

Texas Marine Debris Emergency Response Guide



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Overview

- 1. Background
- 2. Response Project Status
- 3. Response Guide Preview
- 4. Next Steps

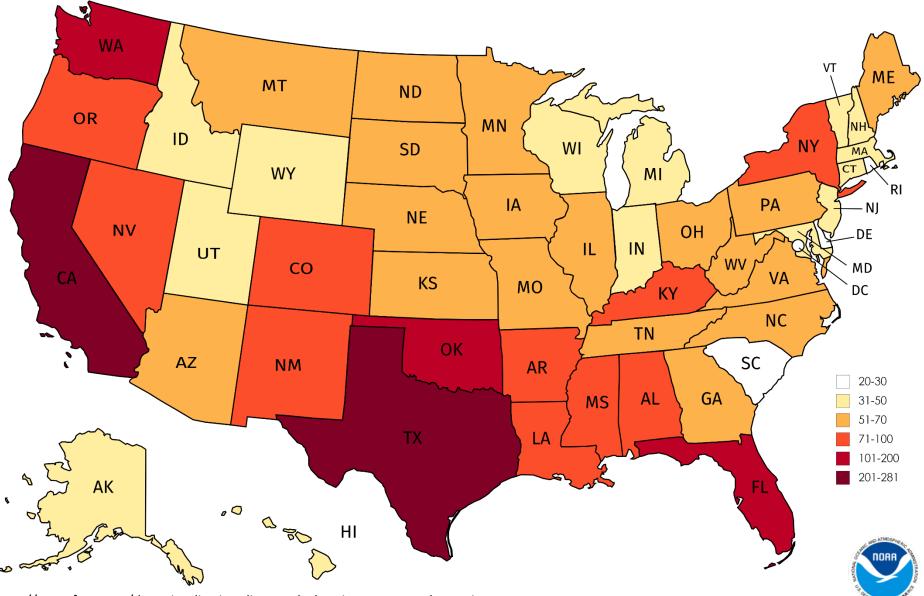


Background



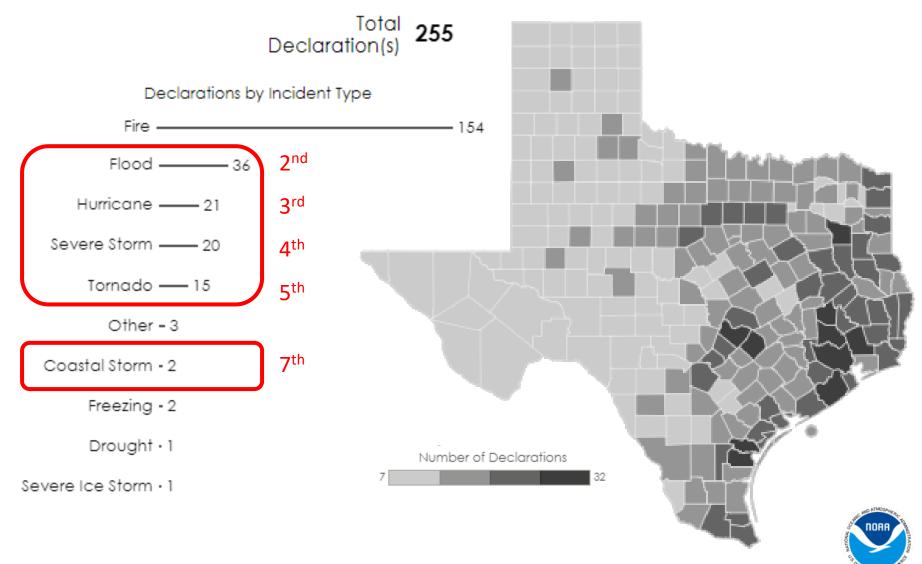
Rockport, TX. Hurricane Harvey. Aug. 27, 2017. Credit: Eric Gay/AP

Disaster Declarations Since 1953



https://www.fema.gov/data-visualization-disaster-declarations-states-and-counties

