

Hurricane Harvey 2017
9/17/2017 – 0700 CDT Update

EXECUTIVE SUMMARY

- EPA issued a news release highlighting Administrator Scott Pruitt’s visit to Houston, Texas on September 15, 2017, to review the Agency’s response efforts in areas affected by Hurricane Harvey. Administrator Pruitt toured the San Jacinto Waste Pits Superfund Site and met with state and federal officials. Administrator Pruitt also participated in an aerial tour of additional Superfund Sites including Patrick Bayou, U.S. Oil Recovery, Highlands Acid Pits, French Unlimited, Brio Refining, and Dixie Oil Processors.
- 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. (This is revised from yesterday’s report which was a misunderstanding of what FEMA reported). Observations began in Houston on September 14, 2017; observations will begin in Corpus Christi tomorrow, 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.
- EPA completed sampling of all 34 Texas Superfund sites potentially impacted by the storm, September 15, 2017. EPA has released 15 post-hurricane Superfund site summaries based on preliminary data on the www.epa.gov/hurricane-harvey website.
- EPA's dive team finished collecting samples at the San Jacinto Waste Pits Superfund site on September 15, 2017 and demobilized from the site yesterday. Results of the analyses will be used to ensure the temporary cap of the site did not release contaminants. The responsible party continues to repair the armored layer of the cap.
- All three branches of Unified Command continue recovering and staging orphan containers for proper disposal. The Corpus Christi Branch is transitioning the remaining open sites to the appropriate TCEQ Regional Office for closeout. All containers on the staging pad will be transferred to the Houston Branch by September 18, 2017, before being shipped for disposal. The Port Arthur/Beaumont Branch is projected to complete recovery activities within 10 days, and the Houston Branch within 20 days.
- 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, Jasper, Newton, Montgomery, Fort Bend, Liberty, Brazoria, Galveston, Beaumont, Port Arthur, Jefferson, 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

- 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.

REFINERIES / FUEL WAIVERS

- The multi-state fuel waiver expired September 15, 2017.
- On September 13, 2017, EPA extended the waiver of certain requirements of the Clean Air Act for the State of Texas until October 1, 2017:
 - 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.
 - 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.
 - 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 issued a No Action Assurance for the Use of Vapor Recovery Systems in Texas Related to Hurricane Harvey on 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, BBBB, and 30 Texas Administrative Code sections 115.212, .214.
- The Internal Revenue Service red dye fuel waiver covers the entire state of Texas

- On September 15, 2017, a No Action Assurance was issued for the import of generators by the Yamaha Motor Corporation that will be donated to communities impacted by Hurricane Harvey in Texas and Hurricane Irma in Florida. The generators are currently labeled to meet Canada's requirements for sale with respect to emission information, not the United States', thus their import would be a violation of EPA's Clean Air Act. The generators will not emit air pollution above EPA standards, therefore, EPA will exercise its discretion not to pursue violations.

DEBRIS RECOVERY

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. (This is revised from yesterday's report). Observations were completed at 81 sites in the Houston area on September 14 & 15; 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.

VECTOR CONTROL

DOD has completed 50% of its mission-assigned spray operations. DOD was scheduled to continue spray operations in Harris, Liberty, and Montgomery counties last night, September 16, 2017. The Texas Department of State Health Services contractor was scheduled to spray Polk county last night.

AIR MONITORING

No monitoring was conducted by the TAGA on September 16, 2017. TAGA monitoring will resume on September 17, 2017 starting in Texas City and moving to Sweeny.

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	1	100
Houston Branch	1	32	35	354
Port Arthur/Beaumont Branch	1	21	18	108
NRC Reports	0	1	1	4
TOTALS	2	59	55	566

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	
	9/17/17	Number of Facilities/Spills Remaining Open	9/17/17	Cumulative
Corpus Christi Branch	0	0	0	33
Houston Branch	0	3	1	75
Port Arthur/Beaumont Branch	0	7	2	18
NRC Reports	5	18	1	106
TOTALS	5	28	4	232

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 9/17/2017				
Teams	Alpha	Bravo	Charlie	TOTAL
Hazard Evaluation	0	1	1	2
Oil Discharge Assessment	0	3	0	3
ER/Orphan Container Recovery	1	14	3	18
Oil/Vessel Recovery	5	0	0	5
Staging Areas	1	1	1	3
Air Operations	0	1	0	1
Air Monitoring	0	0	0	0
Water Infrastructure Assessment – Drinking Water	0	0	0	0
Water Infrastructure Assessment – Wastewater	0	0	0	0
TOTAL	7	20	5	32

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	24	22	7	13	66
TOTAL TO DATE	337	213	26	81	657

CORPUS CHRISTI BRANCH:

Orphaned containers were transferred from the Corpus Christi Branch to the staging area at the Houston Branch, where they will be prepared for disposal. From there, waste and containers will be shipped for disposal. One additional container was recovered September 16, 2017, and will be transferred to the Houston Branch today or Monday.

The Oil/Vessel Discharge Recovery Team continued salvage operations on the Signet Enterprise at Aransas Pass.

HOUSTON BRANCH:

The Oil Discharge Assessment Team conducted an assessment of a report from Harris County of a leaking orphan container in Tomball. The orphan container was found not leaking, was recovered, and taken to the staging area. The team also conducted booming operations around a disabled shrimp boat located in Dickinson's Bayou as a protective measure in case a discharge occurred from the vessel.

Orphan Container Recovery Teams recovered orphan containers and assessed sites in Fort Bend, Walker, Harris, and Montgomery Counties to determine what specialized equipment, personnel, and level of personal protective equipment will be required prior to physical recovery.

PORT ARTHUR/BEAUMONT BRANCH:

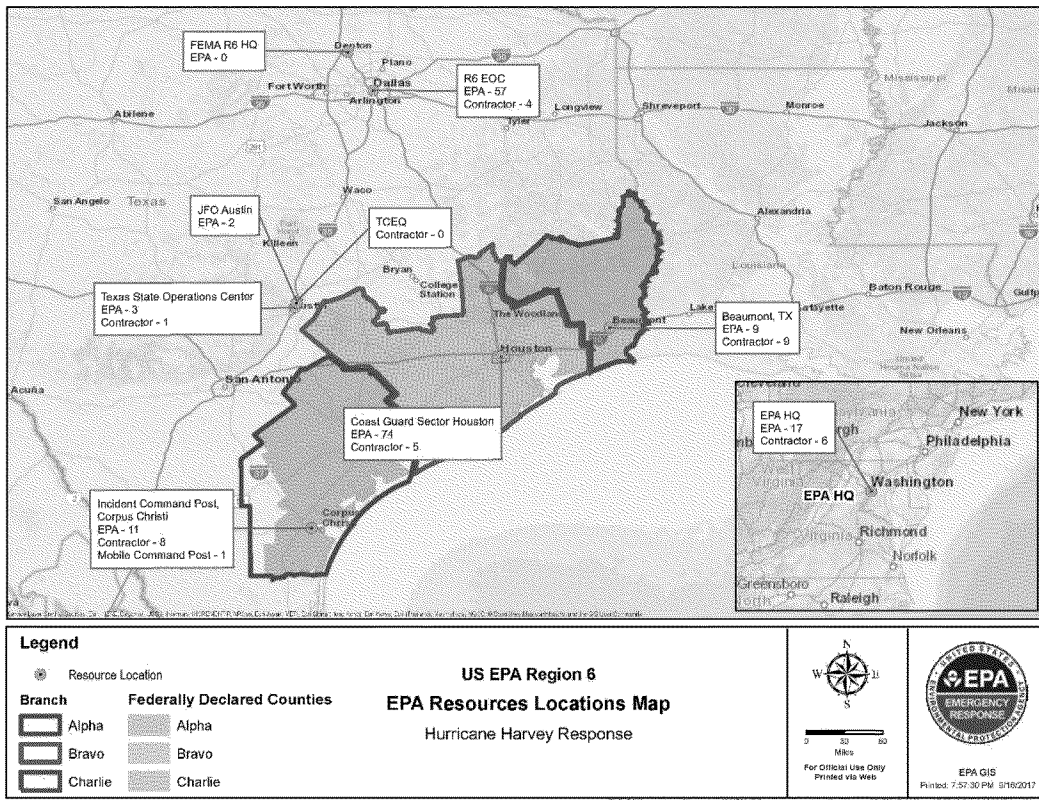
The Orphan Container Recovery Teams removed approximately 430 gallons of diesel from two tanks at Rose City Sand Corp in Vidor and recovered the tanks. The team also placed sorbent boom around the Display Train Engine in Port Arthur, Texas.

DRINKING WATER / WASTEWATER ASSESSMENTS

As of September 14, 2017, Drinking Water and Wastewater Assessment activities have been completed. The remaining systems have been transitioned to the Texas Commission on Environmental Quality (TCEQ) for completion.

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	2	3	0	74	12	9	17	174
START	4			1	0	5	8	9		27
ERRS						14	4	15		33
Other Contractors									6	6
TOTAL	61	0	2	4	0	93	24	33	23	240



FUNDING

SitRep

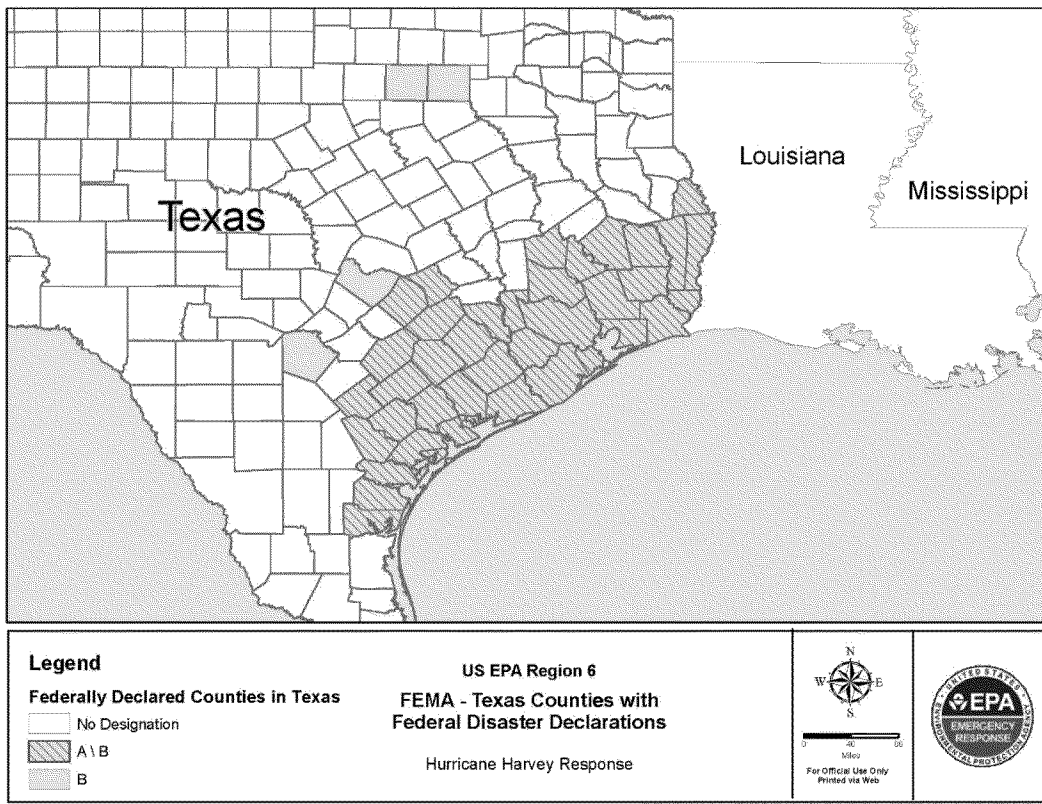
September 16, 2017, UPDATED 1300 hours

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	\$50,200.00	\$50,200.00	\$192,541.00	\$192,541.00	\$3,048.00	63.17
MA 4332DR-TX-EPA-03	\$10,092,000.00	\$8,908,113.00	\$8,137,792.41	\$6,730,804.89	\$770,320.59	\$2,177,308.11	\$315,344.53	see below
Totals:	\$10,367,000.00	\$9,150,854.00	\$8,187,992.41	\$6,845,204.89	\$962,861.59	\$2,305,649.11		
Days remaining based on authorized direct ceiling minus total payroll, travel, and contracts EXPENDED								6.90
Days Remaining based on authorized ceiling minus total payroll, travel, and contract OBLIGATIONS								3.05
** 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)								

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. Preliminary un-validated results for sites located in Texas are expected by today, September 17, 2017 and for the sites located in Louisiana by tomorrow.
- 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 Potentially Responsible Party Group will monitor the lift station freeboard levels over the weekend and perform additional pump-downs if needed.
 - 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. PRP submitted, and EPA approved the cap repair work plan on September 15, 2017. The RP began maintenance work on September 16, 2017.

FEMA – TEXAS COUNTIES WITH DISASTER DECLARATIONS



Photolog



**Corpus Christi
Container Recovery**



**Corpus Christi
Container Recovery**



Hurricane Harvey/Irma Policy Coordinating Committee
(Deputy EOC Manager)

Draft Incident Management Objectives

September 17, 2017

Objective 1: Ensure that health and safety of the EPA response is considered at all times.

Objective 2: Establish an incident management structure and processes employing the Incident Command System to enable effective overall management of the event with deployment of resources (staff and equipment) in a rapid, aggressive and well-coordinated manner.

Objective 3: Ensure prompt Review and Processing of Fuel Waiver requests.

Objective 4: Prepare for and provide Rapid Assessment of Industrial facilities as requested by the State or under EPA's statutory program responsibilities for CERCLA Superfund, RMP and FRP facilities. Working with our state partners, contact industrial sources within the impacted area to determine their operational status and determine what support can be provided with the monitoring of the start-up of industrial sources.

Objective 5: Prepare for and provide Rapid Assessment & Technical Assistance Drinking Water & Wastewater facilities as requested by the State or local government. EPA will support our state partners in contacting drinking water and waste water systems.

Objective 6: Prepare a Sustained Response Plan that outlines the resource and equipment needs for a long duration response.

Objective 7: Activate the Agency's Crisis Communication Plan to insure effective and efficient coordination of all incident communications.

Objective 8: Encourage a collaborative federalism approach, where national, state and local governments interact cooperatively and collectively to solve common problems.

Objective 9: Begin Agency internal and external coordination, under the National Disaster Recovery Framework, regarding Recovery Support Functions in which EPA is likely to be involved.



Hurricane Irma 2017

9/17/2017 – 1030 EDT Update

EXECUTIVE SUMMARY

- USVI -- power remains out on St. John and most of St. Thomas. Water, food and shelter remain primary concerns for the residents. Communications with and access to those islands remains difficult.
- Tropical Storm Maria is moving toward the west near 16 mph. A turn toward the west-northwest and a slower forward speed are expected during next couple of days. On the forecast track, the center of Maria will be near the Leeward Islands Monday or Monday night. Maximum sustained winds are near 50 mph with higher gusts. Strengthening is expected during the next 48 hours, and Maria is forecast to be a hurricane when it approaches the Leeward Islands. The track has it passing over the USVI and PR as a category 2 or 3 hurricane.
- With the approach of Tropical Storm Maria, FEMA has directed that responding agencies evacuate the USVI. All EPA personnel will be evacuating the USVI to the U.S. mainland. EPA is developing an evacuation plan and a communications plan to track the locations, contact information, rally points and communications schedule for evacuating personnel.
- After the storm passes and initial assessments are complete for storm impacts to PR and USVI, EPA personnel will be re-deployed from both PR and the U.S. mainland.
- In Puerto Rico, EPA will complete our assessment work and will provide technical assistance to the impacted communities. This work should be completed by 9/20 depending on the impact of Maria.
- Other Significant Concurrent Events. 72nd United Nations General Assembly is in session from 9/12-25/2017.

PUERTO RICO / U.S. VIRGIN ISLANDS CONDITIONS

US Virgin Islands (USVI):

- State of Emergency declared; National Guard activated.
- USVI public schools remain closed.

- The curfew on St. Thomas and St. John has been adjusted and is now effect from 6:00PM AST to 10:00AM AST
- SS WRIGHT scheduled to arrive at St Thomas on 9/17.
- Juan Luis Hospital in St. Croix, USVI is operational. Schneider Medical Center St. Thomas has catastrophic roof damage.
- Power Outages: St. John: 2,893 customers without power (100% power outage). St. Croix: 6,905 customers without power (31%). Virgin Islands Water and Power Authority (WAPA) announced that power restoration to St. Croix is expected within the coming days. St. Thomas: 19,574 customers without power (99% consumer outage)
- A number of gas stations are running on generator power for the public and government to fuel vehicles.
- St. Croix: Henry E. Rohlsen Airport & runway open & operational. American Airlines will resume operations on 9/16/17. St. Thomas: Cyril E King Airport accepting Military aircraft only. VIPA set opening date of 9/20/17 to resume commercial flights.
- 911 service restored for cell phone & landline. St. Croix 79.5% cellular service restored; St. Thomas 28.1% cellular service restored; St. John 10.0% cellular service restored.
- Public Transit in the USVI is not in operation at this time on STT and STJ. St Croix operations returning to normal fixed route service on a limited basis.
- As of 9/16/17, Ferry service from St Thomas to St John has not yet reopened.
- Water Island has ferry service from Crown Bay Marina depart at 1300, 1500, and 1800, for residents and emergency workers.

Puerto Rico (PR):

- State of Emergency remains in effect; National Guard activated.
- 38 schools remain closed due to lack of power, water, etc.
- All 67 hospitals are operational. No hospitals operating on generator back up.
- Power: 118,579 customers (7.91%) without electrical service of and 1,381,421 with service (92.09%). No new information since previous report.
- All airports are open.

- 911 service has been restored for cell phone & landline. 90% cellular service restored.
- Public Transit Systems: Metropolitan Bus Authority and First Transit systems are back to normal operations, but no service after 6:00 p.m. EDT. Ferries resumed service strictly for relief operations support to Culebra, with three vessels; full service resumed to Vieques.

PUBLIC AFFAIRS

The PIO is Elias Rodriguez, who can be reached at 212-637-3664. The Assistant PIO Emily Bender is Acting as PIO on Sunday 9/17/17. She can be reached at 617-918-1037. All press inquiries are directed to him/her, and coordinated through OPA.

PAD continues to maintain a public facing EPA Response web site at: www.epa.gov/hurricane-irma. We continue to post for and support Region 4 content along with our own content and it seems to be going well. PAD and the PIO are coordinating with ERT and Region 4 on an Irma story map.

We continue to provide all Region 2 staff with relevant Irma news clips and EPA news releases.

The web site was refreshed with some new summary info in the profile To view the web page and photos with captions visit www.epa.gov/hurricane-irma. This web site is being managed jointly by R2 and R4. Headquarters Tweeted a photo of a R2 assessment team inspecting a fixed facility in Fajardo, PR

On-the-ground operations and CIC efforts are being temporarily suspended as teams prepare for Tropical Storm Maria. We are beginning to prepare for CIC support needs following Maria. We anticipate future deployments Puerto Rico post Maria, and will begin making tentative plans to prepare for that.

Community Involvement: Two CICs are deployed in PR with the fixed facilities assessment teams. Two CICs are deployed in the USVI the with the fixed facilities assessment teams and are supporting STT ops. One of the CICs visited the VITEMA information and coordination hub on STT.

Region 2 – Hurricane Irma Management Objectives

- Protect the health and safety of EPA employees pre-deploying and/or responding to the storm aftermath.
- Integrate EPA response assets with federal, state and local response structures.
- Minimize social, political, and economic adverse impacts.
- Keep the public, stakeholders and the media informed of response activities.
- Protect communities from incident hazards.
- Keep communities informed of incident hazards and clean up progress.

- Maintain communication and briefing schedule with R2 senior executives and EPA Headquarters. Support a consistent communications approach agency-wide, enabling EPA to act and speak in unison during these incidents.
- Provide situation reports and other information on schedule provided by RIC.
- Assess condition of all Superfund NPL and removal sites, and facilities regulated under the various EPA authorities.
- Identify/assess vulnerabilities at regulated facilities.
- Address immediate hazardous substance releases or oil spills resulting from the storm's impact.
- Assist state and local agencies in ensuring safety of drinking water systems.
- Monitor air quality when/if necessary in response to conditions on the ground.
- Provide guidance for length of work day and deployments as it pertains to this specific event.
- Coordinate logistics with deployed personnel to provide transportation options, lodging, security, ground transportation on site.
- Coordinate national resources to assist the Region.
- Identify clearly defined roles for both Regions and Headquarters.
- The response will use the Region's incident specific Data Management Plan (DMP).
- In collecting, sharing, and analyzing environmental data, EPA will give primacy to data with potential human health consequences.
- EPA will work to ensure that its decision-makers have access to the data and expertise they need to make decisions based on sound science.
- Identify long-term recovery objectives the Agency may be requested to support, and determine resources needed to support/sustain those requests to accomplish the objectives

DEBRIS RECOVERY

U.S. Army Corps of Engineers and EPA debris team deployed in the USVI. Debris assessments continue. Six debris staging sites have been tentatively identified in St. Thomas, however the locations continue to remain fluid and are subject to change. Coordination centers are developing a list of potential staging locations on St. John. EPA has been asked to develop resource needs that can support this mission.

AIR MONITORING

No air monitoring activities.

EMERGENCY RESPONSE

Daily/Cumulative Summary of Hazard Evaluations/Recovery				
Status	Opened		Closed	
	9/16/2017	Cumulative	9/16/2017	Cumulative
Puerto Rico	0	0	0	0
U.S. Virgin Islands	1	2	0	0

Note: Open means that 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 facilities on the USVI are associated with the request for mold assessment of the STT airport tower and the current oil spill at Total.

Daily/Cumulative Summary of Spills/Discharges				
Status	Opened		Closed	
	9/16/2017	Cumulative	9/16/2017	Cumulative
Puerto Rico	1	2	1	2
U.S. Virgin Islands	0	1	0	1

SUPERFUND NPL, SUPERFUND REMOVAL, AND OIL REMOVAL SITES

EPA assessment teams have completed their assessments of Superfund and oil sites in Puerto Rico and in the U.S Virgin Islands with the exception of the below sites. The two remaining sites are oil sites. Guayanilla Bay, PR is a sub-surface oil plume that has discharged oil through a storm sewer line in the past. The storm sewer has been secured as part of the original response. No oil spills have been reported from this site, but an in-person inspection is planned for 9/18. The Cruz Bay Oil Tank site in St. John, USVI, involves an oil storage tank where the oil has been removed with the exception of oil sludge in the bottom of the tank. The tank was damaged during the storm but overflights of the area have not shown any oil spills from the site. EPA is working with FEMA and the U.S. Navy to gain access to the site to pump the tank to provide more capacity for future rainfall. The remaining oil in the tank bottom will be removed and the tank dismantled once access to St. John is improved.

SUPERFUND SITES (NPL, Removal and Oil)						
PUERTO RICO						
Site	Type	Phase 1	Phase 2		Phase 3	All Phases Completed
		Post-Storm Assessment	Site Inspection Needed	Inspected	Additional Response Action	
Guayanilla Bay Oil Spill*	Oil Response	-----	No	N/A	No	-----
U.S. VIRGIN ISLANDS						
Cruz Bay Oil Tank**	Oil Response	09/11/17	Yes	video	No	-----

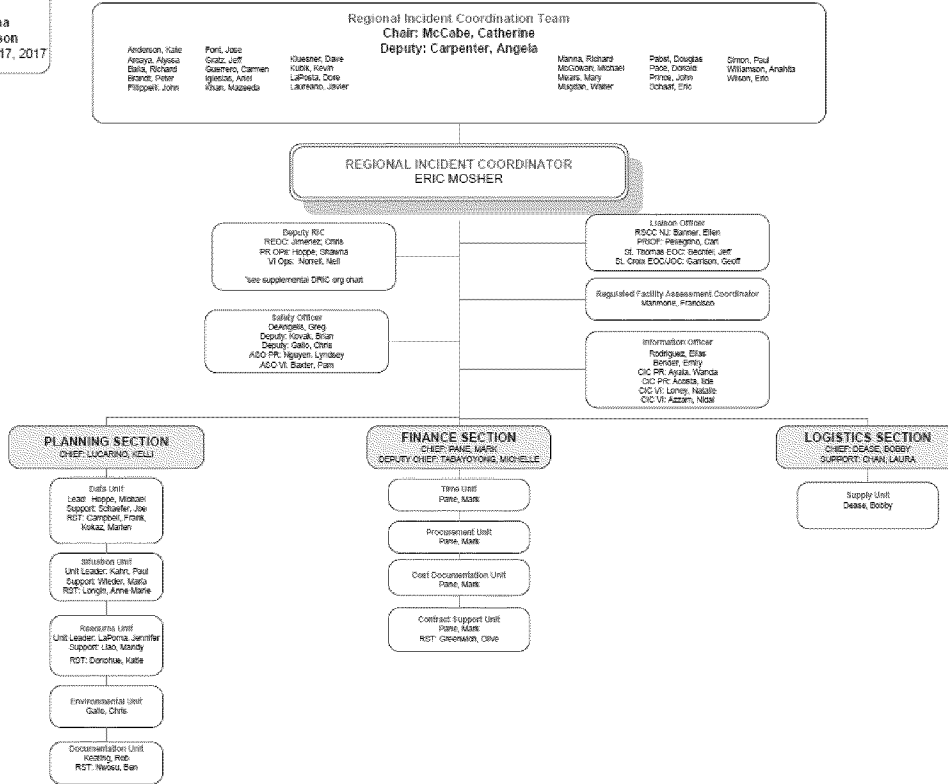
*Guayanilla Bay Oil Spill is a pre-storm OPA remediation site being addressed by an OSC.

