Hurricane Harvey 2017
9/18/2017 – 0700 CDT Update

EXECUTIVE SUMMARY

- United States Coast Guard Houston/Galveston Sector Capt. Oditt notified Unified Command that US Representative Culberson (7th District Texas) is expected to visit Houston command today. Dana Tulis, USCG Director of Incident Management and Preparedness Policy is expected to visit on Tuesday and US House of Representative Speaker Paul Ryan is expected to visit on Wednesday or Thursday.

- Joint EPA and Texas Commission on Environmental Quality (TCEQ) field observation teams continue to observe debris staging and landfill operations within the hurricane impacted counties in Texas to ensure best practices and program requirements are being met. Currently, FEMA estimates debris to total 16.5 million cubic yards. Observations began in Houston on September 14, 2017; observations will begin in Corpus Christi today, September 18, 2017. A federal Debris Management Taskforce has been established at the Joint Field Office (JFO) in Austin and EPA is a member of the Taskforce.

- Reconnaissance/Orphan container recovery activities are complete in the Corpus Christi Branch. The last container on the staging pad will be transferred to the Houston Branch today, September 18, 2017. The Corpus Christi Branch has transitioned all assessment and recovery operations to the TCEQ Regional Office and are closing this operation. EPA and TCEQ are preparing to send a transition/close out memo to the County Judge.

- The Houston and Port Arthur branches of Unified Command continue recovering and staging orphan containers for proper disposal. The Port Arthur/Beaumont Branch is transferring recovered containers and waste from the staging pad for disposal this week, and is projected to complete recovery activities within 5 days. The Houston Branch is projected to complete recovery activities within 10-20 days.

- A second TAGA air monitoring team is deploying today to conduct surveillance around facilities potentially impacted by Hurricane Harvey. TAGA Team 1 is relocating to Corpus Christi and plans to monitor the following facilities today: Formosa Plastics, Formosa Plastics Marine terminal, and INVISTA Victoria. TAGA Team 2 will be based in Port Arthur and will monitor the following facilities today: Flint Hills Port Arthur, Total Petrochemicals Port Arthur Refinery, Valero (Premcor) Port Arthur Refinery, Motiva Port Arthur Refinery, Oiltanking - Motiva Port Neches Terminal, Shell Pipeline - Crude Product, and Huntsman Petrochemical Port Neches Facility.

9959398

- EPA completed sampling of all 34 Texas Superfund sites potentially impacted by the storm, September 15, 2017. EPA has released 23 post-hurricane Superfund site summaries based on preliminary data on the www.epa.gov/hurricane-harvey website.

- Community Liaison teams continue to provide information regarding returning to flooded areas and handling of house-hold waste in the counties of Aransas, San Patricio, Nueces, Wharton, Harris, Fort Bend, Beaumont, Port Arthur, Orange, Chambers, Matagorda, and Baytown. The teams are listening to concerns from the community, associated with the recovery effort, and transferring this information back to the JFO to the appropriate ESF contacts.

- The TCEQ is requesting FEMA to increase EPA's ESF-10 Mission Assignment by $8.3 million in stages. Once fully approved, this will bring the total funding for assessment and response to $18.3 million.

PUBLIC AFFAIRS

There are no new public affairs activities to report from Sunday, September 17, 2017**.**

EPA issued No Action Assurance Extensions to TCEQ on September 15, 2017, on Loading of Tank Fuel Trucks at Petroleum Distribution Terminals, Landing Roofs on Gasoline Storage Vessels, and the Use of Vapor Recovery Systems. The extensions were provided until September 22, 2017, at 11:59 PM CDT. The No Action Assurance letters are available to the public on www.epa.gov/hurricane-harvey .

DEBRIS RECOVERY

There is no new debris recovery information to report from Sunday, September 17, 2017.

Joint EPA and TCEQ field observation teams continue to observe debris staging and landfill operations within the hurricane impacted counties in Texas to ensure best practices and program requirements are being met. FEMA estimates debris to total 16.5 million cubic yards. Observations were completed at 81 sites in the Houston area as of September 15, 2017; observations will resume in the Houston Branch and begin in the Corpus Christi Branch today, September 18, 2017. A federal Debris Management Taskforce has been established at the JFO in Austin and EPA is a member of the Taskforce.

VECTOR CONTROL

There is no new vector control information to report from Sunday, September 17, 201**7.** DOD last reported having completed 50% of its mission-assigned spray operations.

AIR MONITORING

Two TAGA teams are now available for air monitoring operations. TAGA Team 1 completed monitoring of neighborhoods and areas around Dow Chemical Company, Valero, Marathon, and Blanchard Refinery facilities in Texas City, Texas on September 17, 2017. TAGA Team 1 also monitored Phillips 66 Sweeny Refinery, Chevron Phillips Sweeny Old Ocean, and Conoco Phillips San Bernard Terminal in Sweeny, Texas. No monitored readings at any of the Sweeny or Texas City facilities exceeded the TCEQ Air Monitoring Comparison Values short-term screening levels.

