

US EPA ARCHIVE DOCUMENT

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region V



**Subject:** SITREP #12  
Kalamazoo River/Enbridge Spill  
Z5JS  
Marshall, MI  
Latitude: 42.2395273 Longitude: -84.9662018

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**Date:** 08/06/10

**Reporting Period:** 1900 hours 08/05/10 to 1900 hours 08/06/10 1900

## 1. Introduction

### 1.1 Background

#### 1.1.1 Site History

##### Background Information

|                            |           |                                |                    |
|----------------------------|-----------|--------------------------------|--------------------|
| <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> |                    |

### **1.1.2 Incident Category**

Emergency Response -- Pipeline Rupture

### **1.1.3 Site Description**

A 30-inch pipeline ruptured, releasing crude oil (NRC report of 19,500 barrels) into a culvert leading to Talmadge Creek. Talmadge Creek is a tributary to the Kalamazoo River. The response site is along the Kalamazoo River running from Marshall, Michigan to Battle Creek, Michigan. The Kalamazoo River is bordered by marshland and developed properties for the approximately 30 mile stretch of the response site.

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

Approximately 30 miles of the Kalamazoo River have been impacted. The Kalamazoo River experienced flooding before and after the spill. The river levels have fallen and stranded oil in some backwaters and wetlands. Talmadge Creek has been boomed off at the confluence to the Kalamazoo River. Containment and absorbent boom has been deployed along the Kalamazoo River and Talmadge Creek. Containment and absorbent boom have also been deployed in Morrow Lake.

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

Enbridge is the RP.

On July 27, 2010, EPA 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.

## **1.2 Incident Objectives and Command Emphasis**

### **Incident Objectives**

- 1) Ensure health and safety of the public and response & recovery personnel.
- 2) Maintain the isolation of Talmadge Creek and Kalamazoo River from the source area.
- 3) Contain and recover oil and contaminated vegetation in Talmadge Creek and Kalamazoo River.
- 4) Maintain effective unified communications with cooperating & assisting agencies and the public.
- 5) Perform remediation & restoration of all affected public & private areas of river & river systems
- 6) Provide protection of environmentally and culturally sensitive areas including wildlife and historic properties.

- 7) Identify threatened species & continue to recover & rehabilitate injured wildlife.
- 8) Set up an effective claims process and information centers in Marshall.
- 9) Complete an outline for contingency plans.
- 10) Continue to operate a Joint Information Center.
- 11) Establish a process to collect, coordinate, manage and communicate environmental and public health data.
- 12) Obtain input from DNRE to help establish protocols to guide cleanup of environmentally impacted areas.

### **Command Emphasis**

- 1) Continue efforts to remove oil from pipeline break zone.
- 2) Emphasize efforts for shore cleanup including Ceresco Dam.
- 3) Maintain continuous comprehensive on-water/analytical sheen monitoring, investigation, reporting and recovery at Morrow Lake.
- 4) Evaluate, identify, and implement relocation options for residents outside the evacuation zone with emphasis on Baker Estates work zone.
- 5) Complete and implement operating procedures for epi investigations.
- 6) Finalize and implement Unified Command operating procedures.
- 7) Resolve issues with hotline implementation.
- 8) Develop an interagency protocol to ensure that all agencies requiring involvement in the investigation and removal of the pipeline break section are advised of the timing and progression of that activity.

### **1.3 Strategic Considerations**

- 1) EPA will review the Response Plan submitted by Enbridge with support from EPA ERT, MDNRE, USCG, NOAA, USFWS and Calhoun County.
- 2) EPA will work with Enbridge to develop the transition plans for Logistics and Procurement functions to Enbridge from EPA.
- 3) EPA and Enbridge will finalize operational plans for removal of the ruptured section of affected pipeline.

## **2. Current Activities**

### **2.1 Operations Section**

#### **2.1.1 Narrative**

The response site extends from the pipeline break to the dam at the end of Morrow Lake and has been geographically divided into five Divisions, A to E, with Division A starting at the pipeline break and ending at Morrow Lake in Division E. The Divisions are split into two Branches, with the East Branch covering Divisions A and B and The West

Branch covering Divisions C, D and E. The Divisions are further broken down into collection points that are denoted by division letter then collection point number (i.e. C3 refers to collection point three within Division C).

