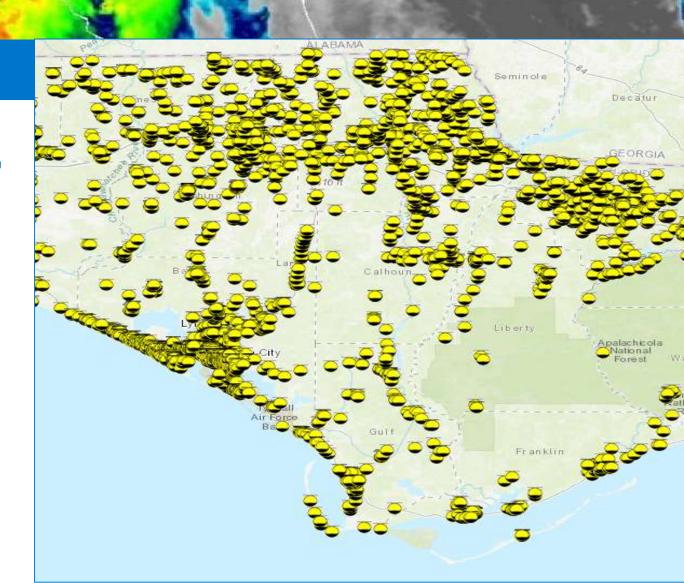




# Regulated Tanks in Path of Hurricane

 Bay, Calhoun, Franklin, Gulf, Jackson, and Liberty Counties

- 677 Open Facilities
  - o 1,415 ASTs
  - 1,653 USTs



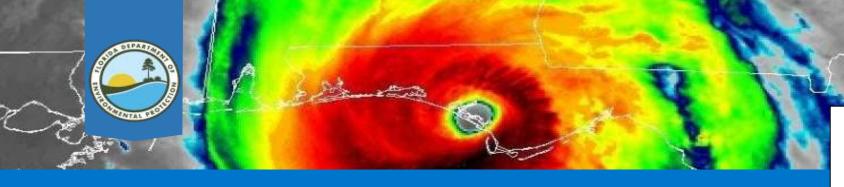


### **Post-Hurricane Response Actions**

# Joint Efforts of the NWD Office and the Division's Permitting & Compliance Assistance Program (Storage Tank Compliance)

#### 3 Step Approach

- Facility Site Visits Post-Hurricane Impact Surveys
- Outreach Phone Calls to Facilities
- Letter Outreach to Facility Owners

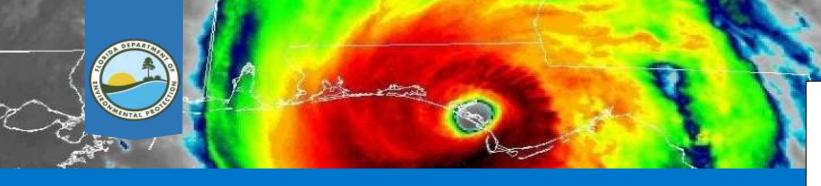


#### Post-Hurricane Impact Survey #1

- Escambia, Gulf & Leon
   Counties
- October 17-23, 2018
- 408 inspections completed
   USTs & ASTs

#### HURRICANE MICHAEL FACILITY IMPACT QUESTIONNAIRE

racinty ID	- racinty i	vanne			
Facility Address					
Facility Contact		Fa	cility Contac	t Phone	
Fully operational (electricity)?	Yes	□ N	0		
Fully operational (generator)?	Yes	□ N	0		
Partially or non-operational?	Yes	□ N	0		
Damage Assessment:				Notes	
Facility Destroyed					
Significant Damage (Repairable	e)				
Damage (Operational)					
Minor					
Facility Damages:					
Canopy					
Dispensers					
Tank Floated or Shifted					
Were the damages repaired?		Yes	☐ No		
Cost Estimate:					
Facility receiving deliveries of fuel?		Yes	No		
Is product available?		Yes	No		
Gasoline Diesel					
Product Contamination					
Fuel replaced due to water co	ntaminatio	on?	Yes	☐ No	
Amount Contaminated:		gallons			
Estimated Cost of Storm Damage:					
>\$500,000					
<\$500,000 but >\$100,000					
<\$100,000					
Inspector Name:					

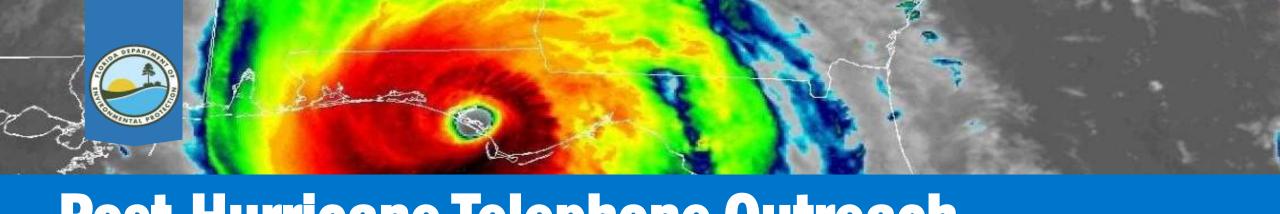


#### **Post-Hurricane Impact Survey #2**

- DEP NWD
- Surge areas only
- November 5-8, 2018
- 65 inspections completed
   ASTs only

