

US EPA ARCHIVE DOCUMENT

U.S. ENVIRONMENTAL PROTECTION AGENCY  
 POLLUTION/SITUATION REPORT  
 Enbridge Pipeline Crude Release - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region V

**Subject:**           **POLREP #4**  
                           **Enbridge Pipeline Crude Release**  
                           **Z5JS**  
                           **Marshall, MI**  
                           **Latitude: 42.2395273 Longitude: -84.9662018**

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**From:** Ralph Dollhopf, On-Scene Coordinator  
 Stephen Wolfe, On-Scene Coordinator  
 Jeffrey Kimble, On-Scene Coordinator

**Date:** 7/29/2010

**Reporting Period:** 7/28/2010 1800 hrs. 7/29/2010 1800

## 1. Introduction

### 1.1 Background

<b>Site Number:</b>	Z5JS	<b>Contract Number:</b>	
<b>D.O. Number:</b>		<b>Action Memo Date:</b>	
<b>Response Authority:</b>	OPA	<b>Response Type:</b>	Emergency
<b>Response Lead:</b>	PRP	<b>Incident Category:</b>	Removal Assessment
<b>NPL Status:</b>	Non NPL	<b>Operable Unit:</b>	
<b>Mobilization Date:</b>	7/26/2010	<b>Start Date:</b>	7/26/2010
<b>Demob Date:</b>		<b>Completion Date:</b>	
<b>CERCLIS ID:</b>		<b>RCRIS ID:</b>	
<b>ERNS No.:</b>		<b>State Notification:</b>	
<b>FPN#:</b>	E10527	<b>Reimbursable Account #:</b>	



#### 1.1.1 Incident Category

Emergency Response -- Pipeline Rupture

#### 1.1.2 Site Description

A 30 inch pipeline ruptured releasing its contents (NRC report of 19,500 barrels) into a culvert leading to Talmadge Creek. Talmadge Creek leads to the Kalamazoo River. The site is along the River running from Marshall, Michigan to Battle Creek, Michigan. The River is bordered by marshland, residential properties, farm land, and commercial properties for the approximate 30 mile stretch of the affected river.

##### 1.1.2.1 Location

Spill location origin is in Marshall, Michigan on Talmadge Creek and extends 30 miles down

the Kalamazoo River.

### **1.1.2.2 Description of Threat**

Western Canadian crude oil was released from the pipeline and has entered a navigable waterway.

### **1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results**

Approximately 30 miles of the Kalamazoo River have been impacted. The Kalamazoo River level is higher than normal because of recent heavy rain in the area impacting boom deployment and site monitoring activities. The River levels are beginning to fall. Talmadge Creek has been boomed at the confluence to the Kalamazoo River and seem to be containing the oil still behind them. Boom has been placed in seventeen locations along the Kalamazoo River. Precautionary boom has also been deployed in Morrow Lake.

## **2. Current Activities**

### **2.1 Operations Section**

#### **2.1.1 Narrative**

#### **2.1.2 Response Actions to Date**

USEPA ERRS contactors have deployed 2,000 feet of boom. The RP has deployed boom and skimming equipment at seventeen locations along Talmadge Creek and the Kalamazoo River. Recovered material is being temporarily stored in frac tanks on site. Tanker trucks are transporting the material to a facility owned by the RP with available storage in Griffith IN. To date approximately 2874 barrels of oil/water has been recovered Griffith IN. 16190 barrels has been collected and is being stored in frac tanks for future transport. No sheen has been observed on Morrow Lake to date.

START is monitoring air quality along the river and throughout residential areas. Monitoring equipment includes UltraRAE, PPB RAE, Multi RAE, Draeger CMS Chip Reader, and AreaRAE. The 51st Civil Support Team is providing air monitoring and sampling assistance by use of Hapsite portable GC/MS. The RP has contracted with CTEH to perform air monitoring services along the affected area.

US Fish and Wildlife Service is working with the wildlife team to address wildlife impacts. A rehabilitation center for oiled wildlife has been established and twenty three birds, mammals and turtles were brought in for cleaning.

The USCG Atlantic Strike Team is on scene to provide assistance with PRP and contractor oversight. Eight additional District 9 USCG staff arrived and were integrated into the response.

Several State Representatives and the Michigan Attorney General visited the site today.

NTSB and USDOT-PHMSA are on site conducting an investigation of the pipeline incident and are working with the appropriate State, Local, and Federal agencies.

Calhoun County Health Department in consultation with Michigan Department of Community Health and Agency for Toxic Substances and Disease Registry has issued a voluntary evacuation for several residences located immediately downstream of the spill site along the Talmadge Creek up to the confluence with the Kalamazoo River. This voluntary evacuation was based on review of air monitoring results for benzene around oil collection areas.

#### **2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)**

Enbridge is the PRP.

On July 27, 2010, USEPA issued an Administrative Order under section 311(c) of the Clean Water Act to

Enbridge. Enbridge is actively addressing all the deliverables of the Order including but not limited to; drafting an overall site work plan; health and safety plan; and sampling and analysis plan.

### 2.1.4 Progress Metrics

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>

## 2.2 Planning Section

### 2.2.1 Anticipated Activities

The RP is not planning to boom any additional sites but will augment the existing ones and work to collect more of the oil. USEPA contractors will continue deploying additional resources and setting boom.

Continue air monitoring and sampling at collection points, near residential areas and in response to odor complaints.

Collect water samples from Kalamazoo river upstream and downstream of Talmedge Creek.

### 2.2.2 Issues

The Kalamazoo River level is higher than normal because of recent heavy rain in the area impacting boom deployment and site monitoring activities. The water levels are falling.