## **River Branch East Divisions A and B**

### **EPA**

In Division A, EPA provided oversight of pipeline excavation, pumping, and skimming throughout the night. Air monitoring during soil dewatering activities (dumping/stirring) showed increased VOCs (>20 ppm) and benzene hits (0.38 ppm on a 60-second integrated count reading).

EPA, MDNRE, and START entered the Hot Zones in Division A during the day. START conducted air monitoring for VOCs, LEL and benzene. Air sampling in the area surrounding the pipeline excavation confirmed that respiratory protection was no longer needed in that area.

In Division B, EPA observed skimming and snare operations (B5, B4.7, and B3).

EPA observed that B4 cleanup contractors were switched out with a new cleanup contractor. Enbridge excavated soil surrounding Talmadge Creek in Division B1 and staged contaminated soil in the staging area. Enbridge continued placing track mats for access to Talmadge Creek oiled soil excavation. A trash pump was utilized in B3 to pump river water onto oiled banks for washing. Division B4 removed absorbent boom from the banks to release oil tied up there.

### **Enbridge**

In Division A, Enbridge continued dewatering operations. Enbridge completed soil excavation surrounding the pipeline and began cutting the pipe for removal. Enbridge continued excavating contaminated soil from Divisions A and placing it on staging pads. Enbridge continued collecting oil at collection points and constructed an equipment decontamination pad.

In Division B, Enbridge continued to install mat rows, conduct oil collection with vacuum trucks, and maintain boom.

## **River Branch West**

### **EPA**

In Division C, EPA observed the booming of shoreline and collection of oil by two vacuum trucks. Snare booms were deployed and the vacuum trucks captured an estimated 1,600 gallons yesterday and are expected to capture 3,000 gallons through today (C3). Chevron boom was installed around an island at location C3.2. Strong currents at location C2 were making boom ineffective and oil was observed passing under the boom. One-

hundred fifty (150) gallons were collected at this location. EPA observed continued boom maintenance and the construction of a decontamination pad at location C0.5.

EPA also observed skimming of the lily pad area at location C1 downstream of the dam. The area was full of heavy oil and excavation was recommended.

The USCG team observed operations at locations C6, C5, C4, C3, C2, C1, and C0. Sheen was observed coming from vegetation in locations C2, C3, C5 and C6. A decontamination station was shut down due to overspray in location C5. Boat crews reported an air monitoring hit of H<sub>2</sub>S at 13 ppm.

In Division D, EPA observed re-positioning of containment boom. Boom was placed to divert oil to the north bank of the Kalamazoo River for collection at location D2.5. Oiled vegetation and debris was bagged from diversion booms. A decontamination pad was constructed.

START conducted oversight duties related to the boom operations taking place at locations D.5, D1, D2, D2.5, D3, and D5. EPA also conducted air monitoring at boom locations D2, D2.5, D3, and D5. Air monitoring results at each location were 0.00 ppm benzene and 0.00 ppm for VOCs, except at location D2 where a reading of 0.05 ppm benzene was recorded. In addition, no H<sub>2</sub>S was detected with the MultiRae unit.

EPA observed that the containment booms at locations D0.5, D1, D2, and D3 appeared to be covered with oil and that there was a sheen emanating from the boom material.

In Division E, EPA observed operations at E3, E3.5, and E4. Sheen was observed on Morrow Lake near location E4. Boom maintenance continued near location E3.

### **Enbridge**

In Division C, Enbridge collected lily pads from the water with 3 boats in area C1. Fourteen (14) boats were being used for boom maintenance and cleanup.

Enbridge started shoreline cleanup including deployment of snare boom near location C4.

In Division D, Enbridge readjusted booms to get better deflection near location D1. The skimmer was collecting approximately 90% water.

Enbridge continued decontamination of boom and collected 15 gallons of oil. Five hundred feet of sweep were pulled in and added 120 ft of snare boom at location D2.

Enbridge maintained absorbent boom and deployed additional absorbent boom at locations D3, D4 and D5.

Enbridge bagged about 30 bags of debris at each location and installed an underwater aerator to breakup tar flakes and maintained booms at location E1.

## **Morrow Lake Task Force**

Two areas of sheen were observed on the lake in the morning. Samples and coordinates were taken for the two areas. Boat crews conducted skimming operations, surveyed the lake for oil, and laid absorbent pads to collect sheen. Sheen may have been generated by boat propellers turning up the bottom of the lake.