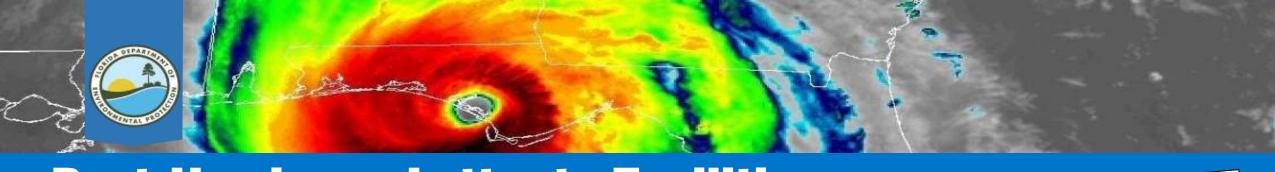
#### HURRICANE MICHAEL SYSTEM STATUS QUESTIONNAIRE

Facility ID	Facility Na	me	
Facility Address	~		
Facility Contact		Facility Conta	ct Phone
Incident Occurred?	Yes	No	
INF Completed?	Yes	No	
Resulted in Discharge?	Yes	No	
Discharge Assessment:		Notes: describ	pe incident, repair and status.
Release inside containm	nent?		
Discharge outside of con	tainment?		
Discharge Report Form s	submitted?		
Failed component repair	red/isolated?		
Facility Status:			
In-Service			
Out of Service			
Abandoned		я	
Registration changes for status r	needed? Ye	s No	
Explain		=	
Facility receiving fuel?	☐ Ye	s No	
Is product available?	Ye	s No	
G D D			
Repairs of storage system	m ongoing	Yes	☐ No
3.	Es	timated completion	n date
Follow up inspection needed	1?		
Discharge Inspection?			
Component Install/Closu	ıre?		
System Closure?			
Inspector Name:			



#### **Post-Hurricane Telephone Outreach**

- NWD and Division Staff
- November 8 and After
- 286 Facilities contacted by telephone



### **Post-Hurricane Letter to Facilities**



#### FLORIDA DEPARTMENT OF **Environmental Protection**

Northwest District 160 W. Government, Street, Suite 308 Pensacola, Florida 32502

Governor Carles Loyez-Cantera Lt. Governor Mosh Valenstein

November X, 2018

«FIRST\_NAME» «LAST\_NAME», «TITLE» «ME\_NAME» «ADDRESS1» «CITY», «STATE\_ID» «ZIP5»

Re: Damage to Petroleum Storage Systems - Hurricane Michael

#### To Whom It May Concern:

Hurricane Michael devastated several counties in the Florida panhandle. The department's records indicate that your company owns or operates a petroleum storage system that may have incurred some damage. During this difficult time of recovery and rebuilding following this storm, the Florida Department of Environmental Protection (DEP) would like to offer assistance to owners and operators of underground and aboveground storage tank systems damaged by Hurricane Michael. It is our goal to facilitate the process of initial notifications and offer guidance for repairs or out-of-service procedures you may encounter.

If components of your storage tank system that were damaged during Hurricane Michael contain petroleum; we remind you that certain notifications to the department or local program are necessary.

- Notification of storage tank system damage, incidents or discharges contact the appropriate following office:
  - For Gulf, Calhoun, Franklin, Jackson, and Liberty Counties contact the Florida Department of Health 850-227-1276 ext. 125;
  - o For Bay and Washington Counties contact the Florida Department of Health 850-595-6707; or
  - Florida Department of Environmental Protection Northwest
- For on-going discharges of regulated substances outside of containment, you are required to contact the State Watch Office 1-800-320-0519.
- If water has compromised fuel in your storage tank system or damaged the dispenser, please contact the Department of Agriculture and Consumer Services, Division of Standards, Petroleum Inspection 850-921-

«ME\_NAME» Page 2 November X, 2018

Damage to storage system components that normally store, transfer or dispense petroleum products that are underground, over water or in contact with the soil are required to be repaired by a licensed General Contractor with Pollutant Storage Specialty Contractor endorsement issued by the Florida Department of Business and Professional Regulation (www.myfloridalicense.com).

Attached to this letter is a guidance document concerning notification, repair and out-of-service requirements for owners of storage tank systems. If the department can provide you with technical assistance regarding compliance oepartment can provide you with technical assistance regarding compilative please contact Mark Gillman of DEP's Northwest District Office at 850-595-0586.

Elizabeth Mullins Orr Assistant Director

EMO/wb



#### Post Hurricane Guidance for Regulated Storage Tank System Owners/Operators

device include, but are not insitted to, strait observations of product in System components, plants, and/or unusua opperating conditions of your facility had an incident, you result notify the county within 72 hours of discovery. You have Lis days from size of discovery of the incident to determine if a discharge has occurred potention may be approved through the country or department). Fernously of release into secondary containment must be correlated within 30 days. For further industry or angustrated a recovered of recovered and policy transported and on the configuration and one can provide a second of the respective of the configuration and incidents, placed and Earlie SD-781.436, Florida Administrative Code IF A.C.) in Chapter E2-781. F.A.C., but Existing county for the Customer, present and which the Child All, File in Chapter 62-761, File Contract Society County State 62-761, File County St

The processor of two product, a violet sheer, starge, or amyzon of a regulated substance solvide sectoriary containes. must be reported to the county within 24 boars of discovery or behave class of read business day, for further interession on descharges, please age Rate 63, 163, 840, 7 a.C., in Chapter 53, 763, 7 à.C., for Underground Storage Tark Systems, or Sule 52. THE SELECTION OF THE SE that he integral testad within the days of decomposed the ductoring if the course or case of the ductoring is informed. spless the courses tank numbers has been properly placed out-of-cervice.

present of a stockage hards by others have a caused a nelective or discharge, or a proble could cause a mission or during the storage law system that immediately code operating, dispensing, and accepting delivered if repairs are required for any component of a change task system. For further information on repairs, please are MAR 62-761, 700, FAC, in Chapter 61-761, FAC, for Underground Storage Test Systems, or Bale 61-762-761, FAC, in Chapter 63-760, F.A.C., for obovernous storage Tank Systems.

urage task systems that are everyly damaged or decrowed must be taken out of service until repairs have been compar Owners of out-of-service should be task systems must continue to operate and maintain corrector protection, community contract of dur-of-netrice storage tight systems must operate to operate and contract contract contract systems to contract the country systems that country is contract to contract the country systems to contract the contract the country systems to contract the contract the contract the contract the country systems the contract CORE OF the system to outside access, for further informations on our lower point and systems, remove an impaint access to the contract of the system to outside access, for further informations on our of service storage task systems, please see task as Notes that the appropriate contracts executed, the transfer contracts are contract according under appropriate, prepared and court of the contract and contracts are contracted as the contract and contracted as the contract and contract are contracted as the contract and contracted as the contracted as the contract and contracted as the TEZ, F.A.C., for Aboveground Storage Tank Systems.

of a change in service status in g., taking a system of system component cast-of service to regard, or closure of a system or system component, or change to current or operator of a facility or storage task system. For the installation of a new system or pyrages components, solvent a registration form saven (1) days price to regulated substances being just into the system of a successfy registered facility.



