

Moon Hines Flowline Spill

Wayne County, Mississippi

Operations and Maintenance Report
February 11, 2014

Unified Command

Leo Francendese (EPA)

Ernie Shirley (MDEQ)

Greg Mueller (Moon-Hines-Tigrett)

Prepared by: FC&E Engineering, LLC



1.0 Overview

All Zones except for Zone B were in O&M phase prior to February 1, 2014. Zone B enter O&M phase following targeted Phase 2 cleanup activities on February 1, 2014. A rain event of approximately 0.5 inches was observed on February 2, 2014. A post rain event and O&M oversight inspection was performed by Cody Fisher and Wayne Posey with MDEQ Office of Pollution Control. All Zones were walked by the MDEQ inspection team along with including Sonny Hughes (Complete Environmental) and Jeremy Smith (FC&E Engineering). That report can be found at epaossc.org under the Moon-Hines Flowline Spill website. Another rain event of approximately 0.75 inches occurred on February 4, 2014, and the contractor returned to the site for O&M activities on February 5, 2014. A mixed precipitation event of approximately 0.2 inches was observed on February 6, 2014. This report summarizes activities conducted from February 5 – 7.

2.0 Zone Conditions and Recovery Operations

- The excavation area and underflow dam showed no signs of oil upon inspection.
- Zone A exhibited to very small areas with very low amounts of oil leaching from the ground.
- Zone B had a few areas with medium amounts of oil leaching from the ground and root systems. These areas were targeted with 1" inch water pumps and flushed. Oil was collected downstream using oil absorbent pads, snares, and sock booms. Oil Gator was applied and tilled into the soil following the targeted activities. Stations B1 and B2 showed low to medium levels of recoverable oil during the targeted flushing.
- Zone C had a few areas with low amounts of oil leaching from the ground and root systems. No targeted flushing occurred in Zone C. Stations C1, C2, C3, C4 and C5 showed low amounts of recoverable oil. Stations C6 and C7 showed very low signs of recoverable oil. Most of the oil present was degraded beyond the point of recovery with pads and snares.
- Zone D had no signs of oil leaching. Stations D1 and D2 showed no signs of recoverable oil. Most of the oil present was degraded beyond the point of recovery with pads and snares.
- Zone E had no signs of oil leaching. Stations E1, E2, E3 and E4 showed no signs of recoverable. The minimal amount of oil present was degraded beyond the point of recovery with pads and snares.
- The oleophilic fence in all Zones primarily showed a buildup of sediment stains. It is believed that the oleophilic fence will absorb less oil in the O&M Phase because of the decaying state of the oil. Oleophilic fence will continue to be monitored for effectiveness.

3.0 Photos

Underflow Dam – 2/7/14



Overview of underflow dam and excavation area.

Zone A – 2/3/14



Overview of area in Zone A

Zone B – 2/6/14



Targeted stinging and cleanup in Zone B



Targeted stinging and cleanup in Zone B

Zone B – 2/7/14



Targeted stinging and cleanup in Zone B



Targeted stinging and cleanup in Zone B

Zone B – 2/7/14



O&M Station B1 – with new sock boom and snare.



O&M Station B2 – with new sock boom and snare.

Zone C – 2/7/14



O&M Station C3 – Before replacement of sock boom.



O&M Station C3 – After replacement of sock boom.

Zone C – 2/6/14



O&M Station C6 – Before replacement of sock book.



O&M Station C6 – After replacement of sock book.

Zone C – 2/6/14



O&M Station C7 – Before replacement of sock book and snares.



O&M Station C7 – After replacement of sock book and snares.

Zone D – 2/6/14



O&M Station D1 – Before replacement of sock boom.



O&M Station D1 – After replacement of sock boom.

Zone D – 2/6/14



O&M Station D2 – Three sock booms and one snare line before replacement.



O&M Station D2 – One sock boom and one snare line after replacement.

Zone E – 2/6-7/14



O&M Station E1 – Before placement of snare and sock boom.



O&M Station E1 – After placement of snare and sock boom.

Zone E – 2/6-7/14



O&M Station E2 – Before placement of sock boom.



O&M Station E2 – After placement of sock boom.

Zone E – 2/7/14



Additional replacement of sock boom and snare in Zone E.



Additional replacement of sock boom and snare in Zone E.