## **Branch Operations**

Enbridge Operations has a Shoreline Branch, Monitoring Branch, Wildlife Branch and Air Ops Branch that conduct activities in all the Divisions. EPA also conducts Monitoring Branch operations.

### **Shoreline Branch**

Enbridge mobilized an additional 14 boats to assist with cleanup. Decontamination and mats were moved to accommodate the new boats. Three boats were cleaning the shoreline during this period.

### **Monitoring Branch**

#### **EPA**

The GLNPO MV MUD PUPPY collected surface water, water column, and sediment samples at five locations in the eastern portion of Lake Morrow. The samples were sent for analysis. Sampling crews observed some sheen associated with some of the sediment samples at several locations.

A total of 20 air samples and 2 surface water samples were reported as collected for the August 5 sampling period and sent to the laboratory for analysis.

The SCAT team assessed location B5 upstream to B 4.7 mile on foot and generally assessed locations B4, B3 and B2. The team observed removal operations including: skimming, booming and vacuuming the oil. The SCAT team collected thirty-two water samples from Division A for analysis.

### **Enbridge**

Focused programs were implemented around the Baker Estates Trailer Park, the Ceresco Dam, Morrow Lake and the leak site. Enbridge collected 34 surface water samples, 24 potable water samples, 5 sediment samples, 16 24-hour grab air samples, 4 mini-summa air samples, 18 air grab samples, and 21 passive dosimeter samples. Additionally, real-time monitoring for benzene and VOCs continued.

## Wildlife Branch

USFWS worked with the Wildlife Branch to address wildlife impacts. The wildlife center continued to receive many animals collected along the Kalamazoo River. A total of 83 birds, 62 turtles and various other mammals and reptiles have been recovered and are being cleaned and/or rehabilitated. To date 14 turtles have been released.

## Air Ops Branch

Four over flights were conducted and sheen was observed on Morrow Lake in the morning. The Task Force investigated and took water samples.

## Boom Report

|  | Enbridge | EPA    | TOTALS  |
|--|----------|--------|---------|
| Number of Locations                          | 32       | 5      | 37      |
| Boom Deployed (feet)                         | 60,355   | 79,995 | 140,350 |
| Boom Available(feet)                         | 662,680  | 51,650 | 714,330 |
| Oil/Water Recovered<br>(bls- est) cumulative | 67,448   | 3,543  | 70,991  |

## 2.2 Planning Section

A UC Science Team that includes technical specialists from the EU, EPA's ERT, DNRE, USFWS, USGS, and NOAA was formed to review and comment on Enbridge's work plans. The EU received Enbridge's Source Area Remediation Plan, Remediation Plan for Downstream Impacted Areas for review and the revised Sampling and Analysis Plan (SAP). The EU will complete the review of the SAP on August 7, 2010.

A NOAA SCAT consultant and the EU developed the methodology for transmitting cleanup recommendations from SCAT surveys to OPS.

The DMU provided a Google Earth file of validated analytical data to Public Affairs for uploading on the public website. DMU met with the CTEH data manager and conducted a call with the National DATA Team.

The Resource Unit completed the IAP for the Operational period from August 7-8, 2010.

### 2.2.1 Anticipated activities for next reporting period

In the next operational period, EPA anticipates performing the same activities as in the previous operational period.

### 2.2.2 Issues

The Calhoun County Public Health Department (CCPHD) initiated an outreach effort to the community within Baker Estates trailer park and immediately surrounding residences to provide information regarding the Temporary Voluntary relocation of the residents during operational activities to address the oil contamination in the near shore areas. A Mobile Medical Unit will be on-scene with support from a physician, public health nurses, and CCPHD staff to assess the health needs of the residents.

The Public Health Workgroup (ATSDR, CCPH, MDNRE, NOAA, CTEH, MDCH, EU) is reviewing the data collected within the Evacuation Zone over the past 48 hrs to identify priority areas where re-occupancy of residents could be recommended. These areas will be targeted for 24 hr air sampling to confirm that the re-occupancy criteria have been met.

The RP has been informed that a Superfund site with PCB cleanup activity is located 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. Agencies in Unified Command are working with cooperating and assisting agencies and parties to develop a contingency plan to respond if oil does move past Morrow Lake into the PCB cleanup area.