**Cruz Bay Oil Tank is a pre-storm OPA remediation site being addressed by an OSC. Recent amateur video shows this tank has partially collapsed onto itself, but there was no release because the contents are semi-solid.

REGION 2 RESPONSE ORGANIZATION (ICS 207)

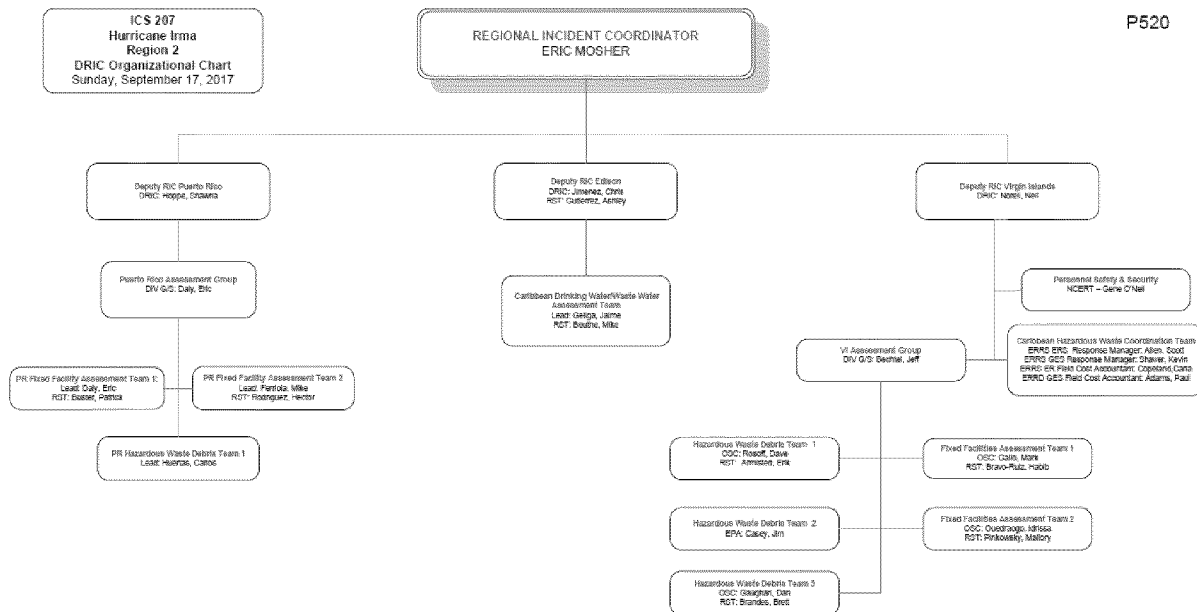
P520

ICS 207
Hurricane Irma
Region 2 - Edison
Sunday, September 17, 2017



ICS 207
Hurricane Irma
Region 2
DRIC Organizational Chart
Sunday, September 17, 2017

P520



FIELD RESPONSE ACTIVITIES

PUERTO RICO

- FEMA indicates that no household hazardous waste mission request was made or is anticipated to be made from PREMA. There have been no requests from any of the municipalities and no reports of any hazardous debris. The Commonwealth expressed confidence that any hazardous debris issues could be handled at the Commonwealth level. EPA has confirmed this issue with 7 of the 12 declared municipalities. EPA is planning to meet with the officials in Luquillo, Juncos, and Patilla on 9/18, and then Carolina and Guayabo on 9/19 depending on weather. This would complete all the currently declared areas.
- EPA assessments have not observed any hazardous material (debris or HHW) issues connected to Irma impacts. USACE reports that all they have seen is vegetative debris which is to be addressed by the municipalities.
- FEMA wants all ESFs to remain through at least 9/17, until they have a better forecast on Tropical Storm Maria.
- Puerto Rico Fixed Facility Assessment Teams (FFATs) conducted assessments at 5 SPCC regulated facilities since the previous reporting period. For these facilities there was no significant impact from Hurricane Irma reported by facility contacts or observed by the teams. Some facilities have compromised security mostly due to downed fencing and surveillance camera damage.
- FFAT1 went to PRASA Bayamon Waste Water Treatment Plant on 09/16 to follow-up on a chlorine release that occurred at 0130 hours on 09/16. The team was notified of the release by the R2 REOC based on an NRC Hotline report. The incident was not related to Hurricane Irma damage. A regulator had a seal leak, the alarms sounded, and the facility personnel were able to remove the cylinder out of service. No injuries or exposures occurred. The amount of the release was estimated by facility personnel to be less than 5 pounds. Standby Personnel were on-site at the time of the release due to Hurricane Irma awareness. Eleven of 12 chlorine tanks are currently in-service. All alarms and monitors are working properly. This facility (FRS #: 110002151983) was assessed by PDA Team 2 on 09/12 and there was no impact from Hurricane Irma.
- The FFATs assessed 3 federally regulated facilities during this reporting period. There was no significant impact from Hurricane Irma reported by facility contacts or observed by the assessment teams. Some facilities have compromised security mostly due to downed fencing and surveillance camera damage.
- The Fixed Facilities Assessment Team Lead continues communication with PRASA personnel and requested feedback from PRASA island-wide in regard to impact. Real time information on the status of their impacted facilities may be available in the future.

U.S. VIRGIN ISLANDS

- EPA sent five Fixed Facility Damage Assessment Teams to STT via a FEMA charter. Functional time on STT was six hours.
- EPA and RST checked into six hotel rooms on St. Thomas. EPA and RST maintain rental vehicles on STT (5 OSC, 5 CID 3 ERRS and 1 RST) staged at the airport for STT travel.
- EPA informed USACE that they would not need an EPA permit to incinerate vegetative debris at the Body Slob staging area on STX. USACE is evaluating both grinding and curtain burn options.
- EPA staffed the EOC/JOC on STX. EPA met with DPNR and VIWMA at the VITEMA EOC on STT.
- EPA discussed with DPNR the drinking water station sampling to be done by EPA/DPNR personnel. The bacteriological lab on STT has obtained a generator and will be on line to accept drinking water samples for choliform analyses.
- EPA discussed with VIWMA the setup of a staging area at Bovoni landfill to address the oils and HHW presently staged there.
- EPA conducted fourteen listed STT/STJ facility inspections and one facility not on the list.
- EPA visited the pesticide storage building for the VIDOH environmental unit on STT. Although the facility was closed for the weekend EPA observed at least two drums thru the window which may contain pesticides. The building roof and windows are damaged. EPA has conducted two CERCLA removal actions at this facility previously. A follow up visit will be scheduled.
- EPA gave ERRS a tour of the proposed debris collection sites. No activity at these sites pending a contract award by USACE.
- EPA toured the Bovoni HHW/oil collection area. Numerous five gallon pails of oil, some without lids, were outside the gate along with several dozen unmarked containers. Drums of oil were observed inside the fence.
- A 55-gallon drum labeled "methanol" approximately 50% full was identified at the Bertha Boschulte Middle School in the Bovoni Area of STT. Air monitoring was conducted with a Multi-Rae and no elevated readings were detected. The Principal of the school was present but had no knowledge of the origins of the drum. EPA will

follow up on the removal of the drum once hazardous waste staging area is ready to receive materials.

- While en route on STT, an EPA assessment team noted an unmarked tote containing a blue liquid at the Heavy Materials facility. The tote appeared to be in good condition, and it was observed that Diesel fuel and propane were also present. All storage containers appeared in good condition. Facility personnel were not present at the time.
- EPA continues to check-in daily at the VITEMA EOC on STT, in addition to maintaining communication with the USCG. The USCG has deployed boom in the vicinity of damaged/sunken marine vessels in efforts to prevent further impacts from any oil/gasoline discharges. EPA is assisting with USCG on developing a plan for the future collection of batteries and fuel from private marine vessels. USCG will be establishing a command center in STT and have requested EPA representation.

REGION 2 REGIONAL EMERGENCY OPERATIONS CENTER (REOC)

- Developing evacuation plan for the USVI. The evacuation plan will track the location, contact information, rally points and communications schedule for evacuating personnel.
- REOC to develop re-deployment plan once Maria passes and initial storm impacts are known.

The table below displays the teams that have been deployed based on the assessment results in Puerto Rico or the USVI.

Quantity and Types of Teams Deployed 9/15/2017		
Team Type	Puerto Rico	U.S. Virgin Islands
Assessment Team – All Missions	3	4
Water Assessment	2	0
Hazard Evaluation	2	0
Oil Discharge Assessment	0	0
Container Recovery	0	0
Oil Recovery	0	0
ER/Recovery	0	0
Air Operations	0	0
Contaminated Debris	0	1
Operation Centers (REOC), PREOC, VITEMA, PR IOF, VI IOF	3	2

PUERTO RICO

	CONTAINERS			TOTAL
	Drums (55 Gals)	Large Containers (<55 gals)	Large Containers (>55 gals)	
9/14/2017	0	0	0	0
Total to Date	0	0	0	0

U.S. VIRGIN ISLANDS

	CONTAINERS			TOTAL
	Drums (55 Gals)	Large Containers (<55 gals)	Large Containers (>55 gals)	
9/14/2017	0	0	0	0
Total to Date	0	0	0	0

AGENCY COORDINATION

With the approach of Tropical Storm Maria, FEMA has directed that responding agencies evacuate the USVI. All EPA personnel will be evacuating the USVI to the U.S. mainland. EPA is developing an evacuation plan and a communications plan to track the locations, contact information, rally points and communications schedule for evacuating personnel.

EPA maintains staffing at the FEMA RRCC in Colts Neck, NJ, the FEMA IOF in San Juan, PR and the EOC on St. Thomas, USVI.

We continue to share operational information with the Caribbean Regional Response Team (CRRT) federal, Commonwealth, and U.S. Territory agencies.

SPILL/RELEASE RESPONSE

Hotline Calls as of September 15, 2017	
Number of Irma Related Calls Received During Reporting Period 1300-0100	2
Total Number of Irma Related Calls to Date	4
* EPA is assessing each call through the NRC to determine appropriate response and forwarding reports to field personnel to conduct further assessments and response as	

DRINKING WATER / WASTEWATER

Puerto Rico Drinking Water Status: PRASA is back to normal operations in providing drinking water services to the population. This does not include the non-PRASA systems which account for 4% of the PR population but as explained below non-PRASA systems have not suffered serious damages.

PRASA: All PRASA waste water treatment plants are in service. CEPD continued inspections of Sanitary Pump Stations in PRASA's North Region on 9/14/2017 and the Culebra WWTP. Inspections performed indicated that there are no major issues at the facilities. The only remaining inspections are 5 pump stations in PRASA's East Region that will be conducted on 9/15/2017 and the Vieques WWTP which will be done next Tuesday.

PREPA: All PREPA waste water treatment plants are in service.

Non-PRASA Drinking Water Status: CEPD and PRDOH contacted most of the non-PRASA systems between Tuesday and Wednesday. No major problems found. The systems without service were due to the lack of primary power. CEPD believes that there is no need to conduct assessments at the non-PRASA systems since there are no major problems encountered.

USVI Drinking Water Status: On 9/11/2017 VIWAPA started operating the Reverse Osmosis plant in St. Thomas for WAPA distribution. WAPA previously used desalination but has switched to RO, run by Seven Seas. Mr. Mark working to get the updated status of the entire system (distribution) etc. Boil water notice was issued for Saint Thomas and Saint John. Chlorination system is up and running. However, EPA does not have information on the status of drinking water distribution in STT or STJ. CEPD just requested assistance from the OSCs stationed in Saint Thomas to conduct assessments of drinking water providers. CEPD staff is available upon request to help conducting assessments.

USVI Wastewater: According to a report provided by Waste Management Authority, 6 of the 8 municipal wastewater treatment plants are in service. The only facility not in service is Vessup in Saint Thomas and the assessment of the George Simmonds WWTP in St. John has not been completed due to lack of access. In addition, WMA indicated that 4 of the 15 sanitary pump stations in Saint Thomas and Saint John are not in service. During a conversation held with DPNR on 9/12/2017, DPNR stated that they will request assistance from EPA to conduct assessments at the TPDES facilities in Saint Thomas and Saint John. On 9/13/2017, CEPD requested the OSCs deployed in St. Thomas to assess the wastewater treatment plants and pump stations in Saint Thomas and Saint John. CEPD staff is available upon request to help conducting assessments.

REGULATED FACILITIES

The Regulated Facility Team (RFT) continues to monitor responses to EPA's post-Irma facility damage, oil spill, and chemical release assessment questionnaire. All RMP, FRP, and SPCC facilities have responded to the post-Irma questionnaire, including Puma, Total, Limetree Bay Bulk Storage Terminal, PRASA, PREPA, and VI WAPA. All FRP facilities in PR and USVI have been contacted by email and/or phone call, and all have reported no

spills/releases and no potential spills/releases. The RFT is now focusing much of its efforts on contacting SPCC facilities in the ten declared PR municipalities, Culebra, Vieques, St. Thomas, and St. John. The Regulated Facility Team (RFT) is continuing its effort to contact SPCC facilities despite communication infrastructure damage in the impacted areas. The RFT continues to provide technical assistance to field assessment teams in PR and the USVI.

The Regulated Facility Assessment Coordinator (RFAC) is coordinating with other EPA regulatory programs to identify facilities that have experienced, or may potentially experience, spills or releases as a result of Hurricane Irma:

The EPA Region 2 Underground Storage Tank (UST) program has indicated that PR EQB UST inspectors are conducting UST inspections in impacted areas of Puerto Rico. PR EQB has conducted UST assessments in Loiza, Fajardo, and Canovanas over the last few days. Best Petroleum (Gulf) has reported that all 180 Gulf stations, including 20 in the FEMA declaration areas, are operating under normal conditions. Some gas stations throughout the island are operating with generators due to loss of electricity. The EPA Region 2 Underground Storage Tank (UST) program has also indicated that VI DPNR has reported minimal damage to UST facilities. VI DPNR personnel have attempted to reach numerous UST facilities on St. Thomas by phone, despite continuing communication difficulties on St. Thomas. VI DPNR is attempting to conduct UST assessments as weather permits. PUMA (St. Thomas/Puerto Rico), SOL (Shell in Puerto Rico) and Best Petroleum (Gulf in Puerto Rico) reported to the EPA Region 2 Underground Storage Tank (UST) program that no damage to USTs has been observed during their ongoing, respective assessments. The EPA Region 2 Underground Storage Tank (UST) program notes that gas stations without power, which rely on automatic tank gauges for release detection, may not be able to fully assess whether releases occurred until power is restored.

The EPA Region 2 Federal Facility Program Manager has been in touch with the 5 federal facilities (FF) inspected in May 2017 under contract with Federal Facility Enforcement Office for multimedia inspections. The facilities are located in Aguadilla, San Juan, Salinas, and Guaynabo. CAS made inquiries regarding post-hurricane environmental conditions and if assistance is needed. No assistance is needed and no reported environmental events were reported (i.e. tank damage, chemical releases or transfer PCB concerns). Four of the five FF reported minor hurricane Irma damage due to fallen trees and power outages. One FF has not responded to the Federal Facility Program Manager's damage assessment inquiry.

The Regulated Facility Assessment Coordinator (RFAC) has obtained a list of RCRA corrective action facilities and Large Quantity Generators from Region 2's RCRA programs. The RFAC is following up with these programs to determine whether further evaluation is needed, despite information that many of these facilities were not adversely impacted. Damage assessment for these facilities, in addition to facilities identified by any other EPA program, will be coordinated with the appropriate EPA Region 2 programs and the command structure.

PUERTO RICO

Facility Type	Sites Identified	Pre-Storm Remote Assessment	Post Storm Remote Assessment	Post Storm Field Assessment	Follow-up Action Required
RMP	56	56*	56^	10	0
FRP	22	22*	22^	6	0
SPCC (non-FRP) [#]	232 [#]	232 ^{#*}	30 [^]	13	0
Total	310[#]	310[#]	108[^]	29	0

* Pre-Hurricane email requested facilities to self-identify any pre-existing compromised conditions (construction at process areas, tank maintenance, etc.). No facilities reported pre-existing compromised conditions.

[^] Based on Post-Hurricane oil spill/chemical release/damage assessment email and phone calls. No facilities have reported oil spills, chemical releases, or upset/damage conditions that could lead to oil spill or chemical release.

[#] This number reflects the number of known non-FRP SPCC facilities believed to be active.

U.S. VIRGIN ISLANDS

Facility Type	Sites Identified	Pre-Storm Assessment	Post Storm Assessment	Post Storm Field Assessment	Follow-up Action Required
RMP	1	1*	1 [^]	2	0
FRP	6	6*	6 [^]	2	0
SPCC (non-FRP) [#]	57 [#]	57 ^{#*}	10 [^]	35	2
Total	64[#]	64[#]	17[^]	39	2

EPA RESOURCES

Personnel	EPA Edison, NJ NYC San Juan, PR [^]	FEMA RRCC Colts Neck, NJ	Puerto Rico Deployments*	USVI Deployments*	Totals
EPA	50	2	11	21	84
START/RST	9	0	3	5	17
ERRS	5	0	0	0	5
Other Contractors	0	0	0	0	0
Totals	64	2	14	26	106

[^]Number includes personnel in the REOC, RICT, CEPD, and CID personnel that are working the response.

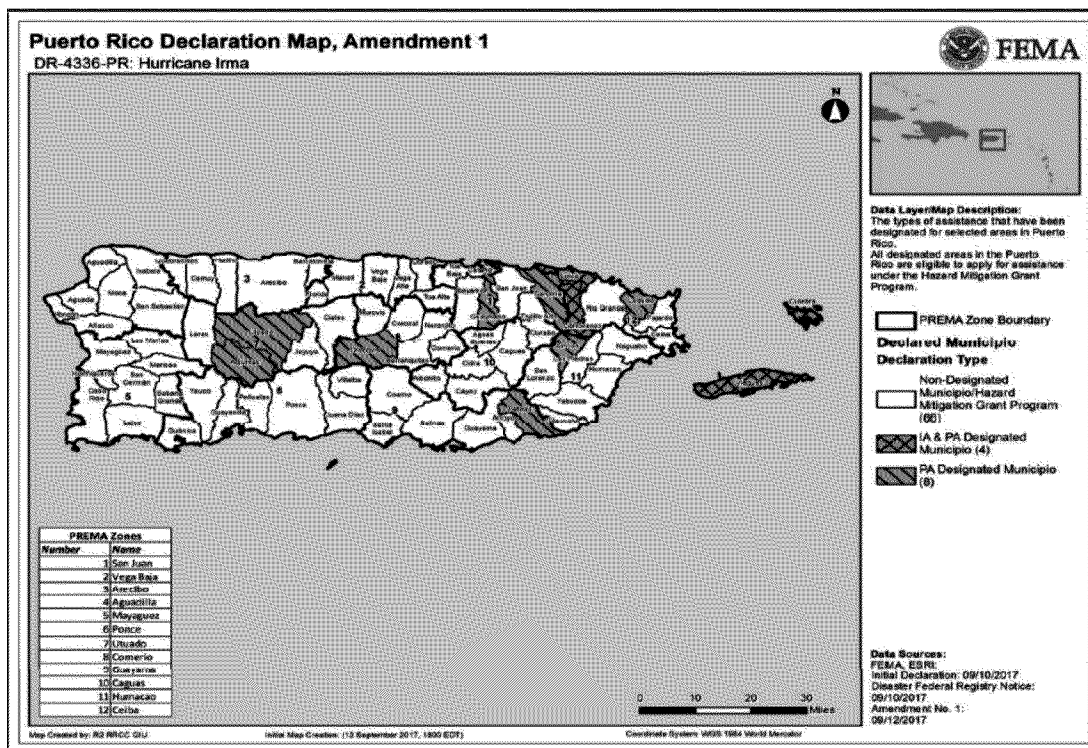
*Number includes personnel working at coordination centers and EPA Regional offices.

DECLARATIONS

Puerto Rico.

Emergency Declaration FEMA-3384-EM effective September 5. Assistance is for all 78 municipalities in the Commonwealth of PR. The Governor of Puerto Rico requested a disaster declaration 9/8.

Disaster Declaration FEMA-4336-DR effective September 9. Declared areas only include Culebra and Vieques. On 9/13 ten additional municipalities in Puerto Rico were added to the major declaration, and are now eligible for work under any DFA MA's that we receive. The municipalities are: Adjuntas, Canovanas, Carolina, Guaynabo, Juncos, Loiza, Luquillo, Orocovis, Patillas, and Utuado.

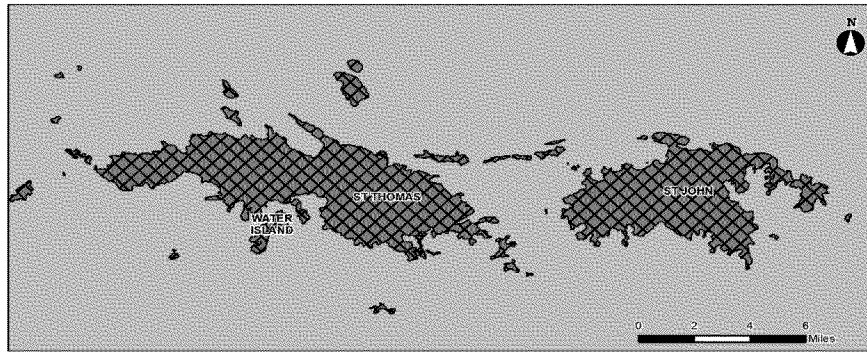


U.S. Virgin Islands.

Disaster Declaration FEMA-4335-DR effective September 7, 2017. St. Thomas and St. John approved for Individual Assistance, all islands eligible for Public Assistance and the Hazard Mitigation Grant Program.

Emergency Declaration FEMA-3383-EM effective September 5. Assistance is for all islands in the Territory of the USVI.

U.S. Virgin Islands Declaration Map (07 September 2017, 1200 EST)
 DR-4335-USVI: Hurricane Irma

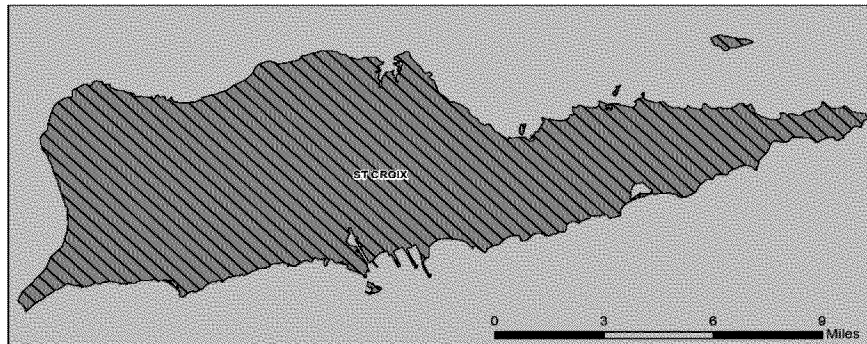


Data Layer/Map Description:
 The types of assistance that have been designated for selected areas in the U.S. Virgin Islands. All designated areas in the U.S. Virgin Islands are eligible to apply for assistance under the Hazard Mitigation Grant Program.

County Declared Declaration Type

IA & PA Designated County

PA Designated County (Category A & B and DFA)



Data Sources:
 FEMA, ESRI;
 Initial Declaration: 09/07/2017
 Disaster Federal Registry Notice: 09/07/2017

Map Created by: R2 RRCC GIU Initial Map Creation: 07 September 2017, 1200 EDT Coordinate System: WGS 1984 World Mercator

FUNDING

Mission Assignment Number	Purpose	Start Date	End Date	Total Amount	Indirect Costs	Amt. Available	Daily Burn Rate	Used	Balance
VI-17090102-EPA-01	EPA to FEMA R2 RRC (Colts Neck, NJ)	9/2/2017	9/11/2017	\$10,000	\$1,046	\$8,954	\$0	\$8,954	\$0
4335DR-VI-EPA-01	EPA to FEMA R2 RRC (Colts Neck, NJ)	9/7/2017	10/7/2017	\$100,000	\$10,466	\$89,534	\$1,200	\$14,496	\$75,038
3383EM-VI-EPA-01	EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA & NRA Teams and other coordination venues	9/7/2017	9/16/2017	\$75,000	\$7,850	\$67,150	\$0	\$58,800	\$8,350
4335DR-VI-EPA-02	Assess oil & hazmat releases, contaminated debris & other environmental events in VI	9/7/2017	9/30/2017	\$508,000	\$53,170	\$454,830	\$3,500	\$207,600	\$247,230
4335DR-VI-EPA-04	Removal, cleanup and disposal of oil & hazmat; collect and disposal of HHW; monitor immediate threats to public H&S and the	9/13/2017	10/13/2017	\$10,000,000	\$1,046,646	\$8,953,354	\$7,200	\$7,200	\$8,946,154

	environment in the VI								
4335DR-VI-EPA-06	EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA & NRA Teams and other coordination venues	9/2/2017	10/13/2017	\$2,000,000	\$209,329	\$1,790,671	\$36,000	\$340,400	\$1,450,271
PR-17090102-EPA-01	EPA to FEMA R2 RRC and other coordination venues as necessary	9/1/2017	9/11/2017	\$20,000	\$2,093	\$17,907	---	\$17,907	\$0
3384EM-PR-EPA-01	EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA and NRA Teams and other coordination venues	9/6/2017	9/16/2017	\$75,000	\$7,850	\$67,150	\$12,000	\$62,400	\$4,750
3384EM-PR-EPA-03	Assess oil & hazmat releases, contaminated debris & other environmental events in PR	9/9/2017	9/30/2017	\$508,000	\$53,170	\$454,830	\$12,000	\$104,400	\$350,430
4336DR-PR-EPA-01	EPA to FEMA RRCC. Funding for EPA command centers is authorized.	9/10/2017	10/10/2017	\$100,000	\$10,466	\$89,534	\$12,000	\$12,000	\$77,534
Note regarding MA 4335DR-VI-EPA-06: \$50,000 was allocated to the USEPA HQ EOC, from MA 4335DR-VI-EPA-06, to supplement costs incurred during the Hurricane Irma response.									

