

• Public message: Don’t let your guard down, Stay out of the water, look out for neighbors, report storm debris at inlets
SATURDAY, AUGUST 26

AFTERNOON/EVENING

- NWS: Catastrophic flooding expected, “don’t let your guard down”, Isolated 40 inches
- Several calls received about fallen trees and limbs and some power outages
SUNDAY, AUGUST 27

MORNING

• 1:00 a.m.: 10 inches in last 24 hours
• 4:00 a.m. interview with Channel 26
• 2:00 a.m. Brays Bayou out of bank at S. Rice
• 5:00 a.m. City of Houston announces that their 9-1-1 system is at capacity
• 5:45 a.m. Flooding reporting at wastewater plant and building
• Public Message: Bellaire to experience significant flood conditions: shelter in place, turn off power if water reaches outlets, no solid waste collection
• Public Message: Record flooding continues: bayou over its banks, rescue personnel overwhelmed with calls, be patient
• 8:00 a.m. 14 inches in last 24 hours
SUNDAY, AUGUST 27

MORNING (continued)

• State Operations Center: “Harris County has water where never seen before”

• Many Bellaire streets impassable, medical transports impossible

• Dispatch receiving calls for evacuation, triage system put in place

• Volunteers offer vehicles and boats

• City of Bellaire first responders implement rescue operations, utilize refuge of last resort

• City dump trucks and hi-water vehicle deployed

• National Guard personnel and vehicles in Bellaire

• Mayor Message No. 2: Together we will get thru this, just be safe for now
SUNDAY, AUGUST 27

AFTERNOON/EVENING

• Non-emergency phone lines down (temporarily)
• No assistance available from County
• Hi-Water vehicle not working, stranded
• George R. Brown opens as shelter

• Metro provides transportation for evacuees to GRB
• Employees and citizens stranded at WWTP
• Public Message: WWTP operating beyond capacity, water safe to drink, please limit wastewater use
SUNDAY, AUGUST 27

AFTERNOON/EVENING

(continued)

• Water seeps into City Council Chambers, other areas of city hall

• Reports received of city employees homes being flooded

• Rescue operations continue, life threatening issues addressed

• Mayor Message No. 3: Harvey Flood Response update – be patient, water safe to drink, EOC distributing info as available

• Public Message: Harvey Flood response update – CenterPoint unavailable to restore power, 911 for life emergencies, water rising, limit wastewater use, water safe to drink

• NWS: Catastrophic flooding ongoing
MONDAY, AUGUST 28

MORNING

• NWS: Continued forecasts of heavy rain
• Rescue/Recovery continues thru the night (included citizens left on 610)
• Water levels falling, Brays within banks at S. Rice at 8:00 a.m.
• Channel 13 brief interview
• Mayor Message No. 4: In Southdale and Other Hardest-Hit Areas, Another Long Night, National Guard here, water starting recede

• Public Message: Careful re-entering homes, non essential city services suspended, beware electrical issues, still in Rescue mode, no trash at curb, more rain expected, online resources, water safe to drink
• Notices sent cancelling Court for the week
MONDAY, AUGUST 28

AFTERNOON/EVENING

• Mayor Message No. 5: We’re still in response and rescue mode, best way to help is check on neighbors and debris, more rain expected
• Fire Chief, Public Works Director, City Manager, tour city
• Refuge of last resort closed
• Cars towed that present hazard
• Wastewater plant functional, but damaged. Lift stations okay

• CenterPoint responding to outages
• Public Message: Harvey Flooding Update – Harvey stubborn and hampering recovery operations, non essential city services suspended, no trash at curb
• Public Message: No garbage pick up on Tuesday, city offices remain closed
• Mayor Message No. 6: EOC operations, appreciation of city staff
MORNING

• Transitioning from response to recovery
• Much improved weather forecast
• Rainfall at S. Rice and Brays Bayou past 7 days is 33.8 inches
• Debris contractor representatives in town to assess
• Repairs to city facilities
TUESDAY, AUGUST 29

AFTERNOON/EVENING

- Mayor Message No. 7: Finally, good news – Brays Bayou waters receding, elevation data
- Volunteer Center at Recreation Center
- RV and POD regulations inspected
- DPS troopers patrolling, especially 610

- Public Message: Building Official on permit process – repairs, reconstruction, and inspection
- Public Message: No solid waste service on Wednesday
- Public Message: Curfew imposed
MORNING

• Mayor Message No. 8: Now in Recovery phase, solid waste services suspended, water safe to drink, repairs and construction, curfew imposed

• Public Message: Recovery Process – solid waste/debris update, scammers, water and wastewater update, sign up for notify me
AFTERNOON

- Public Message: Solid Waste Update – resume pick up services on 8/31, schedule still developing
RAINFALL TOTALS
TOTAL RAINFALL 34.44 INCHES
DAMAGE SUMMARY
POOL FACILITIES

Evergreen Facility Damage:

• Pools to be Drained and Acid Washed
• Pump Motors - Submerged
• Therapy Pool Heater - Submerged
• Pool Staining

• Classrooms, Office, & Restrooms – Standing Water
• Guard Room – Drywall & Flooring Removed, to be Replaced
• Rescue & Training Equipment
• Entire Facility to be Power Washed
POOL FACILITIES

Bellaire Family Aquatic Center Damage:

• Pools to be Drained and Acid Washed
• UV System - Submerged
• Pump Motors - Submerged
PARKS & RECREATION AREAS

**Parks Damage:**
- Debris Clean Up
- Irrigation Controls – Lafayette Park & Bellaire Family Aquatic Center
- Evelyn's’ Park Fountain to be Drained

**Recreation Damage:**
- Holiday Decorations to be Replaced
FACILITIES

City Hall/PD/Courts Damage:
• Door & Lock Adjustments – Building Shifting
• Drop Ceiling Frame and Tiles - Building Shifting
• Carpet Dried & Cleaned – Council Chambers & Building Official’s Office

Rec. Center/Library/CECC:
• Carpet Cleaning
FACILITIES

PW Trailer Damage:

• Flooring (Carpet/Tile) Replaced
• Crawlspace Insulation Removed, to be Replaced
WASTEWATER TREATMENT PLANT

Minor Damage/Operable:

• Return Activated Sludge (RAS) Pump 2
  • Motor Damage
• RAS Electrical
  • Variable Frequency Drives (VFD) Not Working
• Main Lift Station
  • Pumps 3 & 4 VFD Shorted Out
  • Lift Station Running on Backup

• Digester Blowers Electrical
  • Operable, being Investigated, Electrical Cabinet and Controls Submerged
• Wendell Lift Station
  • Cradlepoint
    • Power Supply Being Replaced
  • Electrical
    • Cabinet Partially Submerged
WASTEWATER TREATMENT PLANT

Not Operable:

- Main Lift Station - Lift Pumps 3 & 4
- Aeration Basin – Blowers 1 & 2
- Digester – Blower 2
- Non-Potable Water System – Automated Controls
- Wendel Lift Station – PLC Power Supply
- Belt Press
  - Sludge Pumps 1, 2, & 3
  - Polymer Feed Pumps 1 & 2
  - Both Belt Press Motors
  - Top & Bottom Belts
  - Electrical
VEHICLE/EQUIPMENT DAMAGE

Parks Recreation & Facilities:
• Flooded:
  • Pick Ups – 3

Public Works:
• To Be Replaced:
  • Pick Ups – 15
  • Asphalt Patching Trailer – 1
  • Jet Truck – 1
  • Utility Trailer – 2
  • Garbage Truck – 1
  • Dump Truck – 1

Public Works:
• Reparable/Now Operable:
  • Limb Loader – 2
  • Garbage Truck – 1
  • Hydro Vac Trailer – 1
  • Pump Master Trailer – 1

Fire:
• Reparable/Now Operable:
  • Highwater Rescue Vehicle – 1
FLOOD PERMIT PROCESS
How to Apply for Flood Repairs Permit

- Complete the Residential Building Permit Application
- Print the HCAD page for your home
- Secure a scope of work or bid for the repairs.
- Submit to the City in person (Monday – Friday 8:30 – 4:00) or via email (inspections@bellairetx.gov)

Flood Permit Assessment Process Flow
IF PROPERTY IS SUBSTANTIALLY DAMAGED

INDIVIDUAL ASSISTANCE

• Insurance Policy
• Increased Cost Compliance (ICC) coverage
  • City of Bellaire Substantial Damage Declaration
    • Eligibility not dependent on insurance coverage
  • Primary Residence
  • Owned by Applicant
• Small Business Administration (SBA) loans
IF PROPERTY IS SUBSTANTIALLY DAMAGED

PUBLIC ASSISTANCE (GRANTS)

ELEVATION AND BUYOUT

• Flood Mitigation Assistance (FMA)
  • Nationally competitive program (annual)
  • Applied in 2016, applicants did not meet the Benefit Cost Ratio (BCR) (Elevation)

• Hazard Mitigation Grant Program (HMGP)
  • Available after Presidentially Declared Disasters
  • Applied in 2015 for elevations, applicants did not meet FEMA requirements
IF PROPERTY IS SUBSTANTIALLY DAMAGED

Bring the home into Compliance....

Elevate Home

• Hire a contractor to raise home into compliance, or

Demo Home Rebuild New

• Build a new elevated home, or

Sell Home

• While a permit will not be issued to anyone without compliance, someone may wish to buy and build new, or...
IF PROPERTY IS SUBSTANTIALLY DAMAGED

Bring the home into Compliance....

Postpone Above Actions

• Must prevent home from any city code and/or sub-standard home violations.

The City will only enforce Compliance, how and when is solely up to the homeowner.
The work will occur between 7:00 AM and 7:00 PM, seven days per week until complete.

It is expected that the clean up will last approximately 6 weeks.

Residents should separate regular solid waste from the storm related debris to facilitate collection of each.

Household Hazardous Waste (HHW) like paint, fuel, chemicals, etc. will be picked up but not with the first pass.

Appliances will be picked up in subsequent passes as well.

The contractor is working to limit damage to yards.

Yards damaged by debris removal equipment will be graded at the end of the debris removal operation, however sod will not be provided.
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<th><strong>HARVEY RESPONSE TEAMS</strong></th>
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<td>3. City Facilities/Equipment + Damage</td>
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<td>8. Debrief and what we need to do better</td>
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<td>9. Debris Removal</td>
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OUR FLOOD PREVENTION EFFORTS

LOCAL

REGULATORY

REGIONAL