

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION/SITUATION REPORT  
Marathon Pipeline Release - Wood River to Patoka System - Removal Polrep  
Final Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region V

**Subject:** POLREP #9  
Final POLREP  
Marathon Pipeline Release - Wood River to Patoka System  
Z5TU  
Edwardsville, IL  
Latitude: [REDACTED] Longitude: [REDACTED]

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**From:** Adam Vrabec, On-Scene Coordinator  
**Date:** 5/13/2022  
**Reporting Period:** 3/23/2022 to 5/13/2022

1. Introduction

1.1 Background

<b>Site Number:</b>	Z5TU	<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>	EPA	<b>Incident Category:</b>	Removal Assessment
<b>NPL Status:</b>	Non NPL	<b>Operable Unit:</b>	
<b>Mobilization Date:</b>	3/11/2022	<b>Start Date:</b>	3/11/2022
<b>Demob Date:</b>		<b>Completion Date:</b>	5/13/2022
<b>CERCLIS ID:</b>		<b>RCRIS ID:</b>	
<b>ERNS No.:</b>		<b>State Notification:</b>	
<b>FPN#:</b>	E22505	<b>Reimbursable Account #:</b>	

1.1.1 Incident Category

Emergency

1.1.2 Site Description

The Site is located near the intersection of IL Route 143 and Old Alton-Edwardsville Road in Edwardsville, Illinois, Madison County, Illinois, at Cahokia

Creek. The Cahokia Creek flows westward and joins the Mississippi River approximately 9.5 miles downstream of the spill area. Review of the Inland Sensitivity Atlas (ISA) pipeline layers identified four underground petroleum pipelines at the Site.

The Site is located in a rural mixed commercial and residential area. The Site includes the surrounding residential neighborhoods, commercial properties, and agricultural and forested areas. The Site is bordered to the north by intersection of IL Route 143 and Old Alton-Edwardsville Road, with the Cahokia Creek and agricultural properties beyond; to the east and south by Old Alton-Edwardsville Road, with a Norfolk Southern railroad track and residential and commercial properties beyond; and to the west by forested land, with residential properties beyond.

**1.1.2.1 Location**

The geographic coordinates at the approximate center of the release location are latitude [redacted] degrees north and longitude [redacted] degrees west.

**1.1.2.2 Description of Threat**

Approximately 3,900 barrels of Wyoming Asphaltic Sour crude oil was released from a 22-inch pipeline to soil, wetlands, and ultimately discharged to Cahokia Creek which is a tributary to the Mississippi River.

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

Initial assessment of the release was conducted by EPA and IEPA. Oil was observed actively discharging to Cahokia Creek and migrating downstream. Oil was also observed in the soil around the release point as well as observed migrating over land to a wetland/lowland area south of the creek and pooling in those areas. Marathon pipeline had set several booms at downstream locations in attempts to contain the release. The actual amount discharged was not known, however, heavy crude oil was seen across the creek channel at multiple locations downstream.