FUEL WAIVERS

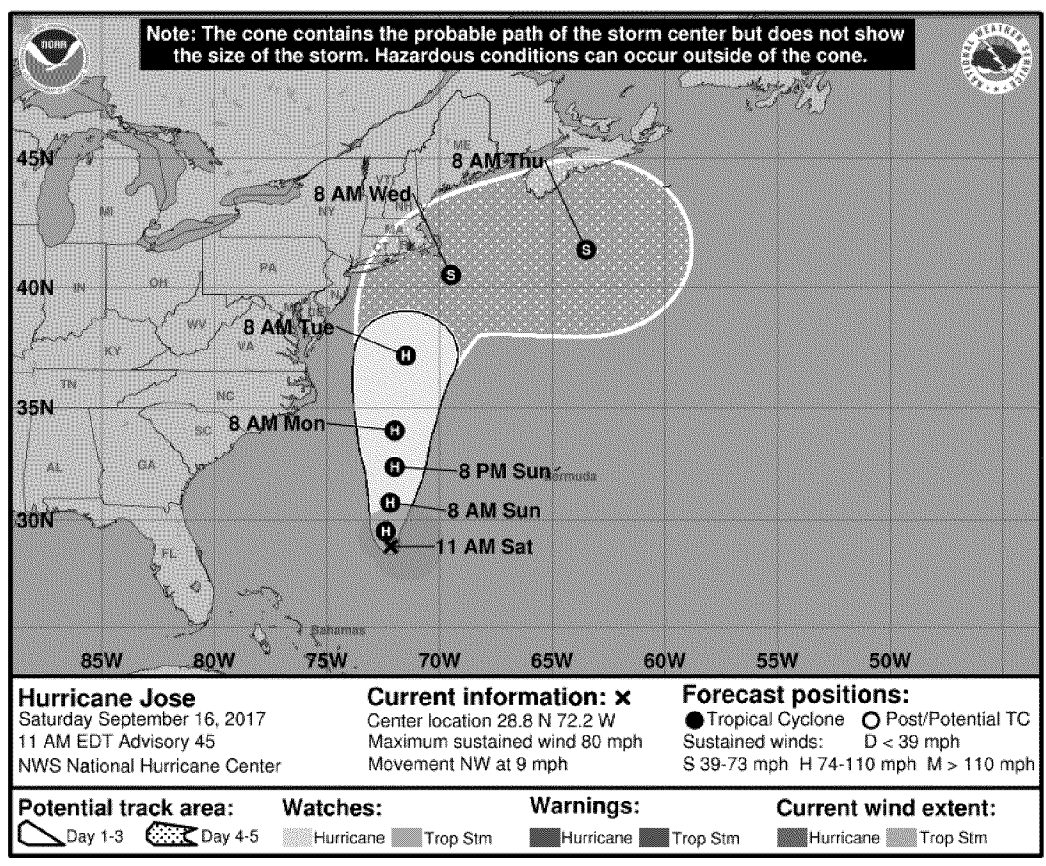
Fuel waivers are not needed for PR or USVI.

LONG RANGE PLANNING

- National Disaster Recovery Framework (NDRF) Activities.** FEMA has begun long range recovery planning and is in contact with the EPA Office of the Administrator's (OA) disaster recovery coordinator. The Acting Regional Administrator is Region 2's Federal Disaster Recovery Coordinator with CASD providing support. CASD is in communication with the OA and is working with CEPD and the other divisions to identify Region 2 contacts for the six Recovery Support Function (RSF) areas: 1.) Community Planning and Capacity Building, 2.) Economic Recovery, 3.) Health and Social Services, 4.) Housing Recovery, 5.) Infrastructure Systems, and 6.) Natural and Cultural Resources. This work will assist the Agency to identify potential recovery challenges and plan for resiliency. EPA Region 2 disaster response and recovery personnel are coordinating and will share our Irma data collection and results of our assessment efforts.

- Hurricane Jose.** At 5:00 a.m. EDT, Hurricane Jose was located 420 miles south-southeast of Cape Hatteras North Carolina with maximum sustained winds of 80 mph. Jose is moving toward the north near 8 mph, and this general motion with a slight increase in forward speed is expected through early Tuesday. Jose is forecast to remain a Hurricane through early Tuesday. While Jose is currently forecast to remain offshore of the U.S. coast from Virginia northward to New England, the large cyclone could cause some direct impacts to these areas and any deviation to the left of the NHC forecast track would increase the likelihood and magnitude of those impacts.

Tropical Storm Wind Probabilities
 Montauk Point, NY 37%
 New York, NY 21%



- Additional Threats to U.S. Caribbean.**
 - Tropical Storm Maria.** On 9/17 at 5:00 a.m. EDT, Tropical Storm Maria was located 460 miles east-southeast of the Lesser Antilles with maximum sustained winds of 65 mph. Maria is moving toward the west-northwest near 15 mph and this motion with a further reduction in forward speed is expected over the next couple of days. On the forecast track, the center of Maria will be near the Leeward Islands Monday night. Maria will likely become a Hurricane later today. Maria could affect the U.S. Virgin Islands and Puerto Rico by mid-

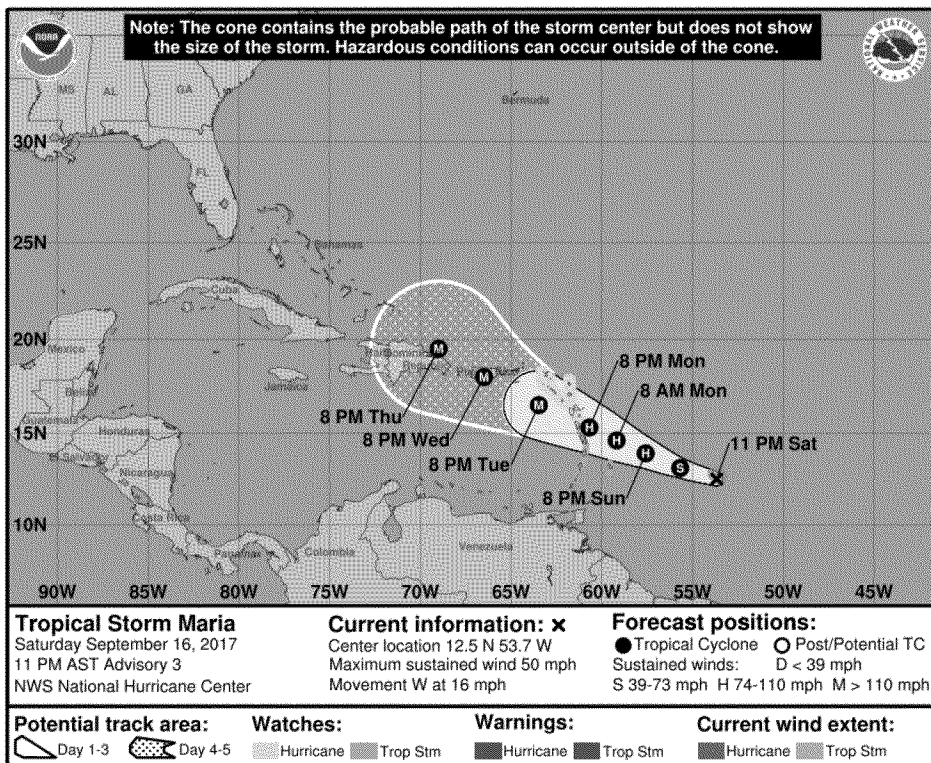
week as a dangerous major hurricane, and hurricane watches will likely be issued today.

WIND: Hurricane conditions are possible within the hurricane watch area by Monday night or Tuesday, with tropical storm conditions possible on Monday. Tropical storm conditions are possible in the tropical storm watch area on Monday.

STORM SURGE: A dangerous storm surge accompanied by large and destructive waves will raise water levels by as much as 3 to 5 feet above normal tide levels within the hurricane watch area.

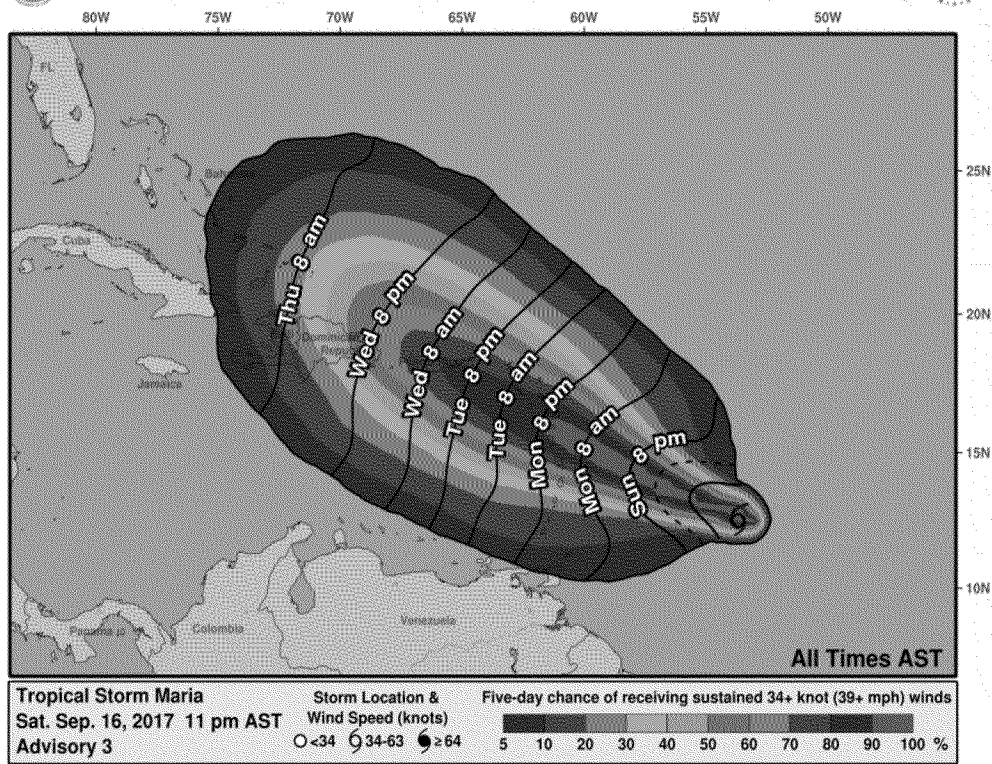
RAINFALL: Maria is expected to produce total rain accumulations of 6 to 12 inches with isolated maximum amounts of 20 inches across the central and southern Leeward Islands through Tuesday night. Maria is also expected to produce total rain accumulations of 2 to 4 inches with isolated maximum amounts of 8 inches in the northern Leeward Islands through Tuesday night. This rainfall could cause life-threatening flash floods and mudslides.

SURF: Swells generated by Maria are expected to begin affecting the Lesser Antilles by Sunday night. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office.

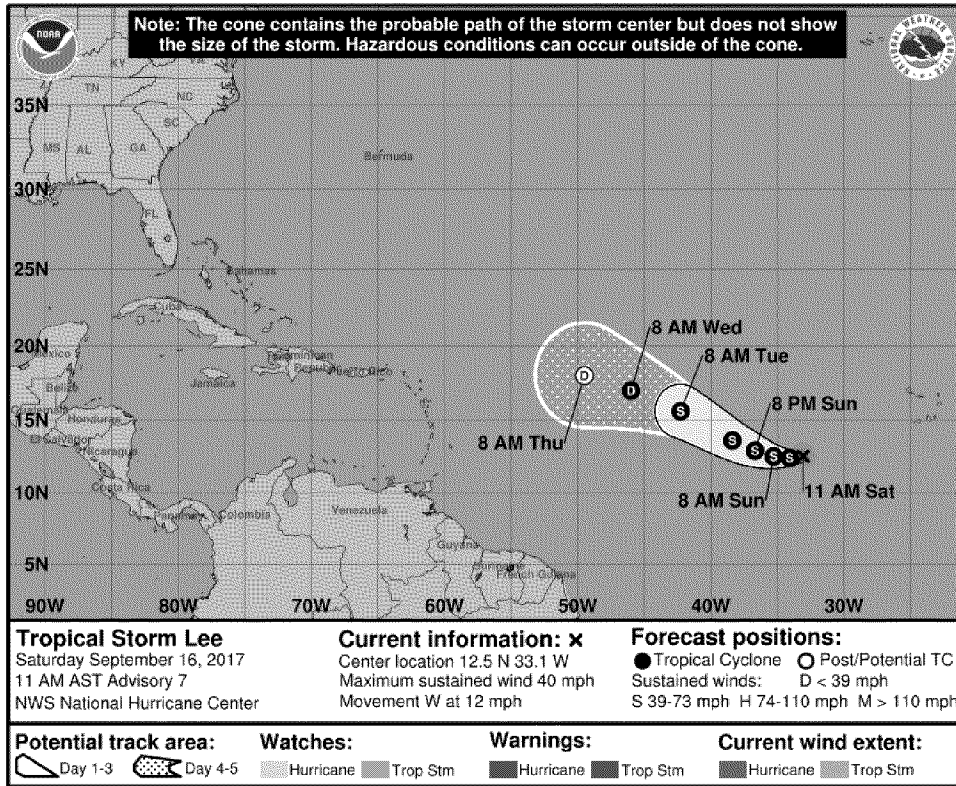




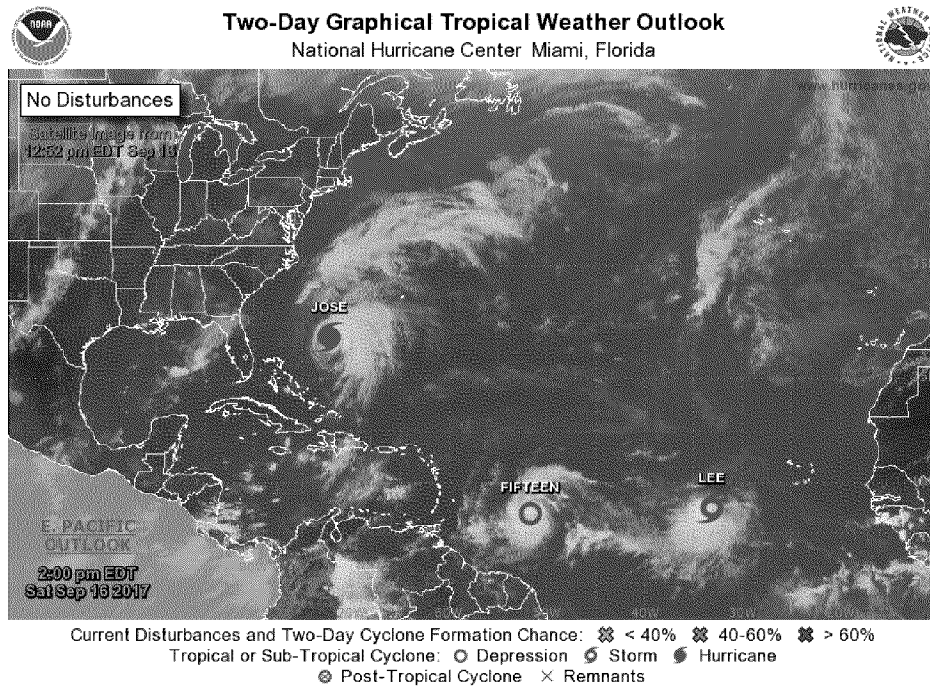
Most Likely Arrival Time of Tropical-Storm-Force Winds



- **Tropical Storm Lee.** On 9/16 at 1100 AM AST, Tropical Storm Lee was located 655 miles W-SW of the Cabo Verde Islands with maximum sustained winds of 40 mph and a minimum central pressure of 1007 mb. Lee was moving west at 12 mph. A westward or W-NW motion with a decrease in forward speed is expected during the next couple of days. Little change in strength is forecast during the next 48 hours.

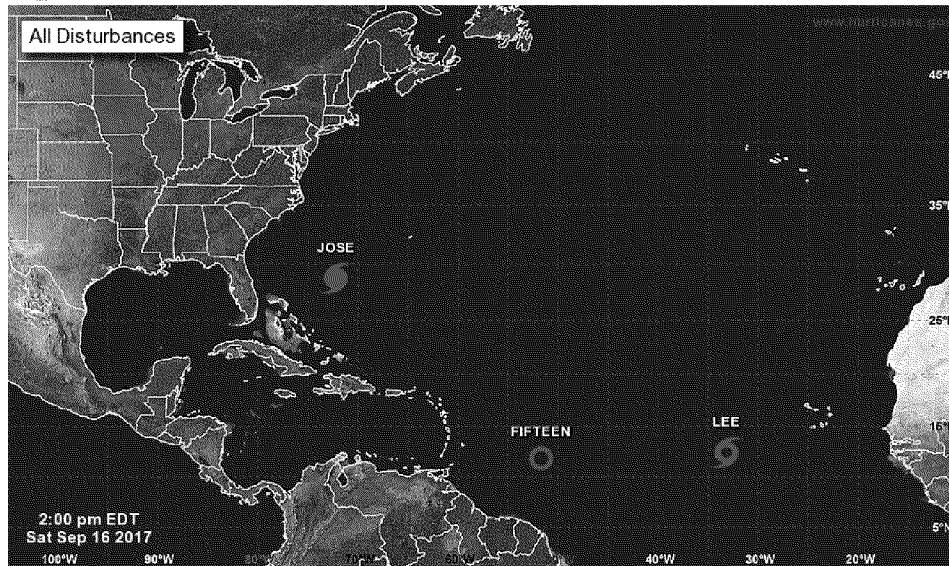


○ **Future Weather Outlook.**

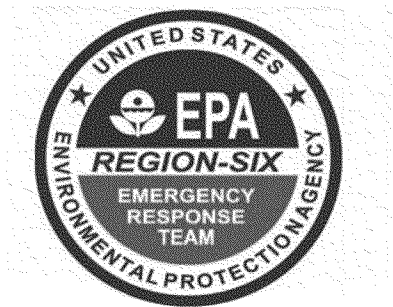




Five-Day Graphical Tropical Weather Outlook
National Hurricane Center Miami, Florida



Current Disturbances and Five-Day Cyclone Formation Chance: ☒ < 40% ☒ 40-60% ☒ > 60%
 Tropical or Sub-Tropical Cyclone: ○ Depression ● Storm ● Hurricane
 ⊗ Post-Tropical Cyclone × Remnants



Hurricane Harvey 2017
9/14/2017 – 0700 CDT Update

EXECUTIVE SUMMARY

- Governor Abbott is expected to visit the FEMA Joint Field Office in Austin, Texas today.
- EPA completed sampling of all 34 Texas Superfund sites potentially impacted by the storm. Sampling at the 9 Louisiana Superfund sites will be completed by September 15, 2017. EPA will begin releasing post-hurricane Superfund site summaries based on preliminary data today. Highland Acid Pits, United Creosote, Conroe Creosoting and Brio Refining all show post-hurricane conditions to be consistent with conditions prior to the storm.
- 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 investigation into Valero Houston Refinery response and cleanup activities will continue. EPA will conduct an on-site inspection of the facility today and issue a 114 information request for additional information regarding the company's response.
- EPA provided by letter the Texas Water Development Board flexibility to in using the State Revolving Loan Fund to address recovery and resiliency efforts. The NEPA review requirements may be required for final project approval and streamlining opportunities are being reviewed.
- EPA, TCEQ and Army Corps of Engineers field observation teams will inspect debris staging and landfill operations within the hurricane impacted counties in Texas to ensure best practices and program requirements are being met. A federal Debris Management Taskforce has been established at the FEMA JFO in Austin. EPA solid waste expert is participating on the Taskforce.
- Debris management programs to address the predicted high volumes of hurricane-damaged structures are a high priority. Asbestos NESHAP requirements for structures is being evaluated to determine if a No Action Assurance letter from EPA is necessary.
- All three branches of Unified Command are recovering and staging orphan containers for proper disposal. The Corpus Christi Branch expects to complete activities within the next

week. The Port Arthur/Beaumont Branch is projected to complete these activities within 20 days and the Houston Branch within 30 days.

- Drinking water and wastewater assessment teams are completing their emergency assessments of system and will depart. Restoration final systems and lifting of boil water notices will be overseen by TCEQ regional offices.
- The Texas Commission on Environmental Quality (TCEQ) submitted a request to the Federal Emergency Management Agency (FEMA) to amend the Emergency Support Function (ESF-10) Mission Assignment for an additional \$7.5 million. If approved, this will bring the total funding for assessment and response to \$17.5 million.

PUBLIC AFFAIRS

EPA continues to provide information to the public and address media inquiries related to the hurricane response effort. The response Story Map continues to be updated. Informational fact sheets for governmental entities and citizens have been posted on the response.epa.gov website.

DEBRIS RECOVERY

The state continues to assess its capacity to manage debris collections and disposal. EPA sent four field observers to Houston today, September 14, 2017 to assist TCEQ with ensuring that debris is properly segregated and categorized for disposal.

RECOVERY EFFORTS

EPA Region 6 has a representative at the Joint Field Office (JFO) providing support to Recovery Support Function activities.

EPA Region 6 responded to a September 1, 2017, letter from the Texas Water Development Board (TWDB) requesting flexibility in the use of State Revolving Fund (SRF) resources to address immediate recovery and future resiliency efforts. The EPA Region 6 Acting RA responded on September 12, 2017, supporting the request.

VECTOR CONTROL

Department of Defense (DOD) aerial assets continue to spray for mosquitos in affected counties. Since September 9, 2017, DOD has treated 650,863 acres. Texas Department of State Health Services' contractor Vector Disease Control International began surveillance operations on September 13, 2017, and will assist with aerial applications on September 14, 2017. Used and empty pesticide containers are being returned to the vendor for disposition.

AIR MONITORING

On September 13, 2017, TAGA continued monitoring the Manchester area, as well as areas downwind of industrial sources, Southwest Shipyard-Brady Island (Brady Landing), United States Gypsum and Targa Resources-Galena Park Terminal. No benzene levels were detected above the TCEQ Air Monitoring Comparison Values short-term screening levels.

Today, September 14, 2017, the TAGA plans to conduct monitoring around facilities that have submitted Force Majeure claims associated with Hurricane Harvey, including the Shell Deer Park Refinery, Shell Deer Park Chemical Plant, and Vopak Deer Park.

EMERGENCY RESPONSE

Daily/Cumulative Summary of Hazard Evaluations/Recovery				
Status	Opened		Closed	
	9/13/2017	Number of Targets Remaining Open	9/13/2017	Cumulative
Corpus Christi Branch	0	5	9	96
Houston Branch	20	124	73	163
Port Arthur/Beaumont Branch	17	42	32	53
NRC Reports	0	1	1	2
TOTALS	37	172	115	314

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	
	9/13/17	Number of Facilities/Spills Remaining Open	9/13/17	Cumulative
Corpus Christi Branch	0	0	2	33
Houston Branch	1	20	5	53
Port Arthur/Beaumont Branch	1	8	0	12
NRC Reports	3	45	13	66
TOTALS	5	73	20	164

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				
<u>Teams</u>	Alpha	Bravo	Charlie	TOTAL
Hazard Evaluation	1	1	3	5
Oil Discharge Assessment	2	4	1	7
ER/Orphan Container Recovery	1	14	3	18
Oil/Vessel Recovery	2	2	0	4
Staging Areas	1	1	1	3
Air Operations	0	0	1	1
Air Monitoring	0	3	0	3
Water Infrastructure Assessment – Drinking Water	0	8	1	9
Water Infrastructure Assessment – Wastewater	0	6	1	7
TOTAL	7	39	11	57

Waste Received at All Staging Pads to Date					
	CONTAINERS			Cylinders	TOTAL
	Drums [55 gals]	Small Containers [<55 gals]	Large Containers [>55 gals]		
9/13/2017	115	22	2	12	151
TOTAL TO DATE	242	132	17	57	448

CORPUS CHRISTI BRANCH:

The Oil Discharge Assessment Team reviewed salvage plans for the towing vessel Sabine Pass on San Jose Island. In addition, the team oversaw the Responsible Party's contactor pumping air into the ballast and fuel tanks of the Signet Enterprise. The team monitored the containment area surrounding the vessel to ensure that no discharge was occurring. Salvage operations will resume tomorrow, September 14, 2017.

The Oil Discharge Recovery Teams coordinated and monitored Responsible Party led recovery operations and prioritized threats to the environment for removal in Rockport, Rockport Harbor, Fulton Harbor, Key Allegro, and Cove Harbor.

HOUSTON BRANCH:

A Hazard Evaluation Team investigated the report from PCI Nitrogen (formerly Agrifos), of a gypsum stack retaining wall collapse, in Pasadena, on September 13, 2017. The team tested the pH of the material at the discharge point and determined there was no CERCLA reportable release.

The Oil Discharge Assessment Teams conducted facility site visits to verify ongoing cleanup efforts. Discharge Recovery Teams conducted assessment visits to confirm vessel salvage operations.

The Emergency Response and Orphan Container Recovery Teams recovered containers in portions of Liberty, Harris, and Wharton counties.

PORT ARTHUR/BEAUMONT BRANCH:

The Hazard Evaluation Team conducted assessments and identified targets in Rainbow Marina, Blue Bird Boat Ramp, Cypress Swamp, and the area south from Sea Rim State Park to McFaddin Beach. Multiple targets may not be recoverable due to terrain, obstructions, water depth, or location on federal property.

