



Crooked River Fryer Oil Release Alanson, MI



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On-Scene Coordinator
U.S. EPA

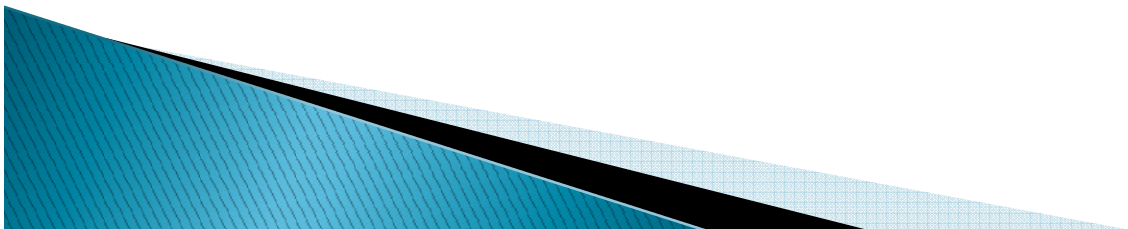
Background

▶ Vehicular Accident

- Two vehicles involved
 - Construction in area rerouted traffic patterns
 - Passenger vehicle pulled in front of truck at approximately 10:50pm on 6/11/13
 - Injuries to the driver of the truck.
 - Truck hauling approximately 2,500 gallons of spent fryer oil lost its contents into the roadway
 - Storm sewer adjacent to the incident location which leads to the Crooked River
 - Roadway cleaned – river initially ignored by RP
 - Boom deployed by contractor to the Alanson Fire Department
 - Local authorities shut river traffic in the area

▶ Report to the National Response Center

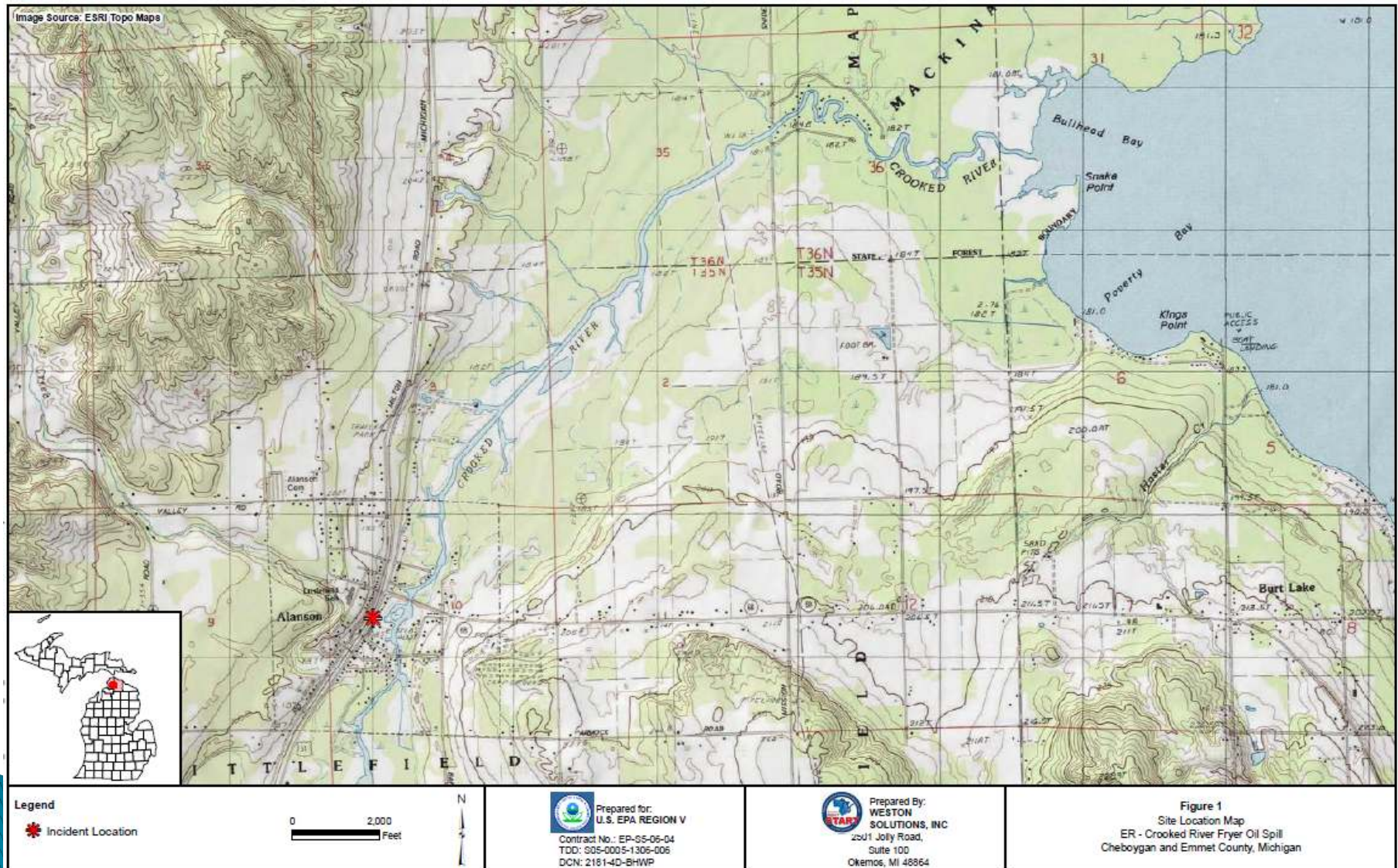
- USCG reported the incident at 1:38am on June 12 based on reports from local authorities



