Hurricane Harvey 2017
9/15/2017 – 0700 CDT Update

EXECUTIVE SUMMARY

- Joint EPA and TCEQ field observation teams will observe debris staging and landfill operations within the hurricane impacted counties in Texas to ensure best practices and program requirements are being met. The state estimates debris to total 200 million cubic yards. Observations began in Houston on September 14, 2017; observations will begin in Corpus Christi on September 18, 2017. A federal Debris Management Taskforce has been established at the JFO in Austin and EPA is a member of the Taskforce.

- Drinking water and wastewater assessment teams completed their emergency assessments of community water systems and will demobilize today, September 15, 2017. A total of 625 drinking water and 441 wastewater assessments were performed. Of the 2,022 systems designated for follow up, EPA's collaborative work with the state has ensured the return of 1,945 community water systems to fully operational status. These systems cover 99% of the population in the greater Houston area (7.23 out of 7.26 million served). The remaining system restorations and lifting of boil water notices oversight will be transitioned to the TCEQ regional offices.

- EPA completed sampling of all 34 Texas Superfund sites potentially impacted by the storm. Sampling at the 9 Louisiana Superfund sites will be completed today, September 15, 2017. EPA began releasing post-hurricane Superfund site summaries based on preliminary data. Highland Acid Pits, United Creosote, Conroe Creosoting, Tex Tin, Sheridan Disposal Services and Brio Refining all show post-hurricane conditions to be consistent with conditions prior to the storm.

- EPA's dive team will collect samples at the San Jacinto Waste Pits Superfund site today to ensure the temporary cap of the site did not release contaminants. The responsible party continues to repair the armored layer of the cap.

- EPA contacted the Texas Department of Public Safety to encourage them to work with the counties that are providing private water well bacterial analysis free of charge to seek potential reimbursement for these cost from the FEMA Public Assistance Program.

- EPA has concluded that the probable source of benzene and volatile organic compound readings in the Manchester community in Houston was the roof failure and spill from a light crude storage tank at the Valero Houston Refinery during Hurricane Harvey. EPA

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conducted a facility RMP inspection and issued a 114 information request to Valero yesterday.

- TAGA conducted air monitoring assessments of three facilities near Deer Park that have claimed force majeure under existing consent decrees due to damage from Hurricane Harvey. Today TAGA will assess four facilities near Baytown, Texas.

- All three branches of Unified Command are recovering and staging orphan containers for proper disposal. The Corpus Christi Branch expects to complete activities today, September 15, 2017, and transition the remaining open sites to the appropriate Regional Office for closeout. Containers on the staging pad will be transferred to Houston (Bravo) Branch within the next few days. The Port Arthur/Beaumont Branch is projected to complete recovery activities within 20 days and the Houston Branch within 30 days.

- Community Liaison teams continue to provide information regarding returning to flooded areas and handling of house-hold waste in Wharton, Harris, Jasper, Montgomery, Orange, Fort Bend, and Liberty.

- The issuance of a Recovery Mission Assignment to EPA has been placed on hold. The Region 6 Recovery Coordinator demobilized from the JFO yesterday, September 14, 2017

- The Texas Commission on Environmental Quality (TCEQ) is requesting the Federal Emergency Management Agency (FEMA) to increase EPA's ESF-10 Mission Assignment by $7.5 million in stages. Once fully approved, this will bring the total funding for assessment and response to $17.5 million

PUBLIC AFFAIRS

EPA issued a news release announcing that Administrator Pruitt approved a request from the State of Texas to continue to waive requirements for fuels in Texas through October 1, 2017.

Guidelines on Debris Management, a flyer designed for home owners, was distributed through social media and to congressional offices, industry, environmental justice and community contacts. The guidelines include directions on correctly separating debris and on locating debris curbside for pickup.

DEBRIS RECOVERY

Joint EPA and TCEQ field observation teams will perform observations of debris staging and landfill operations within the hurricane impacted counties in Texas to ensure best practices and program requirements are being met. Joint field observations started in the Houston area on September 14, 2017, with a focus on Harris County. Joint observations will begin in Corpus Christi area on September 18, 2017. A federal Debris Management Taskforce has been established at the FEMA JFO in Austin and EPA is a member of the Taskforce.

RECOVERY EFFORTS

The issuance of a Recovery Mission Assignment to EPA has been placed on hold. The Region 6 Recovery Coordinator demobilized from the JFO yesterday, September 14, 2017.