The Oil Discharge Assessment Team investigated and identified targets in the Lumberton area.

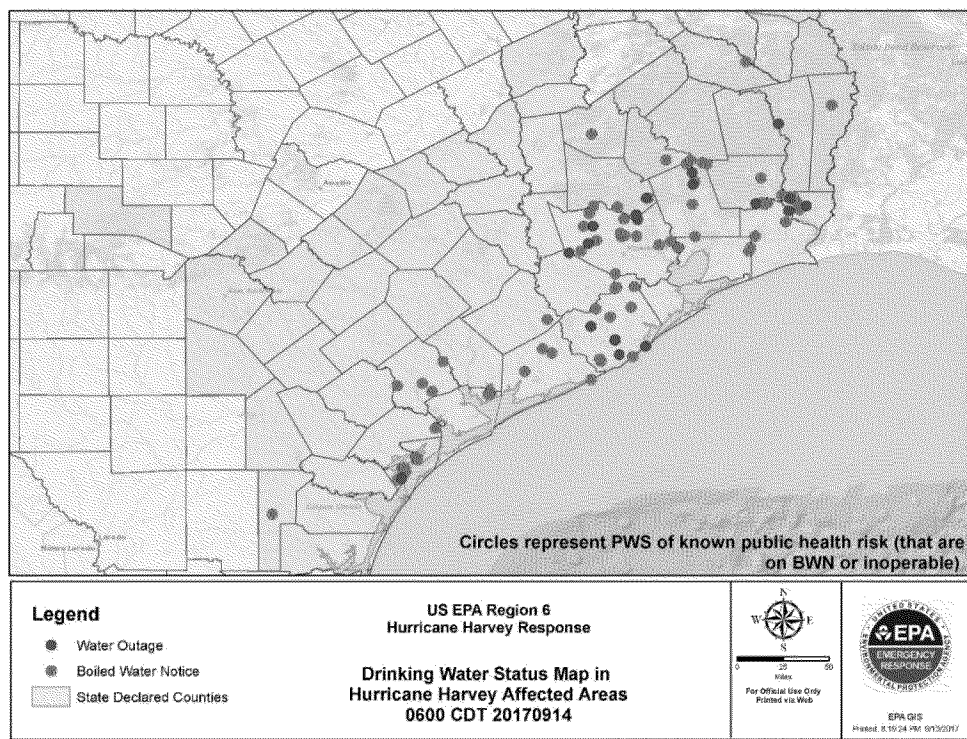
The Oil Container Recovery Teams retrieved accessible targets from North Harbor Loop in Lower Sabine River, in the Cities of Vidor and Orange, and at the Beaumont Yacht Club.

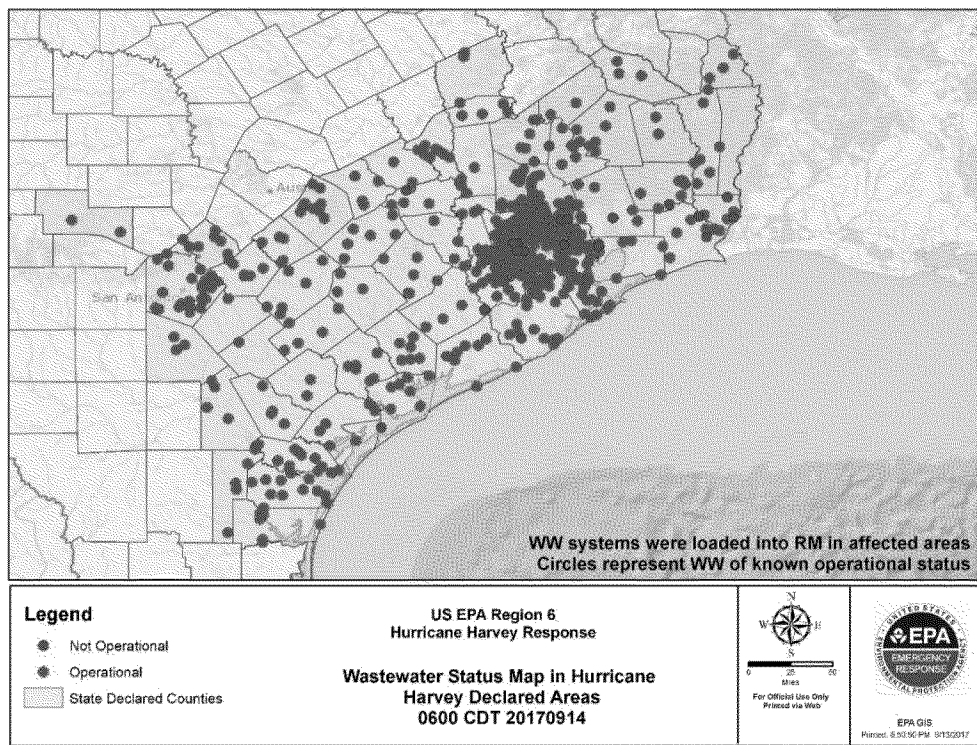
The Air Operations Group flew over Vidor, Texas and identified 7 new targets for recovery.

DRINKING WATER / WASTEWATER ASSESSMENTS

Fifteen EPA personnel have been providing support to TCEQ for drinking water and wastewater system assessments in the Houston Branch.

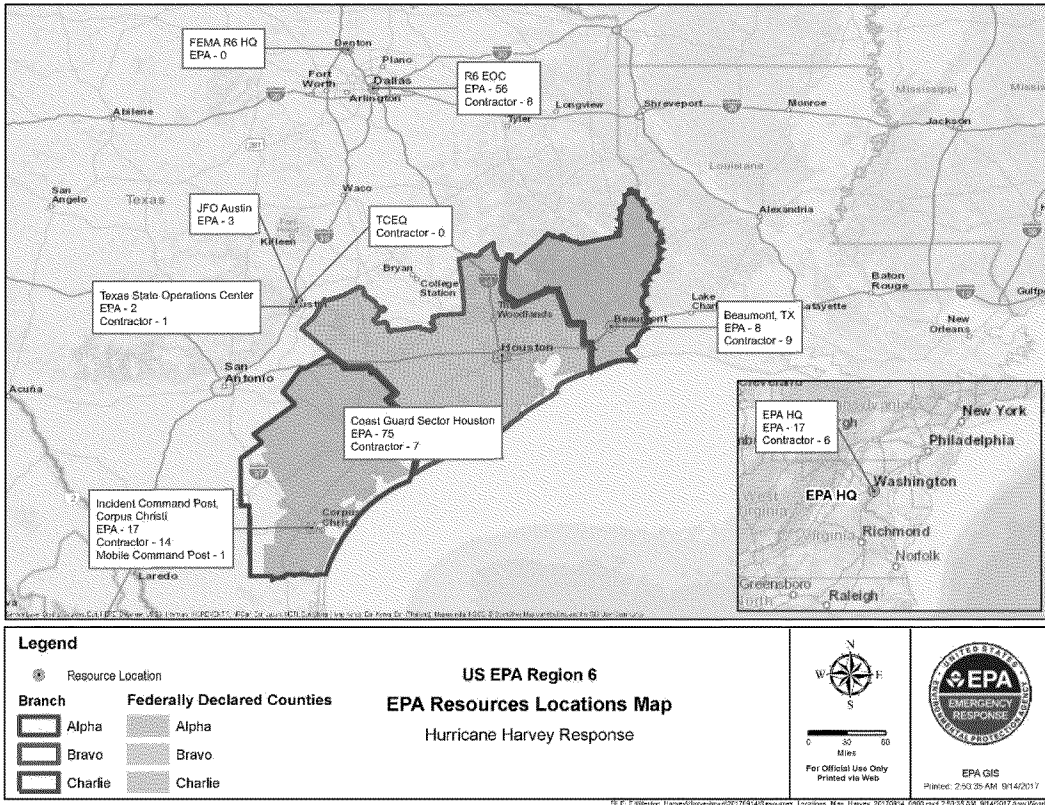
Drinking Water and Wastewater Assessments (September 13, 2017)		
Assessment Types	Daily Assessments	Total Assessments
On-Site DW Assessments	50	567
On-Site WW Assessments	48	385
Phone DW Assessments	143	6550
Phone WW Assessments	76	4606





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	3	2	0	75	17	8	17	178
START	8			1	0	7	14	9		39
ERRS						24	4	11		39
Other Contractors	1								6	7
TOTAL	65	0	3	3	0	106	35	28	23	263



FUNDING

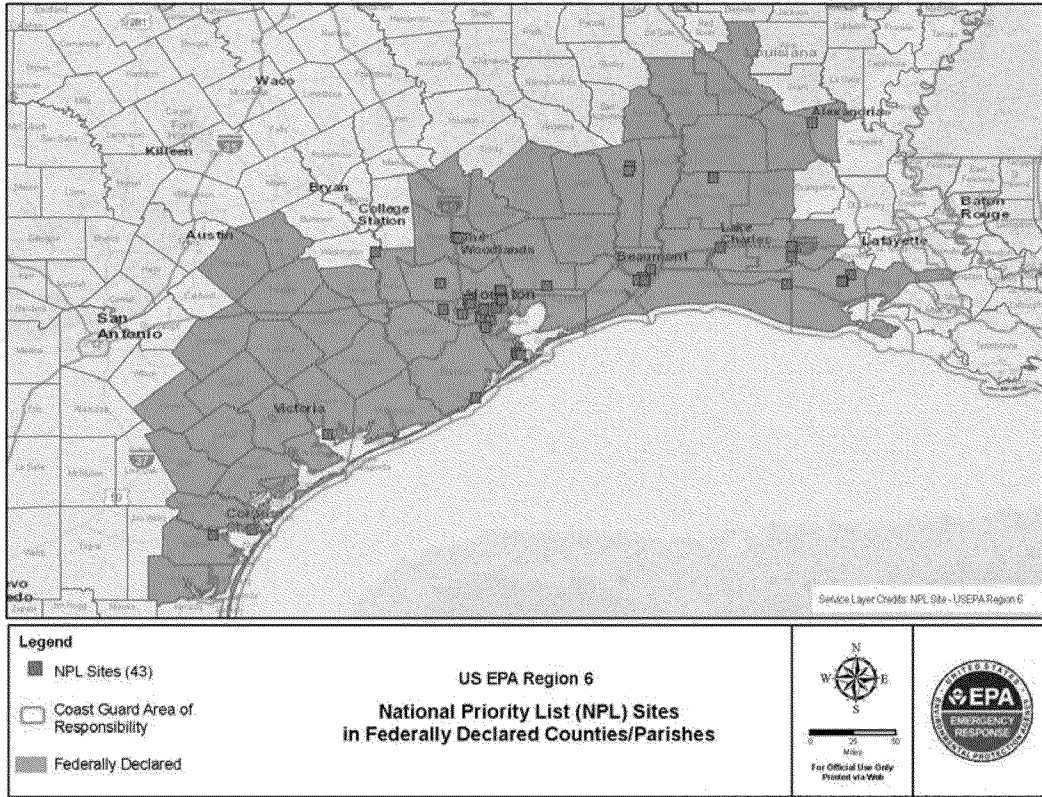
SitRep								
September 13, 2017, UPDATED 1300 hours								
Funding Sources	Funding Ceiling	Funding Ceiling Less Indirect	Obligated to Date	Estimated Spent to Date	Unobligated Dollars Remaining	Estimated Unspent Dollars Remaining	Daily Burn Rate	Days Remaining
Non Mission Assignment	N/A			\$64,200.00	\$0.00	\$0.00		
MA 4332DR-TX-EPA-01	\$275,000.00	\$242,741.00	\$39,056.00	\$39,056.00	\$203,685.00	\$203,685.00	\$3,664.00	55.59
MA 4332DR-TX-EPA-03	\$10,092,000.00	\$8,908,113.00	\$7,084,815.81	\$5,291,807.09	\$1,823,297.19	\$3,616,305.91	\$324,857.33	see below
Totals:	\$10,367,000.00	\$9,150,854.00	\$7,123,871.81	\$5,395,063.09	\$2,026,982.19	\$3,755,790.91		
Days remaining based on authorized direct ceiling minus total payroll, travel, and contracts EXPENDED								11.13
Days Remaining based on authorized ceiling minus total payroll, travel, and contract OBLIGATIONS								6.24
** 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

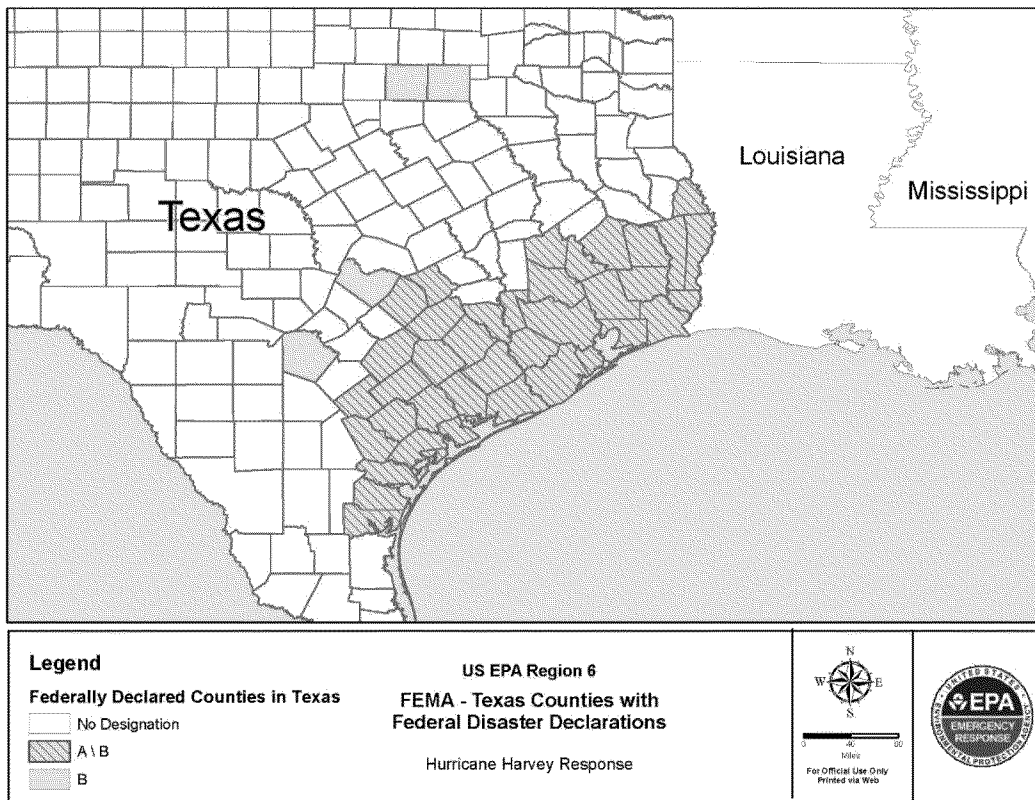
- EPA extended the multi-state fuel waiver to October 1, 2017.
- EPA has granted all open fuel waivers requested to date.
- On September 13, 2017, EPA issued a waiver of certain requirements of the Clean Air Act:
 - The Texas Low Emission Diesel (TxLED) requirements was waived in all TxLED Counties to 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, BBBB, 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 nine Louisiana Sites to confirm no releases due to storm impacts. Six EPA field teams, along with PRPs, have completed sampling at 39 sites. The sampling is part of a longer term assessment that will be used to transition sites back to normal cleanup operations. As of September 13, 2017, teams completed all sampling in Texas, with the exception of one site that will be sampled September 14, 2017. Sampling in Louisiana will be complete by 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: The PRP continues to conduct pump down operations to maintain freeboard. Since the storm, 61 truckloads of storm water (approximately 305,000 gallons) have been removed from the site. At the request of EPA, the PRP performed additional site inspections on September 13, 2017 and nothing unusual was found.
 - San Jacinto Waste Pits Update: Cap repairs continue on the remaining berm sections and cap probing continues. Temporary fencing is also being installed for site security.

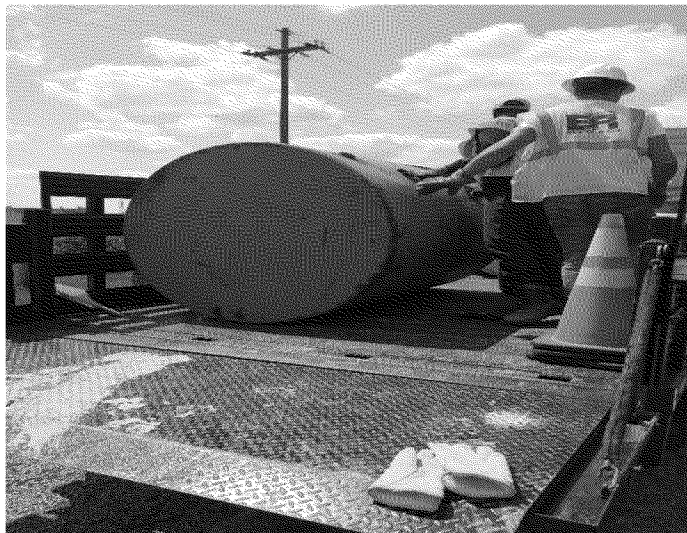


FEMA – TEXAS COUNTIES WITH DISASTER DECLARATIONS





**Houston Branch – Water
Assessment Team Houston**



Houston Orphan Container Recovery



Hurricane Harvey/Irma Policy Coordinating Committee
(Deputy EOC Manager)

Draft Incident Management Objectives

September 11, 2017

Objective 1: Ensure that health and safety of the EPA response is considered at all times.

Objective 2: Establish an incident management structure and processes employing the Incident Command System to enable effective overall management of the event with deployment of resources (staff and equipment) in a rapid, aggressive and well-coordinated manner.

Objective 3: Ensure prompt Review and Processing of Fuel Waiver requests.

Objective 4: Prepare for and provide Rapid Assessment of Industrial facilities as requested by the State or under EPA's statutory program responsibilities for CERCLA Superfund, RMP and FRP facilities. Working with our state partners, contact industrial sources within the impacted area to determine their operational status and determine what support can be provided with the monitoring of the start-up of industrial sources.

Objective 5: Prepare for and provide Rapid Assessment & Technical Assistance Drinking Water & Wastewater facilities as requested by the State or local government. EPA will support our state partners in contacting drinking water and waste water systems.

Objective 6: Prepare a Sustained Response Plan that outlines the resource and equipment needs for a long duration response.

Objective 7: Activate the Agency's Crisis Communication Plan to insure effective and efficient coordination of all incident communications.

Objective 8: Encourage a collaborative federalism approach, where national, state and local governments interact cooperatively and collectively to solve common problems.

Objective 9: Begin Agency internal and external coordination, under the National Disaster Recovery Framework, regarding Recovery Support Functions in which EPA is likely to be involved.



Hurricane Harvey/Irma Policy Coordinating Committee
(Deputy EOC Manager)

Agenda

September 14, 2017

Opening Remarks Ryan Jackson
 Barry Breen

Situational Updates

For each situational update would you please address the following topic areas in addition to Regional/Program specific highlights:

- What are you being asked to do/support from our Federal, State and Local partners?
- Are there actions you are considering leaning forward on to address a need or expedite our response activities?
- Are there program policy, legal, or resource issues impacting your operations?
- Discussion of recovery efforts

Region 2
Region 4
Region 3
OPA
OLEM

Harvey Update Region 6

General Discussion

Next Meeting



Hurricane Irma 2017

9/14/2017 – 1030 EDT Update

EXECUTIVE SUMMARY

- In PR EPA continues to assist the local water and health departments in prioritizing drinking water facilities needs for Federal assistance.
- In Puerto Rico and the U.S. Virgin Islands EPA is conducting environmental assessments. Assessment teams assessing potentially contaminated debris in conjunction with USACE. Assessment teams assessing oil and chemical fixed facilities.
- As a result of the efforts of the incident specific Caribbean Regional Response Team (CRRT) USVI resource request has been submitted. The statement of work is: EPA will conduct oil and hazardous materials field operations, including cleanup and disposal of hazardous materials and oil, and response to orphaned containers. These necessary actions will mitigate actual and potential threats to public health and safety. EPA response may also include household hazard waste collection and disposal, and monitoring of immediate threats to public health and the environment. EPA will coordinate staging, segregation, transportation and disposal of oil and hazardous substances collected under both EPA and USCG's ESF-10 mission assignments.
- RRCC ESF #10 staff is also pursuing funding increases to the support MAs for the continued operation of the REOC, HQ EOC, and other EOCs where EPA personnel are supporting field operations, logistics, and situational awareness.
- Twelve CID/NCERT agents have arrived in St. Croix, USVI to coordinate with FEMA ESF #13 and support the security needs of EPA personnel. Although security will be their priority, NCERT will also be able to assist the Unified Command with the remaining assessment work.

PUERTO RICO / U.S. VIRGIN ISLANDS CONDITIONS

US Virgin Islands (USVI):

- Significant amounts of debris impacting accessibility of ports in St. John and St. Thomas, including damaged ferries and boats leaking oil; a Mission Assignment for a sub salvage unit to assist with port recovery underway; St. Thomas Sub Base Dry Dock is out-of-service due to substantial damage; ferry service from St. Thomas to St. John remains closed

- AT&T crews in USVI working with local utility and emergency management officials to restore service where power is being restored and safe access is possible. Cell tower status: 20.05% outages in St. Croix; 90% outages in St. John; 71.9% outages in St. Thomas.
- Two EPA satellite communications sleds will be shipped to St. Croix to improve voice, internet, and data connections
- Norwegian sailed from St. Thomas to Miami port on 9/12 with 933 evacuees; Royal Caribbean scheduled to depart from St. Thomas with additional evacuees and will open up to any residents who desire to go CONUS.
- SS Wright en route to St. Thomas to provide berthing and meals for emergency response personnel and deliver relief supplies; estimated to arrive on or before 9/16
- St. Croix Henry E. Rohlsen Airport (STX) and runway OPEN and Operational. St. Thomas: Cyril E King Airport (STT) accepting Military aircrafts only. Tentative date of 9/16 to resume commercial flights to St Thomas.
- Power Outages:
 - St. John 2,893 customers without power / 100% power outage
 - St. Croix: 6,905 customers w/o power in STX -31%
 - St. Thomas 19,581 customers without power / 100% consumer outage

Puerto Rico (PR):

- Airports are open.
- Telecoms: Communications with Vieques and Culebra established using a national interoperability channel. Cellular communications/coverage continues to rapidly improve with the restoration of power. 911 service has been restored for cell phone & landline. 343 of the 1748 (19.6%) cell towers are out of service.
- Power Outages: PREPA: 117,244 clients without electrical service (7.82%) and 1,569,796 with service (92.18) 24,174 clients (1.93%) without potable water service and 21,493 are due to electrical power failure.

PUBLIC AFFAIRS

The PIO is Elias Rodriguez, who can be reached at 212-637-3664. All press inquiries are directed to him, and coordinated through OPA.

PAD continues to maintain a public facing EPA Response web site at: www.epa.gov/hurricane-irma. We continue to post for and support Region 4 content along with our own content and it seems to be going well. PAD and the PIO are coordinating with ERT and Region 4 on an Irma story map.

We continue to provide all Region 2 staff with relevant Irma news clips and EPA news releases.

Support of on-the-ground OSCs and the community liaison function is ongoing. Two CICs deployed to PR on Sept. 11 and two CICs deployed to the USVI on Sept. 12. We are receiving daily updates from the CICs on outreach needs and issues, which is greatly assisting the Information Office in assisting the response operations.

Public Inquiries:

Members of the public should be directed to EPA's toll free hotline 1-888-283-7626. This line includes bi-lingual capabilities and is on a 12 hour per day/7 days per week basis, from approximately 7:30 a.m. to 8:00 p.m. (Eastern). PIO has coordinated with CEPD and the Regional Public Liaison's office on responding to and tracking Irma public inquiries, comments and requests, especially those with EPA assignments.

Non-emergency (non 9-1-1) calls from the general public will be directed to two numbers in PR and USVI:

For complaints, tips, or information requests, please contact:

- Puerto Rico Emergency Management and Disaster Administration Agency (AEMEAD): 787-724-0124
- Virgin Islands Territorial Emergency Management Agency (VITEMA): 340-774-2244

Media Inquiries: We have been coordinating with the Office of Public Affairs on a daily Irma news release, the latest one issued on 9/13/17. Reporters are directed to email their inquiries to press@epa.gov.

Region 2 – Hurricane Irma Management Objectives

- Protect the health and safety of EPA employees pre-deploying and/or responding to the storm aftermath.
- Integrate EPA response assets with federal, state and local response structures
- Minimize social, political, and economic adverse impacts
- Keep the public, stakeholders and the media informed of response activities
- Protect communities from incident hazards
- Keep communities informed of incident hazards and clean up progress
- Establish communication and briefing schedule with R2 senior executives and EPA Headquarters. Support a consistent communications approach agency-wide, enabling EPA to act and speak in unison during these incidents
- Provide situation reports and other information on schedule provided by RIC

- Secure all NPL and removal sites. Regulated facilities and Superfund and oil sites will be surveyed prior to storm fall if a land impact is expected
- Identify vulnerabilities at regulated facilities
- Address any immediate hazardous substance releases or oil spills resulting from the storm's impact
- Assist state and local agencies in ensuring safety of drinking water systems.
- Monitor air quality when/if necessary in response to conditions on the ground.
- Provide guidance for length of work day and deployments as it pertains to this specific event
- Coordinate logistics with deployed personnel to provide transportation options, lodging, security, ground transportation on site;
- Coordinate national resources to assist the Region;
- Identify clearly defined roles for both Regions and Headquarters;
- The response will use the Region's incident specific Data Management Plan (DMP);
- In collecting, sharing, and analyzing environmental data, EPA will give primacy to data with potential human health consequences;
- EPA will work to ensure that its decision-makers have access to the data and expertise they need to make decisions based on sound science;
- Identify early in the response the long term recovery issues the Agency may be requested to support and determine the resource needs to support and sustain those requests to completion.