Disaster Declarations Since 1953



https://www.fema.gov/data-visualization-summary-disaster-declarations-and-grants

Natural Disasters & Marine Debris

Hurricane intensity projected to increase¹

• Volume and variety of debris

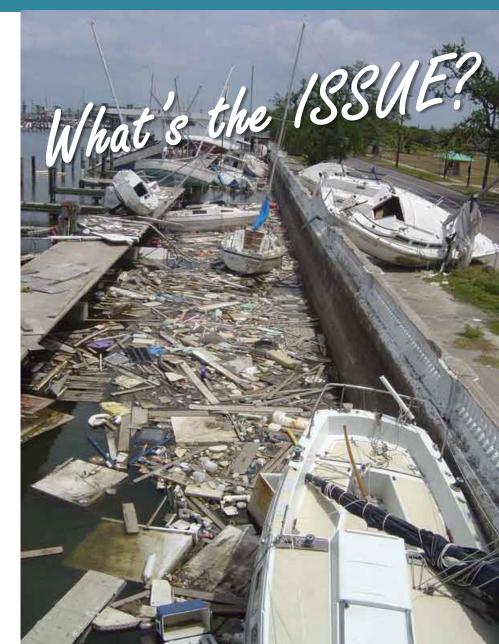
Threats²

- Navigation
- Natural resources
- Human safety
- Hazardous substances

Removal is challenging

- **\$\$\$** and time consuming
- Overlapping jurisdictions
- Complex environment

¹https://www.gfdl.noaa.gov/global-warming-and-hurricanes/ ²FEMA Debris Management Guide



- how

Improve preparedness for response to and recovery from acute marine debris incidents in coastal states

Outline existing response structures,
procedures, and responsibilities at the local,
state, and federal levels into individual state
guidance documents

Texas Scope

- Focus on waterway debris
 - Solid material (including vegetative debris)
 - Result of acute disaster incident
 - Poses a threat
 - Can include shoreline and wetland debris, or debris in inland non-tidal waterways
- Target audience: All levels of government, responders, marine debris professionals
- Guide and outreach focused on a state's coastal zone
 - Information in guidance document is applicable to all of state

Texas Scope



Coastal zone includes all or part of 18 counties:

Cameron, Willacy, Kenedy, Kleberg, Nueces, San Patricio, Refugio, Aransas, Calhoun, Victoria, Jackson, Matagorda, Brazoria, Galveston, Harris, Chambers, Jefferson, and Orange



Status



Hurricane Rita, 2005. Credit: NOAA, Doug Helton

National Project Status

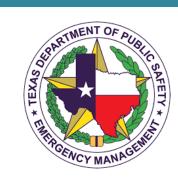


Texas Status



- 1. Background research, *Post-Harvey 2017*
- 2. Engage stakeholders
- 3. Document roles, contacts, and jurisdictions
- 4. Workshop, July 10, 2018
- 5. Guide edits and finalization
- 6. Stakeholder review
- 7. Publication ←

A Few Texas Partners... Thank you!

























US Army Corps of Engineers_®



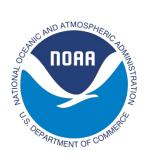




ONRCS Natural Resources Conservation Service





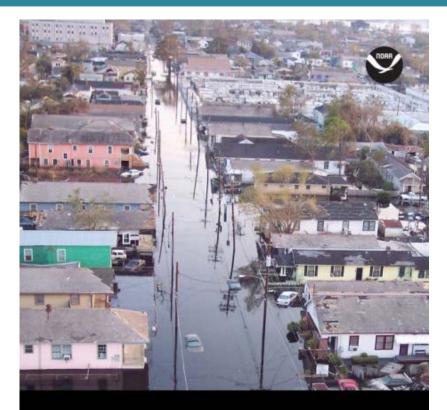


Texas Response Guide Preview



Credit: FEMA

- I. Introduction
- II. Background Risk: Foreseeable Incidents and Debris Types
- III. Roles, Responsibilities, and Jurisdictions
- IV. Permitting and Compliance Requirements
- V. Challenges, Needs, and Recommended Actions
- VI. Response Capabilities
- VII. Contact Information



Louisiana Marine Debris Emergency Response Guide: Comprehensive Guidance Document

NOAA Marine Debris Program National Oceanic and Atmospheric Administration U.S. Department of Commerce March 2018

