

Mayflower Pipeline Incident Response

Sheen Monitoring Report #25

Mayflower, Arkansas

Period: 04/07/2014 through 04/13/2014

Monitoring Days: 04/08/2014*

*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
04/07/2014	0.27 inches	Yes**
04/08/2014	0.17 inches	No
04/09/2014	0.00 inches	No
04/10/2014	0.00 inches	No
04/11/2014	0.00 inches	No
04/12/2014	0.00 inches	No
04/13/2014	1.29 inches	Yes***

**Weekly monitoring and post-rainfall monitoring and removal event completed on 04/08/2014.

***Post-rainfall monitoring and removal event will be covered in the next sheen monitoring report.

Mitigation: Suspected petrogenic sheens were removed using absorbent materials.

Observations in Cove Inlet Channel:

- Three covers (no particular structure) of silver gray sheens observed. Sheens broke apart when disturbed ("brittle")¹.
- One patch/streamer of silver gray sheens observed. Sheens did not break when disturbed ("non-brittle")².

Observations in Cove:

- One patch and one cover (no particular structure) of brittle¹ silver gray sheens observed.
- Three streamers of non-brittle² silver gray sheen observed.

Path Forward for 04/14/2014 to 04/20/2014:

- Conduct sheen monitoring in Cove.

Notes:

1. Brittle sheens are often of natural biogenic origin.
2. 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).
4. Sheen color (dark/metallic/rainbow/silver gray) and structure (patches/streamers/cover) terminology reference: NOAA 2007. NOAA Open Water Oil Identification Job Aid.

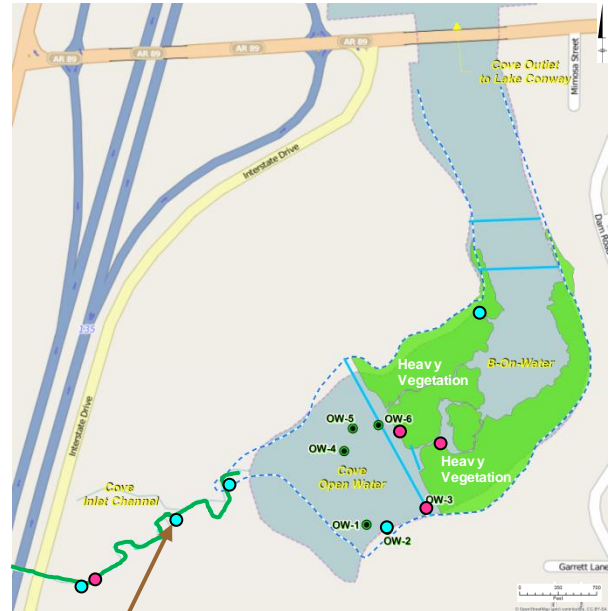
Legend:

Green Line – No Sheen

Aqua Circle – Brittle Sheen Location

Pink Circle – Non-Brittle Sheen Location

OW-1 – Shoreline Observation Location



Cove (Summary of Observations from 04/07/2014 through 04/13/2014)



Silver Gray Sheen Cover Observation on 04/08/2014