DEBRIS RECOVERY

U.S. Army Corps of Engineers and EPA debris team deployed in the USVI. Debris assessments continue. Five debris staging sites have been identified in St. Thomas.

EPA coordinating with ACOE concerning debris assessments and planning in disaster declared areas of Puerto Rico.

AIR MONITORING

No air monitoring activities.

EMERGENCY RESPONSE

Daily/Cumulative Summary of Hazard Evaluations/Recovery				
Status	Opened		Closed	
	9/13/2017	Cumulative	9/13/2017	Cumulative
Puerto Rico	5	7	5	7
U.S. Virgin Islands	0	0	0	0
Note: Open means that 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				
Status	Opened		Closed	
	9/13/2017	Cumulative	9/13/2017	Cumulative
Puerto Rico	1	2	0	0
U.S. Virgin Islands	0	0	0	0

SUPERFUND NPL, SUPERFUND REMOVAL, AND OIL REMOVAL SITES

EPA assessment teams have completed their assessments of Superfund and oil sites in Puerto Rico and in the U.S Virgin Islands with the exception of the below sites. The two remaining sites are oil sites. Guayanilla Bay, PR oil spill is a sub-surface oil plume that has discharged oil through a storm sewer line in the past. The storm sewer has been secured as part of the original oil spill response. No oil spills have been reported from this site. The Cruz Bay Oil Tank site involves an oil storage tank where the oil has been removed with the exception of oil sludge in the bottom of the tank. The tank was damaged during the storm but overflights of the area have not shown any oil spills from the site. The site will be addressed once access to St. John is possible.

SUPERFUND SITES (NPL, Removal and Oil)						
Puerto Rico						
Site	Type	Phase 1	Phase 2		Phase 3	All Phases Completed
		Post-Storm Assessment	Site Inspection Needed	Inspected	Additional Response Action	
Guayanilla Bay Oil Spill*	Oil Response	-----	No	N/A	No	-----
U.S. VIRGIN ISLANDS						
Cruz Bay Oil Tank**	Oil Response	09/11/17	Yes	video	No	-----

*Guayanilla Bay Oil Spill is a pre-storm OPA remediation site being addressed by an OSC.

**Cruz Bay Oil Tank is a pre-storm OPA remediation site being addressed by an OSC. Recent amateur video shows this tank has partially collapsed onto itself, but there was no release because the contents are semi-solid.

FIELD RESPONSE ACTIVITIES

PUERTO RICO

- The Fixed Facility Assessment Team assessed 5 federally regulated facilities during this operation period. For most of the facilities there was no significant impact from Hurricane Irma reported by facility contacts or observed by the teams. Some facilities have compromised security mostly due to downed fencing and surveillance camera damage.
- Specific facility assessment data is now being uploaded into Response Manager by

Weston.

- The Fixed Facilities Assessment Team Lead continues communication with PRASA personnel and requested feedback from PRASA island-wide in regard to impact. Real time information on the status of their impacted plants may be available in the future.

U.S. VIRGIN ISLANDS

- Facility Assessment Teams have completed 7 additional inspections. No issues have been reported for any facility.
- OSC Gallo reported to the St. Croix EOC and coordinated with DPNR and VITEMA regarding the Mission Assignments for the recovery of oil and hazardous materials including HHW (household hazardous waste).
- CIC Azzam and Loney coordinated with DPNR and VITEMA PIO’s.

REGION 2 REGIONAL EMERGENCY OPERATIONS CENTER (REOC)

- Coordinated with DECA for referral of potentially impacted facilities in the 10 municipalities of Puerto Rico that received a major disaster declaration.
- CEPD Water Programs conducted facility assessments at non-PRASA facilities on Puerto Rico.

The table below displays the teams that have been deployed based on the assessment results in Puerto Rico or the USVI.

Quantity and Types of Teams Deployed 9/13/2017		
Team Type	Puerto Rico	U.S. Virgin Islands
Assessment Team – All Missions	2	4
Water Assessment	2	0
Hazard Evaluation	2	0
Oil Discharge Assessment	0	0
Container Recovery	0	0
Oil Recovery	0	0
ER/Recovery	0	0
Air Operations	0	0
Contaminated Debris	0	1
Operation Centers (REOC), PREOC, VITEMA, PR IOF, VI IOF	3	2

PUERTO RICO

	CONTAINERS			TOTAL
	Drums (55 Gals)	Large Containers (<55 gals)	Large Containers (>55 gals)	
9/13/2017	0	0	0	0
Total to Date	0	0	0	0

U.S. VIRGIN ISLANDS

	CONTAINERS			TOTAL
	Drums (55 Gals)	Large Containers (<55 gals)	Large Containers (>55 gals)	
9/13/2017	0	0	0	0
Total to Date	0	0	0	0

AGENCY COORDINATION

As a result of the incident specific Caribbean Regional Response Team (CRRT) call with EPA, USCG, NOAA, DOI/USFWS, Army Corps of Engineers, FEMA, and DPNR, the USVI has been able to submit resource requests to FEMA with the help and assistance of the ESF organization. MAs are being processed for the oil and hazardous substance mission.

EPA is coordinating with the Coast Guard Pacific Strike Team (PST), who is deploying for Coast Guard Sector San Juan, PR in the USVI, to establish a Unified Command (UC) for the USVI ESF #10 response. The UC will support tactics in the inland and coastal areas.

The NOAA Scientific Support Coordinator will be arriving in St Croix with the Coast Guard at the end of this week. EPA is coordinating with NOAA and the Coast Guard on data collection that is currently occurring for Puerto Rico and USVI, particularly with ESF-10 targets. EPA will share data being collected in Response Manager with the Coast Guard. To support a Common Operating Picture (COP) we will bring Response Manager data into the Environmental Response Management Application (ERMA) site.

NOAA is also sharing USVI imagery from the Civil Air Patrol. And post-storm satellite imagery of St. Thomas.

We continue to share operational information with the Caribbean Regional Response Team (CRRT) federal, Commonwealth, and U.S. Territory agencies.

SPILL/RELEASE RESPONSE

Hotline Calls as of September 13, 2017	
Number of Irma Related Calls Received During Reporting Period 1300-0100	1
Total Number of Irma Related Calls to Date	2
* EPA is assessing each call to determine appropriate response and forwarding reports to field personnel to conduct further assessments and response as needed.	

DRINKING WATER / WASTEWATER

As of 8:00 AM on 9/14/17, 1.89% of the population is without drinking water services. This does not include the non-PRASA systems which account for 4% of the PR population.

CEPD/CWD Water Support Group in the REOC is coordinating with PRDOH, FEMA, and the USACE in order to avoid duplication of effort.

PRASA: All PRASA waste water treatment plants are in service. CEPD started inspections of Sanitary Pump Stations yesterday. Of the 8 pump stations visited yesterday, six were back in service. The 2 remaining were out of operation due to lack of power. CEPD will visit 5 pump stations today and the remaining 5 tomorrow. The Culebra WWT is being inspected today and the Vieques WWTP next Tuesday. With these inspections, we are finding out that there are not significant problems in PRASA operations.

Non-PRASA Drinking Water Status: CEPD and PRDOH contacted most of the non-PRASA systems between Tuesday and Wednesday. No major problems found. The systems without service were due to the lack of primary power. CEPD believes that there is no need to conduct assessments at the non-PRASA systems since there are no major problems encountered.

PREPA: 92% of population with power. All PREPA waste water treatment plants are in service.

USVI Drinking Water Status: On 9/11/2017 VIWAPA started operating the Reverse Osmosis plant in St. Thomas for WAPA distribution. WAPA previously used desalination but has switched to RO, run by Seven Seas. Mr. Mark working to get the updated status of the entire system (distribution) etc. Boil water notice was issued for Saint Thomas and Saint John. Chlorination system is up and running. CEPD waiting from some information from Mr. Marks in order to request assistance from the OSCs stationed in Saint Thomas.

USVI Wastewater: According to a report provided by Waste Management Authority, 6 of the 8 municipal wastewater treatment plants are in service. The only facility not in service is Vessup in Saint Thomas and the assessment of the George Simmonds WWTP has not been completed due to lack of access in the roads. In addition, WMA indicated that 4 of the 15

sanitary pump stations in Saint Thomas and Saint John are not in service. During a conversation held with DPNR on 9/12/2017, DPNR stated that they will request assistance from EPA to conduct assessments at the TPDES facilities in Saint Thomas and Saint John. On 9/13/2017, CEPD requested the OSCs deployed in St. Thomas to assess the wastewater treatment plants and pump stations in Saint Thomas and Saint John.

REGULATED FACILITIES

The Regulated Facility Team (RFT) continues to monitor responses to EPA’s post-Irma facility damage, oil spill, and chemical release assessment questionnaire. RMP, FRP, and SPCC facilities that have responded to the post-Irma questionnaire, including Puma, Total, Limetree Bay Bulk Storage Terminal, PRASA, PREPA, and VI WAPA have reported no spills, no chemical releases, and no upset conditions that could lead to an oil spill or chemical release. All FRP facilities in PR and USVI have responded to the post-Irma questionnaire, except for one in PR. Additionally, the RFT is actively following up on two RMP facilities in PR that have not responded to the post-Irma questionnaire. The RFT is now focusing much of its efforts on contacting SPCC facilities in northeastern PR, Culebra, Vieques, St. Thomas, and St. John. It has been noted that these areas continue to experience damage to communication infrastructure. The RFT continues to provide technical assistance to field assessment teams in PR and the USVI.

The Regulated Facility Assessment Coordinator is coordinating with other EPA regulatory programs to identify facilities that have experienced, or may potentially experience, spills or releases as a result of Hurricane Irma.

DECA-CAPSB-CAS Federal Facility Program Manager was in touch with the 5 federal facilities (FF) inspected in May 2017 under contract with Federal Facility Enforcement Office for multimedia inspections. Four of the 5 FF reported minor hurricane Irma damage due to fallen trees and power outages and no reported environmental events, and one FF no response to date. The DoD Regional Environmental Coordinator reported that the Army Corps of Engineers is working to check on their Vieques and Culebra Formerly Used Defense Sites to verify if any unexploded ordnance were newly exposed or washed ashore from the storm.

PUERTO RICO

Facility Type	Sites Identified	Pre-Storm Remote Assessment	Post Storm Remote Assessment	Post Storm Field Assessment	Follow-up Action Required
RMP	56	56*	53^	2	0
FRP	22	22*	21^	0	0
SPCC (non-FRP)	232#	232#*	15^	3	0
Total	310#	310#	89^	5	0

* Pre-Hurricane email requested facilities to self-identify any pre-existing compromised conditions (construction at process areas, tank maintenance, etc.). No facilities reported pre-existing compromised conditions.

^ Based on Post-Hurricane oil spill/chemical release/damage assessment email and phone calls. No facilities have reported oil spills, chemical releases, or upset/damage conditions that could lead to oil spill or chemical release.

This number reflects the number of known non-FRP SPCC facilities believed to be active.

U.S. VIRGIN ISLANDS

Facility Type	Sites Identified	Pre-Storm Assessment	Post Storm Assessment	Post Storm Field Assessment	Follow-up Action Required
RMP	1	1*	1^	1	0
FRP	6	6*	6^	3	0
SPCC (non-FRP) ^u	57 [#]	57 ^{#*}	9 [^]	11	0
Total	64[#]	64[#]	16[^]	15	0

[^] Pre-Hurricane email requested facilities to self-identify any pre-existing compromised conditions (construction at process areas, tank maintenance, etc.). No facilities reported pre-existing compromised conditions.

[^] Based on Post-Hurricane oil spill/chemical release/damage assessment email and phone calls. No facilities have reported oil spills, chemical releases, or upset/damage conditions that could lead to oil spill or chemical release.

[#] There is no SPCC submission requirement. This number reflects the number of known non-FRP SPCC facilities that are believed to be active based on inspection history.

^u Efforts shifted on 9/13/17 to focus on facilities on St. Thomas and St. John

EPA RESOURCES

Personnel	EPA Edison, NJ NYC San Juan, PR [^]	FEMA RRCC Colts Neck, NJ	Puerto Rico Deployments*	USVI Deployments*	Totals
EPA	53	1	13	21	88
START/RST	9	0	3	5	17
ERRS	5	0	0	0	5
Other Contractors	0	0	0	0	0
Totals	66	1	16	26	110

[^]Number includes personnel in the REOC, RICT, CEPD, and CID personnel that are working the response.

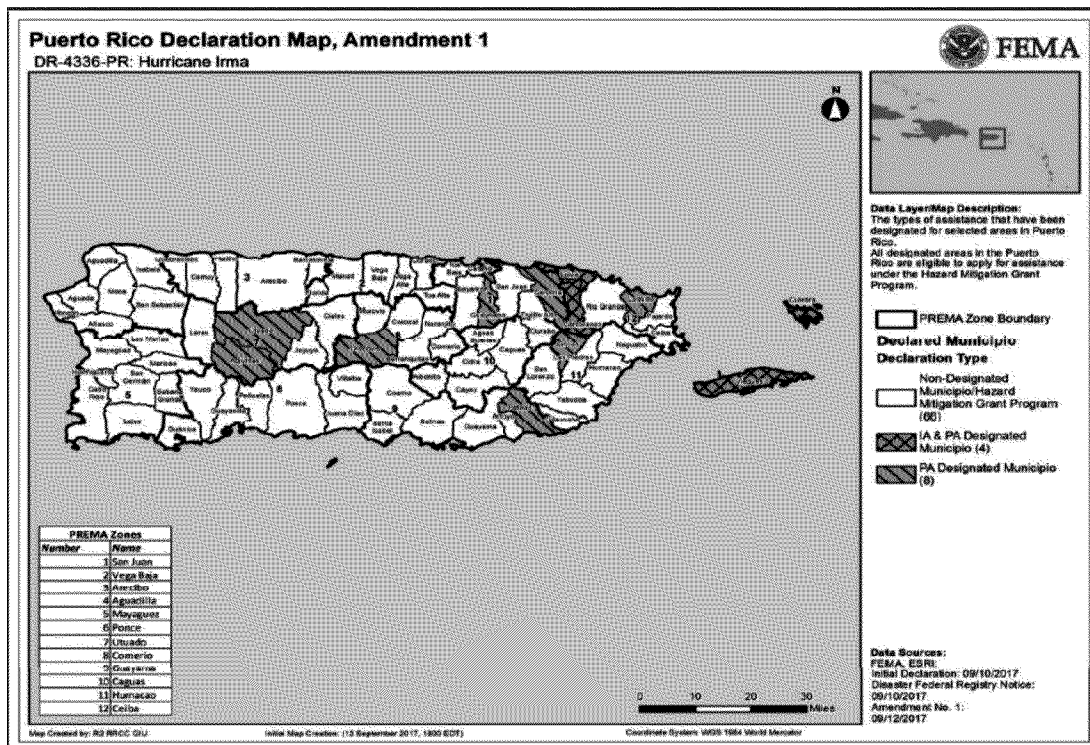
*Number includes personnel working at coordination centers and EPA Regional offices.

DECLARATIONS

Puerto Rico.

Emergency Declaration FEMA-3384-EM effective September 5. Assistance is for all 78 municipalities in the Commonwealth of PR. The Governor of Puerto Rico requested a disaster declaration 9/8.

Disaster Declaration FEMA-4336-DR effective September 9. Declared areas only include Culebra and Vieques. On 9/13 additional municipalities in Puerto Rico have been added to the major declaration, and are now eligible for work under any DFA MA's that we receive. The municipalities are: Adjuntas, Canovanas, Carolina, Guaynabo, Juncos, Loiza, Luquillo, Orocovis, Patillas, and Utuado.

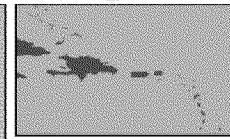
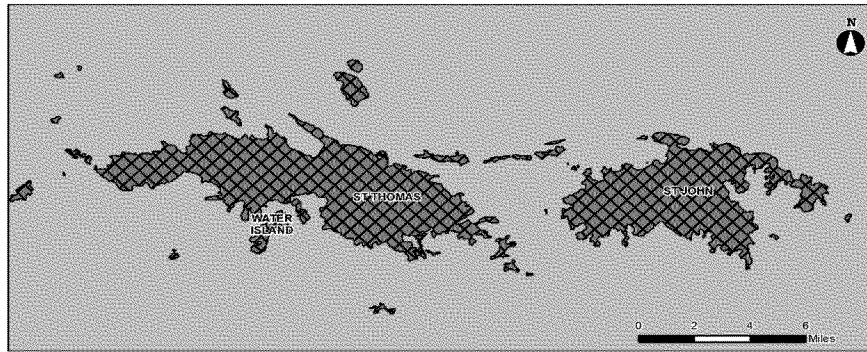


U.S. Virgin Islands.

Disaster Declaration FEMA-4335-DR effective September 7, 2017. St. Thomas and St. John approved for Individual Assistance, all islands eligible for Public Assistance and the Hazard Mitigation Grant Program.

Emergency Declaration FEMA-3383-EM effective September 5. Assistance is for all islands in the Territory of the USVI.

U.S. Virgin Islands Declaration Map (07 September 2017, 1200 EST)
 DR-4335-USVI: Hurricane Irma

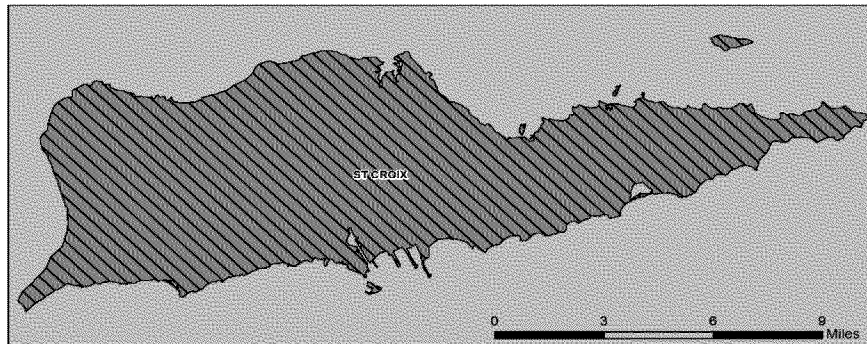


Data Layer/Map Description:
 The types of assistance that have been designated for selected areas in the U.S. Virgin Islands. All designated areas in the U.S. Virgin Islands are eligible to apply for assistance under the Hazard Mitigation Grant Program.

County Declared Declaration Type

IA & PA Designated County

PA Designated County (Category A & B and DFA)



Data Sources:
 FEMA, ESRI;
 Initial Declaration: 09/07/2017
 Disaster Federal Registry Notice: 09/07/2017

Map Created by: R2 RRCC GIU Initial Map Creation: 07 September 2017, 1200 EDT Coordinate System: WGS 1984 World Mercator

FUNDING

Mission Assignment	Purpose	Start	End	Total Amount	Indirect Costs	Amt. Available	Daily Burn Rate	Used	Balance
Number		Date	Date			(after indirect rate)			
VI-17090102-EPA-01	Activate EPA to FEMA R2 RRC Colts Neck, NJ to support FEMA response ops	9/2/2017	9/11/2017	\$10,000	\$1,046	\$8,954	\$1,080	\$8,954	\$0
4335DR-VI-EPA-01	Activate EPA to FEMA R2 RRC in Colts Neck, NJ to support FEMA response ops	9/7/2017	10/7/2017	\$100,000	\$10,466	\$89,534	\$1,080	\$8,640	\$80,894
3383EM-VI-EPA-01	Activate EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA & NRA Teams & other coordination venues to support FEMA response ops in VI	9/7/2017	9/16/2017	\$75,000	\$7,850	\$67,150	\$81,600	\$376,800	(\$309,650)
4335DR-VI-EPA-02	Perform assessment of oil/hazardous materials releases, contaminated debris, other environmental events in VI	9/7/2017	9/30/2017	\$508,000	\$53,170	\$454,830	\$18,000	\$72,000	\$382,830

PR-17090102-EPA-01	Activate EPA to FEMA R2 RRC & other locations as necessary for PR. For REOC pre-landfall costs.	9/1/2017	9/11/2017	\$20,000	\$2,093	\$17,907	\$	\$17,907	\$0
3384EM-PR-EPA-01	Activate EPA to FEMA R2 RRCC, EPA REOC, State EOC, JFO, PDA, & RNA Teams & other coordination venues to support FEMA response ops in PR	9/6/2017	9/16/2017	\$75,000	\$7,850	\$67,150	\$10,800	\$28,200	\$38,950
3384EM-PR-EPA-03	To perform assessment of oil & hazardous materials releases, contaminated debris & other environmental events following landfall in PR	9/9/2017	9/30/2017	\$508,000	\$53,170	\$454,830	\$12,000	\$44,400	\$410,430
4336DR-PR-EPA-01	Activate EPA to FEMA RRCC. <i>Funding for EPA command centers is authorized.</i>	9/10/2017	10/10/2017	\$100,000	\$10,466	\$89,534	\$0	\$0	\$89,534

FUEL WAIVERS

Fuel waivers are not needed for PR or USVI.

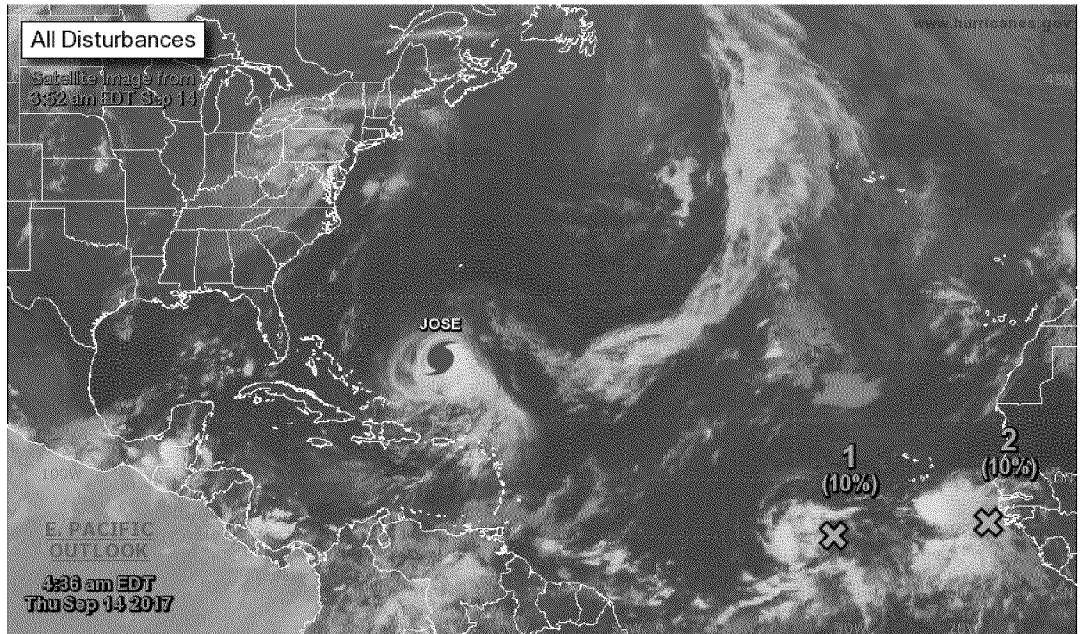
LONG RANGE PLANNING

- National Disaster Recovery Framework (NDRF) Activities.** FEMA has begun long range recovery planning and is in contact with the EPA Office of the Administrator's (OA) disaster recovery coordinator. The Acting Regional Administrator is Region 2's Federal Disaster Recovery Coordinator with CASD providing support. CASD is in communication with the OA and is working with CEPD and the other divisions to identify Region 2 contacts for the six Recovery Support Function (RSF) areas: 1.) Community Planning and Capacity Building, 2.) Economic Recovery, 3.) Health and Social Services, 4.) Housing Recovery, 5.) Infrastructure Systems, and 6.) Natural and Cultural Resources. This work will assist the Agency to identify potential recovery challenges and plan for resiliency. EPA Region 2 disaster response and recovery personnel are coordinating and will share our Irma data collection and results of our assessment efforts.
- Additional Threats.** No additional storm threats to impact the U.S. Caribbean.