- Have a strategic plan for selecting facilities to survey
  - Prioritize.
- Communicate with Hazardous Response Team (HART)
- Design a site visit survey questionnaire that will better capture the conditions of a facility's storage tank system(s).
- Provide information to facility owners and operators prior to hurricane season
  - Newsletter

# **Hurricane Michael Post Assessment**

#### Monica Wilson, Planning Consultant I Environmental Health

**April 10, 2019** 



#### Timeline

10/09/2018 – Hurricane Michael hit as a Category 4 making landfall near Mexico Beach

10/10/2018 - FDOH-Escambia opened

10/15/2018 – Tallahassee offices opened

10/16/2018 – FDOH-Escambia tasked with assessing 307 Bay County Facilities

10/17/2018 – FDOH-Escambia tasked with assessing 28
Jackson County Facilities

□ FDOH-Escambia conducted 332 inspections from 10/17/2018 to 10/23/2018

10

#### FDOH Preparation

- Governor's Emergency Declaration
  - Executive Order Number 18-276
- Mission Number
  - SERT Mission FL-027613

■ State Vehicles

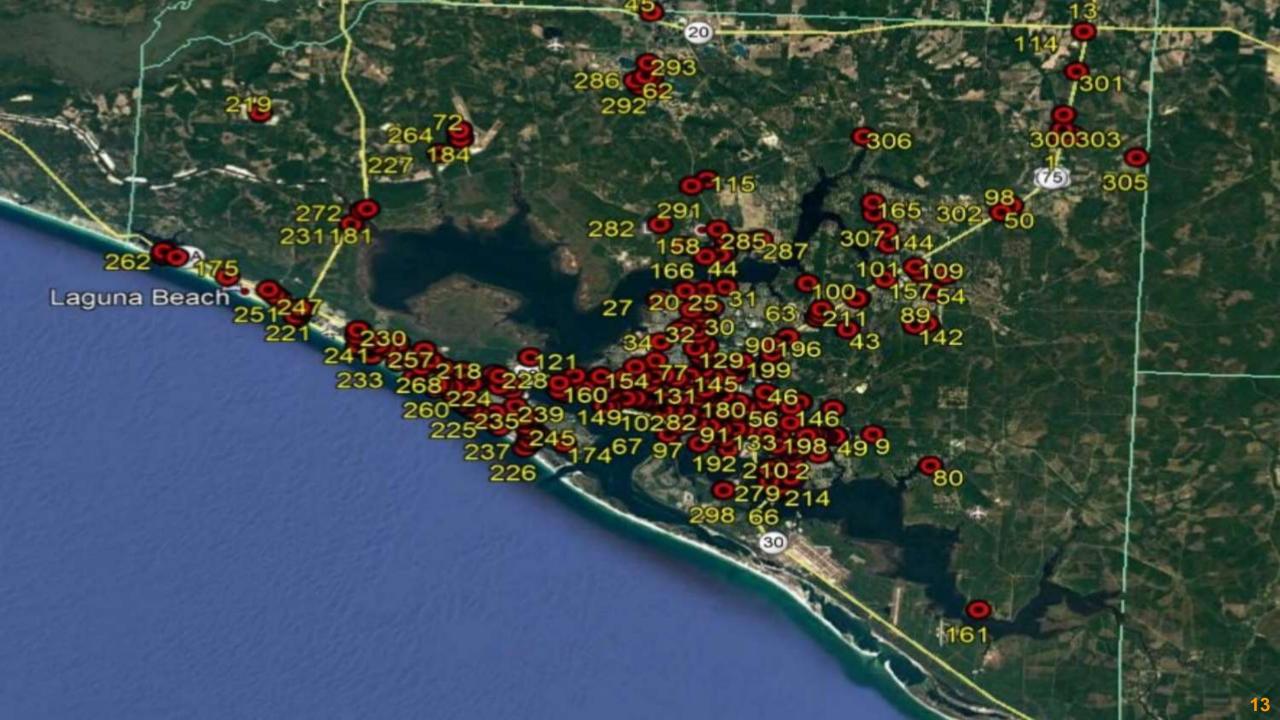


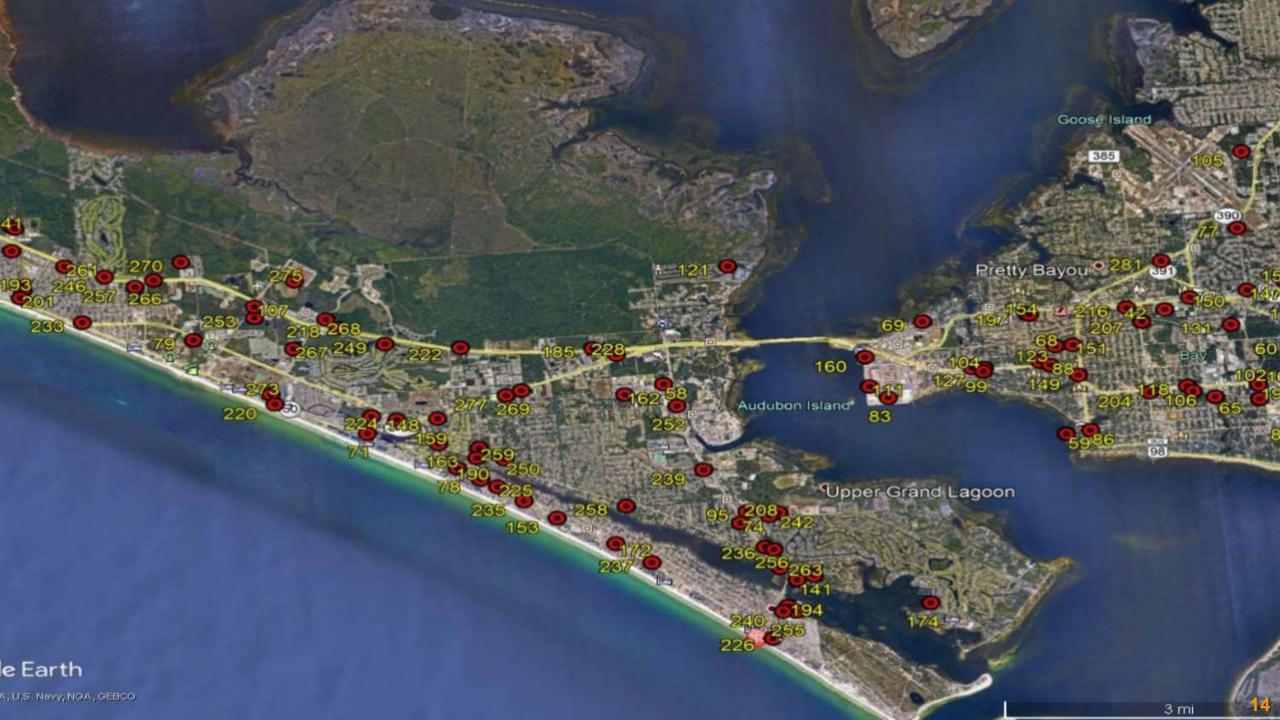
#### What We Did To Prepare

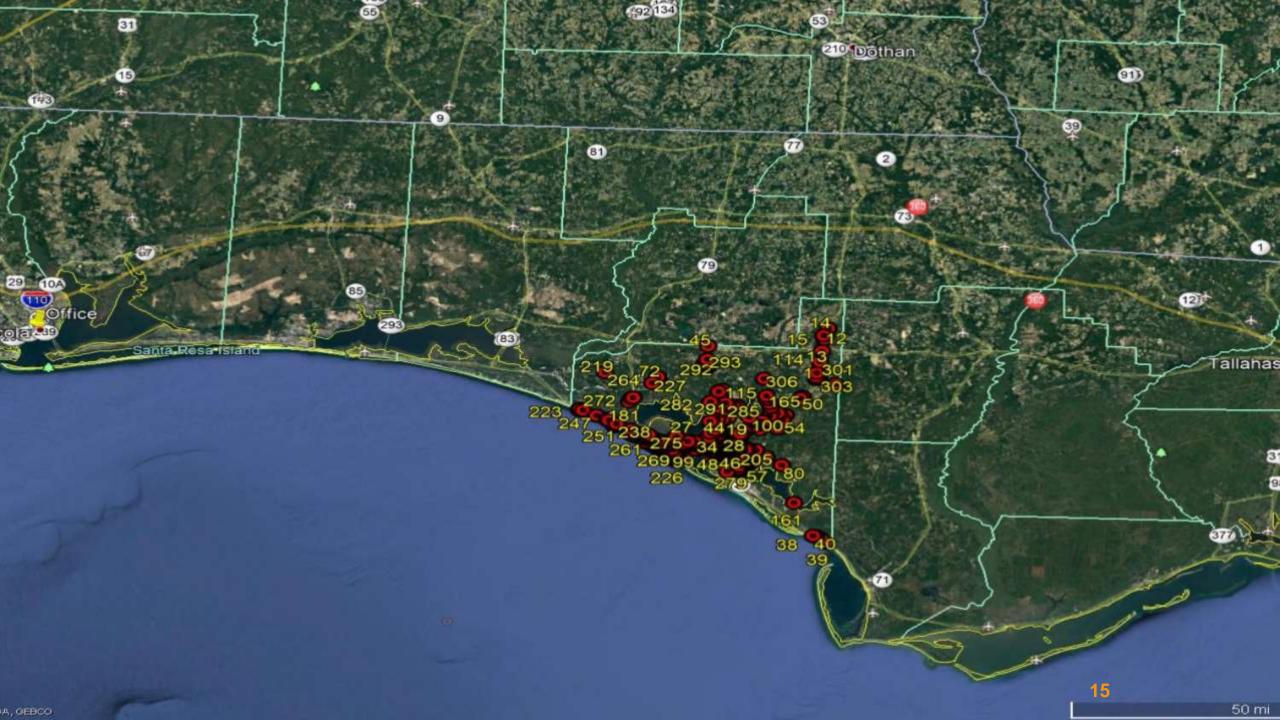
- Bay County road maps
- Meeting to discuss mission/form