VECTOR CONTROL

Department of Defense (DOD) conducted spray operations in Jefferson, Chambers and Brazoria counties on September 13, 2017, and were scheduled to spray Harris, Liberty, and Brazoria on the evening of September 14, 2017. Since September 9, 2017, DOD has treated 853,147 acres.

The Texas Department of State Health Services (TX DSHS) contractor completed spray operations in Lavaca, Kleberg, Jim Wells, and Kennedy counties during the evening hours of September 13, 2017. The contractor was scheduled to conduct spray operation during the evening hours of September 14, 2017 in Aransas, Nueces, Refugio, San Patricio, Calhoun, and Jackson counties.

AIR MONITORING

On September 14, 2017, the TAGA conducted monitoring in areas around industrial facilities, including the Shell Deer Park Refinery, Shell Deer Park Chemical Plant, and Vopak Deer Park. Lyondell Basell. No readings were above the TCEQ Air Monitoring Comparison Values short-term screening levels.

EMERGENCY RESPONSE

Daily/Cumulative Summary of Hazard Evaluations/Recovery				
Status	**Opened**		**Closed**	
	9/14/2017	**Number of Targets Remaining Open**	**9/14/2017**	**Cumulative**
Corpus Christi Branch	5	5	3	97
Houston Branch	60	104	130	258
Port Arthur/Beaumont Branch	1	1	0	0
NRC Reports	42	45	21	67
TOTALS	**108**	**155**	**154**	**422**
Note: Open means the target is yet to be recovered. Closed means the target was recovered/left in place or access was denied to collect the item.				

Daily/Cumulative Summary of Spills/Discharges (NON-VESSELS)				
Status	**Opened**		**Closed**	
	9/14/17	**Number of Facilities/Spills Remaining Open**	**9/14/17**	**Cumulative**
Corpus Christi Branch	0	0	0	33
Houston Branch	0	7	1	71
Port Arthur/Beaumont Branch	1	10	1	13
NRC Reports	8	27	16	96
TOTALS	**9**	**44**	**18**	**213**

Note: Open means the target is yet to be recovered/cleaned up. Closed means the target was recovered/cleaned up by a Responsible Party or not found upon return to location.

FIELD RESPONSE ACTIVITIES

FIELD TEAMS ON 9/13/2017				
Teams	**Alpha**	**Bravo**	**Charlie**	**TOTAL**
Hazard Evaluation	1	1	2	4
Oil Discharge Assessment	2	5	1	8
ER/Orphan Container Recovery	1	17	3	21
Oil/Vessel Recovery	4	2	0	6
Staging Areas	1	1	1	3
Air Operations	0	1	0	1
Air Monitoring	0	1	0	1
Water Infrastructure Assessment – Drinking Water	0	5	0	5
Water Infrastructure Assessment – Wastewater	0	6	0	6
TOTAL	9	39	7	55

Waste Received at All Staging Pads to Date					
	CONTAINERS				**TOTAL**
	Drums [55 gals]	**Small Containers [<55 gals]**	**Large Containers [>55 gals]**	**Cylinders**	
9/14/2017	26	38	0	5	69
TOTAL TO DATE	**268**	**170**	**17**	**62**	**517**

CORPUS CHRISTI BRANCH:

The Oil Discharge Assessment Teams monitored the successful salvaging of the Sabine Pass on San Jose Island. The vessel was able to get underway under its own power. The team continued to monitor the salvaging of the Signet Enterprise. The Team is monitoring the containment area surrounding the vessel. The responsible party contractors are pumping air into the ballast hold and fuel tanks in addition to staging lift equipment.

The Oil Discharge Recovery Teams coordinated and monitored Responsible Party led operations and prioritized threats to the environment for removal in Padre Island Canals, Flour Bluff Canals, Rincon Channel, Island Moorings, Conn Brown Harbor, Key Allegro, Rockport Harbor, Fulton Harbor, and Rattlesnake Bay.

HOUSTON BRANCH:

The Discharge Assessment Teams conducted facility site visits to verify cleanup efforts. The Discharge Recovery Teams assessed and cleared the Cayenne River for active pollution discharge.

Overflights were conducted to assess vessels in Highlands, Baytown, and Kemah for future removal.

The ER/Orphan Container Recovery Teams continue recovering targets in portions of Liberty, Harris, Brazoria, Galveston, and Montgomery counties.