Two-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



Current Disturbances and Two-Day Cyclone Formation Chance: ☒ < 40% ☒ 40-60% ☒ > 60%

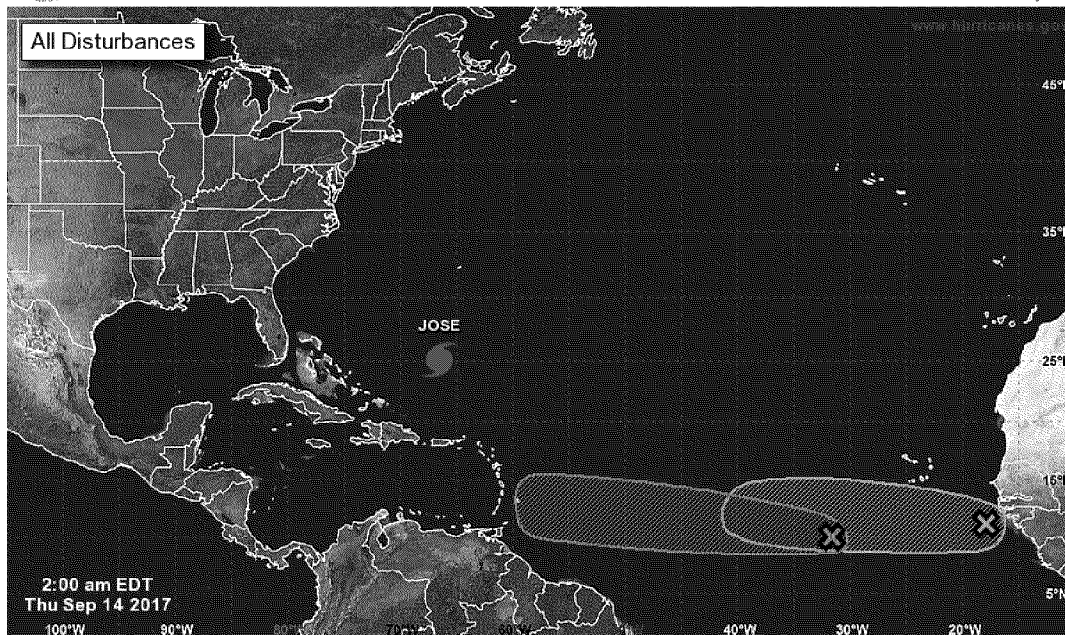
Tropical or Sub-Tropical Cyclone: ○ Depression ☒ Storm ☒ Hurricane

⊙ Post-Tropical Cyclone × Remnants



Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



Current Disturbances and Five-Day Cyclone Formation Chance: ☒ < 40% ☒ 40-60% ☒ > 60%

Tropical or Sub-Tropical Cyclone: ○ Depression ☒ Storm ☒ Hurricane

⊙ Post-Tropical Cyclone × Remnants

What Should Regional Administrators and Deputy Regional Administrators Know about EPA's Role in Disaster Recovery?

What Are EPA's Objectives for Recovery Operations?

- Build preparedness to mitigate future events – Lessen the impacts of disasters by assisting federal, state and local agencies and communities prior to disasters.
- Promote sustainable and resilient rebuilding - Use EPA's expertise to inform communities, states and federal partners about rebuilding for the long-term viability of regions' people, economies and natural ecosystems. Including:
 - Help communities adapt to climate change and incorporate green infrastructure into their resiliency planning.
 - Collaborate with other Federal agencies to leverage all Federal resources in support of sustainable and resilient recovery.
- Apply EPA's Knowledge – Provide EPA's expertise to other Federal agencies, states and communities in areas of EPA responsibility such as drinking and waste water infrastructure, brownfields, air quality, or oil and hazardous materials clean-ups.
- Streamline Federal Action- Work with our partner agencies to streamline Federal oversight to efficiently fulfill statutory, permitting and/or enforcement requirements in a timely fashion, including if enforcement discretion is warranted.
- Partner with EJ/Disadvantaged Communities – Actively engage vulnerable and overburdened communities so they can meaningfully participate and have their issues addressed during recovery operations and planning.



What is the Role of Response v. Recovery? Response and recovery are two separate but coordinated phases of disaster relief that may overlap. Response – which EPA carries out under the National Oil and Hazardous Substances Pollution Contingency Plan (managed by EPA) and the National Response Framework (managed by FEMA) – is typically conducted on a weeks to months timeframe for large scale events and addresses the immediate health and safety needs of the affected community. Recovery – EPA's responsibilities are outlined under the federal National Disaster Recovery Framework – a process that can last years, and which focuses on the long-term restoration of places and communities affected by disaster. Recovery operations can involve numerous EPA programs, not only those that were involved in the response phase; many programs involved in response take on additional responsibilities during recovery (e.g., during response, water programs may assess disaster damage, and, during recovery, begin working with states under the State Revolving Fund (SRF) program to rebuild water infrastructure).

How are Federal Disaster Recovery Operations Organized on a National Level?

When EPA is involved in recovery operations, it operates within the National Disaster Recovery Framework (NDRF). Coordinated by FEMA, the NDRF defines how Federal Agencies organize and operate to promote effective recovery and support States, Tribes and other jurisdictions affected by a disaster.

The NDRF is comprised of six Recovery Support Functions (**RSFs**) with a federal agency designated the Coordinating Agency for each one – **1) Community Planning and Capacity Building** (FEMA), **2) Economic Recovery Support** (DOC), **3) Health and Social Services** (HHS), **4) Housing** (HUD), **5) Infrastructure Systems** (USACE), and **6) Natural and Cultural Resources** (DOI). Although EPA is not a Coordinating Agency, it can play a significant part in recovery as an RSF Primary Agency (significant authorities, roles, resources) or Support Agency (specific capabilities or resources that support a primary agency in executing the mission of the RSF) for all six RSFs.

What Should a Region Consider When the Recovery Process Begins?

- (1) **Will EPA have a role in recovery?** Most disasters will not have a federal recovery effort requiring EPA involvement. In fact, FEMA has activated the NDRF for only a few incidents. When the NDRF is activated, and a sustained effort is needed, EPA managers should assess the appropriate extent of involvement and resources needed to accomplish the Agency's objectives.
- (2) **Who should the Region contact for assistance?** The Region should inform the Deputy Administrator's Office immediately of significant recovery operations. The EPA Headquarters (HQ) Office of Homeland Security represents EPA on FEMA's national-level Recovery Support Function Leaders Group, and can assist with interagency coordination. The Region should consult OCFO for financial coordination and NPM programs for program-specific issues.
- (3) **How should Regional recovery programs be organized?** Regions may need to involve a wide array of HQ and regional programs and organize multi-disciplinary teams. **Regional Incident Coordination Teams** can provide initial coordination and outreach during the response phase, in coordination with the HQ National Incident Coordination Team, but eventually regions may need to establish a **Regional Disaster Recovery Team**. These regional recovery contacts may then also want to contact each of the 6 RSFs and assign an EPA POC for each of them. (For example, the Water Program typically works with Infrastructure Systems (RSF #5) and the Sustainability Program works with Community Planning/Capacity Building and Housing (RSFs #1 and 4)).

What EPA Programs May Be Involved in Recovery Operations? Depending on the nature of the disaster, over 20 EPA existing programs may become involved in disaster recovery operations, including:

<u>Clean Water State Revolving Fund</u>	<u>ORD/Homeland Security Research</u>	<u>Brownfields</u>
<u>Drinking Water State Revolving Fund</u>	<u>Enforcement and Environmental Justice</u>	<u>NEPA</u>
<u>Global Climate Change Adaptation</u>	<u>Smart Growth/Sustainable Communities</u>	<u>Tribal Affairs</u>
<u>Agricultural Assistance</u>	<u>Air, including Indoor Air and Fuel Waivers</u>	<u>Energy Star</u>

These programs and their recovery work may be funded through regular EPA appropriations (according to usual processes), FEMA Mission Assignments, or through supplemental appropriations.

What is a Sustainability Advisor? In addition to identifying POCs for the RSFs, EPA may be requested to provide a **Sustainability Advisor** for the recovery operations, through a Mission Assignment. This position advises the FEMA Interagency Recovery Coordination team, RSFs, Federal state, and tribal partners and local officials on sustainable communities, climate change adaptation and low-impact growth, materials and products for recovery planners in the adaptation of sustainable, green, and resilient principles and practices. (See [EPA/FEMA Memorandum of Agreement](#))

How are Other Federal Programs Involved in Recovery Operations?

FEMA provides grants, through the Public Assistance (PA) Program for debris removal, emergency protective measures, mitigation, and the repair, replacement, or restoration of disaster-damaged, publicly owned and certain private facilities. FEMA also helps people directly through the Individual Assistance Program (IA), provides long term grants through the Hazard Mitigation Grant Program (HMGP) and runs the National Flood Insurance Program (NFIP).

HUD's Community Development Block Grant (CDBG) program provides annual grants on a formula basis but also provides flexible grants to help cities, counties, and States recover from Presidentially-declared disasters, especially in low-income areas, subject to availability of supplemental appropriations.

The **Army Corps of Engineers** coordinates federal public works and engineering-related support, as well as providing technical assistance, engineering expertise, and construction management to support recovery projects.



Hurricane Harvey/Irma Policy Coordinating Committee
(Deputy EOC Manager)

Draft Incident Management Objectives

September 11, 2017

Objective 1: Ensure that health and safety of the EPA response is considered at all times.

Objective 2: Establish an incident management structure and processes employing the Incident Command System to enable effective overall management of the event with deployment of resources (staff and equipment) in a rapid, aggressive and well-coordinated manner.

Objective 3: Ensure prompt Review and Processing of Fuel Waiver requests.

Objective 4: Prepare for and provide Rapid Assessment of Industrial facilities as requested by the State or under EPA's statutory program responsibilities for CERCLA Superfund, RMP and FRP facilities. Working with our state partners, contact industrial sources within the impacted area to determine their operational status and determine what support can be provided with the monitoring of the start-up of industrial sources.

Objective 5: Prepare for and provide Rapid Assessment & Technical Assistance Drinking Water & Wastewater facilities as requested by the State or local government. EPA will support our state partners in contacting drinking water and waste water systems.

Objective 6: Prepare a Sustained Response Plan that outlines the resource and equipment needs for a long duration response.

Objective 7: Activate the Agency's Crisis Communication Plan to insure effective and efficient coordination of all incident communications.

Objective 8: Encourage a collaborative federalism approach, where national, state and local governments interact cooperatively and collectively to solve common problems.

Objective 9: Begin Agency internal and external coordination, under the National Disaster Recovery Framework, regarding Recovery Support Functions in which EPA is likely to be involved.



Hurricane Harvey/Irma Policy Coordinating Committee
(Deputy EOC Manager)

Agenda

September 12, 2017

Opening Remarks Ryan Jackson
Barry Breen

Situational Updates

For each situational update would you please address the following topic areas in addition to Regional/Program specific highlights:

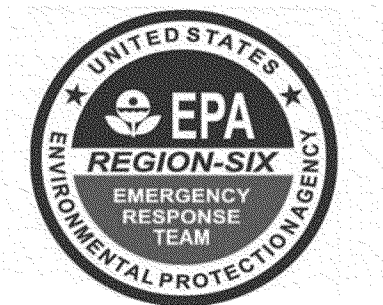
- What are you being asked to do/support from our Federal, State and Local partners?
- Are there actions you are considering leaning forward on to address a need or expedite our response activities?
- Are there program policy, legal, or resource issues impacting your operations?
- Discussion of recovery efforts

Region 2
Region 4
Region 3
OPA
OLEM

Harvey Update Region 6

General Discussion

Next Meeting



Hurricane Harvey 2017
9/12/2017 – 0700 CDT Update

EXECUTIVE SUMMARY

- EPA completed review of the Texas Water Development Board's requests for flexibility in using State Revolving Loan Funds to address damage by the hurricane and will respond to the state of Texas today. EPA believes that flexibilities can be implemented either through existing authority or by working together to process expedited waivers to current limitations. Where EPA Region 6 concurrence or approvals are necessary, EPA will plan to complete action on these requests by the next business day.
- EPA Environmental Justice Director Arturo Blanco will travel to Port Arthur today and then on to visit the Alabama-Coushatta tribe on Wednesday, September 12, 2017.
- EPA and TCEQ will meet with environmental advocates in Austin today.
- EPA has confirmed that private well testing is available to residents. 21 of the 39 disaster declaration counties offer an active program to provide private well testing for area residents. The remaining 18 counties have access to state programs to provide for private well testing at a nominal fee.
- Community Liaisons are assisting impacted counties by providing information about dealing with the environmental hazards of returning to flood damaged homes as well as obtaining input about other challenges or concerns.
- The Houston and Port Arthur/Beaumont Branches began recovering and staging orphan containers yesterday, September 11, 2017. The Corpus Christi Branch expects to complete activities within the next week. The Port Arthur/Beaumont Branch is projected to complete these activities within 20 days and the Houston Branch within 30 days, unless new work or mission assignments are tasked.
- Discussions at the Joint Field Office are now focusing on debris management operations. FEMA requested that EPA provide a debris management expert at the JFO. EPA will fill that role today. EPA's role in debris operations will become more clear in the coming days for both Texas and Louisiana.
- EPA will complete sampling of the 34 Superfund sites in Texas potentially impacted by the storm by Thursday. Preliminary analytical results should be available soon and will be released to the public. Final QA/QC data will be available in about 10 days.

- On September 12, 2017, EPA will begin sampling of the nine Superfund sites in Louisiana that were potentially impacted by the storm. Sampling will be completed by September 15, 2017 and preliminary analytical results should be available by September 18, 2017.
- EPA continues air monitoring activities around the Valero plant in southeast Houston to determine potential sources of VOCs in the community. Teams monitored the following facilities with the TAGA: Huntsman, Eco Services Operations, Goodyear, Flint Hills Resources-Houston Chemical Plant, TPC Group-Houston Plant. In addition to TAGA monitoring, the team did additional total VOC monitoring along the Eco Services Operations fence line and in the community adjacent to Eco Services Operations. No significant readings of VOCs were observed.
- The U.S. Department of Agriculture published a statement on September 11, 2017, that Certified Organic Farmers with livestock and crops in areas sprayed with “Naled” will not lose their organic certification status.
- ASPECT has completed flight operations for this response and will demobilize in the next two days and be available to support response operations associated with Hurricane Irma.

PUBLIC AFFAIRS

The Hurricane Harvey Story Map is final and has been posted on response.epa.gov. We are working to provide more visibility on EPA’s activities in Corpus Christi.

In a September 11, 2017, Reuters news article, “*US Coast Guard, EPA cleaning up a dozen Texas chemical spills after Harvey*”, information provided by the Unified Command shed light on efforts to assess and respond to reported spills of hazardous materials and oil, including at 12 facilities where Unified Command teams have assessed conditions.

EPA’s Public Information Officer will report daily to ESF-15 (External Affairs), enabling EPA and TCEQ news releases to reflect hazardous materials/oil assessment and recovery work of Corpus Christi, Houston and Port Arthur/Beaumont Branches, including the recovery of orphan containers.

EPA will update community environmental justice advocates via conference call on September 12, 2017. Additionally, EPA and TCEQ will meet with environmental advocates in Austin today, September 12, 2017.

Community Liaison (CL) teams continue to travel to affected counties to meet with emergency managers and other local officials. They are providing educational materials regarding dealing with the environmental hazards of returning to flooded areas and home. CLs also are collecting feedback on environmental and health challenges of particular concern to the residents.

DEBRIS RECOVERY

EPA’s representative at the JFO indicates that the state is currently assessing its capacity to manage debris collections and disposal. While we do not expect to receive a direct mission assignment for this work in Texas, it is possible that EPA may get tasked to assist with field observation of collection and segregation activities and oversight of landfill operations.

AIR MONITORING

The TAGA mobile laboratory monitored along the perimeter of the neighborhood adjacent to the Valero Houston Refinery, as well as between facilities and the Manchester neighborhood. The TAGA is expected to finish monitoring in the vicinity of the remaining industry in the Houston area.

EMERGENCY RESPONSE

Daily/Cumulative Summary of Hazard Evaluations/Recovery				
Status	Opened		Closed	
	9/11/2017	Number of Targets Remaining Open	9/11/2017	Cumulative
Corpus Christi Branch	1	11	1	91
Houston Branch	24	224	4	104
Port Arthur/Beaumont Branch	5	63	2	9
NRC Reports	0	2	0	1
TOTALS	30	300	7	205
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	
	9/10/17**	Number of Facilities/Spills Remaining Open	9/10/17**	Cumulative
Corpus Christi Branch	1	8	0	35
Houston Branch	3	47	1	41
Port Arthur/Beaumont Branch	1	17	1	10
NRC Reports	18	147	7	55
TOTALS	23	219	9	141
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 number of targets remaining opened has changed as QA/QC efforts have taken place and due to corrections made to the coding. Previous amounts were the total number of targets opened overall, not just those remaining open.				
** No updated numbers available for 9/11/2017				

Daily/Cumulative Summary of VESSELS				
Status	Opened		Closed	
	9/11/2017	Number of Vessels Remaining Open	9/11/2017	Cumulative
Corpus Christi Branch	24	239	2	151
Houston Branch	2	45	1	11
Port Arthur/Beaumont Branch	7	42	0	5
NRC Reports	3	6	0	6
TOTALS	36	332	3	186

FIELD RESPONSE ACTIVITIES

FIELD TEAMS ON 9/11/2017				
Teams	Alpha	Bravo	Charlie	TOTAL
Hazard Evaluation	1	2	2	5
Oil Discharge Assessment	2	7	1	10
ER/Orphan Container Recovery	1	6	1	8
Oil/Vessel Recovery	5	0	0	5
Staging Areas	1	1	1	3
Air Operations	0	1	1	2
Air Monitoring	0	3	0	3
Water Infrastructure Assessment – Drinking Water	0	11	0	11
Water Infrastructure Assessment – Wastewater	0	5	0	5
TOTAL	10	36	6	52

Waste Received at All Staging Pads to Date					
	CONTAINERS			Cylinders	TOTAL
	Drums [55 gals]	Small Containers [<55 gals]	Large Containers [>55 gals]		
9/10/2017	10	20	0	9	39
9/11/2017	10	24	3	6	43
TOTAL TO DATE	94	80	11	33	218

CORPUS CHRISTI BRANCH:

Two Oil Discharge Assessment Teams monitored salvage operations associated with the Signet Enterprise and the towing vessel Sandy Point. The Sandy Point was successfully lifted and removed from the beach.

Five Oil Discharge Recovery Teams monitored responsible party removal operations in Rockport, Fulton, Key Allegro, Cove Harbor, and Conn Brown Marinas.

HOUSTON BRANCH:

A Hazard Evaluation Team responded to a report of a chlorine release in the vicinity of Chocolate Bayou. No evidence of a chlorine release was found by the team.

Seven Discharge Assessment Teams assessed or recovered 25 targets within Galena Park, the Woodlands, and Chambers County. Two boat teams reassessed areas off San Bernard and Bastrop to verify there were no additional targets in those areas.

Six Emergency Response/Orphan Container Recovery Teams recovered 40 containers from Colorado, Austin, Waller, Fort Bend, Harris, Wharton, and Montgomery Counties.

The ASPECT flew the remaining Risk Management Program sites in the greater Houston area. Data will be processed and posted today, September 12, 2017. ASPECT has completed flight operations for the Harvey Response.

PORT ARTHUR/BEAUMONT BRANCH:

The Inland Task Force Hazard Evaluation Group, Orphan Container Recovery Group, and Oil Discharge Task Force conducted assessments in Lumberton, Sour Lake, Port Arthur, Sabine Pass, Beaumont, Bridge City, Beaumont Yacht Club, and Rose City.

Two Hazard Evaluation Teams conducted patrols of Orange County, the marine fueling pier and Rainbow Marina. Sixteen targets were assessed and no active discharges or significant environmental threats were observed.

The Discharge Assessment Team investigated four targets. Two of the targets will be recovered/cleaned up, one target was inaccessible due to its location inside a refinery and one was cleaned up/recovered and subsequently closed.

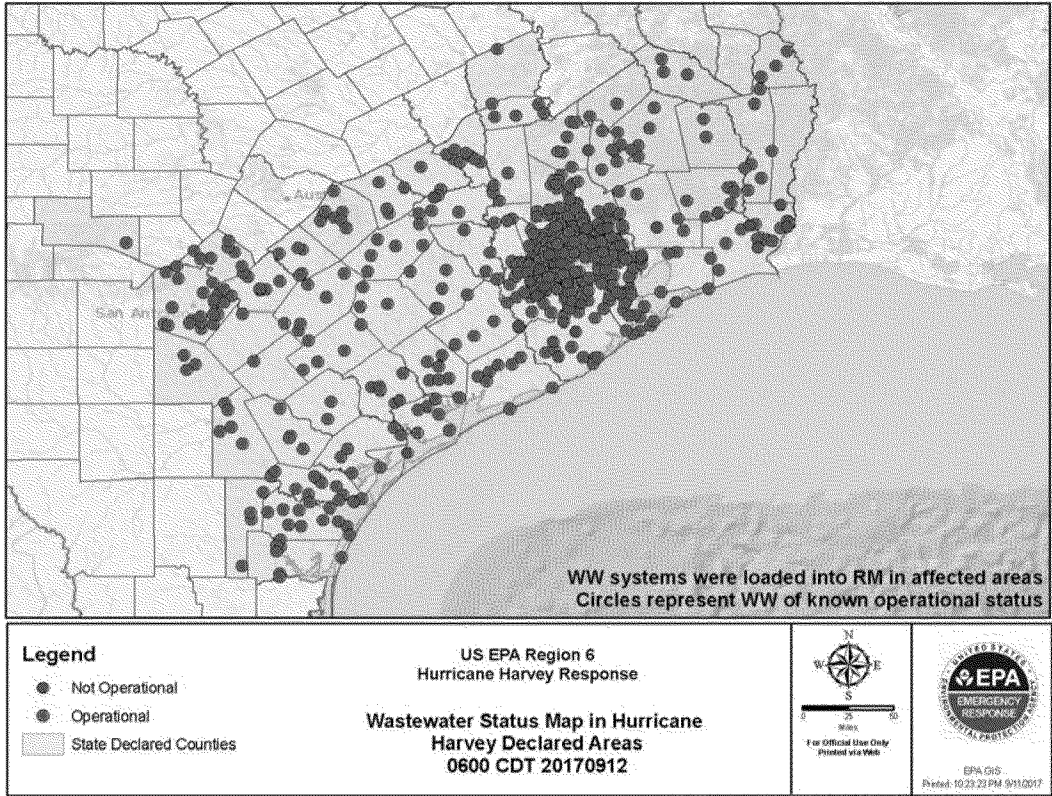
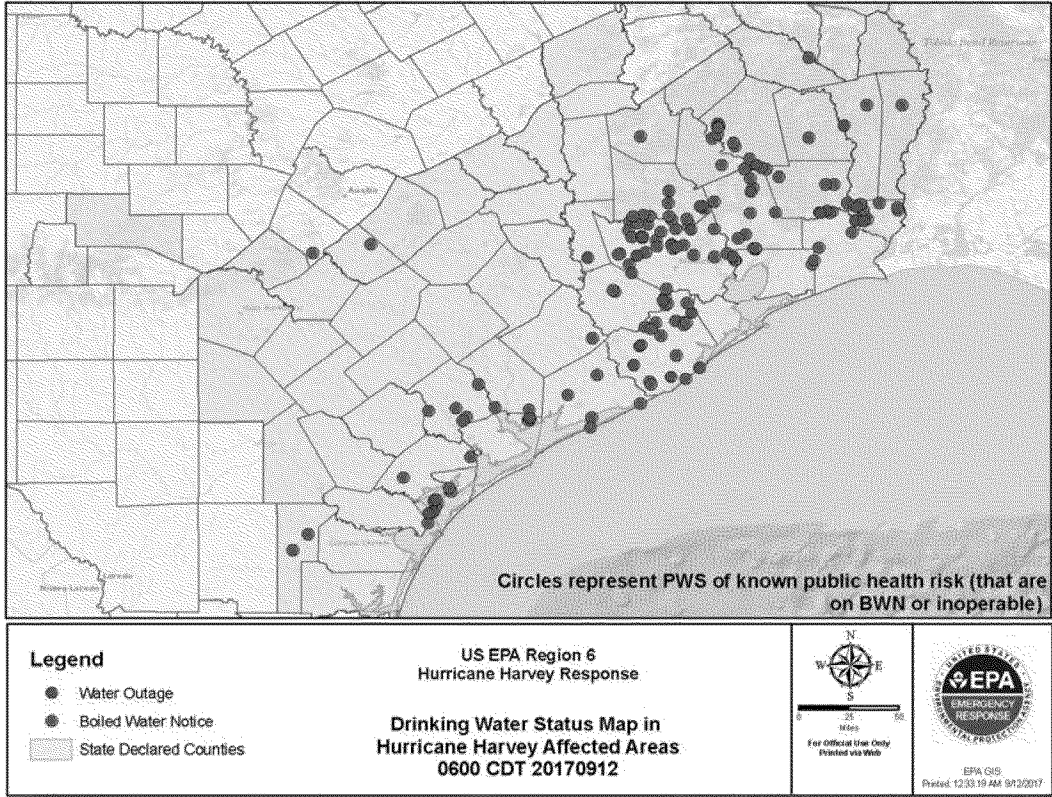
The Orphan Container Recovery Team investigated and recovered 14 targets. During an investigation of a 4,000-gallon diesel tank, a small leak was found. Another team will recover the tank on September, 12, 2017.

The staging area was completed and began receiving orphan containers today.