- Two person team 5 teams
- Paper surveys for field use
- Map/distribute list of 307 facilities- 61 per team.

Facility ID	Fecility Name			
Facility Address	0000-010-010-0			
Facility Centact		Facility Contac	t Phone	
Fully operational (electricity)?	Ves	No		
Fully operational (generator)7	Yes 🗌	No		
Partially or non-operational?	You .	No		
Darriage Assessment	0.556		Hotes	
Facility Destroyed	F			
Significant Demage (Repairable	(c)			
Demage (Operational)				
☐ Minor				
Facility Damages				
Canopy				
☐ Dispersion				
Tank Floated or Shifted		Detailed		
Were the durages repaired?	Tes	100		
Cost bitimate:	-			
Facility receiving deliveries of fuel?	Yes	☐ No		
is product available?	Tes:	No		
Gasoline Giesei				
Product Contamination				
First replaced due to water cor	damination?	Yes	Ma	
Amount Contaminated:	pilon			
Estimated Cost of Storm Damage:				
☐ >\$500,000				
<\$500,000 but >\$100,000				
<\$100,000				
Impector Name:				









#### What We Experienced

- □ Perfect situation
- □ Traffic jams/ curfew



- Spotty phone service/internet
- Needed Navigator



#### What We Experienced Continued

- Road hazards/not familiar with area
- Number of Tanks
- □ Security issues
- □ First-Responders and utility services



















