

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION/SITUATION REPORT  
Moon-Hines Flowline Spill - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region IV

**Subject:** POLREP #6  
Response Actions Continue  
Moon-Hines Flowline Spill  
Eucutta, MS  
Latitude: 31.7561130 Longitude: -88.8549990

**To:** Jim Webster, USEPA R4 ERRB  
Ernie Shirley, MSDEQ

**From:** Leo Francendese, OSC

**Date:** 1/14/2014  
**Reporting Period:** 1/14/2014

## 1. Introduction

### 1.1 Background

<b>Site Number:</b>	<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 Action
<b>NPL Status:</b>	<b>Operable Unit:</b>
<b>Mobilization Date:</b> 1/8/2014	<b>Start Date:</b> 1/8/2014
<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> E14421	<b>Reimbursable Account #:</b>

#### 1.1.1 Incident Category

Emergency Response

#### 1.1.2 Site Description

The site is a tank battery, flowline and impacted unnamed tributaries and wetland. The operator is Moon-Hines-Tigrett located in Ridgeland, MS. The tank battery consists of 5 above ground storage (AST) tanks and associated pumps and piping.

##### 1.1.2.1 Location

The site is located at Latitude 88 deg 51 min 18 sec North and Longitude 31 deg 45 min 22 sec West in Wayne County, MS. The site is located in a rural area within several adjacent residential properties. It is surrounded on all sides by heavily wooded areas with small creeks, tributaries and wetland located down gradient of the site.

##### 1.1.2.2 Description of Threat

Small creeks, tributaries and wetland are located downgradient of the tank battery and flow generally West and Northwest away from the site. A discharge of oil has occurred to waters of the United States requiring immediate response actions. The oil discharged to an unnamed creek which is a tributary of Wagon Branch, which leads to Tampa Creek then to Little Eucatta Creek then to Eucatta Creek which is a tributary of the Chickasawhay River.

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

Break occurred along a flowline located about 100 feet downgradient of the tank battery. Approximately 50 barrels of oil were discharged into approximately 2000 feet of small tributaries and wetlands. The spill source has been stopped and downgradient migration is currently being contained.

## 2. Current Activities

### 2.1 Operations Section

#### 2.1.2 Response Actions to Date

1/08/2014 thru 1/09/2014

RP representative are on site, initial resources activated and additional resources were added after initial response. RP contractors are on site collecting recoverable oil and conducting cleanup within the affected

wetlands. Approximately 78 response personnel are on scene. Heavy equipment, including vac trucks, dozer and trackhoe have been activated to assist with recovery operations.

The discharge is currently contained downgradient and stopped at its source.

OSC has requested additional DEQ support under a PRFA. This support will cover SCAT needs, as well as identifying resources at risk and operational/enforcement assistance as needed. OSC has also requested USCG GST logistics and operational support.

#### **1/10/2014**

RP representative has increased field personnel to approximately 118 people. Personnel have been broken into teams and each team assigned a designated work area (zone). For Zone reference see Work Zones (Fig. 1) in the documents section of this webpage.

#### **Recovery Operations**

##### **Zone A:**

Tactic - Removal of recoverable oil using snares and absorbent pads  
Personnel - 20 workers  
Equipment used - 2 vacuum truck

Night Operations 1 vacuum truck and crew

##### **Zone B:**

Tactic - Removal of underbrush and debris  
Continued clearing and development of access road to impacted tributary and wetland  
Removal of recoverable oil using snares and absorbent pads,  
Personnel - 38 workers  
Equipment used - 1 vacuum truck

Night Operations 1 vacuum truck and crew

##### **Zone C:**

Tactic - Removal of oil using snares and absorbent pads  
Placed absorbent boom along creek  
Personnel - 23 workers  
Equipment used - NA

##### **Zone D:**

Tactic - Removal of oil using snares and absorbent pads  
Preparation for rain event  
Personnel - 12 workers  
Equipment used - NA

##### **Zone E:**

Tactic - Recon of area northwest (downgradient) of the current containment  
Removal of oil using snares and absorbent pads  
Personnel - 15 workers  
Equipment used - NA

#### **Waste Management**

A frac tank has been added by the RP representative for collection of all recovered material.