DRINKING WATER / WASTEWATER ASSESSMENTS

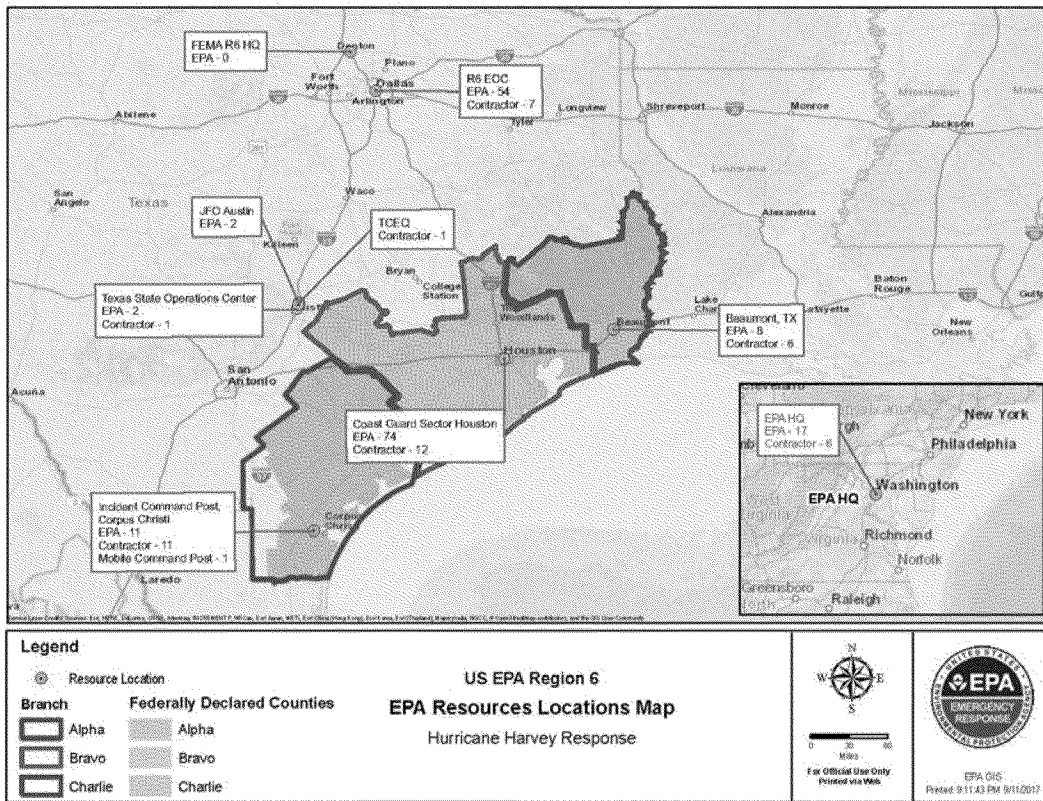
Fifteen EPA personnel are providing support to TCEQ for drinking water and wastewater system assessments in the Houston Branch.

Drinking Water and Wastewater Assessments (September 11, 2017)		
Assessment Types	Daily Assessments	Total Assessments
On-Site DW Assessments	43	467
On-Site WW Assessments	26	297
Phone DW Assessments	20	5211
Phone WW Assessments	0	3150



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	54	0	2	2	0	74	12	8	17	169
START	7			1	1	12	11	6		38
ERRS						19	6	5		30
Other Contractors	1								6	7
TOTAL	62	0	2	3	1	105	29	19	23	244



FUNDING

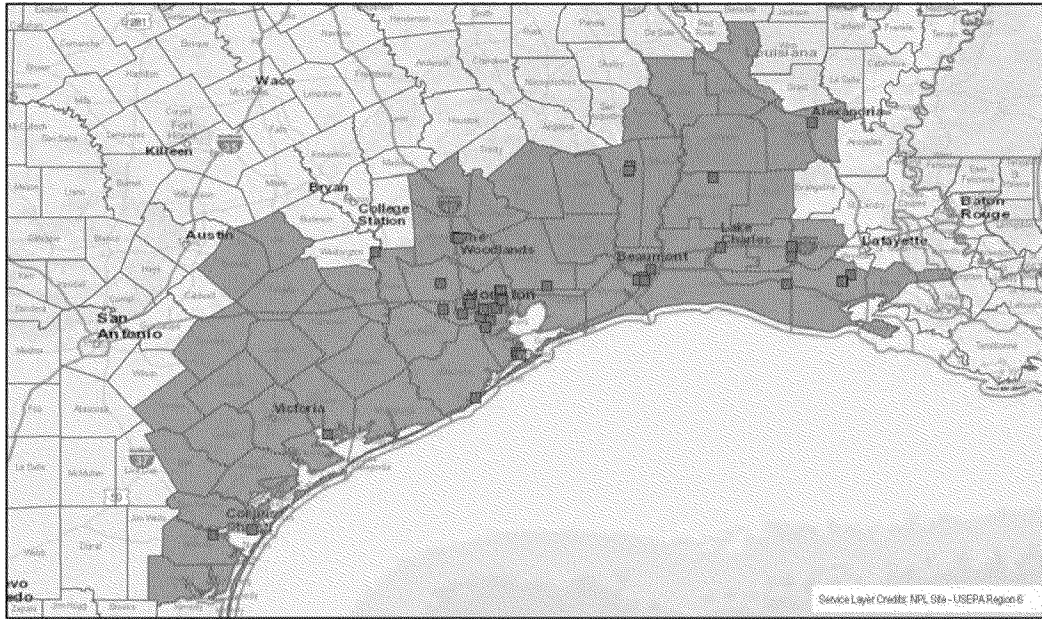
SitRep						
September 11, 2017, UPDATED 1300 hours						
Funding Sources	Funding Ceiling	Funding Ceiling Less Indirect	Spent to Date	Remaining Balance	Daily Burn Rate	Days Remaining
Non Mission Assignment	N/A		\$64,200.00	\$0.00		
MA 4332DR-TX-EPA-01	\$275,000.00	\$242,741.00	\$30,512.00	\$212,229.00	\$2,032.00	104.44
MA 4332DR-TX-EPA-03	\$10,092,000.00	\$8,908,113.00	\$6,146,909.21	\$2,761,203.79	\$320,450.23	8.62
Totals:	\$10,367,000.00	\$9,150,854.00	\$6,241,621.21	\$2,973,432.79		
** Indirect costs represent the money the Cincinnati Shared Service Center takes off the top to manage the Mission Assignments						
NOTE: This report includes estimated cumulative costs of the HQ EOC charging under MA#03. Awaiting clarification on the start date for charging the Mission Assignment, but at this time all estimated costs to date(9/10/17) are included						

REFINERIES / FUEL WAIVERS

- EPA extended the multi-state fuel waiver to September 26, 2017.
- EPA has granted all open fuel waivers requested to date.
- 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, BBBB, and 30 Texas Administrative Code sections 115.212, .214.
- The Internal Revenue Service red dye fuel waiver to covers the entire state of Texas

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

- EPA directed potentially responsible parties or independently started collecting samples at 34 Texas Superfund Sites and nine Louisiana Sites to confirm no releases due to storm impacts. Six EPA field teams, along with potentially responsible parties, completed sampling at 26 sites. Sampling in Texas will be complete by September 13, 2017 and sampling in Louisiana will be complete by 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 preliminary results are expected by September 18, 2017.
- All 43 Federal Superfund NPL Sites in the affected area have been assessed. Of these, 41 sites have been cleared and two sites (San Jacinto Waste Pits and U.S. Oil Recovery) require additional follow-up.
 - U.S. Oil Recovery Update: The potentially responsible party continues to pump down Lift Station #1 to maintain freeboard and continues to coordinate repair/replacement of the damaged/displaced plugs in the piping in the lift station and sand filter. The freeboard level in the lift station is close to being stabilized.
 - San Jacinto Waste Pits Update: Cap repairs continue on the remaining berm sections and samples continue to be taken and sent for analyses. The Dive team assessed areas identified as having missing armor stone and a sample plan will be developed based on this assessment.



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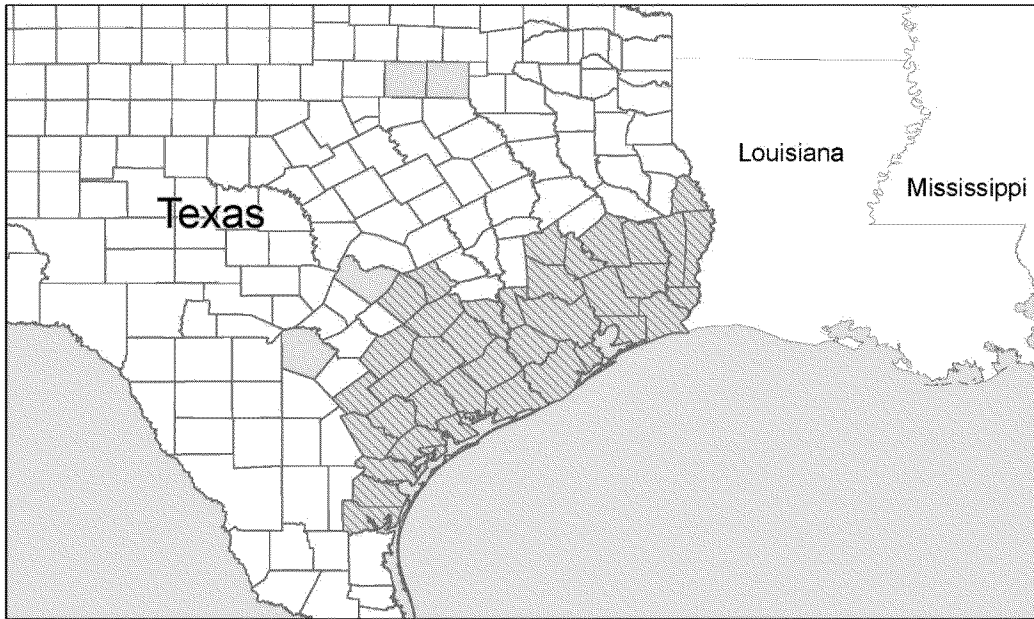
- NPL Sites (43)
- Coast Guard Area of Responsibility
- Federally Declared

US EPA Region 6
National Priority List (NPL) Sites
in Federally Declared Counties/Parishes

For Official Use Only
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FEMA – TEXAS COUNTIES WITH DISASTER DECLARATIONS



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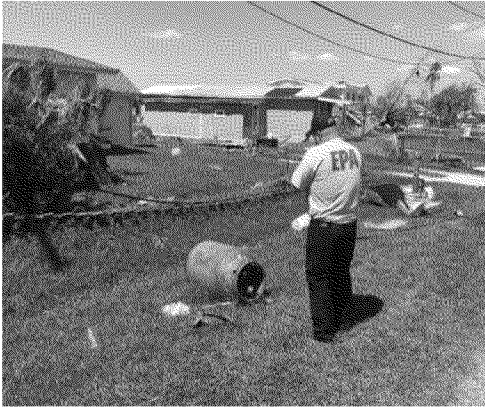
Federally Declared Counties in Texas

- No Designation
- A \ B
- B

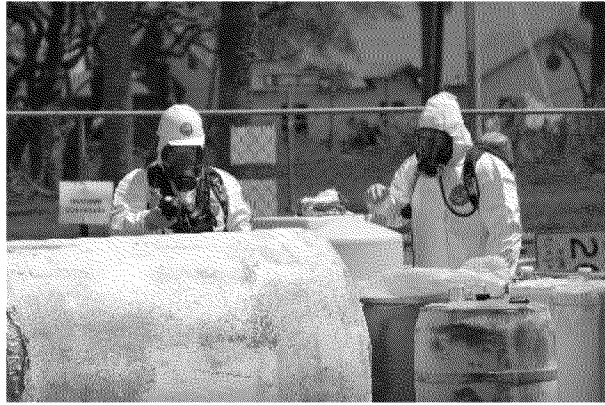
US EPA Region 6
FEMA - Texas Counties with
Federal Disaster Declarations
 Hurricane Harvey Response

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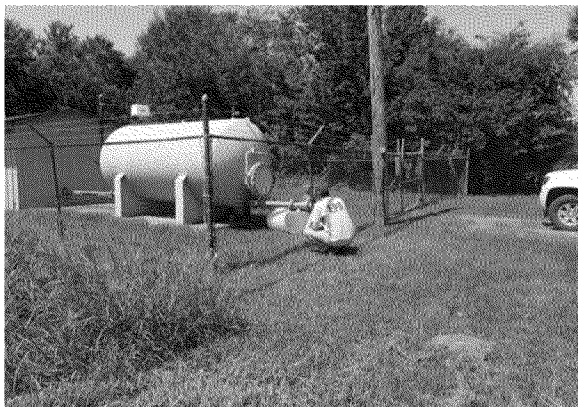
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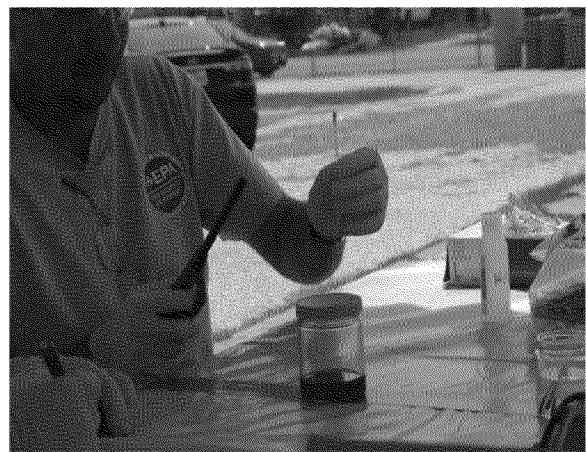
Corpus Christi Branch – Orphan Container Recovery Team



Corpus Christi Branch – Field Screening Containers



Houston Branch – Water Infrastructure Assessment Team



Corpus Christi Branch – Field Screening of Unknown Container Contents



Corpus Christi Branch – Field Screening Containers



Hurricane Irma 2017

9/12/2017 – 1030 EDT Update

EXECUTIVE SUMMARY

- In PR EPA continues to assist the local water and health departments in prioritizing drinking water facilities needs for Federal assistance. Currently, two communities have been identified in need of generators.
- Major declaration FEMA-4335-DR for all three (3) USVI Islands) 09/07/17. FEMA amended the major disaster declaration to authorize a 90% Federal cost share for debris removal, including DFA (direct federal assistance); and a 100% Federal cost share for emergency protective measures, including DFA, for 30 days from the start of the incident period, and then a 90% Federal cost share thereafter
- In Puerto Rico and the U.S. Virgin Islands four OSC's conducting environmental assessments. Two assessment teams will focus on assessing potentially contaminated debris in conjunction with USACE. Two assessment teams assessing oil and chemical fixed facilities.
- Twelve CID/NCERT agents deploying 9/13 to St, Croix, USVI to coordinate with FEMA ESF #13 and support the security needs of EPA personnel.
- On 9/9 PR Solid Waste Management Authority (SWMA) submitted two requests before the Puerto Rico Agency for the Management of Emergencies and the Administration of Disasters (AEMEAD):
 - for PR SWMA's costs for supporting recovery response related to the management of vegetative wastes, scrap and construction debris, and others managed by municipalities, the PR Department of Transportation and Public Works, PREPA, and other local agencies; and
 - requesting assistance from federal agencies (such as EPA) in the management of household hazardous waste.
- AEMEAD has to approve and submit these requests to FEMA, on behalf of the entire Government of Puerto Rico.
- Through their request, PR SWMA will enter into contracts with composting companies in Puerto Rico that will chip the vegetative materials at regional staging areas in Caguas, Arecibo, Toa Baja, Mayaguez, and Humacao. New regional staging

areas will be created upon demand.

- There are concerns with the landfills of Culebra and Vieques, which have limited capacity. PR will need assistance to manage the vegetative materials in Culebra and Vieques, and this could be a request of support to the USACE's Debris Team.
- PR SWMA is concerned with gasoline or oil tanks that could be discarded by municipalities in the staging areas and how EPA could provide support and input on their management.

PUERTO RICO / U.S. VIRGIN ISLANDS CONDITIONS

US Virgin Islands (USVI):

- VITEMA remains activated. State of Emergency declared; National Guard activated.
- USVI public schools remain closed.
- Juan Luis Hospital in St. Croix, USVI is operational. Schneider Medical Center St. Thomas has catastrophic roof damage.
- All of St. Thomas (19,581 customers) and St. John (2,893 customers) are without power. St. Thomas energized facilities: Airport, Hospital, Charlotte Amalie High School (CAHS), Lockhart Elementary School, Pump Station, and Yacht Haven Grande. Four retail gas stations on STT with generator power are dispensing gas. St. Croix: 25% of customers have no power.
- St. Croix: Henry E. Rohlsen Airport and runway open and operational. St. Thomas: Cyril E King Airport accepting Military aircrafts only, expected online 9/12 for commercial use.
- Status of Major/Primary Roads: St. John - Major damage on coastal roads, Coral Bay Road Route 107 severe, further assessments ongoing. St. Thomas – downed power lines and debris making it difficult to fully assess. St. Croix - damage minimal
- St. Thomas, St. Thomas & St. John 911 systems operational for cell and landline

Puerto Rico (PR):

- Puerto Rico Emergency Management Agency (PREMA) remains activated. State of Emergency remains in effect; National Guard activated.
- Schools and government offices are closed.
- DHS waived the Merchant Marine Act of 1920 ("Jones Act") allowing international vessels to dock at American seaports. Acting DHS Secretary approved the request

effective September 8.

- All hospitals are operational.
- 374,044 customers without electrical service (25.45% of population).
- All airports are open.
- 911 service restored for cell phone & landline.

PUBLIC AFFAIRS

The PIO is Elias Rodriguez, who can be reached at 212-637-3664. All press inquiries are directed to him, and coordinated through OPA.

PAD continues to maintain a public facing EPA Response web site at:
www.epa.gov/hurricane-irma.

PAD will continue to update the existing webpage. It is possible that we may migrate the information from this web site to a main EPA (Drupal) site, but we are awaiting further discussions with HQ OPA. In the meantime, we will do what we can to post for and support Region 4 content along with our own content. This will get complicated once we start producing data, so we are working on a longer-term plan.

Community Involvement: Two CICs are deployed – one on Monday to Puerto Rico and one leaving today for the USVI. In addition, two people from the response corps are being deployed today and will be joining out CICs to help do CIC work.

Public Inquiries:

CEPD assisted PAD get the proper numbers for general public inquiries.

Non-emergency (non 9-1-1) calls from the general public will be directed to two numbers in PR and USVI. This information will be posted to our website.

For complaints, tips, or information requests, please contact:

- Puerto Rico Emergency Management and Disaster Administration Agency (AEMEAD): 787-724-0124
- Virgin Islands Territorial Emergency Management Agency (VITEMA): 340-774-2244

We will track calls coming in to the EPA either through our 800 number (answered in Edison) or through CEPD, PAD or ORA. We have a tracking sheet, which will be distributed today.

Media Inquiries: A news release was issued on 9/10/17. We expect to issue at least one news release a day as we move into the future. PAD will be speaking to OPA about a long term

strategy, including discussing whether we continue to issue one release for the entire hurricane response or we divide the Irma response releases into Caribbean and Southeast US releases. Reporters are directed to email their inquiries to press@epa.gov.

Region 2 – Hurricane Irma Management Objectives

- Protect the health and safety of EPA employees pre-deploying and/or responding to the storm aftermath.
- Integrate EPA response assets with federal, state and local response structures
- Minimize social, political, and economic adverse impacts
- Keep the public, stakeholders and the media informed of response activities
- Protect communities from incident hazards
- Keep communities informed of incident hazards and clean up progress
- Establish communication and briefing schedule with R2 senior executives and EPA Headquarters. Support a consistent communications approach agency-wide, enabling EPA to act and speak in unison during these incidents
- Provide situation reports and other information on schedule provided by RIC
- Secure all NPL and removal sites. Regulated facilities and Superfund and oil sites will be surveyed prior to storm fall if a land impact is expected
- Identify vulnerabilities at regulated facilities
- Address any immediate hazardous substance releases or oil spills resulting from the storm's impact
- Assist state and local agencies in ensuring safety of drinking water systems.
- Monitor air quality when/if necessary in response to conditions on the ground.
- Provide guidance for length of work day and deployments as it pertains to this specific event
- Coordinate logistics with deployed personnel to provide transportation options, lodging, security, ground transportation on site;
- Coordinate national resources to assist the Region;
- Identify clearly defined roles for both Regions and Headquarters;
- The response will use the Region's incident specific Data Management Plan (DMP);
- In collecting, sharing, and analyzing environmental data, EPA will give primacy to data with potential human health consequences;
- EPA will work to ensure that its decision-makers have access to the data and expertise they need to make decisions based on sound science;
- Identify early in the response the long term recovery issues the Agency may be requested to support and determine the resource needs to support and sustain those requests to completion.

DEBRIS RECOVERY

U.S. Army Corps of Engineers and EPA debris team deployed in the USVI. EPA conducted debris assessments 9/11.

EPA coordinating with ACOE, FEMA, and the USCG to develop debris plans with Puerto Rico and USVI. Debris Assessment Teams are deployed in both Puerto Rico and the USVI.

AIR MONITORING

No air monitoring activities.

EMERGENCY RESPONSE

Daily/Cumulative Summary of Hazard Evaluations/Recovery				
Status	Opened		Closed	
	9/10/2017	Cumulative	9/10/2017	Cumulative
Puerto Rico	5	7	5	7
U.S. Virgin Islands	0	0	0	0

Note: Open means that 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				
Status	Opened		Closed	
	9/10/2017	Cumulative	9/10/2017	Cumulative
Puerto Rico	0	0	0	0
U.S. Virgin Islands	0	0	0	0

SUPERFUND NPL, SUPERFUND REMOVAL, AND OIL REMOVAL SITES

EPA assessment teams will continue to assess Superfund and oil sites in Puerto Rico and will begin assessment work today in the U.S Virgin Islands. The Region continues to reach out to all the responsible entities, whether they be our contractors for fund-lead projects or PRPs, for NPL sites, active removal actions and oil response actions, with regard to assessing impacts to the site. Assessment teams will verify site status.

SUPERFUND SITES (NPL, Removal and Oil)						
Puerto Rico						
Site	Type	Phase 1	Phase 2		Phase 3	All Phases Completed
		Post-Storm Assessment	Site Inspection Needed	Inspected	Additional Response Action	
Atlantic Fleet Weapons	NPL	09/08/17	No	N/A	No	09/08/17
Juncos Landfill	NPL	09/07/17	No	N/A	No	09/07/17
Upjohn Facility	NPL	09/07/17	No	N/A	No	09/07/17
Arecibo Battery Recycling Corp.	Removal & NPL*	09/05/17	No	N/A	No	09/05/17
Corozal Battery	Removal & NPL*	09/05/17	No	N/A	No	09/05/17

Cabo Rojo Groundwater	NPL	09/11/17	No	N/A	No	09/11/17
Cidra Groundwater	NPL	09/11/17	No	N/A	No	09/11/17
Dorado Groundwater	NPL	09/11/17	No	N/A	No	09/11/17
Fibers Public Supply Wells	NPL	09/11/17	No	N/A	No	09/11/17
Hormigas Groundwater	NPL	09/11/17	No	N/A	No	09/11/17
Maunabo Urbano Public Wells	NPL	09/11/17	No	N/A	No	09/11/17
Papelera Puertorriquena, Inc.	NPL	09/11/17	No	N/A	No	09/11/17
Pesticide Warehouse 1	NPL	09/11/17	No	N/A	No	09/11/17
Pesticide Warehouse III	NPL	09/11/17	No	N/A	No	09/11/17
San German Groundwater	NPL	09/11/17	No	N/A	No	09/11/17
Scorpio Recycling	NPL	09/11/17	No	N/A	No	09/11/17
Vega Alta Public Supply Wells	NPL	09/11/17	No	N/A	No	09/11/17
Vega Baja Solid Waste Disposal	NPL	09/11/17	No	N/A	No	09/11/17
Guayanilla Bay Oil Spill	Oil Response	Not assessed				
Puma Caribe (CAPECO)	Oil Response	09/11/17	No	N/A	No	09/11/17
U.S. VIRGIN ISLANDS						
TUTU Well Field	NPL	09/08/17	No	N/A	No	09/08/17
Crum Bay Oil Spill at WAPA Facility	Oil Response	09/08/17	No	N/A	No	09/08/17
Cruz Bay Oil Tank	Oil Response	09/11/17	Yes			

* These are Sites that have both, a Removal and Remedial program action. Only one assessment will be conducted per Site.

FIELD RESPONSE ACTIVITIES

No major oil spills or threats of releases of hazardous substances have been reported to date. There is widespread damage to boats in marinas and likely widespread smaller oil spills. We are coordinating with Coast Guard to identify any needs for assistance

PUERTO RICO

- In Puerto Rico post-storm assessments continue. Assessment Teams conducting field assessments in Puerto Rico supported by EPA START/RST contractors. Teams are focusing on hazardous substance and oil releases and spills, fixed chemical and oil facilities and drinking water and wastewater facilities.
- On 9/11, Preliminary Damage Assessment Teams assessed two (2) FRP/SPCC facilities and one (1) RMP facility.
- No significant impact from Hurricane Irma was reported by facility contacts or observed by the teams. Some facilities have compromised security mostly due to downed fencing.
- Safety Officer and Community Involvement Coordinator landed safely and have

joined the teams.

U.S. VIRGIN ISLANDS

- EPA went to VITEMA EOC on STX. Met with USCG, VITEMA, DPNR and VIWMA personnel.
- VIWMA has not yet identified any debris staging areas on STT/STJ as of 9/11. Cleared debris just pushed off the road at this point. Assessed STX debris collection at Estate Body Slob. Trucks of vegetative debris are rolling in. Platform in place to view truck contents prior to dumping.
- DPNR is staffing EOC on STT and STX. No known issues yet. DPNR trying to get a DPNR vehicle and driver available to transport EPA around STT on a day trip for assessment activities.
- EPA toured Frederiksted and the west end road. Vegetative debris piles are present awaiting pickup.
- Rolloff containers were seen throughout the island staged for residential waste.
- Military flights available from UPS terminal on east end of STX airport. Fixed wing and rotary wing airframes available. Responders sign in, and catch the next available seat.
- STT/STJ curfew from 1800 hrs to 0600 hrs.
- Facility Assessments performed at VI Asphalt and Limetree Terminal. No immediate threats observed at either facility. No spills or issues of concern observed or identified.

The table below displays the teams that have been deployed based on the assessment results in Puerto Rico or the USVI.