PORT ARTHUR/BEAUMONT BRANCH:

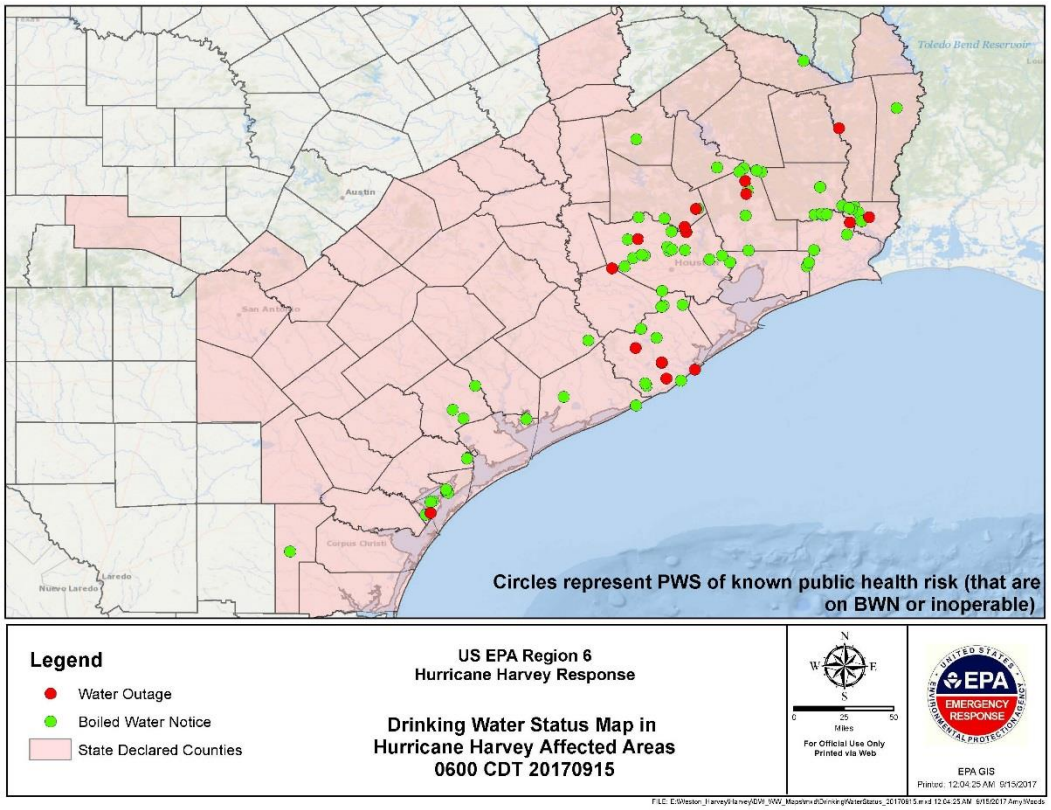
Hazard Evaluation teams conducted assessments of targets north if Interstate-10, the Sabine River, Collier's Ferry boat ramp on the Neches River, and at the Beaumont Yacht Club.

The Oil Discharge Assessment Team investigated reports from the National Response Center (NRC) at Pine Street in Port Neches, US-90 in Beaumont, and Azalea Street in Vidor. After exhaustive efforts, the Team did not locate any oil/hazmat and the NRC report was closed.

The Oil Container Recovery Team retrieved all containers from North Harbor Loop in lower Sabine River and all containers at these locations are now closed. The team retrieved previously identified containers from Cottage Lane in Bridge City. They were able to retrieve all containers from Old Highway at Baird's Bayou, Canary Street, and Martin Street.

DRINKING WATER / WASTEWATER ASSESSMENTS

Drinking Water and Wastewater Assessments (September 14, 2017)		
Assessment Types	**Daily Assessments**	**Total Assessments**
On-Site DW Assessments	51	625
On-Site WW Assessments	39	441
Phone DW Assessments	300	6754
Phone WW Assessments	27	4639