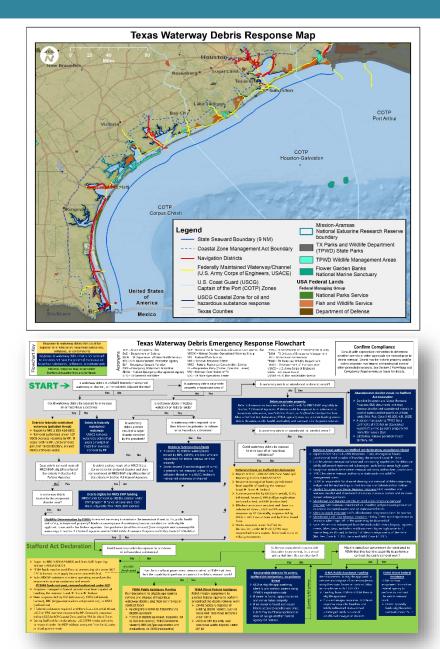
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- ✓Local Role
- ✓ State Role
- ✓ Federal Role
- ✓ PrivateLandowners
- ✓ NGOs/VolunteerOrganizations

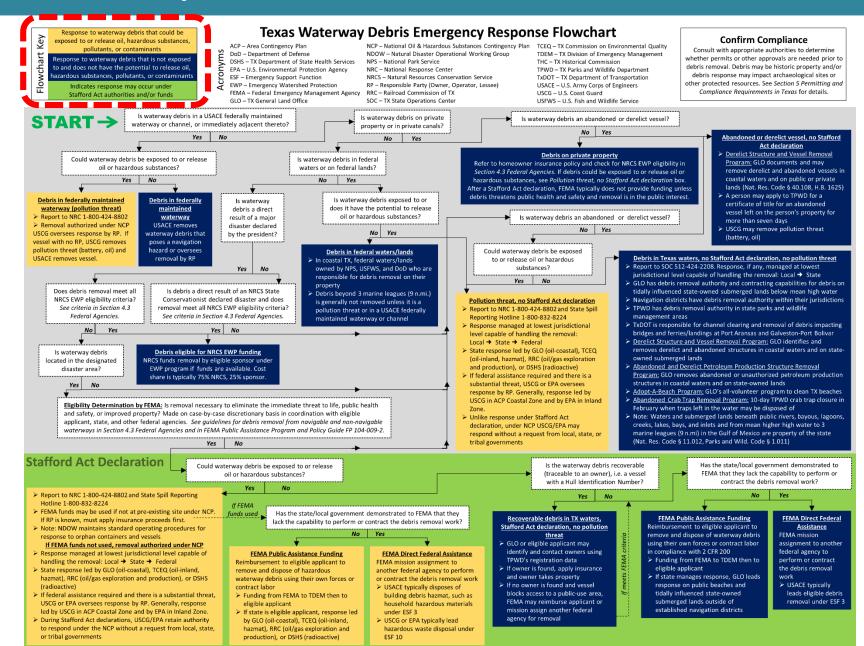
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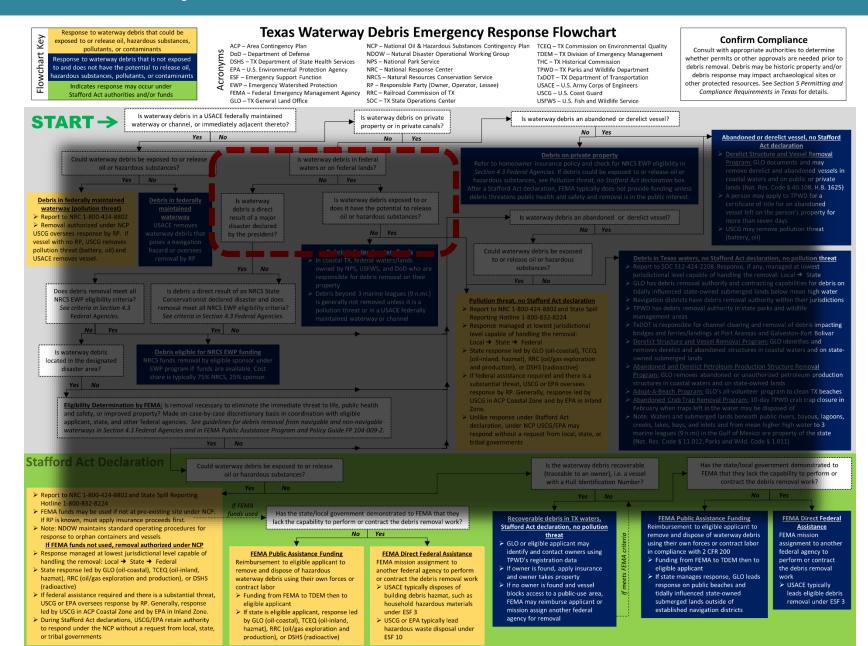
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Texas Response Flowchart