Incident



Location of Incident



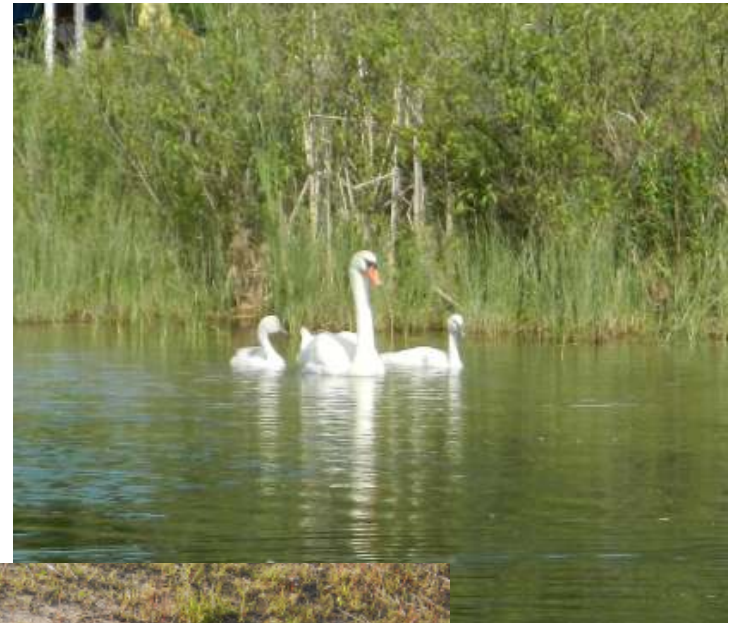
Michigan Inland Waterway



Alanson / Residential Areas

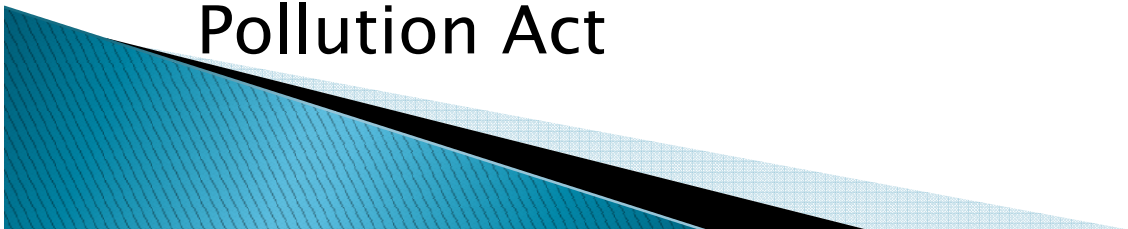


Wildlife



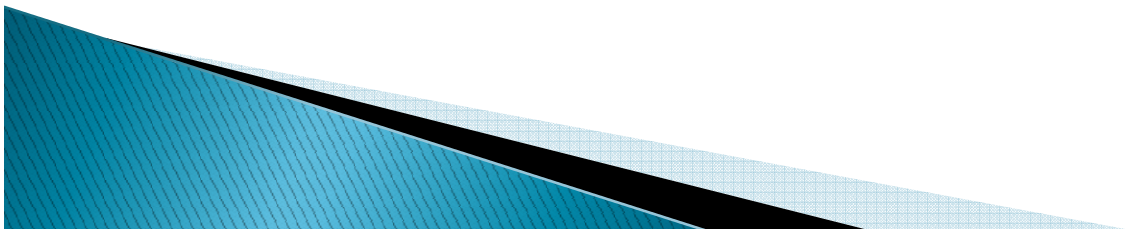
Release Material

- ▶ Yellow grease – used frying oils from deep fryers (fast food industry)
 - Glyceryl Esters of Fatty Acids
 - Health Hazard 0
 - Reactivity 0
 - Boiling Point 208 degrees Fahrenheit
 - Specific gravity 0.898
 - Flash point (Closed cup) 475 degrees
 - Solubility in water – negligible
- ▶ Feed ingredient sold to turkey growers, egg producers, hog growers, and to Biodiesel industry.
- ▶ Meets the definition of an oil in the Federal Water Pollution Control Act, as amended, by the Oil Pollution Act



Industry

- ▶ Total value of products by rendering industry in 2012 was approximately \$10 billion.
- ▶ Average annual price of yellow grease for 2012 per metric ton was \$788.
- ▶ Biodiesel production in United States in 2012 was 2,240,000 metric tons.

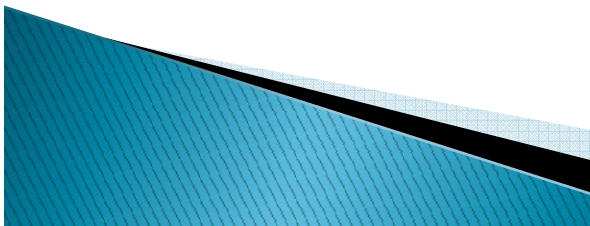


Arrival On-Scene

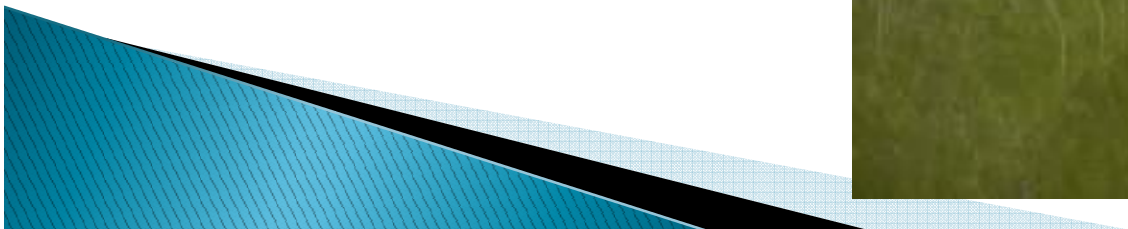
- ▶ At approximately 16:00 June 12 USCG, MDEQ, EMA, City of Alanson, and representatives of the Trucking Company were present.
- ▶ Active collection of oil had not been initiated at that time
- ▶ USCG issued Notice of Federal Interest
- ▶ EPA NOFI Issued / signed
- ▶ Responsible Party mobilized vac trucks, frac tank, boom, response equipment and personnel to the site by 17:00