All material removed from the impacted wetlands area are being staged in a central location for future disposal.

A waste management plan is being developed.

#### **Health and Safety**

Air monitoring to assure worker safety was conducted in all work areas with no elevated readings observed for CO, VOC's, H2S, LEL and Oxygen. Air monitoring will continue twice daily while operations are ongoing.

No reported accidents on site to date.

#### **1/11/2014**

During the early morning hours a 1" inch rain event occurred on site over a period of several hours. Early morning recon validated that containment held. Water levels rose significantly as a result of this rain event. Minimum of 1' and maximum of 3' rises were seen on site.

Field personnel onsite is approximately 107 people. Personnel have been broken into teams and each team assigned a designated work area (zone). For Zone reference see Work Zones (Fig. 1) in the documents section of this webpage.

RP added support in the form of 2 engineering consultants. These consultants are to liaison with the client's insurance company in addition to providing technical advice to the client.

RP continues to address and resolve any outstanding access issues.

## **Recovery Operations**

### Zone A:

Tactic - Removal of recoverable oil using snares and absorbent has been tentatively completed for this area.

RP contractor began exploratory trench holes to define the extent of subsurface oil contamination surrounding the break in the flowline. Significant oil is leaching from this area.

Personnel - NA

Equipment used - Backhoe

Estimated % Complete - 75% complete for the removal of recoverable oil in Zone A.

Estimate does not include flowline blowout area excavation.

Night Operations 1 vacuum truck and crew

### Zone B:

Tactic - Developed trails to access oil

Removed oily leaves and vegetation

Removal of recoverable oil using snares and absorbent pads,

Personnel - Three teams with 49 workers

Equipment used - 2 vacuum trucks

Estimated % Complete - 10

Night Operations 1 vacuum truck and crew

### Zone C:

Tactic - Removal of oil using snares, absorbent pads and absorbent boom

Personnel - 11 workers

Equipment used - NA

Estimated % Complete - 15

Night Operations 1 vacuum truck and crew

### Zone D:

Tactic - Removal of oil using snares and absorbent pads

Personnel - 8 workers

Equipment used - NA

Estimated % Complete - 15

### Zone E:

Tactic - Reinforced boom at current containment with snares

Removal of oil using snares and absorbent pads

Completed the installation of oleophilic fabric fencing in front of the existing beaver dam.

Personnel - 33 workers

Equipment used - NA

Estimated % Complete - 25

## **Waste Management**

Frac tank contents were disposed of at the Clarke Well, approved by MS Oil and Gas Board and supported by DEQ. Approximately 240 bbls of oily liquid was disposed of into the Clarke Well on January 11th. The total to date is approximately 910 bbls.

All material removed from the impacted wetlands area are being staged in a central location for future disposal.

A waste management plan is being developed.

## **Health and Safety**

Air monitoring to assure worker safety was conducted in all work areas with no elevated readings observed for CO, VOC's, H2S, LEL and Oxygen. Air monitoring will continue twice daily while operations are ongoing.

No reported accidents on site to date.

## **1/12/2014**

RP has secured 2 amphibious vehicles and one land clearing piece of equipment to assist with access to impacted areas, to help move people in and out of the impacted area and to remove bagged pads and snares containing recovered oil.

RP engineering consultants are developing a contingency plan for future rain events covering the entire impacted area. These consultants also collected GPS points establishing zone boundaries and defining the extent of the impacted area. Approximately 7.8 acres of area was impacted by the spill.

