

US EPA ARCHIVE DOCUMENT

U.S. ENVIRONMENTAL PROTECTION AGENCY
 POLLUTION/SITUATION REPORT
 Kalamazoo River/Enbridge Spill - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 Region V

Subject: POLREP #2
 Kalamazoo River/Enbridge Spill
 Z5JS
 Marshall, MI
 Latitude: 42.2395273 Longitude: -84.9662018

To: David Chung, U.S. EPA
 Jason El-Zein, U.S. EPA
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From: Ralph Dollhopf, On-Scene Coordinator
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Date: 7/27/2010
Reporting Period: 7/27/2010 0600 - 1400

1. Introduction

1.1 Background

Site Number:	Z5JS	Contract Number:	
D.O. Number:		Action Memo Date:	
Response Authority:	OPA	Response Type:	Emergency

Response Lead:	PRP	Incident Category:	Removal Assessment
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	7/26/2010	Start Date:	7/26/2010
Demob Date:		Completion Date:	
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:	E10527	Reimbursable Account #:	

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 16 mile stretch of the affected river between Marshall and Morrow Lake.

1.1.2.1 Location

Spill location origin is in Marshall, Michigan

1.1.2.2 Description of Threat

Crude oil is released from the pipeline and has entered a navigable waterway.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Approximately 16 miles of the Kalamazoo River has been impacted. The River is running higher than normal due to recent heavy rains in the area. Talmadge Creek has been boomed at the confluence to the Kalamazoo River. Preliminary booming is in place along the Kalamazoo River.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

2.1.2 Response Actions to Date

RP has deployed boom and skimming equipment at several locations along Talmage Creek and the Kalamazoo River.

RP has deployed boom and skimming equipment at the following locations which intersect Talmage Creek; Division Street; Culvert at I-69; A Drive; and 15 mile Road. RP has also deployed boom and skimming equipment at the following locations which intersect the Kalamazoo River; Wattles Park at I-94; 20th Street; Helmer Road; and at a boat launch south of City of Augusta.

Recovered material is being temporarily stored in frac tanks on site. Tanker trucks are then transporting the material to another facility of the RP with available storage (Griffith IN, approximately 100 miles).

START is assisting the RP with air monitoring in the residential neighborhoods. Benzene is the contaminant of concern. USEPA is working with ATSDR and Unified Command to establish appropriate health based thresholds. Air monitoring rounds are being conducted hourly. START deployed AREA RAEs in the residential areas and are datalogging readings for changes in VOCs.

US Fish and Wildlife Service will oversee operations with the capture and cleaning of affected wildlife. As of 23:00 approximately 43 geese were reported dead and an additional 20 oiled geese were affected.

Approximately 6 residential homes have self evacuated due to the odor and the RP is providing lodging.

Calhoun County Health and the Calhoun County Sheriffs Department are providing assistance as requested.

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

Enbridge is the PRP.

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

RP is planning to identify a location and construct a culvert-dam upstream of Morrow Lake in order to prevent further migration of oil. Implementation of these activities may be delayed because of current Kalamazoo River conditions.

USEPA recommended additional secondary containment construction at Morrow Lake in the event the culvert-dam fails.

Additional locations for deployment of boom and skimming equipment has been proposed at the following locations along the Kalamazoo River; Burnham and Riverside Drive; Ceresco Dam; and the Waste Water Treatment Plant downstream of Helmer Rd.

A request has been made to deploy the 51st Civil Support Team (CST) to provide additional air monitoring and sampling support.

Mobe additional equipment (Vac trucks, tanker trucks, boom, etc).

Recover oil from the river.

Continue air monitoring and sampling activities.

2.2.1.1 Planned Response Activities

See Indicated Activities

2.2.1.2 Next Steps

See Anticipated Activities

2.2.2 Issues

The Kalamazoo River is currently running fast due to recent heavy rains in the area affecting booming strategies and monitoring abilities.

The affected portion of the Kalamazoo River runs through marshland and assessments of the areas need to be performed.

The RPs contractors are working on a waiver for the truck drivers to bring additional storage capacity to the site.

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 PRP has been advised to make all efforts necessary to ensure the oil does not reach the Superfund Site.

2.3 Logistics Section

Planning for 24 hour operations.

Currently 4 OSCs are on staff for day operations and 2 are on staff for night time rotation (with more expected).

8 STARTS are on staff for day operations and 8 STARTS are on staff for night time operations.

2.4 Finance Section

2.4.1 Narrative

The Oil Spill Liability Trust Fund has been accessed for U.S. EPA expenditures. FPN E10527

US Fish and Wildlife is requesting 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 near the vac trucks. 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.

A site Specific Health and Safety Plan is being drafted.

2.6 Liaison Officer

Approximately 20 State, Local, and Federal agencies are participating in the response.

2.7 Information Officer

2.7.1 Public Information Officer

RP has a PIO for the project. EPA PIOs en route.

2.7.2 Community Involvement Coordinator

En route.

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

Calhoun County Sheriff Department
Calhoun County Public Health Department
US Fish and Wildlife
City of Marshall Health Department
Michigan State Police
Pipeline and Hazardous Materials Administration
Michigan Department of Community Health
Agency for Toxic Substances and Disease Registry

A request has been made to the 51st Civil Support Team for additional air monitoring assistance.

The USCG will be on scene to assist on July 28, 2010

4. Personnel On Site

2 OSCs
4 START

RP personnel

5. Definition of Terms

6. Additional sources of information

6.1 Internet location of additional information/reports

6.2 Reporting Schedule

POLREP #3 will be distributed with updated information shortly.

7. Situational Reference Materials