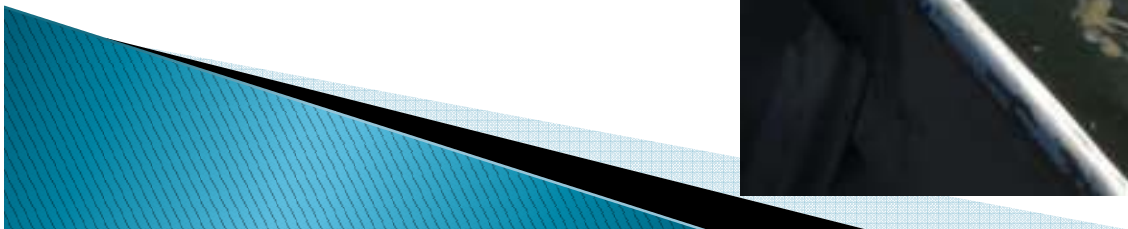
Initial Assessment – Release Location



Initial Assessment – River



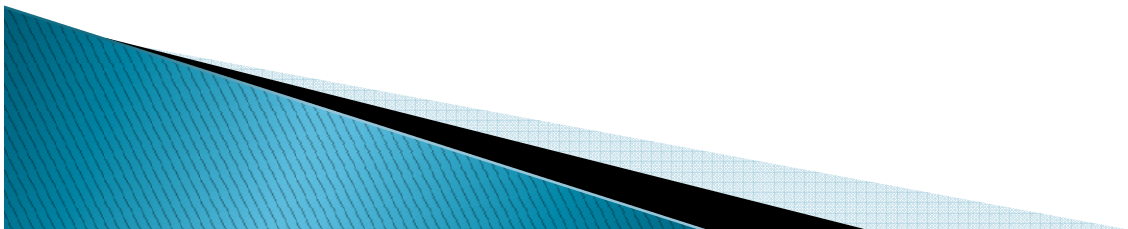
Initial Assessment – River



Water Quality Surveys



- ▶ Tip of the Mitt Watershed Council
 - On Site June 12 and June 14 collecting Temperature, Dissolved Oxygen, Conductivity, and pH readings.
 - Throughout water column and downriver.