In anticipation of the upcoming rain event, an RP task force installed a series of strategically located oleophilic fabric fences in order to prevent downstream migration of recoverable oil. These fences are located throughout the zones and in locations that will facilitate the collection of recoverable oil after the rain event. In addition, the RP constructed an underflow dam and collection area immediately downstream of the breakpoint in the flowline. Significant recoverable oil is present in the saturated soil surrounding the

flowline. The RP is preparing an excavation plan for this area. Please see Fig. 2 in the document section for the locations of these measures.

RP continues to address and resolve any outstanding access issues.

Field personnel onsite is approximately 118 people. Personnel have been broken into teams and each team assigned a designated work area (zone). For Zone reference see Work Zones (Fig. 1) in the documents section of this webpage.

### **Recovery Operations**

#### Zone A:

Tactic - RP constructed an underflow dam between the blowout area and the impacted downstream area in order to prevent additional oil from migrating.  
RP contracted engineers began delineation of the extent of subsurface oil contamination surrounding the break in the flowline. Significant oil is leaching from this area.

Personnel - 4-5

Equipment used - Trackhoe

Estimated % Complete - 75% complete for the removal of recoverable oil in Zone A, not including what was

found around the pipe break.

Night Operations 1 vacuum truck and crew

#### Zone B:

Tactic - Developed trails to access oil  
Removed oily leaves and vegetation  
Removal of recoverable oil using snares and absorbent pads

Personnel - Three teams with 30 workers

Equipment used - 1 vacuum trucks

Estimated % Complete - 30

Night Operations 1 vacuum truck and crew

#### Zone C:

Tactic - Removal of oil using snares and absorbent pads

Personnel - 36 workers

Equipment used - 1 Vacuum truck

Estimated % Complete - 30

Night Operations 1 vacuum truck and crew

#### Zone D:

Tactic - Removal of oil using snares and absorbent pads

Personnel - 10 workers

Equipment used - 1 vacuum truck

Estimated % Complete - 70

#### Zone E:

Tactic - RP reinforced existing boom and snare at the beaver dam  
Completed the installation of oleophilic fabric fencing in front of the existing beaver dam.  
Removal of oil using snares and absorbent pads

Personnel - 33 workers

Equipment used - NA

Estimated % Complete - 90

**NOTE ... Percent completes will rise and fall as the rain events occur with an overall uptrend as recoverable oil is removed. This effect is a byproduct of the natural flushing that occurs during rain events.**

### **Waste Management**

The total amount of disposed oily water mix at the Clarke Well to date is approximately 910 bbls. No disposal occurred on January 12th.

All material removed from the impacted area is being staged in a central location for future disposal.

A waste management plan is being developed.

### **Health and Safety**

Air monitoring to assure worker safety was conducted in all work areas with no elevated readings observed for CO, VOC's, H2S, LEL and Oxygen. Air monitoring will continue twice daily while operations are ongoing.

No reported accidents on site to date.

**1/13/2014**

Throughout the course of the day a 1/2" inch rain event occurred on site. Observations throughout the day indicated that installed oleophilic fabric fencing was effective in capturing and removing oil in slow flowing

water or slow rising water areas. Water levels remained manageable due the long duration of the light rain event. Please see Fig. 2 in the document section of this website for the locations of these measures.

An amphibious vehicle with a land clearing attachment finished developing access to the impacted areas.

RP engineering consultants are developing a contingency plan for future rain events covering the entire impacted area. Approximately 7.8 acres of area was impacted by the spill.

The RP is preparing an excavation plan for the area around the blowout in the flowline. Significant recoverable oil is present in the saturated soil surrounding the flowline.

RP land management personnel were on site. RP continues to address and resolve any outstanding access issues.

Field personnel onsite is approximately 121 people. Personnel have been broken into teams and each team assigned a designated work area (zone). For Zone reference see Work Zones (Fig. 1) in the documents section of this webpage.

### **Recovery Operations**

#### Zone A:

Tactic - The team in this zone also worked in zones B and C.