Texas Response Flowchart



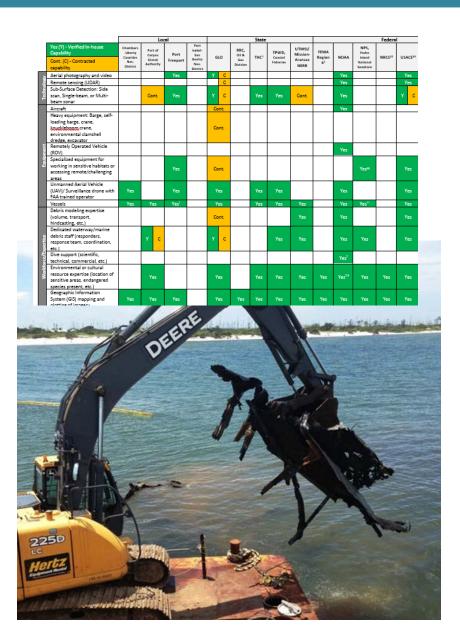
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Response Capabilities

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L		Local				State				
	Yes (Y) - Verified In-house Capability	Chambers -Liberty Counties	Port of Corpus	Port	Port Isabel- San		0	RRC, Oil &	THC3	TPWD,
	Cont. (C) - Contracted capability	Nav. District	Christi Authority	Freeport	Benito Nav. District			Gas Division		Coastal Fisheries
Technology	Aerial photography and video			Yes		Y	С			
	Remote sensing (LIDAR)						С			
	Sub-Surface Detection: Side scan, Single-beam, or Multi- beam sonar		Cont.	Yes		Y	с		Yes	Yes
	Aircraft					Со	nt.			
	Heavy equipment: Barge, self- loading barge, crane, <u>knuckleboom</u> crane, environmental clamshell					Со	nt.			
	dredge, excavator									
ment	Remotely Operated Vehicle (ROV)									
Equip	Specialized equipment for working in sensitive habitats or									
				Yes		Со	nt.			