 - Dissolved oxygen remained above 8 milligrams per liter.
 - Responded to media concerns and provided real time data for decision making



Source material in sewer line / Catch Basins

- ▶ Combo Unit
 - ▶ High Pressure Nozzle / Vacuum Collection



Collection – Release Location



Legend

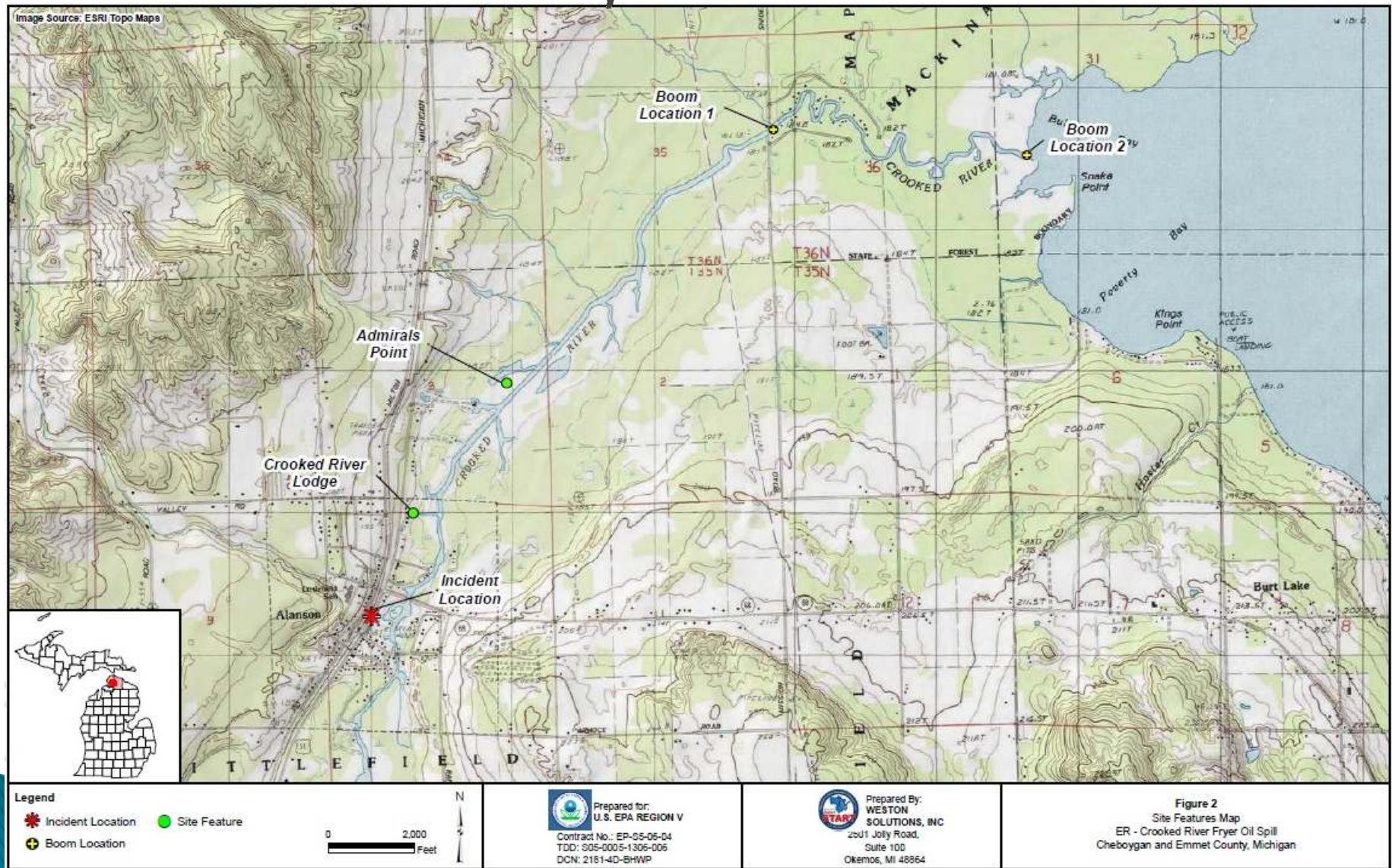
- Incident Location
- Boom Location
- Site Feature