Toledo Bend Reservoir
Austin
Houston
San Antonio
Corpus Christi
Laredo
Nuevo Laredo
Circles represent PWS of known public health risk (that are on BWN or inoperable)
Legend
Water Outage
Boiled Water Notice
State Declared Counties
US EPA Region 6
Hurricane Harvey Response
Drinking Water Status Map in Hurricane Harvey Affected Areas
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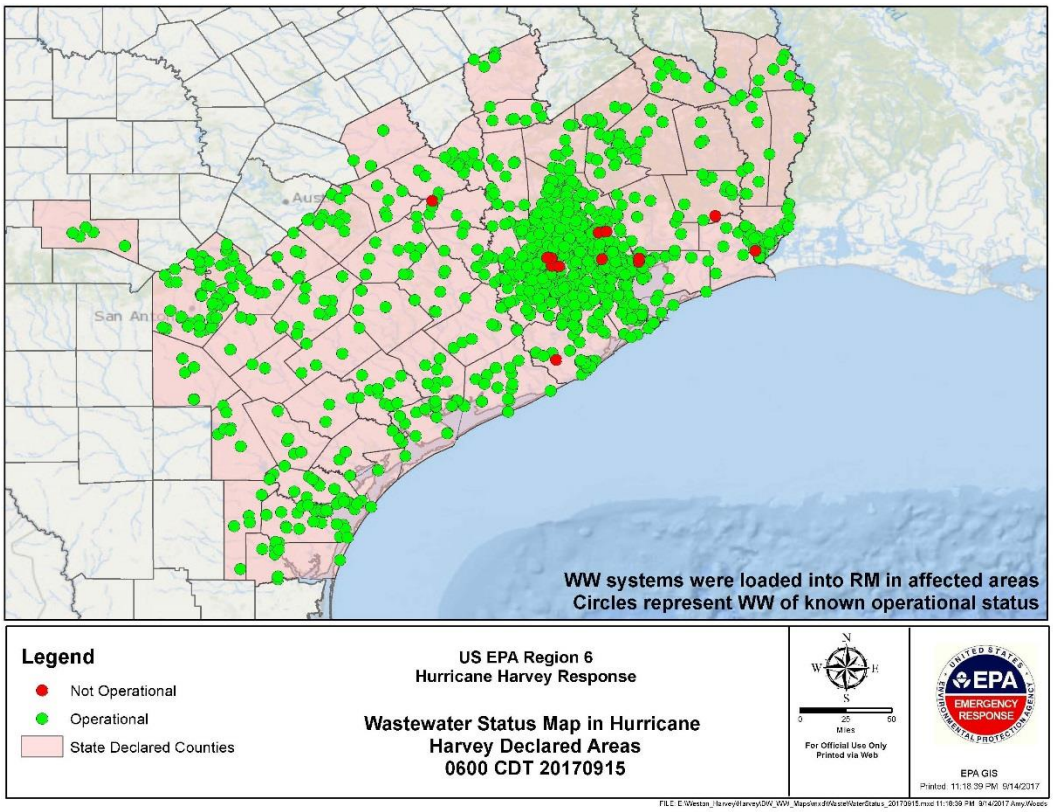
WW systems were loaded into RM in affected areas
Circles represent WW of known operational status
Legend
Not Operational
Operational
State Declared Counties
US EPA Region 6
Hurricane Harvey Response
Wastewater Status Map in Hurricane Harvey Declared Areas
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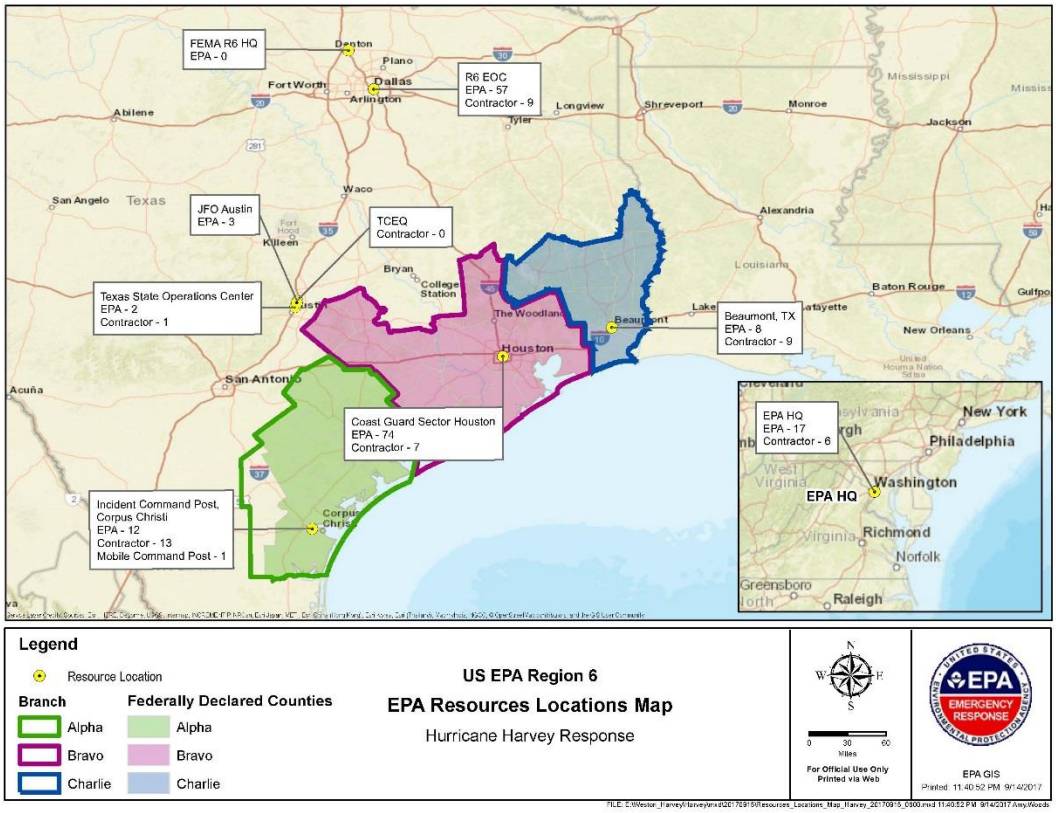
EPA RESOURCES