RP has been informed that a Superfund site (PCB cleanup) is occurring on the Kalamazoo River Downstream of Morrow Lake (approximately 35 river miles downstream). The RP has been advised to make all efforts necessary to ensure the oil does not reach the Superfund Site. The City of Plainwell, Michigan has proposed a strategy involving boom diversion and oil collection as a contingency in the event oil impacts the Superfund Site.

## 2.3 Logistics Section

We are supporting twenty four hour operations.

Air monitoring support trailers are moving from the Enbridge Operations Center to the Walters Grade School.

Below is the equipment and staff deployed by Enbridge.

		<b>Total</b>
<b>Employees</b>	Enbridge	<b>31</b>
	Contractors	<b>252</b>
	Vacuum Trucks	<b>45</b>

<b>Major Resources</b>	Skimmers	<b>19</b>
	Tanker Trucks	<b>16</b>
	Air Compressors	<b>13</b>
	Light Plants	<b>38</b>
	Trailers	<b>11</b>
	Trash Pumps	<b>6</b>
	Frac Tanks	<b>64</b>
	Boats	<b>24</b>
<b>Length of Boom Deployed in River</b>	Containment Boom (ft)	<b>12,270</b>
	Absorbent (ft)	<b>8,240</b>
	Total boom deployed	<b>20,510</b>
<b>Length of Boom Available by River</b>	Containment Boom (ft)	<b>6,000</b>
	Absorbent (ft)	
<b>Length of Boom Available in Yard</b>	Containment Boom (ft)	<b>2,520</b>
	Absorbent (ft)	
	Rate of Recovery (gph)	<b>15,417</b>
<b>Total Recovery (oil &amp; water)</b>	Marshall (bbls)	<b>19,460</b>
	Griffith (bbls)	<b>3,280</b>

## 2.4 Finance Section

### 2.4.1 Narrative

The Oil Spill Liability Trust Fund has been accessed for U.S. EPA expenditures. FPN E10527. They are funding the response in two million dollar increments. At the current burn rate, we will need to request an increase in funding in ten days.

US Fish and Wildlife and the USCG have received a PRFA for their activities.

The RP is currently financing the cleanup operations.

## 2.5 Safety Officer

A 50 foot perimeter has been established as the hot zone around each vac truck. Personnel inside the area are wearing half face air purifying respirators due to benzene content. Workers in the area are using personal monitors for benzene.

US EPA is assisting the RP with drafting a site Specific Health and Safety Plan.

The Safety Officer visited several Divisions to monitor booming operations. The Safety Officer also took air monitoring readings at the Wildlife Rehabilitation Center at the request of Michigan Department of Agriculture. No significant VOCs were detected.

## 2.6 Liaison Officer

Approximately 30 State, Local, and Federal agencies are participating in the response.

## 2.7 Information Officer

### 2.7.1 Public Information Officer

The PIO

- Fielded several dozen calls from reporters in Michigan, Ontario, Washington D.C., and several other Great Lakes States
- Established elements of Joint Information Center with Michigan Agencies including the Governor's Office, Enbridge and Calhoun County Agencies
- Coordinated with EPA Headquarters Office of Public Affairs and EPA Region 5 Office of Public Affairs
- Coordinated a media briefing in Battle Creek, MI covered by 15-20 reporters both on-scene and by conference line.
- Initiated discussion of establishing a permanent media briefing location at a nearby location.

### 2.7.2 Community Involvement Coordinator

- Initiated planning for public meeting/availability session on Saturday afternoon at a nearby location.
- Held first briefing call with Michigan environmental groups to provide situation update.
- Assessed needs for ongoing public information in communities immediately affected by the spill.
- Fielded approximately a dozen calls forwarded by other parties in the response.

## 3. Participating Entities

### 3.1 Unified Command

Enbridge (Responsible Party)  
 US EPA  
 Michigan Department of Natural Resources and Environment  
 Michigan State Police Emergency Management Division  
 Calhoun County Public Health Department  
 Calhoun County Sheriff

### 3.2 Cooperating and Assisting Agencies

#### Cooperating Agencies

American Red Cross  
 Augusta Police Department  
 B&B Fire Safety Emergency Response  
 Calhoun Conservation District  
 Calhoun County Commissioners  
 Calhoun County Drain Commission  
 Calhoun County Sheriff's Office  
 Calhoun Conservation District  
 Calhoun Greenation District  
 City of Battle Creek, Michigan  
 City of Marshall, Michigan  
 Federal Energy Regulatory Commission  
 Fredonia Township Fire Department  
 Huron Potawatomi  
 Kalamazoo County Office of Emergency Management

Kalamazoo County Sheriff's Office  
 Kalamazoo Public Safety  
 Marshall Township Government and Fire Department  
 Marshall Police Department  
 Natural Resource Group  
 National Transportation Safety Board  
 Pipeline Hazardous Materials Safety Administration  
 U.S. Department of Transportation  
 U.S. Fish & Wildlife Service  
 U.S. Department of Labor, OSHA

#### **Congressional Presence**

State Representative Jase Bolger  
 State Representative Kate Segal  
 State Representative Ken Kurtz  
 State Representative Phil Browne  
 State Representative Phyllis Browne  
 State Representative Bob Geuck  
 State Representative Tanya Schuitmaker  
 State Senator Mike Nofs  
 U.S. Congressman Mark Schauer  
 U.S. Senator Carl Levin  
 U.S. Senator Stabenow

#### **4. Personnel On Site**

EPA OSCs	EPA IMT/RSC/MGMT	START
10	18	23

#### **5. Definition of Terms**

#### **6. Additional sources of information**

##### **6.1 Internet location of additional information/reports**

##### **6.2 Reporting Schedule**

#### **7. Situational Reference Materials**