

# **Sheen Monitoring Report #26**

Period: 04/14/2014 through 04/20/2014

**Monitoring Days:** 04/16/2014\*

\*Weekly sheen monitoring started on 03/11/2014.

<u>Summary of Rainfall:</u> A qualifying storm is defined as at least 0.25-inch rainfall in 3 hours and at least 72 hours since the previous qualifying storm.

Date	Maximum 3-hr Precipitation	Qualifying Storm
4/14/2014	0.96 inches	Yes**
4/15/2014	0.00 inches	No
4/16/2014	0.00 inches	No
4/17/2014	0.00 inches	No
4/18/2014	0.00 inches	No
4/19/2014	0.00 inches	No
4/20/2014	0.00 inches	No

<sup>\*\*</sup>Weekly monitoring and post-rainfall monitoring and removal event completed on 04/16/2014.

<u>Mitigation:</u> Suspected petrogenic sheens were removed using absorbent materials.

## Observations in Cove Inlet Channel:

- One cover (no particular structure) of silver gray sheen observed. Sheen broke apart when disturbed ("brittle")<sup>1</sup>.
- One streamer of silver gray sheen observed. Sheen did not break when disturbed ("non-brittle")<sup>2</sup>.

## Observations in Cove:

 Three streamers of non-brittle<sup>2</sup> silver gray sheen (two with 0.1to 0.25-inch wide oil spots) observed.

## Path Forward for 04/21/2014 to 04/27/2014:

• Conduct sheen monitoring in Cove.

#### Notes:

- 1. Brittle sheens are often of natural biogenic origin.
- Non-brittle sheens are often related to anthropogenic sources, including petrogenic sources (e.g., petroleum hydrocarbons).
- 3. Laboratory testing is required to distinguish sheen sources (e.g., crude oil, roadway runoff, natural biologic activity).
- Sheen color (dark/metallic/rainbow/silver gray) and structure (patches/streamers/cover) terminology reference: NOAA 2007. NOAA Open Water Oil Identification Job Aid.

# Mayflower Pipeline Incident Response

# **Mayflower, Arkansas**

#### Leaend:

Green Line - No Sheen

Aqua Circle - Brittle Sheen Location

Orange Circle - Non-Brittle Sheen with Oil Spot Location

Pink Circle – Non-Brittle Sheen Location
OW-1 – Shoreline Observation Location



Cove (Summary of Observations from 04/14/2014 through 04/20/2014)



Silver Gray Sheen Streamers with Oil Spots (0.1- to 0.25-inch Wide) Observation on 04/16/2014