Personnel	EPA Dallas, TX	FEMA Denton, TX	Texas JFO Austin, TX	Texas SOC Austin, TX	TCEQ Austin, TX	Houston, TX	Corpus Christi, TX	Beaumont, TX	HQ EOC, Wash, DC	TOTAL
EPA	57	0	3	2	0	74	13	8	17	174
START	9			1	0	7	13	9		39
ERRS						27	4	11		42
Other Contractors	1								6	7
TOTAL	67	0	3	3	0	108	30	28	23	262



FUNDING

SitRep
September 14, 2017, UPDATED 1300 hours

Funding Sources	Funding Ceiling	Funding Ceiling Less Indirect	Obligated to Date	Estimated Spent to Date	Unobligated Dollars Remaining	Estimated Unspent Dollars Remaining	Daily Burn Rate	Days Remaining
Non Mission Assignment	N/A			$64,200.00	$0.00	$0.00		
MA 4332DR-TX-EPA-01	$275,000.00	$242,741.00	$41,904.00	$41,904.00	$200,837.00	$200,837.00	$3,664.00	54.81
MA 4332DR-TX-EPA-03	$10,092,000.00	$8,908,113.00	$7,256,731.61	$5,595,958.84	$1,651,381.39	$3,312,154.16	$324,857.33	see below
Totals:	$10,367,000.00	$9,150,854.00	$7,298,635.61	$5,702,062.84	$1,852,218.39	$3,448,791.16		
Days remaining based on authorized direct ceiling minus total payroll, travel, and contracts EXPENDED								**10.20**
Days Remaining based on authorized ceiling minus total payroll, travel, and contract OBLIGATIONS								**5.70**

** The indirect cost pool consists of all costs classified as indirect for all appropriations that fund administrative, management and support functions.

NOTE: This report includes estimated cumulative costs of the HQ EOC charging under MA#03 (09/13/17)

REFINERIES / FUEL WAIVERS

- EPA extended the multi-state fuel waiver to October 1, 2017.
- EPA has granted all open fuel waivers requested to date.
- On September 13, 2017, EPA issued a waiver of certain requirements of the Clean Air Act:
    - The Texas Low Emission Diesel (TxLED) requirements was waived in all TxLED Counties to minimize or prevent problems with the supply of TxLED. The EPA will allow regulated parties to use federally compliant 15 part per million Ultra Low Sulfur Diesel (ULSD) in a 110-county area of Texas. This waiver is effective immediately and will continue through October 1, 2017.
    - EPA is waiving the 7.8 psi Reid Vapor Pressure (RVP) standard that applies in Eastern Texas State Implementation Plan (SIP) RVP Counties until the end of the summer "high ozone" season on October 1, 2017. This waiver is effective immediately and will continue through October 1, 2017.
    - EPA is waiving the federal Reformulated Gasoline (RFG) requirements in Texas. Under this waiver, EPA will allow regulated parties to produce, sell or distribute conventional winter gasoline in any RFG covered area within Texas. This will also prohibit any person from combining any RFG BOB with any other gasoline, blendstock, or oxygenate, unless certain conditions are met.
- EPA has issued a No Action Assurance for the Use of Vapor Recovery Systems in Texas Related to Hurricane Harvey (September 1, 2017). EPA will exercise its discretion not to pursue enforcement for violations of the vapor recovery requirements for fuel loading and unloading under 40 CFR Part 60 Subpart XX and Part 63 Subparts, R, Y, CC, BBBBBB, and 30 Texas Administrative Code sections 115.212, .214.
- The Internal Revenue Service red dye fuel waiver covers the entire state of Texas