### 2.3 Logistics Section

Logistics evaluated six possible sites for relocating the UCP and established new plans for the move. New security procedures were established for visitor identification. Logistics also established plans to transition procurement ordering from EPA to Enbridge.

### 2.4 Finance Section

The current NPFC issued ceiling (based on EPA requests) is \$6 million. Approximately 75% of the ceiling has been spent through August 05, 2010; with a burn rate of \$506,227 per day. These cost summaries only reflect EPA expenditures for the incident.

|                          | Est Expended | Est Burn Rate |
|--------------------------|--------------|---------------|
| EQM                      | 802,460      | 71,662        |
| LATA                     | 601,530      | 88,290        |
| ER LLC                   | 457,746      | 54,283        |
| ERRS Contractors         | 1,861,736    | 214,235       |
| WESTON START             | 799,827      | 139,190       |
| Federal & Other Agencies | 1,340,929    | 449,580       |
| Sub-Totals               | 3,685,595    | 425,902       |
| Indirect Costs (12.6%)   | 504,314      | 56,647        |
| Est Total Oil Spill      | 4,506,806    | 506,227       |

## 2.5 Safety Officer

Three additional accidents/injuries were reported by Enbridge, all three were minor incidents. Seven workers were exposed to carbon monoxide in location C.1 (near Ceresco Dam), all were treated and released same day.

Safety was notified by Operations that there was an incident at involving a boat being carried over a dam at the end of the day shift. Operations is investigating and will provide a full briefing but there were no serious injuries reported.

Enbridge continued to provide continuous on-site safety officers for Divisions A and B, with a roving safety officer to cover Divisions C/D/E.

## 2.6 Liaison Officer

The Liaison Officer provided information to tribal representatives regarding the public meeting scheduled for Tuesday August 10 in Battle Creek and reported out to UC on establishing a protocol for the treatment of Native American artifacts discovered or damaged during response.

Also, the Liaison Officer conferenced with the Governor's office regarding the availability of volunteer opportunities for interested citizens.

## 2.7 Information Officer

### 2.7.1 Public Information Officer

#### Oil Spill Response Hotline (888-363-8632)—Incoming Calls

##### **TOTAL CALLS: 13**

##### **Calls were sent to:**

|                           |          |
|---------------------------|----------|
| <b>EPA Public Hotline</b> | <b>3</b> |
| <b>EPA Media</b>          | <b>4</b> |
| <b>NTSB</b>               | <b>3</b> |
| <b>Enbridge</b>           | <b>2</b> |
| <b>DNRE</b>               | <b>1</b> |

### **PIO Activities**

The JIC conducted media monitoring, operated the media hotline, and fielded several calls from media outlets with questions regarding removal of part of the pipeline. The JIC continued development of operational SOPs and updating of the JIC Duty Roster. Major media outreach included a radio station interview and arranging an “embed” for a Detroit Free Press reporter with the DNRE Fisheries Division crew. The outcome of this

“embed” activity is expected to be on the front page of the Sunday Detroit Free Press. Media Advisories were issued concerning the transition to daily “Telephone Only” press briefings and details for Tuesday Battle Creek Community Meeting.

Water and sediment data has been made accessible to the public on the EPA public website at [www.epa.gov/enbridgespill/data/datawater.html](http://www.epa.gov/enbridgespill/data/datawater.html) as a Google kml file that allows the public to view the location and data for sampling sites in Google Earth.

## 2.8 Response Actions to Date

Containment boom, sorbent boom, skimming equipment, vacuum trucks and other equipment are being used to support oil collection and removal along Talmadge Creek and the Kalamazoo River. Recovered material is being temporarily stored on-site. Tanker trucks are transporting the material to a facility owned by the RP with available storage in Griffith, Indiana.

EPA and RP contractors, with the support of the US Army 51st Civil Support Team, monitored and sampled air quality along the river and throughout multiple residential areas. A heavy emphasis was placed on specific monitoring for benzene as it is a recognized contaminant of concern for this response.

Water samples were collected for analysis from surface water, river and lake water columns, and private drinking wells along the length of the impacted areas of the Kalamazoo River. Water samples were also taken downstream of the Morrow Lake Dam.

The USCG Atlantic Strike Team is on-scene to provide assistance with RP and contractor oversight. USCG District 9 staff is on site working with the Incident Management Team.

