

Mayflower Pipeline Incident Response

Sheen Monitoring Report #37

Mayflower, Arkansas

Period: 06/30/2014 through 07/06/2014

Monitoring Days: 07/02/2014*

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

Summary of Rainfall: 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
06/30/2014	0.00 inches	No
07/01/2014	0.00 inches	No
07/02/2014	0.00 inches	No**
07/03/2014	0.00 inches	No
07/04/2014	0.00 inches	No
07/05/2014	0.00 inches	No
07/06/2014	0.00 inches	No

**Weekly monitoring and removal event was conducted on 07/02/2014.

Mitigation: Suspected petrogenic sheens were removed using absorbent materials.

Observations in Cove Inlet Channel:

- One streamer/cover (no particular structure) of rainbow/silver gray sheen observed. Sheen did not break when disturbed ("non-brittle")¹.

Observations in Cove:

- Two patches/streamers and one streamer (with 0.25-inch wide oil spots) of non-brittle¹ rainbow/silver gray sheen; and one streamer and one patch/streamer of non-brittle¹ silver gray sheen observed.
- Two patches/covers (no particular structure) of silver gray sheen observed. Sheens broke apart when disturbed ("brittle")².
- One patch/streamer/cover (no particular structure) of non-brittle¹ and brittle² rainbow/silver gray sheen observed (shown as non-brittle on figure).

Path Forward for 07/07/2014 through 07/13/2014:

- Conduct sheen monitoring in Cove.

Notes:

- Non-brittle sheens are often related to anthropogenic sources, including petrogenic sources (e.g., petroleum hydrocarbons).
- Brittle sheens are often of natural biogenic origin.
- 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.

Legend:

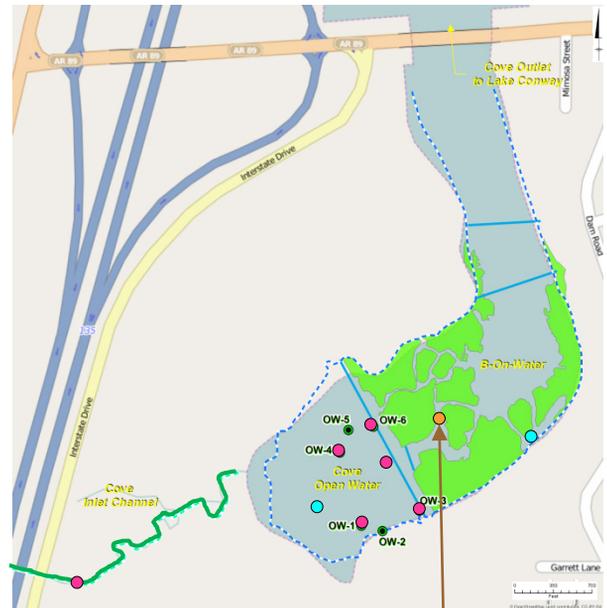
Green Line – No Sheen

Aqua Circle – Brittle Sheen Location

Pink Circle – Non-Brittle Sheen Location

Orange Circle – Non-Brittle Sheen with Oil Spot Location

OW-1 – Shoreline Observation Location



Cove (Summary of Observations from 06/30/2014 through 07/06/2014)



Rainbow/Silver Gray Sheen Streamer with Oil Spots (0.25-inch wide) Observation on 07/02/2014