

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Lockport Illinois Buckeye Oil Spill - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #9
Progress
Lockport Illinois Buckeye Oil Spill

Lockport, IL
Latitude: 41.6354890 Longitude: -88.0487240

To:
From: James Mitchell, OSC
Date: 2/8/2011
Reporting Period: 02/03/2011 - 02/09/2011

1. Introduction

1.1 Background

Site Number:		Contract Number:	
D.O. Number:		Action Memo Date:	
Response Authority:		Response Type:	Emergency
Response Lead:		Incident Category:	
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	12/14/2010	Start Date:	12/14/2010
Demob Date:		Completion Date:	
CERCLIS ID:		RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:	E11505	Reimbursable Account #:	

1.1.1 Incident Category

Emergency Response

1.1.2 Site Description

1.1.2.1 Location

The site is located on New Avenue approximately 0.5 miles south of 135th Street in Lockport, Illinois. The site is bordered to the east by New Avenue, to the north and south by open wetland areas, and to the west by railroad tracks serviced by Amtrack, Metra, and freight companies.

1.1.2.2 Description of Threat

An estimated 500 barrels (21,000 gallons) of crude oil were released into a drainage ditch which flows in to a wetland area via a culvert. The spill occurred in an area near critical habitat for federally endangered species, including the Hine's Emerald Dragonfly and Leafy Prairie Clover.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

Information on operations performed prior to this reporting period can be viewed in previous POLREPS.

The French Drain System continues to recover oil along the ditch of the CN Railroad property. A sampling plan is being developed by Westshore/Buckeye to further characterize contamination along the embankment and below the railroad tracks. Characterization will include installation of monitoring wells on the east and west side of the tracks and subsurface investigations with a geoprobe. Characterization activities are scheduled to begin in February. The sampling plan is being developed in conjunction with CN Railroad. Based on characterization results, a final remediation strategy will be developed and proposed to CN Railroad and the USEPA in March.

START personnel have been tasked with documenting product recovery and removal activities at the Site. This includes keeping a log book and photographic documentation of all significant occurrences on the project. START

will also perform oversight on the RP's sampling and air monitoring team. Analytical data provided by the RP will be reviewed, analyzed, and compared to split sampling performed by START.

Incident Action Plans (IAPs) are being prepared daily to define work activities. IAPs will be replaced by the Removal Work Plan after it has been approved by USEPA. The Phase 2 portion of the Work Plan covering excavation of contaminated soil, vegetation, and waste sampling and disposal activities in the Wetland area has been approved by USEPA. All onsite air monitoring in the work zone area is now being performed by Westshore/Buckeye personnel.

2.1.2 Response Actions to Date

A Bi-Daily Incident Action Plan (IAP) is developed to guide onsite work activities. IAPs can be viewed in the document section of this website for staff that have password access. IAPs are also up loaded to the Buckeyes share website for viewing. Contact OSC Jim Mitchell for access to IAPs.

02/03/2011

Work on Site today was severely limited due to aftermath of the blizzard which hit the area on 02/02. The soil cell remains covered with protective sheeting and no operators or sampling crews were utilized today. Westshore/Buckeye will concentrate their work efforts on plowing snow and opening up access routes throughout the Site in anticipation of the upcoming soil disposal event.

It is anticipated that characterization results from the soil cell will be available Monday morning and soil disposal will commence then.

02/04/2011

Work on Site was again limited due to weather conditions and availability of soil cell characterization data. The storm has delayed the analytical data and no soil disposal can be completed until Monday, at the earliest. Westshore/Buckeye continued clearing and maintaining access routes throughout the Site in anticipation of the disposal event next week.

No work will be done on Site throughout the weekend.

02/07/2011

Westshore/Buckeye has received the analytical data from the soil cell characterization samples and have deemed the soil in the cell to be "non-hazardous". Soil disposal work will begin tomorrow morning (02/08) with trucks picking up soil from the cell and shipping it off for disposal at Prairie View Landfill.

Temperatures below freezing are expected tomorrow so no additional excavation or decontamination work will be completed.

02/08/2011

Westshore/Buckeye began soil disposal activities on Site. Trucks transported non-hazardous soil from the soil cell to Prairie View Landfill for disposal. In total, 13 trucks were utilized for soil disposal today and the soil cell has been emptied by approximately 1/2. Soil disposal activities will continue tomorrow until the soil cell is emptied.

US EPA is planning to have the Emergency Response vehicle removed from Site. Work on Site is coming to completion and the ER vehicle is no longer necessary.

Antea Group utilized a sampling team to take surface water samples at thirteen locations throughout the Site today. START personnel conducted oversight and verified proper sampling techniques and parameters.

02/09/2011

Soil disposal activities continued throughout the day as excavators moved non-hazardous soil from the soil cell. Trucks are loaded with soil and shipped out to Prairie View Landfill for disposal. In total, Westshore/Buckeye utilized 12 transport trucks throughout the day. It is anticipated that the soil cell will be emptied tomorrow (02/10) and the soil being staged on Site will be transferred in to the soil cell for mixing and drying.

US EPA requested the removal of the EPA Emergency Response vehicle from the Site. EQM representatives came and removed the vehicle from the Site. Field oversight has been concluded by US EPA and START contractors.

A wrap up and transfer meeting has been scheduled by US EPA for 02/15. All interested parties have been invited to attend.

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

The RPs, West Shore Pipeline/Buckeye Pipeline, have responded to the incident and have contractors working to recover the crude oil.

A Consent Agreement Order for Compliance under section 311(c) of the Clean Water Act was signed by USEPA OSC, Buckeye, and Westshore Pipeline on Dec. 16, 2010.