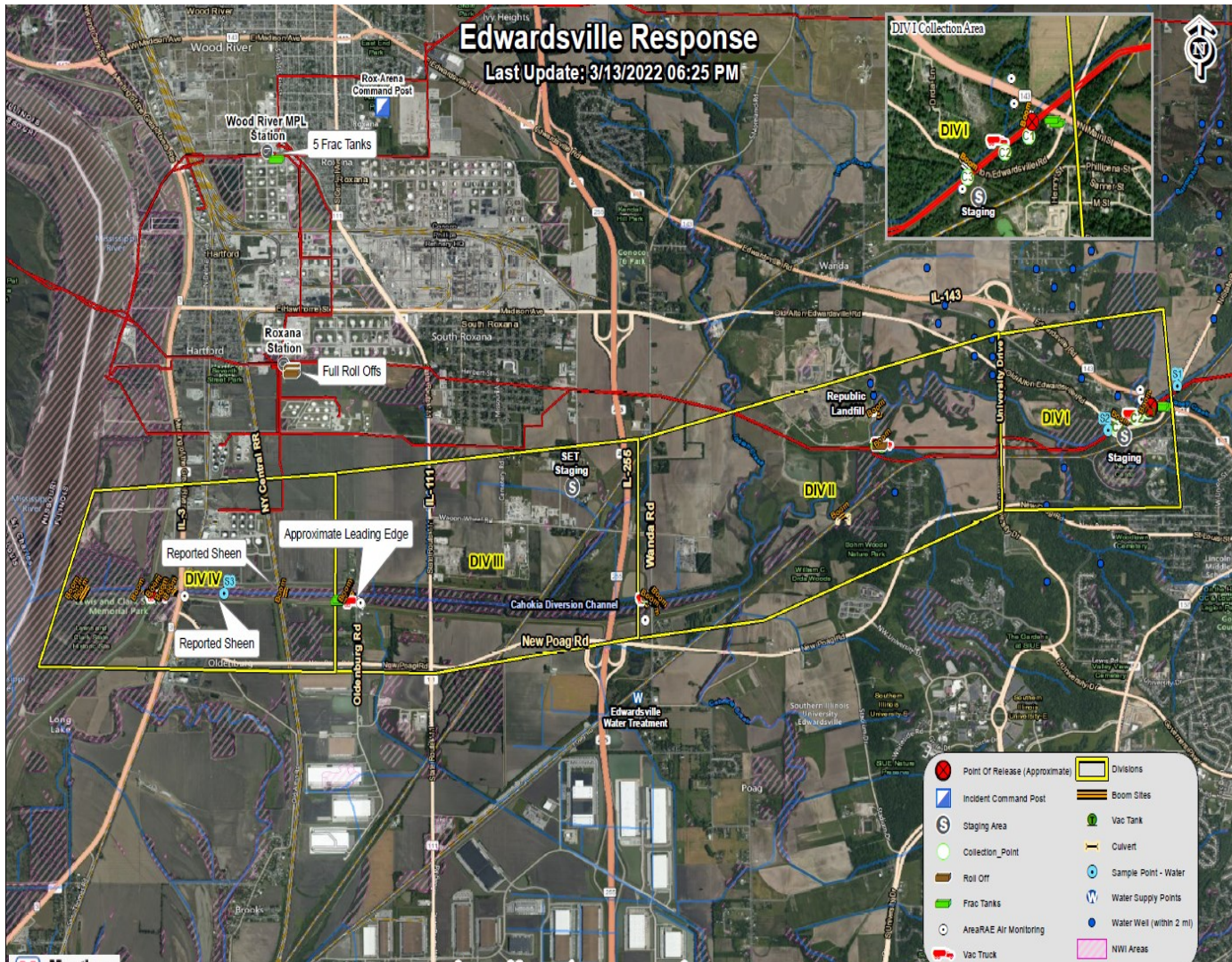
**2. Current Activities**

**2.1 Operations Section**

**2.1.1 Narrative**

Upon notification of the release, Marathon Pipeline deployed internal and several contracted Oil Spill Response Organizations (OSRO) to respond to the release. Oil containment and recovery equipment were on-scene and deployed within an hour to control the source and catch the leading edge of the spill to stop it from traveling further downstream. Command and Operations defined 4 geographic Divisions to help manage activities and resources being deployed to the response. The information below summarizes actions taken under the coordination of the Unified Command.

Below is a overview map of the divisions:





A larger version of the map can be found at: [https://response.epa.gov/sites/15547/files/Edwardsville\\_V03-05.pdf](https://response.epa.gov/sites/15547/files/Edwardsville_V03-05.pdf)

You must be logged in to view.

### 2.1.2 Response Actions to Date

For details about response actions that occurred prior to 3/20/2022, refer to previous POLREP(s)

#### The following include response actions from 3/23/2022 to 5/13/2022:

- EPA continued coordination with the National Transportation Safety Board (NTSB) and Pipeline Hazardous Materials Safety Administration (PHMSA) in their investigation efforts;
- All areas of concern identified by the SCAT and recon teams have been cleaned up;
- All booming locations located in all 4 divisions have been removed, except for one string of boom right next to the spill location;
- The impacted wetland area has been excavated and backfilled;
- Long term monitoring wells and inclinometer wells have been installed in the pipeline corridor near the release location;
- Temporary mud mat roads have been removed and the areas underneath them have been excavated;
- An updated release volume was reported by Marathon to PHMSA of approximately 3500 barrels as of April 22,2022;

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

Marathon Pipeline LLC

### 2.1.4 Progress Metrics

Waste Metrics (as of 5/13/22 )			
Description	Recovered (Since last reporting period)	Stored (Total)	Disposed (Total)
Oil Product (bbl)	2578	2578	
Oily Liquids (bbl) (Oil/Water mix)	439	19,520	
Liquids (bbl)			
Oily Soils (tons)	80 tons	80 tons	
Non-Hazardous Soil (tons)	16,220	18,000 est.	
Debris	300 tons	300 tons	
Absorbents	84 tons	84 tons	

*\*Previously reported recovered oil product moved to Recovered Oily Liquids since it also contains water. Recovered Oil Product will be added once gauged by Marathon personnel.*

Shoreline Impacts (as of 5/13/22)			
Degree of Oiling	Affected	Cleaned	To Be Cleaned
Light			
Medium	9.55	9.55	
Heavy			
<b>Total</b>	9.55	9.55	

Wildlife Impacts (as of 5/13/22)						
Description	Impacted Total	Cleaned	Released	DOA	Euthanized	Died in Facility
Ducks	20	6	6	11	2	1
Hawk	1				1	
Frog	2	1	1	1		
Muskrat	1			1		
Blue Heron	3			3		
Beaver	5		2	1	2	
Turtle	4		3			1
Owl	1	1	1			

Snake	3		3			
Fish	14			14		
<b>Total</b>	54	8	16	31	5	2

Air Monitoring: no longer applicable during this reporting period.