Technology * Equipment * Workforce/Expertise * Logistics

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Agency	Division	Торіс	Point of Contact	Phone	Email	
continued from previous page	Critical Infrastructure Division, Emergency Management Support Team	Planning and coordination	Christopher Watcok Emergency Management Support Team	512-239-1514	christopher.wiatrek@tceq.texas.	
TX Commission on Environmental Quality (TCEQ)	Galveston Bay Estuary Program	Planning and coordination	Lisa Marshall, Program Manager	281-486-1240	lisa.marshall@tceq.texas.gov	
	Waste Permits Division	Debris management and disposal	-	512-239-2335		
(1000)	Water Quality Division	Water quality certifications	-	512-239-4671		
TX Department of	TX Division of Emergency	State warning point to report emergency situations	24-Hour Texas State Operations Center (SOC)	512-424-2208	SOC@dps.texas.gov	
Public Safety (DPS)	Management (TDEM)	Contact for debris-related issues	TDEM Debris Email		TDEM.debris@dps.texas.gov	
		Public Assistance	Valerie Blanton, Recovery Coordinator	512-994-9039	valerie.blanton@dps.texas.gov	
	Asset Enhancement, Construction Services Removal of unauthorized oil/gas structures		John <u>Mesiceff</u>	512-463-4473	john.mesiroff@glo.texas.gov	
		Derelict structure and vessel removal from public beach and state-owned submerged lands; Capabilities	Tony Williams, Senior Director of Planning	512-436-5055	tory.williams@glo.texas.gov	
	Coastal Resources Division	Adopt-A-Beach Program	Renee Tuggle, Coordinator	512-463-5057	renee.tuggle@glo.texas.gov	
		Permit Service Center, Corpus Christi	-	866-894-3578	permitting.assistance@glo.texas	
		Permit Service Center, Galveston	-	866-894-7664	permitting.assistance@glo.texa	
TX General Land Office	Field Offices	General coordination, compliance, and	Lower Coast Field Office	361-886-1600		
(GLO)	rield Unices	permitting	Upper Coast Field Office	281-470-1191		
		Report spills, unpermitted discharges, or releases to the environment	24-Hour State Spill Reporting Hotline	800-832-8224	-	
		Derelict vessel coordinator, oil spill	Michelle Castilleja		michelle.castilleja@glo.texas.go	
	Oil Spill Prevention and Response	Region 1	Mark Underhill, Natural Resource Specialist	409-727-7481	mark.underhill@glo.texas.gov	
		Region 2	Jesse Mayorga, Response Officer	281-470-6597	jesse.mayorga@glo.texas.gov	
		Region 3	Brent Koza, Manager	361-438-4928	brent.koza@glo.texas.gov	
Texas Historical Commission (THC)		Marine Archeology Program (waterway and beach debris); Capability: Vessels, sub-surface detection	Amy Borgeos, State Marine Archeologist	512-463-9505	amy.borgens@thc.texas.gov	
*TX State Historic	Archeology Division	State and Federal Review (inshore and inland debris)	Bill Martin, Archeologist and Reviewer	512-463-5867	bill.martin@thc.texas.gov	
Preservation Office		Capability: Drones	Arlo McKee, Archeologist and Reviewer	-	ario.mckee@thc.texas.gov	
(SHPO)	History Programs State and Federal Review (abovegro resources)		Caitlin Brashear, Historian	512-463-5851	caitlin.brashear@thc.texas.gov	

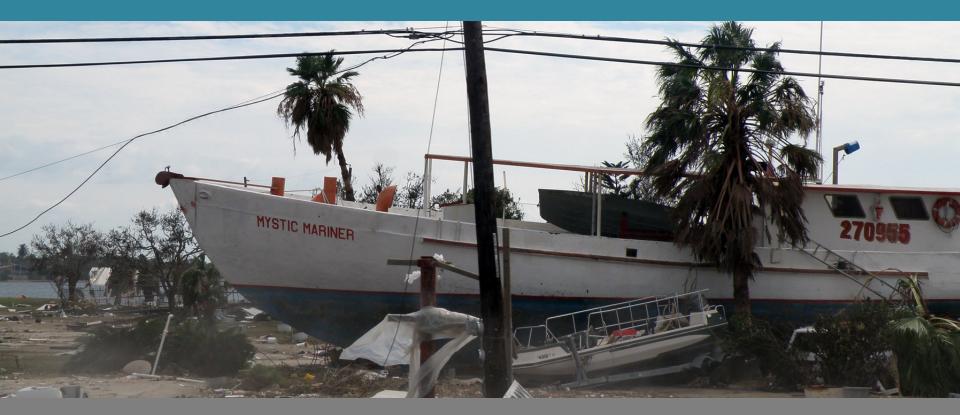


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Field Reference Guide



Next Steps



Hurricane Ike Credit: NOAA

Next Steps

- Distribute publication announcement
- Support incorporation of content into other local, state, or regional plans and trainings
- Conduct exercises and drills
- Ongoing maintenance

Questions?

All guides can be found online at: https://marinedebris.noaa.gov/emergency-response/marine-debrisemergency-response-guides



Storm surge damage caused by Hurricane Ike Bolivar Peninsula, September 2008



Marine debris (NOAA definition)

Any persistent solid material that is <u>manufactured or processed</u> and directly or indirectly, intentionally or unintentionally, disposed of or abandoned into the marine environment or Great Lakes (33 U.S.C. § 1956(3))

Waterway debris (Incident waterway debris)

Any solid material, including but not limited to <u>vegetative debris</u> and debris that could be exposed to or release oil, hazardous substances, pollutants, or contaminants, that enters a waterway following an <u>acute incident</u> and poses a threat to the natural or man-made environment. This may include shoreline and wetland debris and debris in some inland, non-tidal waterways.



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