#HOUSTONSTRONG

Houston is getting back to business.

houstonrecovers.org
The land area of all these cities COMBINED would fit within our land area.

Houston Area: 650 Sq. Miles
HOUSTON PUBLIC WORKS

- 3,900 employees
- 60,000 manholes
- 146 billion gallons of water treated per year
- 16,000 lane miles of streets
- 2,450 traffic signals
- $2.3 billion budget
by the numbers
HURRICANE HARVEY

- 8 MILLION people live in areas affected by Harvey.
- 52 inches of rain.
- 14 trillion gallons of water.
- 10% impact to US fuel production.
- $61 billion identified need.
HOUSTON PUBLIC WORKS

RESPONSE

RECOVERY

RESILIENCY

RENEWAL
RESCUES

Houston Public Works provided high water rescues alongside Houston Police & Houston Fire

Utilized high water rescue vehicles & boats

Assisted in 1,500 rescues

Delivered food for coworkers & families
RESCUES
DRINKING WATER OPERATIONS

Houston Public Works maintained the operations of water & wastewater treatment plants.

Northeast Water Purification Plant
SOCIAL MEDIA

Multiple Erroneous Posts throughout the Storm
WASTEWATER OPERATIONS

Turkey Creek Wastewater Treatment Plant

- 382 lift stations
- 39 wastewater treatment plants
- 18 wastewater plants flooded
TRAFFIC AND MOBILITY

~100 signal cabinets flooded
bridge decks underwater
mobility impacts lasted weeks
RECOVERY

debris removal

home and business repairs
DEBRIS REMOVAL

Houston Public Works crews assigned through December
PRIORITIES

storm repairs

schools, day cares

communication to community (brochures, web postings)

damage assessments
ASSESS DAMAGES
CAVE-INS + SINKHOLES

15100 Memorial

2452 Rankin Road
RESILIENCY

this is an opportunity
(Source: data from National Research Council, 2013, and the NFIP, 2013 as modified from USACE)
FLOOD RISK MANAGEMENT

- common definition of flood risk
- defined roles and responsibilities
- balance of structural and non-structural
- informed land use decisions
- long-term, reliable funding mechanisms
- ability to adapt to changing conditions
BUILDING CODE EVALUATIONS

- floodplain requirements
- Non-floodplain requirements
- foundation requirements
- infrastructure design
- impervious grandfathering
RESILIENCY FUNDING

repair as-is limitations
accelerate regional projects
recapture riparian zones
limitations of voluntary grant programs
ability to adapt to changing conditions
WASTEWATER TREATMENT STRATEGY

West District Treatment Plant
our future is not yet defined
THANK YOU

questions?