#### What We Discovered

□ Surge Areas

□ Panama City

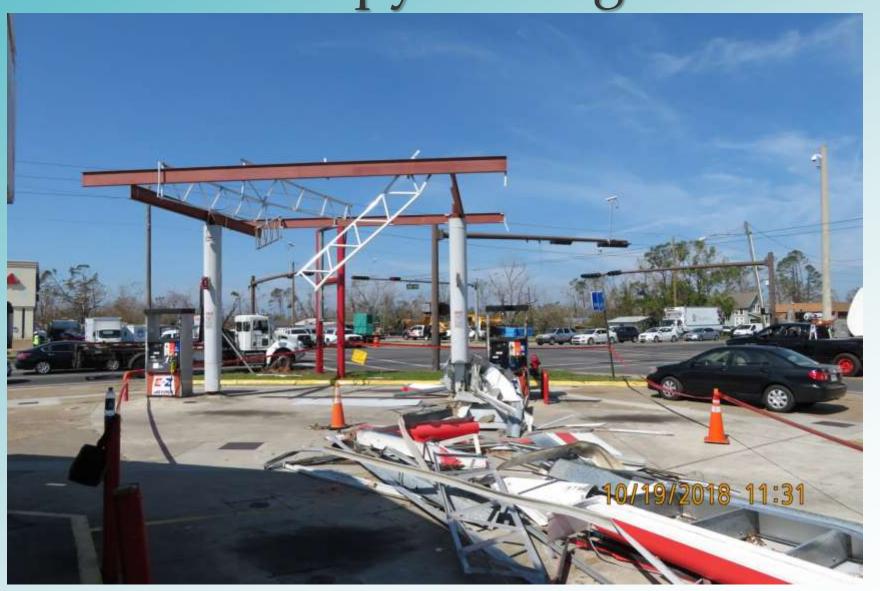
□ Visit facilities multiple days

□ Someone in office



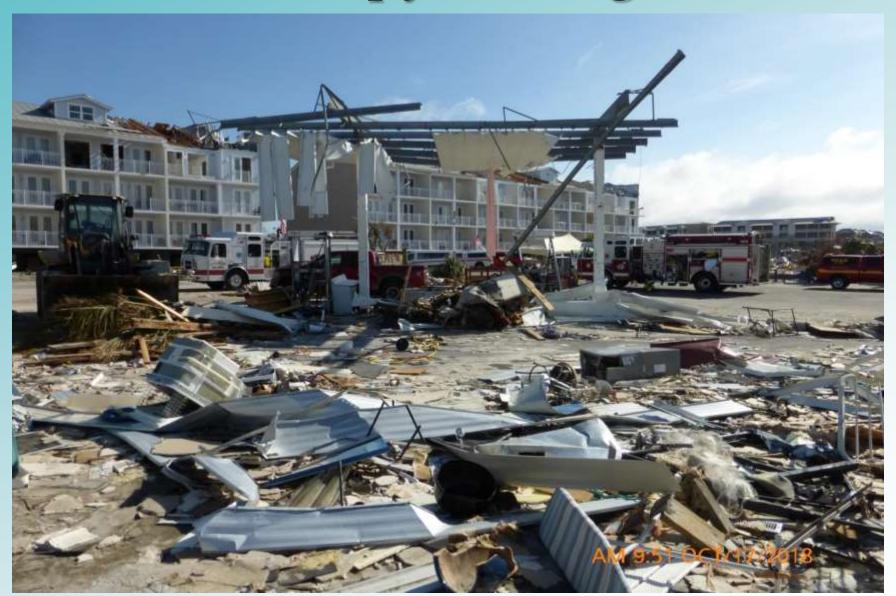
# Damaged Canopies





















# Damaged Dispensers













# Damaged Store Fronts

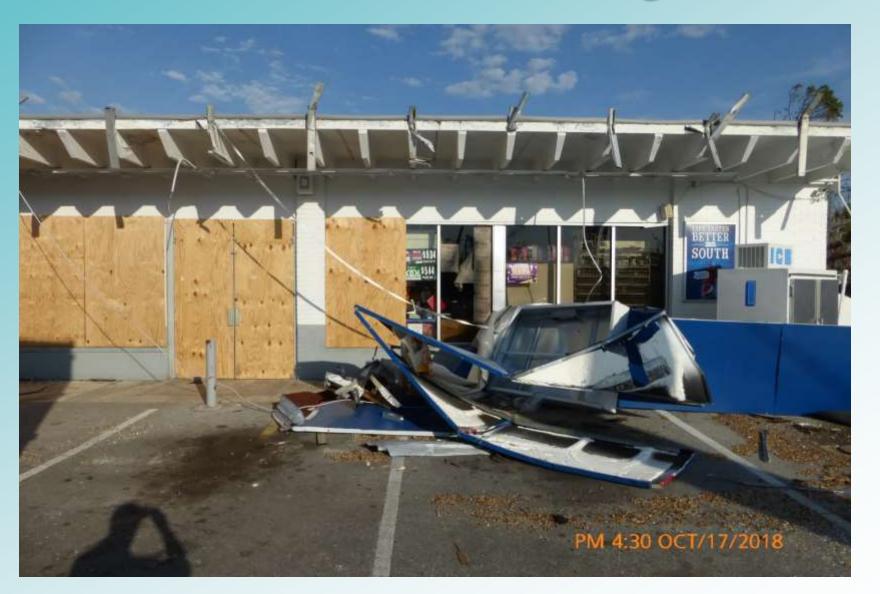


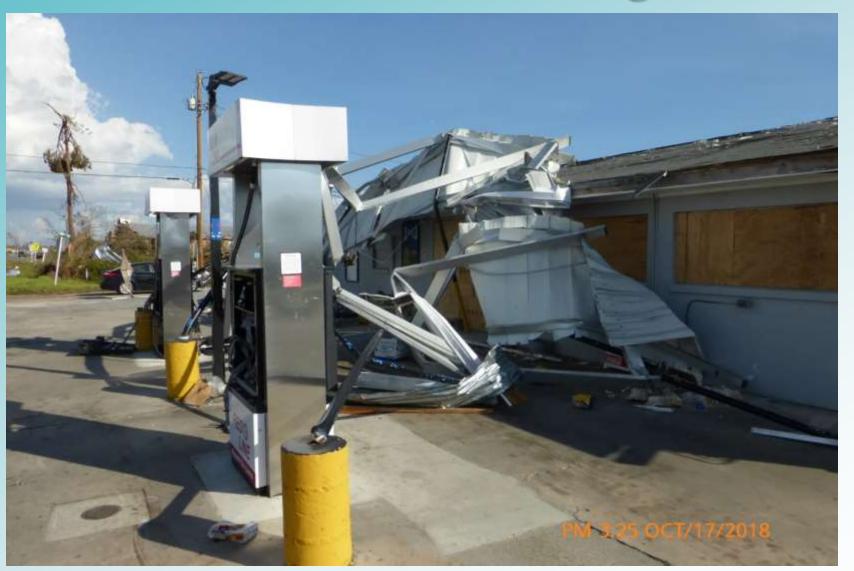






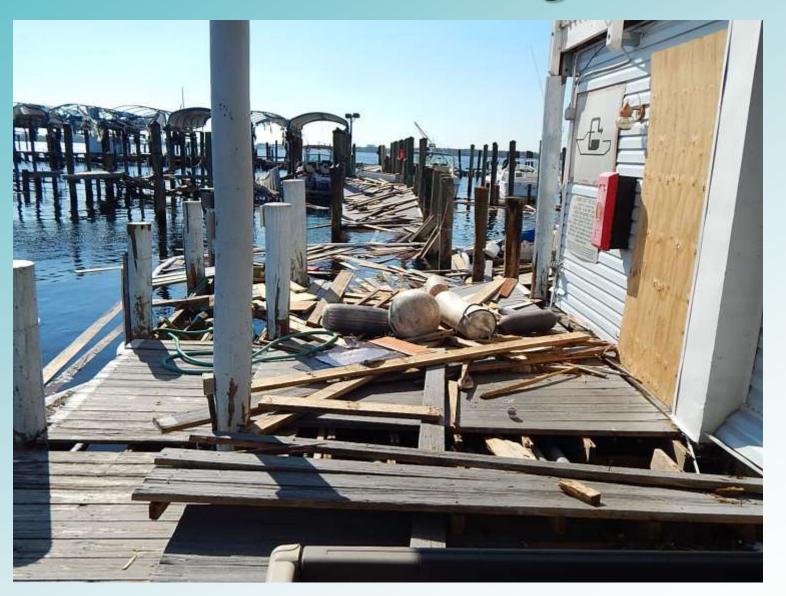






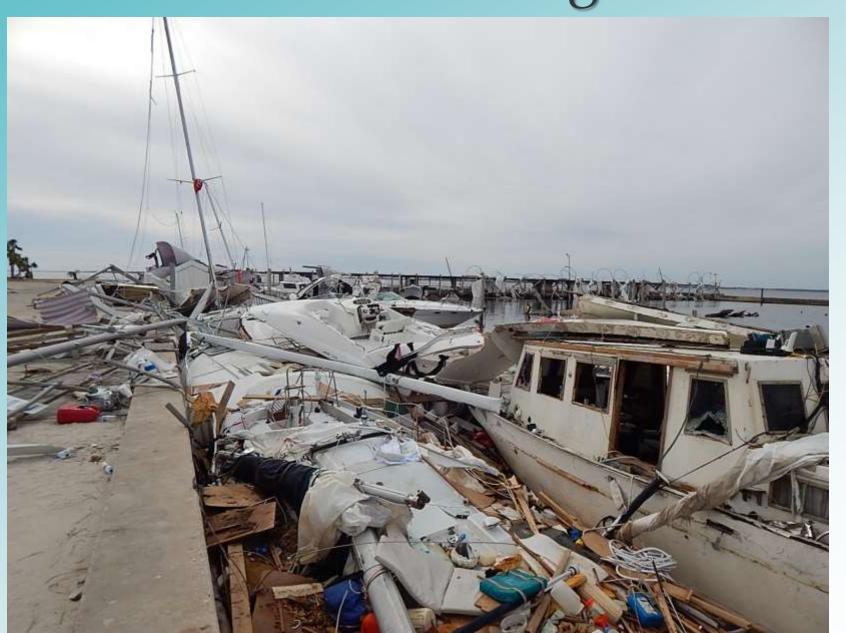
# Damaged Marinas







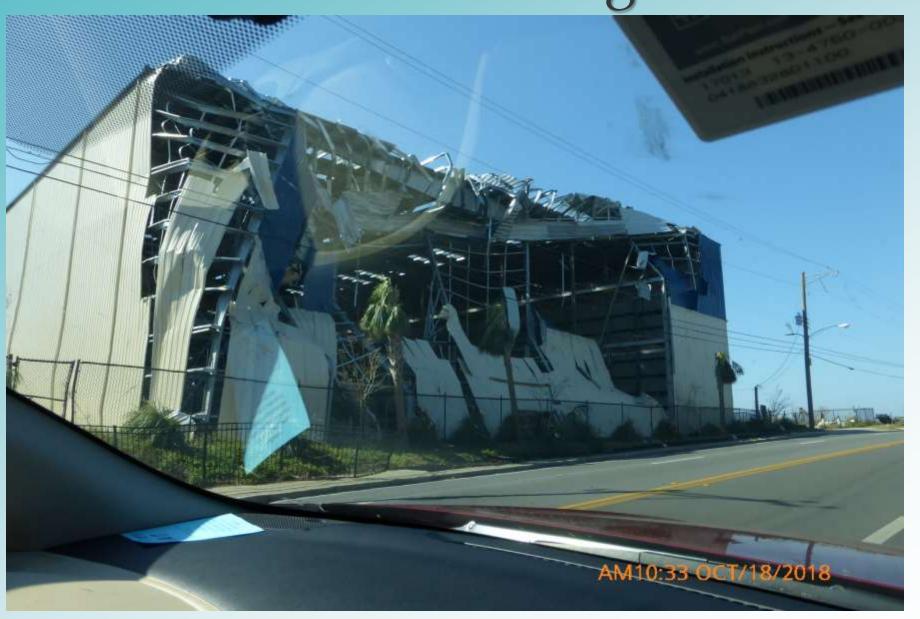












# Damaged Facilities with No Tank Damage!





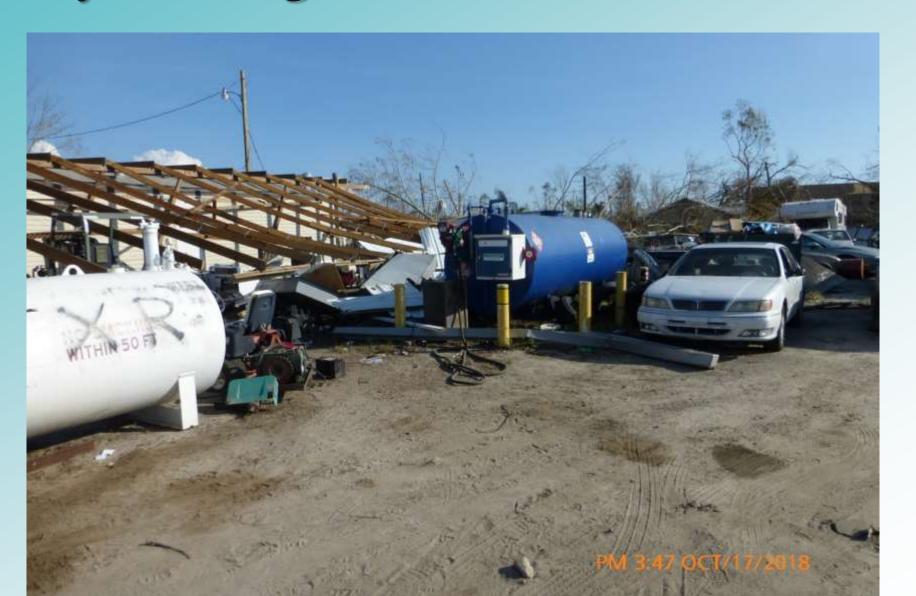












### How We Reported

Facility ID: 8500707

Site Visit Comments

10/18/2018

Complaint Inspection conducted by Charles Payne and Monica Wilson on 10/18/2018

Inspection Comments

10/22/2018

Complaint inspection conducted per direction of FDEP Tank Division SERT Mission FL-92/613 as a follow-up to Hurricane Michael. See attachments section for the field Hurricane Michael Facility Impact Questionnaire.

### Attachment Documents

• 8500707 - Michael

### Inspection Photos

Added Date 10/22/2018

Signage



Added Date 10/22/2018

Tank Pad



- Surveys turned in daily
- □ Tallahassee spreadsheet
- □ FIRST Entry
- Completed spreadsheet