Quantity and Types of Teams Deployed 9/10/2017		
Team Type	Puerto Rico	U.S. Virgin Islands
Assessment Team – All Missions	2	4
Water Assessment	0	0
Hazard Evaluation	2	0
Oil Discharge Assessment	0	0
Container Recovery	0	0
Oil Recovery	0	0

ER/Recovery	0	0
Air Operations	0	0
Contaminated Debris	0	1
Operation Centers (REOC), PREOC, VITEMA, PR IOF, VI IOF	3	2

PUERTO RICO

	CONTAINERS			TOTAL
	Drums (55 Gals)	Large Containers (<55 gals)	Large Containers (>55 gals)	
9/10/2017	0	0	0	0
Total to Date	0	0	0	0

U.S. VIRGIN ISLANDS

	CONTAINERS			TOTAL
	Drums (55 Gals)	Large Containers (<55 gals)	Large Containers (>55 gals)	
9/10/2017	0	0	0	0
Total to Date	0	0	0	0

AGENCY COORDINATION

USCG assessing private vessels destroyed by Irma. Fuel oil in the water. They are awaiting cleared roads and the ability to support cleanup personnel before anything can be done. Space to haul out these vessels will be difficult to find.

EPA, USCG, NPFC, and NOAA coordination call scheduled for 9/12 to address ongoing assessments and begin planning joint operations for both PR and USVI.

EPA coordinating with the USCG to use joint staging areas in both PR and USVI for debris and oil and hazardous substance disposal.

We are sharing operational information with the Caribbean Regional Response Team (CRRT) federal, Commonwealth, and U.S. Territory agencies.

SPILL/RELEASE RESPONSE

Hotline Calls as of September 10, 2017	
Number of Irma Related Calls Received During Reporting Period 1300-0100	0
Total Number of Irma Related Calls to Date	0
* EPA is assessing each call to determine appropriate response and forwarding reports to field personnel to conduct further assessments and response as needed.	

DRINKING WATER / WASTEWATER

Puerto Rico Drinking Water Status: As of 8 AM on 9/12/17, **3.58%** of the population is without drinking water services. This does not include the non-PRASA systems which account for 4% of the PR population. PR remains under a boil water notice, and we are confirming the scope. PRDOH is back to functionality and is going to start the coordination of inspections to check operational status of the drinking water systems. CEPD/CWD Water Support Group in the REOC is coordinating with PRDOH, FEMA, and the USACE in order to avoid duplication of effort.

PRASA: All PRASA waste water treatment plants are in service. However, 15 of the nearly 800 sanitary pump stations are overflowing sewage due to problems caused by the hurricane. CEPD is coordinating visits to the pump stations, the Dorado WWTP, and the Culebra WWTP as soon as conditions allow.

PREPA: 75% of population with power.

PREPA: All PREPA waste water treatment plants are in service.

Non-PRASA Drinking Water Status: Highlighted systems need assistance. Systems that do not answer the phone will be visited by CEPD starting Wednesday. Information has been shared with PRDHOH and our staff located in the PREOC.

PWS ID No.	System Name	Population	Source	Region	Comments	Status as of
PR0116041	Sistema de Agua Dual Barraza	800	GW	Metro	Phone number not in	9/11/2017

					operation (9/8) (9/11) No response	
PR0132021	Lomas Verdes (Watch Tower)	130	GW	Metro	Wrong phone number	9/11/2017
PR132071	El Día	1100	GW	Metro	Mr. Bedoya does not work in the PWS anymore. Left message on Mayra Rivera's voice mail.	9/11/2017
PR0207002	Campamento Penal Sabana Hoyos	400	GW	Norte	Wrong number Busy Signal	9/11/2017
PR0207042	Arrozal- Los Muertos	350	GW	Norte	No answer	9/11/2017
PR0207052	Observatorio de Arecibo	100	GW	Norte	Mr. Wilson reported a functional system.	9/11/2017
PR0207062	MSD International GmbHPR Branch	342	GW	Norte	Number not in service	9/11/2017
PR0209012	Pfizer Pharmaceuticals	1400	GW	Norte	Operator not in service. Extension provided is incorrect.	9/11/2017
PR0209032	Abbott Pharmaceuticals PR LTD	1997	GW	Norte	Mr. Juan E. Crespo (Utilities Coach) reported a functional system.	9/11/2017
PR0209092	MSD International GMBH	710	GW	Norte	Mr. Juan E. Crespo (Utilities Coach) reported a functional system.	9/11/2017
PR0209122	Abbott Pharmaceuticals PR LTD	710	GW	Norte	Mr. Juan E. Crespo (Utilities Coach) reported a functional system.	9/11/2017
PR0220042	Pozo Azul Corp.	305	GW	Norte	Not in Service	9/11/2017
PR0242012	Lucas Lugo	40	GW	Norte	Busy Signal	9/11/2017
PR0242052	Asoc. Pro Bienestar Magueyes	140	GW	Norte	Busy Signal	9/11/2017
PR0242062	Vega Acevedo	396	GW	Norte	Busy Signal Busy Signal	9/11/2017
PR0242122	Com. Las Cuarenta	212	GW	Norte	Busy Signal	9/11/2017
PR0247022	Patheon Puerto Rico	300	GW	Norte	Paola Feliú (Utilities Supervisor) reported that they have been connected to PRASA since 1 month ago. According to Paola, a failure in the electricity produced a damage to the Non PRASA pump.	9/11/2017
PR0247032	Warner Chilcott PR LLC	300	GW	Norte	Left message	9/11/2017

PR0247042	Caribe Agrichemicals	380	GW	Norte	Busy signal	9/11/2017
PR0247092	Monasterio Madre De Dios	32	GW	Norte	NO Electricity. System has a generator in place, but there are having problems with the generator. Repairs may be done on Monday.	9/8/2017
PR0272032	Finca William Lugo	60	GW	Norte	Temporary Disconnected Temporary Disconnected	9/11/2017
PR0272282	Finca Carbonell	240	GW	Norte	No phone number provided.	9/11/2017
PR0274012	Pfizer Pharmaceuticals Limited	1500	GW	Norte	Left a message to Jose Aleman & Alexandra Perez. Everything worked appropriately during the emergency with a generator. They received Power yesterday.	9/11/2017
PR0274022	Euro Caribe Packing Company (Mato Santos)	275	GW	Norte	Left message with receptionist, Magda.	9/11/2017
PR0302013	Comunidad Gabino Negrón	740	GW	Oeste	Busy Signal Busy Signal	9/11/2017
PR0302023	Jaguey Chiquito	856	GW	Oeste	Contacted Luis Suarez. No electricity as of 9/9/2017. System has a generator that is operating intermittently. Mr Suarez requested EPA to contact him again this afternoon as we had some communication issues. CEPD spoke with Mr. Carrero, still no electricity. Working the system with a small generator. Due to what the generator can do they provide water to part of the community one day, and the next to the rest.	9/11/2017
PR0302033	Quebrada Larga	488	GW	Oeste	Wrong phone number Busy Signal – left message	9/11/2017
PR0302043	La Ceiba	400	GW	Oeste	No response Left message	9/11/2017
PR0302053	Com. Aislada en Desarrollo	440	GW	Oeste	Busy Signal Busy Signal	9/11/2017
PR0302063	Com. Cerro Gordo	304	GW	Oeste		9/11/2017

	Sec. El Parque				Busy Signal	
PR0302073	Escuela Atalaya	270	GW	Oeste	No response	9/11/2017
PR0302083	Proyecto Aguas	412	GW	Oeste	Busy Signal	9/11/2017
PR0303013	Jardin del Atlantico	165	GW	Oeste	Power and water services restored.	9/11/2017
PR0303023	Acued. Correccional Guerrero	1100	GW	Oeste	Busy Signal	9/11/2017
PR0306023	Corcobada	360	GW	Oeste	Phone number not in service	9/11/2017
PR0306053	Acueducto Rural Bo. Hatillo Anasco	300	GW	Oeste	Not in Service Not in Service Busy Signal	9/11/2017
PR0306083	Humatas Deep Water	170	GW	Oeste	Power and water services restored on 9/8/2017.	9/9/2017
PR0306093	Acued. Rural Daguey Ajies Arriba	840	GW	Oeste	Power restored on 9/8/2017. Community utilized water by gravity from their storage tank.	9/9/2017
PR0351023	Sonador II	800	GW	Oeste	Power restored 09/09/2017. System utilized a generator.	9/9/2017
PR0364083	Hospital de la Concepcion	900	GW	Oeste	System with generator. No power or water issues.	9/9/2017
PR0367013	Acueducto Rural Guacio	189	GW	Oeste	Power and water services restored.	9/11/2017
PR0367053	Acueducto Rural Guadalupe Mart	81	GW	Oeste	No response	9/11/2017
PR0401014	Las Cruces	130	GW	Sur	Wrong phone number	9/11/2017
PR0401024	Guilarte Helechales	219	GW	Sur	Busy Signal No Response No Response	9/11/2017
PR0401034	Pellejas Adjuntas	260	GW	Sur	Talked to Ms. Elena Oquendo. Community with no power and no water. Utilizing rain water for basic needs.	9/11/2017
PR0401064	Comunidad Palomo	120	GW	Sur	Busy Signal	9/11/2017
PR0401074	Sector Los Hernandez Adjuntas	240	GW	Sur	Talked to Mrs. Rivera 787-317-5281. Community has no water, no power. Need generator. No response on 9/11.	9/09/2017 9/11/2017
PR0401144	Limani	150	GW	Sur	787-829-0933. Community has no power, but has a generator.	9/9/2017

					No response.	9/11/2017
PR0401234	Garzas Juncos	460	GW	Sur	787-218-4702. Community has no power, but has a generator.	9/9/2017
					No response.	9/11/2017
PR0401284	Juan Gonzalez	500	GW	Sur	Busy Signal	9/9/2017
					Busy Signal	9/11/2017
PR0422014	Asociacion Residente San Diego Coamo	368	GW	Sur	No response	9/9/2017
					Power and water services restored.	9/11/2017
PR0422084	Coamo Arriba	340	GW	Sur	No response	9/9/2017
					No response	9/11/2017
PR0422094	Comunidad Monteria	360	GW	Sur	No response	9/9/2017
					No response	9/11/2017
PR0455054	Fca. Geraldo Pagan	680	GW	Sur	No response	9/9/2017
					No response	9/11/2017
PR0455114	Comunidad Sabana	720	GW	Sur	Temporary Disconnected	9/9/2017
					Temporary Disconnected	9/11/2017
PR0455134	Pellejas Galleras	25	GW	Sur	Busy Signal	9/9/2017
					Apparent disconnection	9/11/2017
PR0455164	Pellejas II	500	GW	Sur	No power, no water service. Need generator.	9/9/2017
					Not in service.	9/11/2017
					No response.	9/11/2017
PR0455214	El Perico II	88	GW	Sur	No response	9/9/2017
					No response.	9/11/2017
PR0455234	Damian Arriba	320	GW		787-867-1878 Mrs. Rivera. No power, no water services. System has a generator, but use it intermittently as they don't have problems obtaining gas.	9/9/2017
					No water and power services.	9/11/2017
PR0666056	La Cuchilla	400	GW		New President is Efrain De Jesus Rivas. Community has no water, no electricity. EPA provided information on location of PRASA oasis.	
					No response.	9/11/2017

USVI Drinking Water Status: No new updates

USVI Wastewater: The 8 municipal wastewater treatment plants are in service. DPNR is contacting facilities and will provide updates. No significant damage or operational issues have been reported regarding major facilities on St. Croix. Still collecting information regarding St. Thomas and St. John. No information on sanitary pump stations. CEPD will request the OSCs deployed in St. Thomas to assess the wastewater treatment plants and pump stations. CEPD has a call scheduled with DPNR personal this afternoon to strategize assessments and get further updates.

REGULATED FACILITIES

The Regulated Facility Team (RFT) continues to receive email and telephone responses to EPA’s post-Irma facility damage, oil spill, and chemical release assessment efforts. As facility personnel obtain access to their facilities they continue to report no spills, no chemical releases, and no upset conditions. High risk facilities in Puerto Rico and the US Virgin Islands, such as Puma, Limetree Bay, PRASA, and WAPA have reported no significant damage to their oil and/or chemical operations. The RFT has contacted the VI DPNR and provided a brief update on the status of major oil and chemical facilities that have responded to the post-impact damage assessment/oil spill/chemical release mass email and phone calls. The RFT is prepared to provide technical assistance to field assessment teams currently being deployed.

Puerto Rico

Facility Type	Sites Identified	Pre-Storm Assessment	Post Storm Assessment	Post Storm Field Assessment	Follow-up Action Required
RMP	1	1*	1*	1	0
FRP	6	6*	6*	6	0
SPCC (non-FRP)	57#	57#*	5*	5	0
Total	64#	64#	12*	12	0

* Based on Post-Hurricane oil spill/chemical release/damage assessment email and phone calls. No facilities have reported oil spills, chemical releases, or upset/damage conditions that could lead to oil spill or chemical release.

There is no SPCC submission requirement. This number reflects the number of known non-FRP SPCC facilities that are believed to be active based on inspection history.

Facility Type	Sites Identified	Pre-Storm Assessment	Post Storm Assessment	Post Storm Field Assessment	Follow-up Action Required
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RMP	1	1*	1^	1	0
FRP	6	6*	6^	6	0
SPCC (non-FRP)	57#	57#*	5^	5	0
Total	64*	64#	12^	12	0

* Pre-Hurricane email requested facilities to self-identify any pre-existing compromised conditions (construction at process areas, tank maintenance, etc.). No facilities reported pre-existing compromised conditions.

^ Based on Post-Hurricane oil spill/chemical release/damage assessment email and phone calls. No facilities have reported oil spills, chemical releases, or upset/damage conditions that could lead to oil spill or chemical release.

There is no SPCC submission requirement. This number reflects the number of known non-FRP SPCC facilities that are believed to be active.

EPA RESOURCES

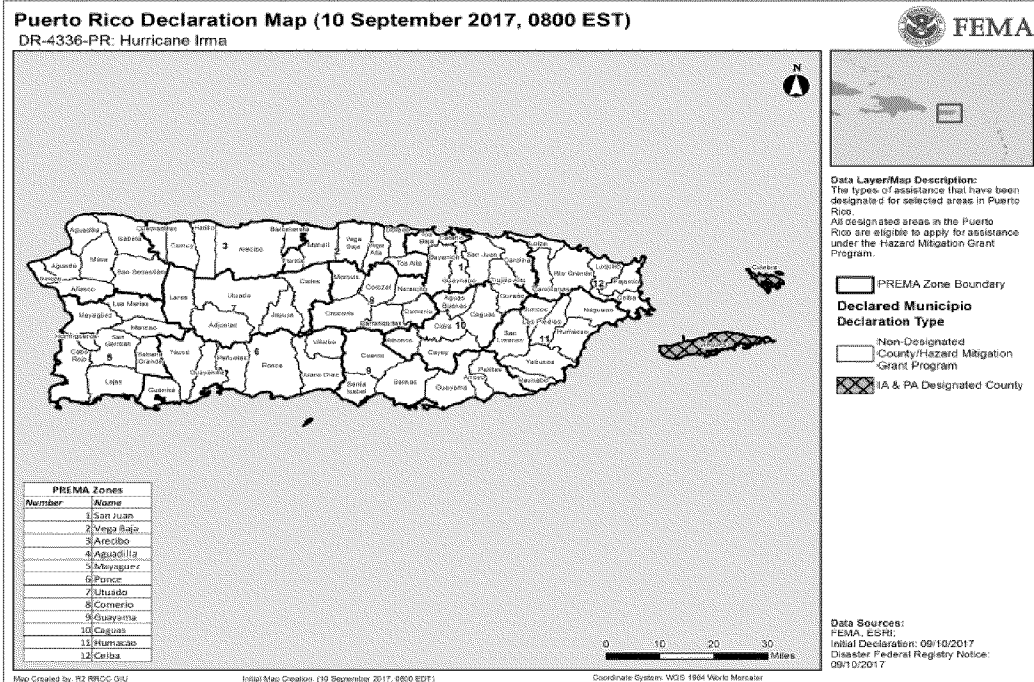
Personnel	EPA Edison, NJ NYC San Juan, PR	FEMA RRCC Colts Neck, NJ	Puerto Rico Deployments	USVI Deployments	Totals
EPA	56	1	6	5	68
START/ RST	9	0	2	4	15
ERRS	4	0	0	0	4
Other Contractors	0	0	0	0	0
Totals	69	1	6	7	87

DECLARATIONS

Puerto Rico.

Emergency Declaration FEMA-3384-EM effective September 5. Assistance is for all 78 municipalities in the Commonwealth of PR. The Governor of Puerto Rico requested a disaster declaration 9/8.

Disaster Declaration effective September 9. Declared areas only include Culebra and Vieques.

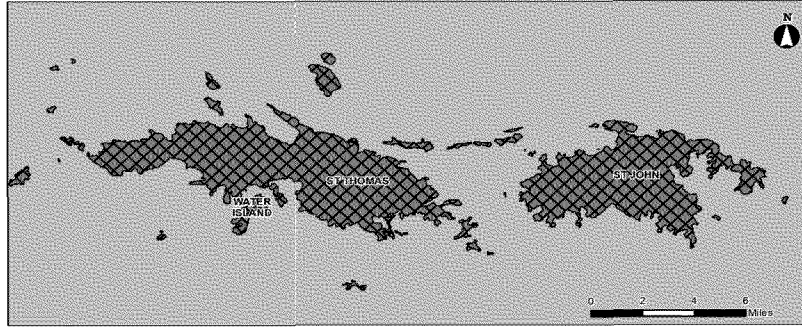


U.S. Virgin Islands.

Disaster Declaration FEMA-4335-DR effective September 7, 2017. St. Thomas and St. John approved for Individual Assistance, all islands eligible for Public Assistance and the Hazard Mitigation Grant Program.

Emergency Declaration FEMA-3383-EM effective September 5. Assistance is for all islands in the Territory of the USVI.

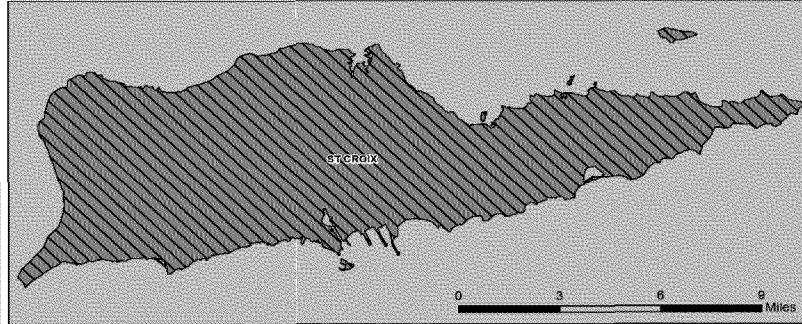
U.S. Virgin Islands Declaration Map (07 September 2017, 1200 EST)
 DR-4335-USVI: Hurricane Irma



Data Layer/Map Description:
 The types of assistance that have been designated for selected areas in the U.S. Virgin Islands.
 All designated areas in the U.S. Virgin Islands are eligible to apply for assistance under the Hazard Mitigation Grant Program.

County Declared Declaration Type

- IA & PA Designated County
- PA Designated County (Category A & B and DFA)



Data Sources:
 FEMA, ESRI;
 Initial Declaration: 09/07/2017
 Disaster Federal Registry Notice: 09/07/2017

Map Created by: R2.RRCC GIU Initial Map Creation: (07 September 2017, 1200 EDT) Coordinate System: WGS 1984 World Mercator

FUNDING

Mission Assignment Number	Purpose	Start Date	End Date	Total Amount	Indirect Costs	Amt. Available (after indirect rate)	Daily Burn Rate	Used	Balance
VI-17090102-EPA-01	Activate EPA to FEMA R2 RRC in Colts Neck, NJ to support FEMA response ops	9/2/2017	9/11/2017	\$10,000	\$1,046	\$8,954	\$1,080	\$8,954	\$0
4335DR-VI-EPA-01	Activate EPA to FEMA R2 RRC in Colts Neck, NJ to support FEMA response ops	9/7/2017	10/7/2017	\$100,000	\$10,466	\$89,534	\$1,080	\$2,160	\$87,374
3383EM-VI-EPA-01	Activate EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA and NRA Teams and other coordination venues to support FEMA response ops in VI	9/7/2017	9/16/2017	\$75,000	\$7,850	\$67,150	\$76,800	\$302,400	(\$235,250)
4335DR-VI-EPA-02	To perform assessment of oil and hazardous materials releases, contaminated debris and other environmental events following	9/7/2017	9/30/2017	\$508,000	\$53,170	\$454,830	\$13,200	\$52,800	\$402,030

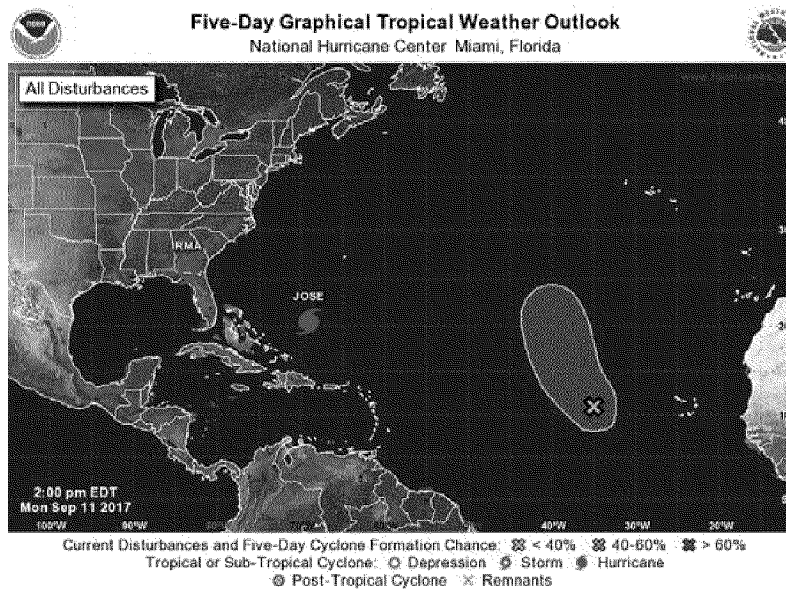
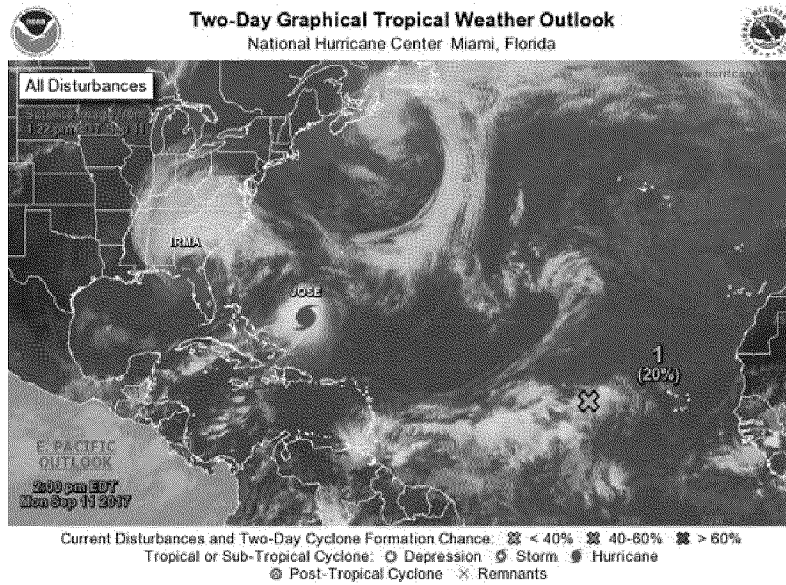
	landfall in VI								
PR-17090102-EPA-01	Activate EPA to FEMA R2 RRC and other locations as necessary for PR. For REOC pre-landfall costs.	9/1/2017	9/11/2017	\$20,000	\$2,093	\$17,907	\$ -	\$17,907	\$0
3384EM-PR-EPA-01	Activate EPA to FEMA R2 RRCC, EPA REOC, State EOC, JFO, PDA, and RNA Teams and other coordination venues to support FEMA response ops in PR	9/6/2017	9/16/2017	\$75,000	\$7,850	\$67,150	\$9,600	\$48,000	\$19,150
3384EM-PR-EPA-03	To perform assessment of oil and hazardous materials releases, contaminated debris and other environmental events following landfall in PR	9/9/2017	9/30/2017	\$508,000	\$53,170	\$454,830	\$10,800	\$32,400	\$422,430

FUEL WAIVERS

Fuel waivers are not needed for PR or USVI.

LONG RANGE PLANNING

- National Disaster Recovery Framework (NDRF) Activities.** FEMA has begun long range recovery planning and is in contact with the EPA Office of the Administrator's (OA) disaster recovery coordinator. The Acting Regional Administrator is Region 2's Federal Disaster Recovery Coordinator with CASD providing support. CASD is in communication with the OA and is working with CEPD and the other divisions to identify Region 2 contacts for the six Recovery Support Function (RSF) areas: 1.) Community Planning and Capacity Building, 2.) Economic Recovery, 3.) Health and Social Services, 4.) Housing Recovery, 5.) Infrastructure Systems, and 6.) Natural and Cultural Resources. This work will assist the Agency to identify potential recovery challenges and plan for resiliency. EPA Region 2 disaster response and recovery personnel are coordinating and will share our Irma data collection and results of our assessment efforts.
- Additional Threats.** No additional storm threats to impact the U.S. Caribbean.



- Hurricane Jose.** At 9/11 11:00AM AST, the center of Hurricane Jose was moving toward the north at 9 mph. A NE turn is expected tonight, followed by a slower motion toward the SE Tuesday and Tuesday night. Maximum sustained winds are near 105 mph with higher gusts. Some weakening is forecast during the next 48 hours. Hurricane-force winds extend outward up to 25 miles from the center and tropical-storm-force winds extend outward up to 140 miles.

