

Sheen Monitoring Report #33

Period: 06/02/2014 through 06/08/2014

Monitoring Days: 06/02/2014*

*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
06/02/2014	0.23 inches	No**
06/03/2014	0.00 inches	No
06/04/2014	0.00 inches	No
06/05/2014	0.00 inches	No
06/06/2014	0.16 inches	No
06/07/2014	0.61 inches	Yes***
06/08/2014	1.20 inches	Yes***

**The post-rainfall monitoring and removal event for the qualifying storm on 06/01/2014 was conducted on 06/02/2014 along with the weekly monitoring.

***The post-rainfall monitoring and removal event for the qualifying storm will be addressed in next sheen monitoring report.

Mitigation: Suspected petrogenic sheens were removed using absorbent materials.

Observations in Cove Inlet Channel:

- One cover (no particular structure) and one cover/patch of silver gray sheen, and one cover of rainbow/silver gray observed. Sheens broke apart when disturbed ("brittle")¹.
- One streamer of rainbow/silver gray sheen observed. Sheen did not break when disturbed ("non-brittle")².

Observations in Cove:

- One patch of brittle¹ silver gray sheen observed.
- Three patches/streamers and two streamers of non-brittle² silver gray sheen observed.
- One patch/streamer/cover (no particular structure) of brittle¹ and non-brittle² rainbow/silver gray sheen observed (shown as non-brittle on the figure).

Path Forward for 06/09/2014 to 06/15/2014 :

- 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.

Mayflower Pipeline Incident Response

Mayflower, Arkansas

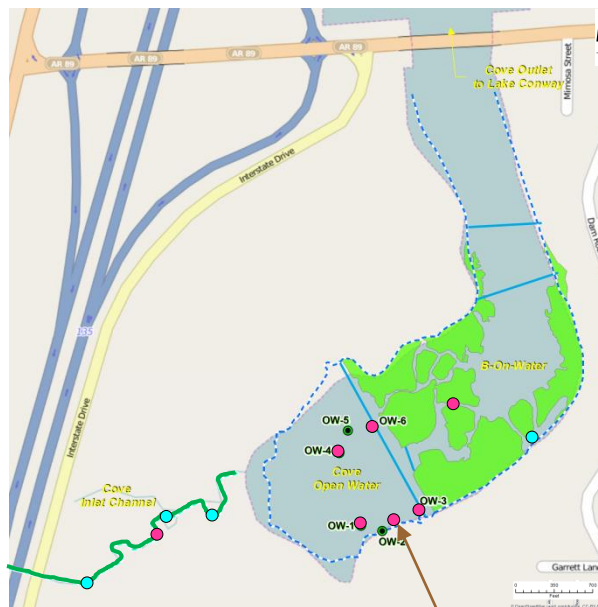
Legend:

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 06/02/2014 through 06/08/2014)



Rainbow/Silver Gray Sheen Patch/Streamer/Cover Observation on 06/02/2014