### Violation Resolved





### **Problems Faced**

□ Travel Time/ Curfew

- Not being familiar with the area/Road Closures
- Spotty Navigation System
- □ Traffic Jams





### **Problems Faced**

- More Planning/training on form
- Not knowing how many tanks
- Registration Issues
- Feeling of being in the way of First Responders





### Ways To Make It Better

- □ A standardized form (that can be modified if necessary) for Hurricane assessments that includes:
  - A place to add the inspection date to the form.
  - A place to write in an email address of the contact.
  - Distinguishing UST questions from AST questions.
  - Specific wording on what damage to estimate: facility, tank system, or both.
  - Add questions on if an incident occurred.



### Ways To Make It Better

- □ Received list changes:
  - How many tanks
  - Unregulated facilities removed

More time to plan and strategize because these are not perfect situations.



#### Concerns To Think About

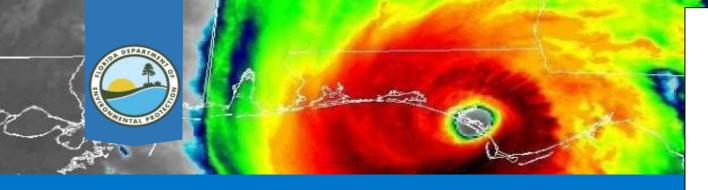
- What if hurricane directly impacted our county?
- Should these evaluations wait?



#### **Contact Information**

Monica Wilson, Planning Consultant I Environmental Health Monica.Wilson@FLHealth.gov 850-595-6700 ext 2004

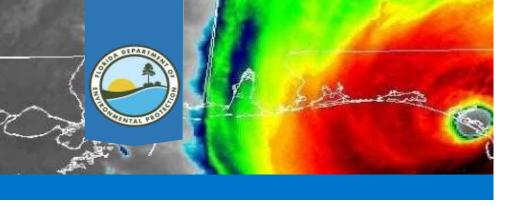