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. Enbridge has been given permission from NTSB to excavate the pipeline break. Due to high water tables and saturated conditions, excavation collapses have hindered progress. EPA will coordinate with USDOT-PHMSA and NTSB to ensure that during pipeline repair activities the environmental and health and safety considerations are accounted for.

The voluntary evacuation issued by CCPH in consultation with MDCH and ATSDR remains in effect for several residences located immediately downstream of the spill site along the Talmadge Creek, up to its confluence with the Kalamazoo River. This voluntary evacuation was based on review of air monitoring results for benzene around oil collection areas. Twelve residences have been evacuated, twenty-seven chose to stay and twenty-two did not answer. The evacuation recommendation remains in effect.

### 3. Participating Entities

#### 3.1 Unified Command

United States Environmental Protection Agency  
Michigan Department of Natural Resources and Environment  
Michigan State Police Emergency Management Division

Calhoun County Public Health Department  
Calhoun County Emergency Management  
Kalamazoo County Sheriff Enbridge (Responsible Party)

#### 3.2 Cooperating and Assisting Agencies

##### Cooperating Agencies

Allegan County Emergency Management  
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 County Treasurers 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 Public Safety  
Kalamazoo Watershed Council  
Marshall Township Government and Fire Department  
Marshall Police Department  
Natural Resource Group  
National Transportation Safety Board  
Pipeline Hazardous Materials Safety Administration  
U.S. Coast Guard  
U.S. Department of Commerce, NOAA  
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

These numbers reflect all EPA numbers and River only for Enbridge.

| Personnel            | Numbers     |
|----------------------|-------------|
| Enbridge             | <b>52</b>   |
| Enbridge Contractors | <b>733</b>  |
| EPA                  | <b>64</b>   |
| ERRS                 | <b>109</b>  |
| USFWS                | <b>13</b>   |
| START                | <b>62</b>   |
| Total                | <b>1033</b> |

#### 5. Definition of Terms

|        |  |
|--------|--|
| ATSDR  | Agency for Toxic Substances and Disease Registry         |
| CCPH   | Calhoun County Public Health                             |
| CHD    | County Health Department                                 |
| CIC    | Community Involvement Coordinator                        |
| CST    | Civil Support Team                                       |
| CTEH   | Center for Toxicology and Environmental Health           |
| CWA    | Clean Water Act  |
| DMU    | Data Management Unit                                     |
| DNRE   | Department of Natural Resources and Environment          |
| DOC    | Department of Commerce                                   |
| EPA    | Environmental Protection Agency                          |
| ERRS   | Emergency and Rapid Response Contractor                  |
| ERT    | Emergency Response Team                                  |
| FOB    | Field Observers  |
| FPN    | Federal Project Number                                   |
| GC/MS  | Gas Chromatograph/Mass Spectroscopy                      |
| GIS    | Geographical Information System                          |
| HASP   | Health and Safety Plan                                   |
| IAP    | Incident Action Plan                                     |
| IN     | Indiana  |
| JIC    | Joint Information Center                                 |
| LEL    | Lower Explosive Limit                                    |
| LNO    | Liaison Officer  |
| MDCH   | Michigan Department of                                   |
| MDNRE  | Michigan Department of Natural Resources and Environment |
| MI     | Michigan   |
| MSPCMD | Michigan State Police Emergency Management Division      |
| NRC    | National Response Center                                 |
| NOAA   | National Oceanic and Atmospheric Administration          |
| NTSB   | National Transportation Safety Board                     |

|       |  |
|-------|--|
| OSC   | On-Scene Coordinator                             |
| OSHA  | Occupational Safety and Health Administration    |
| OSLTP | Oil Spill Liability Trust Fund                   |
| PCB   | Polychlorinated Biphenyls                        |
| PHMSA | Pipeline and Hazardous Materials Administration  |
| PIO   | Public Information Officer                       |
| RP    | Responsible Party                                |
| SOP   | Standard Operating Procedure                     |
| START | Superfund Technical Assessment and Response Team |
| USCG  | United States Coast Guard                        |
| USDOT | United States Department of Transportation       |
| USFWS | United States Fish and Wildlife Service          |
| VOCs  | Volatile Organic Compounds                       |

## 6.2 Reporting Schedule

SITREPs have been created daily and will continue until the Incident Commander establishes a different reporting schedule.