0 2,000 Feet

N

U.S. EPA REGION V

Contract No.: EP-S5-05-04
TDD: 305-9005-1306-005
DCN: 2161-4D-BHWP



Collection – Inlets



Containment Boom – Marathon Way



Impact / Collection Downriver



Crooked Lake Lock and Dam

- ▶ Shut down on the evening of the incident
- ▶ At the request of OSC, first opened on June 14 to increase water flow to move oil to collection point (after containment boom established)
- ▶ Efficacy?



Media Interest

Officials keep an eye on Inland Waterway cooking oil spill

June 14, 2013 | Morgan Sherburne (231) 439-9394 - msherburne@petoskeynews.com



Morgan Sherburne/News-Review

ALANSON — After Tuesday's late evening two-vehicle crash, about 5,500 gallons of a mix of used cooking oil and water spilled from a semi-truck — one of the two involved vehicles — and oozed its way toward the Crooked River.

Recommend

Tweet

The Crooked River/Alanson Lock remains closed today, Friday.

Clean-up crews contracted by the Environmental Protection Agency cleaned cooking oil spilled during Tuesday's crash cleaned from storm sewers by mid-afternoon on Thursday, said EPA's on-scene coordinator.

Today, Friday, June 14, the clean-up crews will keep an eye on the storm sewers and ditch a small oxbow pond in order to clean oil contained there by absorbent booms.

chicagotribune.com

Our View: Quick thinking helped prevent more damage in Crooked River oil spill

9:23 AM CDT, June 28, 2013

June 18, 2013 12:01AM

River reopens after cooking oil spill

The Crooked River re-opened to navigation Saturday, five days after a two-vehicle accident injured a truck driver and spilled used cooking oil onto US 31, into the storm sewer and eventually into the river.

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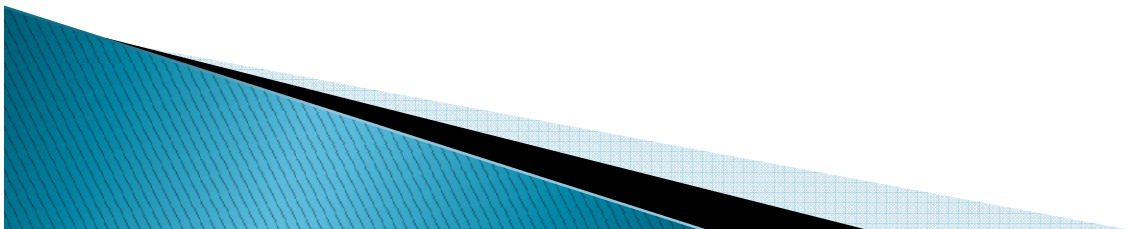
Boating traffic resumed by 2 p.m. Saturday, according to Emmet County Sheriff Pete Wallin. The cooking oil is the type that is collected from restaurants that store it after preparing meals, Wallin said. He said the driver estimated that approximately 12,000-13,000 pounds of used cooking oil was spilled onto the roadway just south of M-68 in Alanson.

Many agencies worked to control the spill and its effects on fish and wildlife. Much of it was skimmed from the surface of the river and more absorbed by materials placed on the water. The U.S. Coast Guard and Michigan Department of Environmental Quality/Department of Natural Resources found that the cooking oil was very different to deal with than a fuel oil spill, but in some ways had less destructive effects.

Residents from near the river are being asked to watch for waterfowl that appear to have the oil on them so they can be captured and cleaned.

The spill took place about 10:45 p.m. on June 11 when a northbound semi truck attempted to avoid a collision with a northbound pick-up truck that came in contact with each other, causing the semi truck to roll over, spilling the oil. The accident remains under investigation.