# Post Hurricane Survey Leon County

#### HURRICANE MICHAEL FACILITY IMPACT QUESTIONNAIRE

Facility ID	Facility Na	ime		
Facility Address				
Facility ContactFacility Contact			ct Phone	
Fully operational (electricity)?	Yes	No		
Fully operational (generator)?	Yes	No		
Partially or non-operational?	Yes	No		
Damage Assessment:			Notes	
Facility Destroyed				
Significant Damage (Re	epairable)			
Damage (Operational)				
Minor				
Facility Damages:				
Canopy				
Dispensers				
Tank Floated or Shifted	d	ē.		
Were the damages repaired?	☐ Ye	es No		
Cost Estimate:		_		
Facility receiving deliveries of	fuel? Ye	es No		
Is product available?	☐ Ye	es No		
Gasoline Diesel				
Product Contamination				
Fuel replaced due to w	ater contamination	n? Yes	No	
Amount Contaminated	l:ga	illons		
Estimated Cost of Storm Dama	ge:			
>\$500,000				
<\$500,000 but >\$100,0	100			
<\$100,000				
Inspector Name:				



# Prep Kit for Entering Natural Disaster Areas

- Cash \$\$\$
- First Aid Kit
- Water & Food
- Extra gas
- Flashlight
- Batteries
- Multiple Cans of Fix-a Flat
- Hand held GPS (Some areas will have no cell tower coverage)
- Contact lists (Facility contacts, Emergency services)
- Car chargers for phones & laptops
- Measuring tape for sticking tanks