**Air/Water Sampling:**

- No surface water samples have been collected by USEPA after 3/19/2022.

<b>Regional Metrics</b>				
This is an Integrated River Assessment. The numbers should overlap.	Miles of river systems cleaned and/or restored		9.55	
	Cubic yards of contaminated sediments removed and/or capped			
	Gallons of oil/water recovered		19,520 barrels	
	Acres of soil/sediment cleaned up in floodplains and riverbanks		25 acres est.	
Stand Alone Assessment	Number of contaminated residential yards cleaned up			
	Number of workers on site		400 +	
Contaminant(s) of Concern				
<b>Oil Response Tracking</b>				
Estimated volume	Initial amount released		3900 barrels	
	Final amount collected		2458 barrels	
CANAPS Info	FPN Ceiling Amount		\$400,000	
	FPN Number		UCGPE22505	
	Body of Water affected		Cahokia Creek	
<b>Administrative and Logistical Factors (Place X where applicable)</b>				
Precedent-Setting HQ Consultations (e.g., fracking, asbestos)		Community challenges or high involvement		Radiological
More than one PRP		Endangered Species Act / Essential Fish Habitat issues		Explosives
AOC		Historic preservation issues	x	Residential impacts
UAO		NPL site		Relocation
DOJ involved		Remote location		Drinking water impacted
Criminal Investigation Division involved		Extreme weather or abnormal field season		Environmental justice
Tribal consultation or coordination or other issues	x	Congressional involvement	x	High media interest
Statutory Exemption for \$2 Million		Statutory Exemption for 1 Year		Active fire present
Hazmat Entry Conducted – Level A, B or C	x	Incident or Unified		Actual air release

		Command established	(not threatened)
	CID confirms Criminal Charges Have Been Filed		
<b>Green Metrics</b>			
	<b>Metric</b>	<b>Amount</b>	<b>Units</b>
	Diesel Fuel Used		gallons
	Unleaded Fuel Used		gallons
	Alternative/E-85 Fuel Used		gallons
	Electricity from electric company		kWh
	Electric Company Name and Account #		
	Electricity from sources other than the electric company		kWh
	Solid waste reused		enter
	Solid waste recycled		enter
	Water Used		gallons

**2.2 Planning Section**

**2.2.1 Anticipated Activities**

Planned Activities:

- EPA will continue to monitor burn rate;
- IEPA will continue to provide oversight of long term remediation and clean-up with the support of USEPA if needed

**2.2.1.2 Next Steps**

**2.2.2 Issues**

None for this operational period.

**2.3 Logistics Section**

None for this operational period

**2.4 Finance Section**

**2.4.1 Narrative**

See table below:

EPA submitted a ceiling increase of \$100,000 on March 23, 2022 to the USCG National Pollution Funds Center.

**Estimated Costs \***

	Budgeted	Total To Date	Remaining	% Remaining
<b>Extramural Costs</b>				
TAT/START	\$190,000.00	\$170,000.00	\$20,000.00	10.53%
<b>Intramural Costs</b>				

<b>Total Site Costs</b>	\$190,000.00	\$170,000.00	\$20,000.00	10.53%
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\* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

## 2.5 Other Command Staff

### 2.5.1 Safety Officer

NA

### 2.5.2 Liaison Officer

NA

### 2.5.3 Information Officer

NA

## 3. Participating Entities

### 3.1 Unified Command

Unified command stood down on 3/19/2022

### 3.2 Cooperating Agencies

Pipeline Hazardous Materials Safety Administration

National Transportation Safety Board

Illinois Department of Natural Resources

US Fish and Wildlife Services

Illinois Emergency Management Agency

Madison County Emergency Management

United States Coast Guard

## 4. Personnel On Site

EPA -0

START - 0

Marathon Pipeline - as needed

Marathon Contractors - as needed

## 5. Definition of Terms

USEPA - United States Environmental Protection Agency

SCAT - Shoreline Cleanup Assessment Tool

START - Superfund Technical Assessment and Response Team

LEL - Lower Explosive Limit

VOC - Volatile Organic Compounds

ISA - Inland Sensitivity Atlas

DRO - Diesel Range Organics

GRO - Gasoline Range Organics

ORO - Extended Range Organics

SVOC - Semi-Volatile Organic Compounds

## 6. Additional sources of information

### 6.1 Internet location of additional information/report

<https://response.epa.gov/MarathonEdwardsville>

### 6.2 Reporting Schedule

This will be the last POLREP issued for this incident.

## 7. Situational Reference Materials

[Edwardsville Oil Spill Response Dashboard \(arcgis.com\)](#)