Removed bags loaded with oily pads and snares.

Developed trails to remove bags loaded with oily pads and snares.

Personnel - 27

Equipment used - 1 vacuum truck

Estimated % Complete - 60% complete for the removal of recoverable oil in Zone A. This does not include

the expected excavation around the pipe break.

Night Operations 1 vacuum truck and crew

#### Zone B:

Tactic - Replaced snare and boom

Removal of recoverable oil using snares and absorbent pads.

Removed bags loaded with oily pads and snares.

Personnel - 32 workers

Equipment used - 1 vacuum truck

Estimated % Complete - 35

Night Operations 1 vacuum truck and crew

#### Zone C:

Tactic - Removal of oil using snares and absorbent pads.

Removed bags loaded with oily pads and snares.

Personnel - 36 workers

Equipment used - NA

Estimated % Complete - 50

Night Operations 1 vacuum truck and crew

#### Zone D:

Tactic - Began developing access to impacted areas using a small marsh buggy with a clearing and grubbing

attachment. (4 of the 35 workers were dedicated to this activity)

Removal of oil using snares and absorbent pads

Personnel - 35 workers

Equipment used - NA

Estimated % Complete - 85

#### Zone E:

Tactic - RP reinforced existing boom and snare at the beaver dam

Removal of oil using snares and absorbent pads

Personnel - 31 workers

Equipment used - NA

Estimated % Complete - 95

**NOTE ... Percent completes will rise and fall as the rain events occur with an overall uptrend as recoverable oil is removed. This effect is a byproduct of the natural flushing that occurs during rain events.**

### **Waste Management**

The total amount of disposed oily water mix at the Clarke Well to date is approximately 1250 bbls. Approximately 340 bbls of oily water mix was disposed of today into the Clarke Well.

All material removed from the impacted area is being staged in a central location for future disposal. Two roll off boxes filled with oily pads, snares, boom and PPE were taken to the Waste Management Pine Ridge Landfill located in Meridian, MS. To date a total of 16.26 tons of solid waste has been sent to the landfill.

A waste management plan along with a waste disposal profile was submitted to EPA.

## **Health and Safety**

No air monitoring was conducted today due to rain.

No reported accidents on site to date.

### **1/14/2014**

Operations focused on removal of bagged pads and snares with recovered oil from the impacted area as well as maintenance of collection curtains. One amphibious vehicle (marsh buggy) towing an aluminum flatbottom boat was used to assist with the removal of bags and resource transportation. The removal of bags was conducted in zones B, C, D, and E.

Additional oleophilic fabric fencing was installed in strategic locations in order to prevent downstream migration of recoverable oil. Please see Fig. 2 in the document section of this website for the locations of these measures.

The second marsh buggy with a land clearing attachment finished developing access to the impacted areas.

RP began clearing and grubbing operations around the blowout area in preparation for removal of impacted soil.

RP engineering consultant's contingency plan for future rain events is being combined with an operations and maintenance plan. The plan will cover the next phase of operations after bulk removal of recoverable oil is accomplished. Approximately 7.8 acres of area was impacted by the spill.

The RP is preparing an excavation plan for the area around the blowout in the flowline. Significant recoverable oil is present in the saturated soil surrounding the flowline.

RP currently has a land management team onsite to handle access issues. RP continues to address and resolve any outstanding access issues.

Field personnel onsite is approximately 118 people. Personnel have been broken into teams and each team assigned a designated work area (zone). For Zone reference see Work Zones (Fig. 1) in the documents section of this webpage.

## **Recovery Operations**

### **Zone A:**

Tactic - A team of 14 personnel in this zone also worked in zones B, C, D and E replacing and repairing oleophilic fabric fencing, boom and snares.  
Removed bags loaded with oily pads and snares.  
Began clearing and grubbing in preparation for removal of impacted soil near blowout area  
Personnel - 17 workers  
Equipment used - 1 vacuum truck and 1 trackhoe  
Estimated % Complete - 60% complete for the removal of recoverable oil in Zone A.  
This estimate does not include the excavation at the flowline blowout.