# HURRICANE MICHAEL DAMAGE ASSESMENT INSPECTIONS



#### **AST TIPPED BY WIND**





#### **CANOPY DAMAGE**





#### **CANOPY DAMAGE**





#### **DISPENSER DAMAGE**





#### **CANOPY COLLAPSE**





#### **SHEAR VALVES AT WORK**





#### **COLLAPSED AST BARN**





### **ROOF DAMAGE**





#### **STRUCTURE DAMAGED**





#### **MARINE FACILITY AST**



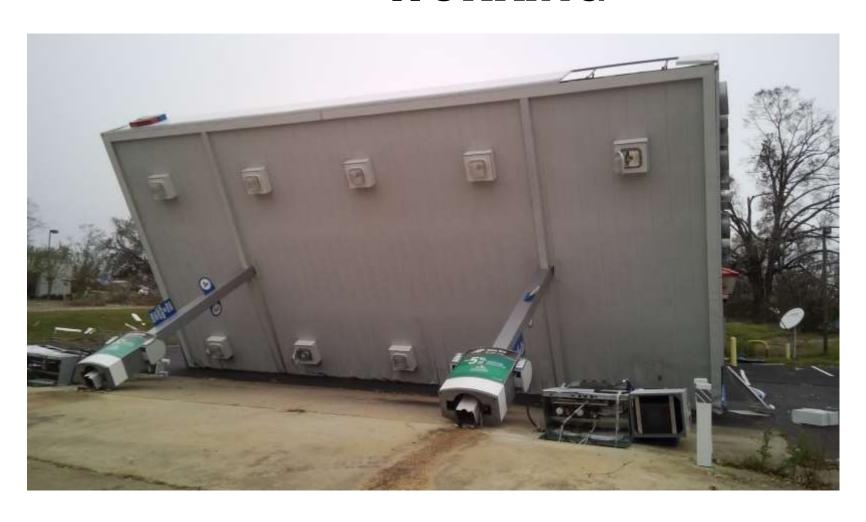


#### **DESTROYED CANOPY**





# DESTROYED CANOPY / SHEAR VALVES WORKING





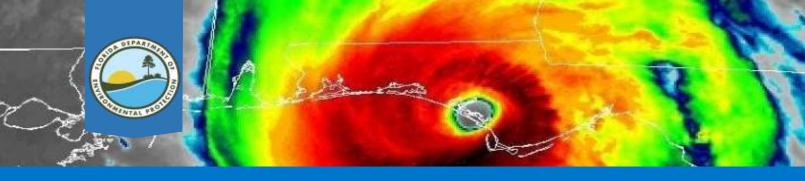
### **FACILITY DESTROYED**





#### **DISPENSER COVERS GONE**

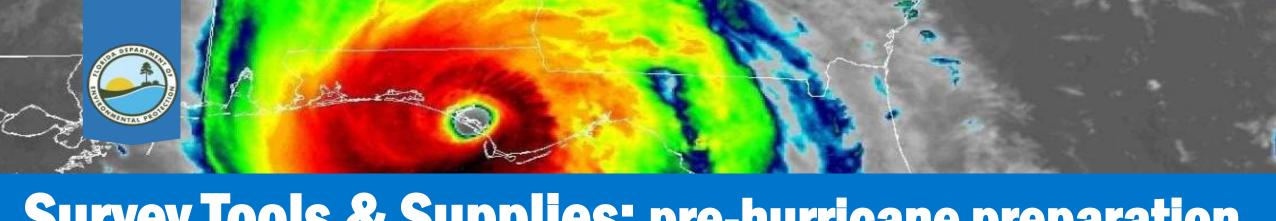




## **Proposed Post-Storm Survey**

- Be better prepared for post-storms reactions in the future
- Develop a standard template to start from

#### POST HURRICANE QUESTIONNAIRE Facility Contact: ☐ Backup Generator Facility Receiving Fuel: Canopy Dispensers ☐ Shear Valves Open Piping AST Shifted Facility has Significant Damage (repairable) ☐ AST Damaged ☐ Facility is Damaged (still operational) UST Floated Facility has Minor Damage □ Unable to Determine ☐ Facility has NO visible damage Incident occurred? INF Completed? Release inside containment? Discharge outside of containment? DRF Submitted? PRODUCT CONTAMINATION: Was system shut down prior to storm Was fuel removed from tank(s) prior to storm? Has water contaminated the fuel in the tank(s)? Estimate of fuel contaminated by water: Contaminated fuel: Properly disposed of ☐ Polished & returned to system ☐ Unknown Discharge Inspection Component Install / Closure Inspection ☐ System Closure Inspection ☐ Registration status changes need to be made



## **Survey Tools & Supplies: pre-hurricane preparation**

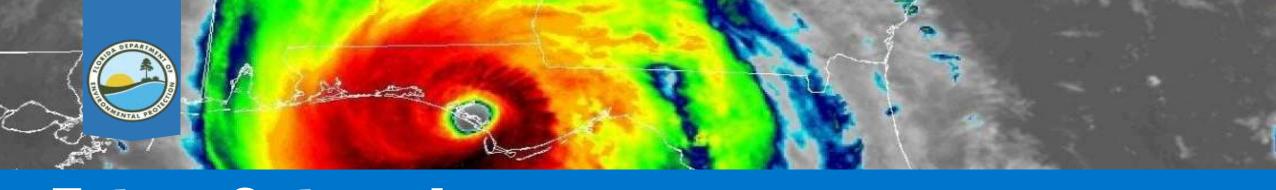
- Lists of open & regulated facilities by area
- Maps hard copy
- Communication push to talk, satellite phones
- Contact at office that can look up info



- Downed power lines
- Flooded areas
- Debris in roadway
- Flat tires



Don't Drown



## **Future Outreach**

 Prepare for future storms

Newsletter



Florida Department of Environmental Protection

#### The Petro Pulse

The Northwest District Petroleum Storage Tank Newsletter

May 2019

Welcome back to The Petro Pulse!

Our goal is to share information that will help you understand the rules and regulations of operating and maintaining underground storage tank and aboveground storage tank facilities in Northwest Florida. We hope you find the information in this and future newsletters useful.

We are here to assist, so please reach out to any of our contacts listed at the bottom of the newsletter with any questions, comments or ideas.

#### A Season of Emergencies!

Life can be unpredictable and full of emergencies. Hurricanes are already keeping the gulf coast busy this month as Texas deals with the aftermath of Harvey and Florida is preparing against the threat of Irma. We may not be able to stop the ravaging winds and flooding rain that nature brings, but we can be prepared. Whether you are a distributor or a retailer, being prepared for an emergency can mean the difference between survival and disaster.

#### **Prepare Before the Storm**

Here are some steps storage tank owners can take to reduce the chances of a discharge.