2.1.4 Progress Metrics



Waste Stream	Medium	Quantity	Manifest #	Treatment	Disposal
Oil/Water		125,500 gal		Yes	
Soil		2,475 yd3			Staged/Shipped

2.2 Planning Section

2.2.1 Anticipated Activities

US EPA will continue to conduct oversight of the cleanup activities and operate as the lead agency until a shift can be made to IEPA as the lead agency.

Product recovery operations will continue in the area west of the railroad tracks upon completion of the excavation. Vacuum trucks, excavators, portable vacuum units, and an oil water separator will be utilized to pull product from areas in the wetlands as necessary.

Entrix biologists will be onsite daily to guide all excavation activities. Only soils saturated with oil will be removed. This strategy will be used for all Phase 2 soil removal activities to minimize impact to the wetland.

Entrix will develop a plan for confirming that all contaminated soil was removed from the site. The plan will be submitted to US EPA for comments and approval.

Monitoring and removal of product from the French Drain system will continue as necessary.

Soil being staged on Site will be transferred in to the soil cell for mixing and drying. Following characterization of the soil, disposal will be coordinated.

Additional characterization activities for the CN railroad property will begin in February of 2011. Additional characterization will include installation of monitoring wells and sampling with the use of a geoprobe.

Air monitoring activities will continue to support overall worker protection.

Delta will continue to conduct surface water sampling every three days and weekly soil sampling.

Decon activities will continue as necessary.

2.2.1.1 Planned Response Activities

2.2.1.2 Next Steps

The remaining soil staged on Site will be transferred in to the cell for mixing and drying.

Excavation of contaminated soils in the wetlands will continue on the north eastern portion of the contaminated area of the wetland.

Entrix biologists are preparing a plan to visually confirm clean areas throughout the wetlands. The plan will be submitted to US EPA for comments and approval.

Product recovery activities will continue in the area west of the railroad tracks utilizing recovery trenches and skimmer units as long as the weather permits. Product recovery will also be maintained on the east side of the tracks.

Decon of containment booms will continue as needed and wastewater collected for disposal.

2.2.2 Issues

02/03/2011

Large quantities of snow from the blizzard on 02/02 have made work on the Site very difficult. A majority of the Site work will be suspended until the snow can be cleared and soil cell characterization data is available.

02/04/2011

Analytical results from the soil cell characterization samples will not be available until Monday (02/07). It is anticipated that soil disposal activities will commence on 02/08.

02/07/2011

Weather reports indicate that temperatures will be well below freezing tomorrow (02/08). Soil disposal activities are still scheduled to begin tomorrow, but proper cold weather precautions will be taken.

02/08/2011

Temperatures below freezing are again in the forecast for tomorrow. Proper precautions will be taken to assure that safe work is completed during the soil disposal activities.

2.3 Logistics Section

Monitoring of the plume's leading edge continues on the western portion of the site. Absorbent boom, containment boom, and hay bails have been installed to prevent the further spreading of product towards the edge of the containment area.

2 excavators will be utilized in the southwest portion of the wetlands. The excavators will work east and then north before concentrating on the center of contamination.

Contaminated soil that is being staged on Site will be transferred to the soil cell for mixture and drying as soon as it has been emptied. The soil will be sampled for characterization in accordance with the approved soil disposal plan.

2.4 Finance Section

No information available at this time.

2.5 Other Command Staff

2.5.1 Safety Officer

START prepared a Site-Specific Health and Safety Plan (HASP) for emergency response activities at the site. On 12/22/2010, START issued a full HASP which supersedes the emergency HASP. The RP and their contractors are working under their own HASP.

OSHA inspected the site on 12/16 -17 with the Buckeye and no health and safety issues were noted.

New Avenue was reopened on 12/18/10. Buckeye hired contractors to meet federal requirements for construction areas.

Extreme cold weather (below 0F) conditions are a major safety factor and are being addressed on a day to day basis.

2.6 Liaison Officer

2.7 Information Officer

2.7.1 Public Information Officer

USEPA contact is Jayna Legg

2.7.2 Community Involvement Coordinator

USEPA contact is Don Deblasio

3. Participating Entities

3.1 Unified Command

Unified Command has been implemented at the site and U.S. EPA is the lead agency. The incident Commander (IC) is U.S. EPA OSC Jim Mitchell. The command post is located at 12920 Bell Road in Lemont, Illinois. Unified Command currently consists of U.S. EPA, IEPA, and Buckeye.

3.2 Cooperating Agencies

RPs – West Shore Pipeline and Buckeye Pipeline

RP Contractors

– CTEH (air monitoring)

– Delta (environmental)

– Future Environmental (cleanup)

– Veolia Environmental (cleanup)

– Midwest Mechanical (pipeline repair)

– Entrix (environmental – wetlands)

U.S. EPA START Contractor – Weston Solutions, Inc.

4. Personnel On Site

U.S. EPA – 2 (day ops)

START – 1 (day ops)

RP and contractors – 30

5. Definition of Terms

DOT = Department of Transportation

HASP = Health and Safety Plan

IC = Incident Commander

IEPA = Illinois Environmental Protection Agency

OSC = On-Scene Coordinator

START = Superfund Technical Assessment and Response Team

USEPA = United States Environmental Protection Agency

USFWS = United States Fish and Wildlife Services

yd³ = cubic yards

6. Additional sources of information

6.1 Internet location of additional information/report

6.2 Reporting Schedule

POLREPS will be provided every Wednesday throughout the duration of the response.

7. Situational Reference Materials

NRC Report #895256

NRC Report #962178

NRC Report #962179