

Sheen Monitoring Report #24

Period: 03/31/2014 through 04/06/2014

Monitoring Days: 04/05/2014*

*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
03/31/2014	0.01 inches	No
04/01/2014	0.00 inches	No
04/02/2014	0.02 inches	No
04/03/2014	0.03 inches	No
04/04/2014	0.03 inches	No
04/05/2014	0.00 inches	No
04/06/2014	0.25 inches	Yes**

**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:

- Two patches, two covers (no particular structure) of silver gray sheens and two covers of rainbow/silver gray sheens observed. Sheens broke apart when disturbed ("brittle")¹.
- Three streamers of silver gray sheens observed. Sheens did not break when disturbed ("non-brittle")².

Observations in Cove:

- One streamer (with 0.1- to 0.5-inch wide oil spots) and two patches/streamers (one with 0.25-inch wide oil spots) of non-brittle² rainbow/silver gray sheen observed.
- Two covers (no particular structure) of brittle¹ silver gray sheen observed

Path Forward for 04/07/2014 to 04/13/2014:

- Conduct sheen monitoring in cove.

Notes:

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

Legend:

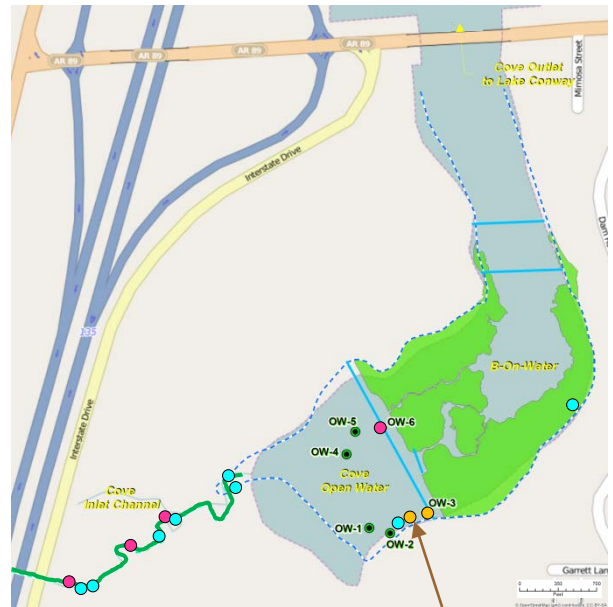
Green Line – No Sheen

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 03/31/2014 through 04/06/2014)



Rainbow/Silver Gray Sheen Patch/Streamer with Oil Spots (0.25-inch wide) Observation on 04/05/2014