### **Zone B:**

Tactic - Source areas of oil near zone A were addressed.  
Removal of recoverable oil using snares and absorbent pads.  
Removed bags loaded with oily pads and snares.  
Personnel - 33 workers  
Equipment used - 1 vacuum truck  
Estimated % Complete - 35

### **Zone C:**

Tactic - Removal of oil using snares and absorbent pads.  
Removed bags loaded with oily pads and snares.  
Personnel - 34 workers  
Equipment used - 1 vacuum truck and 2 leaf blowers  
Estimated % Complete - 50

### **Zone D:**

Tactic - Completed developing access to impacted areas using a marsh buggy with a clearing and grubbing attachment. (4 of the 17 workers were dedicated to this activity)  
Removal of oil using snares and absorbent pads  
Removed bags loaded with oily pads and snares.  
Personnel - 17 workers  
Equipment used - NA  
Estimated % Complete - 85

### **Zone E:**

Tactic - Removal of oil using snares and absorbent pads.  
Removed bags loaded with oily pads and snares in zones B, C, D and E  
Personnel - 17 workers  
Equipment used - 1 marsh buggy for bag removal  
Estimated % Complete - 95

**NOTE ... Percent completes will rise and fall as the rain events occur with an overall uptrend as recoverable oil is removed. This effect is a byproduct of the natural flushing that occurs during rain events.**

**Waste Management**

The total amount of disposed oily water mix at the Clarke Well to date is approximately 1510 bbls. Approximately 260 bbls of oily water mix was disposed of today into the Clarke Well.

All material removed from the impacted area is being staged in a central location for future disposal. Two roll off boxes filled with oily pads, snares, boom and PPE were taken to the Waste Management Pine Ridge Landfill located in Meridian, MS. To date a total of 4 rolloff boxes and 31.75 tons of solid waste has been sent to the landfill.

A waste management plan along with a waste disposal profile was submitted to EPA.

**Health and Safety**

Air monitoring to assure worker safety was conducted in all work areas with no elevated readings observed for CO, VOC's, H2S, LEL and Oxygen. Air monitoring will continue twice daily while operations are ongoing.

No reported accidents on site to date.

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

A written Notice of Federal Interest was issued and signed by the RP representative. RP is Moon-Hines-Tigrett of Ridgeland, MS. Unified Command is in effect comprising EPA OSC, DEQ SOSC and RP rep. MS Oil and Gas representative is on scene.

**2.2 Planning Section**

**2.3 Logistics Section**

**2.4 Finance Section**

**Estimated Costs \***

	Budgeted	Total To Date	Remaining	% Remaining
<b>Extramural Costs</b>				
PRFA - MSDEQ	\$22,000.00	\$5,500.00	\$16,500.00	75.00%
TAT/START	\$20,000.00	\$6,500.00	\$13,500.00	67.50%
USCG - GST	\$5,000.00	\$1,600.00	\$3,400.00	68.00%
<b>Intramural Costs</b>				
USEPA - Direct	\$10,000.00	\$6,000.00	\$4,000.00	40.00%
USEPA - InDirect	\$9,766.00	\$9,766.00	\$0.00	0.00%
<b>Total Site Costs</b>	<b>\$66,766.00</b>	<b>\$29,366.00</b>	<b>\$37,400.00</b>	<b>56.02%</b>

\* 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**

.....

**3. Participating Entities**

- EPA
- USCG - GST
- MSDEQ
- MS Oil and Gas
- RP Contractors

**4. Personnel On Site**

.

**5. Definition of Terms**

.

**6. Additional sources of information**

.

**7. Situational Reference Materials**

.

POLREP #6 Last Updated 1/15/2014