TAGA Team 1 will be operating out of the Corpus Christi Branch and Team 2 will be operating out of Port Arthur Branch starting today, September 18, 2017.

EMERGENCY RESPONSE

Daily/Cumulative Summary of Hazard Evaluations/Recovery				
Status	**Opened**		**Closed**	
	9/17/2017	**Number of Targets Remaining Open**	**9/17/2017**	**Cumulative**
Corpus Christi Branch	0	5	2	101
Houston Branch	0	8	29	378
Port Arthur/Beaumont Branch	0	13	9	117
NRC Reports	0	0	1	5
TOTALS	**0**	**26**	**41**	**601**
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. The daily columns in the 9/17/17 report were incorrectly titled 9/17/17 and should have been titled 9/16/17.				

Daily/Cumulative Summary of Spills/Discharges (NON-VESSELS)				
Status	**Opened**		**Closed**	
	9/17/17	**Number of Facilities/Spills Remaining Open**	**9/17/17**	**Cumulative**
Corpus Christi Branch	0	0	0	33
Houston Branch	0	1	0	77
Port Arthur/Beaumont Branch	0	6	1	19
NRC Reports	1	14	3	110
TOTALS	**1**	**21**	**4**	**239**
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. The daily columns in the 9/17/17 report were incorrectly titled 9/17/17 and should have been titled 9/16/17.				

FIELD TEAMS ON 9/17/2017				
Teams	**Alpha**	**Bravo**	**Charlie**	**TOTAL**
Hazard Evaluation	0	1	1	2
Oil Discharge Assessment	0	2	0	2
ER/Orphan Container Recovery	1	8	3	12
Oil/Vessel Recovery	4	0	0	4
Staging Areas	1	1	1	3
Air Operations	0	1	0	1
Air Monitoring	0	1	0	1
Water Infrastructure Assessment – Drinking Water*	0	0	0	0
Water Infrastructure Assessment – Wastewater*	0	0	0	0
TOTAL	6	14	5	25

Note: The date on the table in the 9/17/17 report was incorrectly labeled 9/17/17 and should have been labeled 9/16/17.
*Drinking Water and Waste Water Assessment Teams concluded operations on September 15, 2017 and will be removed from future reports

Waste Received at All Staging Pads to Date					
	CONTAINERS			**Cylinders**	**TOTAL**
	Drums [55 gals]	**Small Containers [<55 gals]**	**Large Containers [>55 gals]**		
9/17/2017	14	23	6	16	59
TOTAL TO DATE	**351**	**236**	**32**	**97**	**716**

Note: The daily row in the 9/17/17 report was incorrectly titled 9/17/17 and should have been titled 9/16/17.

CORPUS CHRISTI BRANCH:

The Oil/Vessel Discharge Recovery Teams continued to assess open targets and placed five removal notification placards on five vessels in Cove Harbor. Emergency Response, Orphan Container Recovery, and Staging Area operations were completed and the assigned teams were demobilized.

HOUSTON BRANCH:

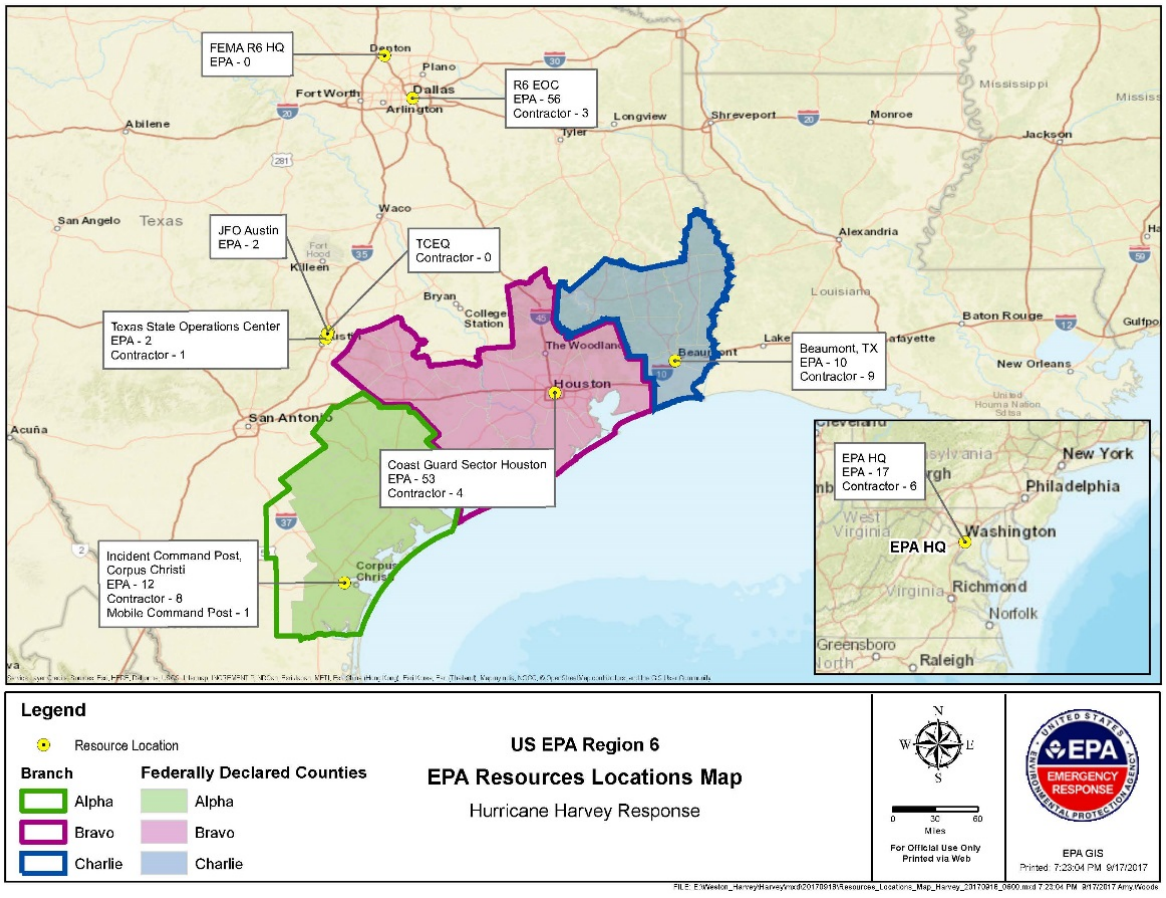
Air Operations Team conducted an overflight during which they cleared a 55-gallon container located in Bay City, Texas and identified two new sunken vessel targets in Dickinson Bayou.

PORT ARTHUR/BEAUMONT BRANCH:

Land Recovery Teams collected orphan containers in the Sour Lakes, Orange, Rose City, and Beaumont, Texas areas. The Water Recovery collected orphan containers assessed by air operation in the Neches River. A total of 26 containers were recovered by all Port Arthur/Beaumont teams yesterday.

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	56	0	2	2	0	53	13	10	17	153
START	3			1	0	4	8	9		25
ERRS						22	2	15		39
Other Contractors									6	6
TOTAL	59	0	2	3	0	79	23	34	23	223



FUNDING

September 17, 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	$54,464.00	$54,464.00	$188,277.00	$188,277.00	$4,064.00	46.33
MA 4332DR-TX-EPA-03	$10,092,000.00	$8,908,113.00	$8,278,374.41	$6,964,545.13	$629,738.59	$1,943,567.87	$293,273.53	see below
Totals:	$10,367,000.00	$9,150,854.00	$8,332,838.41	$7,083,209.13	$818,015.59	$2,067,644.87		
Days remaining based on authorized direct ceiling minus total payroll, travel, and contracts EXPENDED								**6.63**
Days Remaining based on authorized ceiling minus total payroll, travel, and contract OBLIGATIONS								**2.79**

** 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 (09/16/17)

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 43 sites. The sampling is part of a longer term assessment that will be used to transition sites back to normal cleanup operations. All preliminary un-validated results for sites located in Texas have been received. Preliminary un-validated results for the last three sites located in Louisiana are expected today.

- 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: No storm water was shipped on September 16, 2017. Since the time the pump down operations began, after hurricane landfall, a total of 64 truckloads of storm water (approximately 320,000 gallons) have been removed from the Site and disposed of in an off-site permitted facility. The PRP Group will monitor the lift station freeboard levels over the weekend and perform additional pump-downs if needed. Beginning today, September 18, 2017, the PRP Group is managing the site under normal operations and conditions. No further daily updates will be sent.

    - San Jacinto Waste Pits Update: The responsible party (RP) completed all manual probing activities of the cap on September 14, 2017. On September 15, 2017, the EPA Dive Team collected underwater sediment samples for dioxin/furan analysis in areas where gaps in the cap were found. The RP submitted, and EPA approved the cap repair work plan on September 15, 2017. The RP began maintenance work on September 16, 2017.

Photo Log

Corpus Christi Branch
Orphan Container Recovery
Aransas Pass

Port Arthur/Beaumont Branch
Orphan Container Recovery

Port Arthur/Beaumont Branch
Community Meeting