FEDERAL SUPERFUND NPL SITES - (These activities are being done concurrently but outside of the current Mission Assignment)

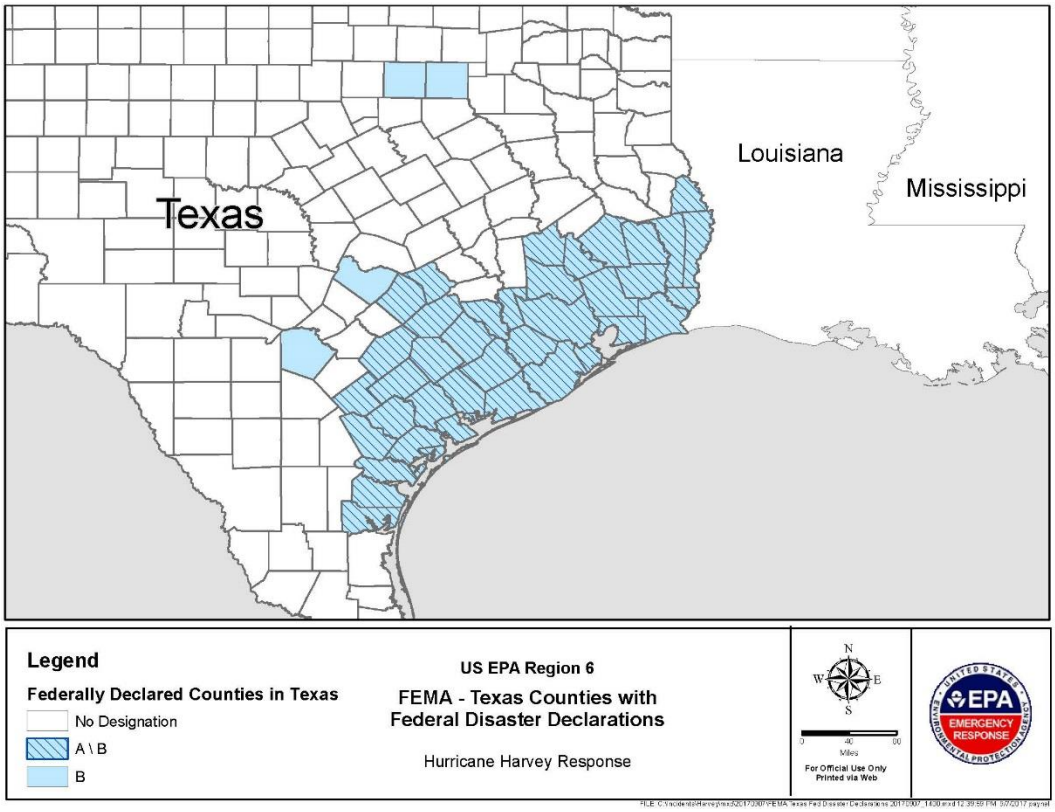
- EPA either directed potentially responsible parties (PRPs), or independently, began collecting samples at 34 Texas Superfund Sites and 9 Louisiana Sites to confirm no releases due to storm impacts. Six EPA field teams, along with PRPs, have completed sampling at 42 sites. The sampling is part of a longer term assessment that will be used to transition sites back to normal cleanup operations. On September 14, 2017, teams completed all sampling in Texas and Louisiana, except one site in Louisiana that will be sampled September 15, 2017. Preliminary un-validated results for sites located in Texas are expected by September 16, 2017 and for the sites located in Louisiana by September 18, 2017.

- All 43 Federal Superfund NPL Sites in the hurricane affected area have been assessed. Of these, 41 sites have been cleared and two sites (San Jacinto Waste Pits and U.S. Oil Recovery) are undergoing additional follow-up as follows:

    - U.S. Oil Recovery Update: Since the time the pump down operations began, after the hurricane landfall, a total of 63 truckloads of storm water (approximately 315,000 gallons) have been removed from the Site.

    - San Jacinto Waste Pits Update: The EPA and the responsible party continue to develop a sample plan for areas identified as missing armor stone. Rock placement and cap repairs above water are complete. The underwater cap areas missing armor stone will be repaired following the EPA Dive Team's assessment and sampling work. Installation of temporary fencing for site security is complete.

FEMA – TEXAS COUNTIES WITH DISASTER DECLARATIONS



Houston Branch
Orphan Container Staging

Houston Branch
Orphan Container Recovery