Impacted Wildlife



River Opened – June 15

► Decision

- Clean-up Operations were being conducted
- Health and Safety Concerns (Workers, Public)
- Contact with water
- Father's Day Weekend
- Sherriff's Marine Unit supported the decision and agreed to enforce a strict No Wake Zone for response personnel
- Policy announced to public



Response Effort

- ▶ Primary Response Effort was conducted June 12 – June 16
- ▶ Contractors for Responsible Party Remobilized on June 19, 20, and 25 to collect pockets of degraded oil
- ▶ Oversight by EPA, EPA Contract Staff and local authorities who remained in contact with citizens

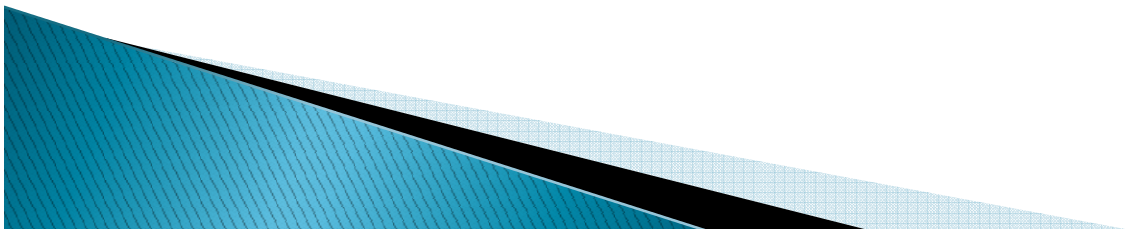


River



Material Collected

- ▶ 44,350 Gallons of Water NonRCRA / Non DOT Regulated Waste Kitchen Grease
- ▶ 45 Drums (55-gallon) Kitchen Grease Absorbents / PPE



World's Smallest Ferry



Next Steps

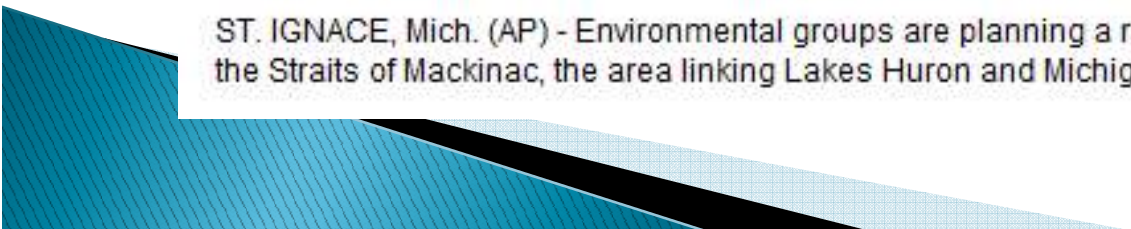
- ▶ Cost recovery
- ▶ Enforcement
- ▶ Sub–Area Contingency Planning – mechanisms to protect the storm sewer?
- ▶ Community:

Rally protests oil pipeline near Mackinac Bridge

Posted: Jul 14, 2013 3:04 AM CDT

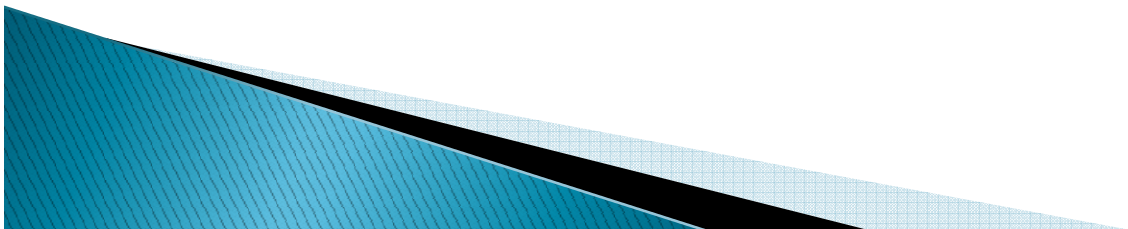
Updated: Jul 14, 2013 8:40 AM CDT

ST. IGNACE, Mich. (AP) - Environmental groups are planning a rally to call attention to an oil pipeline that crosses the Straits of Mackinac, the area linking Lakes Huron and Michigan.



Agencies

- ▶ United States Coast Guard
- ▶ Alanson Fire Department
- ▶ Michigan Department of Environmental Quality
- ▶ Michigan Department of Natural Resources
- ▶ Charlevoix Cheboygan Emmet – Office of Environmental Management
- ▶ Emmett County Sherriff's Office
- ▶ Emmet County Sherriff Marine Division
- ▶ Michigan State Police
- ▶ Emmet County Road Commission



Questions?

