

Sheen Monitoring Report #8

Mayflower Pipeline Incident Response

Mayflower, Arkansas

Monitoring Period: Daily from 12/09/2013 through 12/15/2013

Mitigation: Suspected petrogenic sheens were removed using absorbent materials.

Legend:

Green Line – No Sheen

Aqua Circle – “Brittle” Sheen Location

Pink Circle – “Non-Brittle” Sheen Location

Observations in Drainage Ways:

- A-Main
 - One patch of rainbow sheens and two patches of metallic sheens observed. Sheens broke apart when disturbed (“brittle”)¹.
- A365W
 - One patch and one patch/streamer of brittle¹ metallic sheens observed.
- A365E
 - No sheens observed.



Drainage Ways (Summary of Observations from 12/09/2013 through 12/15/2013)

Observations in Dawson Cove Inlet Channel:

- One streamer and one patch of brittle¹ metallic sheens observed.



Metallic Sheen Patch Observation on 12/13/2013



Dawson Cove Inlet Channel (Summary of Observations from 12/09/2013 through 12/15/2013)

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 biogenic 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.

Sheen Monitoring Report #7 (continued)

Mayflower, Arkansas

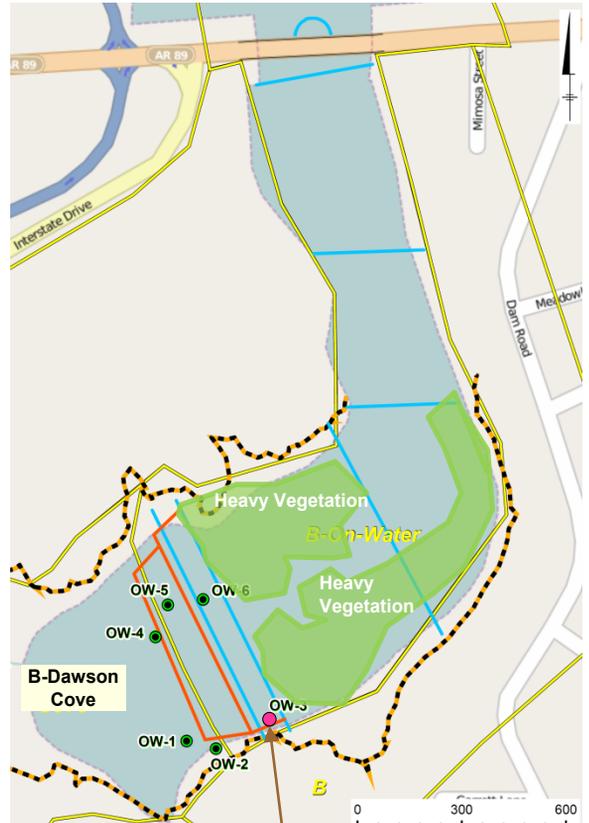
Monitoring Period: Daily from 12/09/2013 through 12/15/2013

Observations in Dawson Cove:

- One patch/streamer of metallic/rainbow sheens with 0.5-inch wide oil spots observed. Sheens did not break when disturbed ("non-brittle")².

Legend:

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



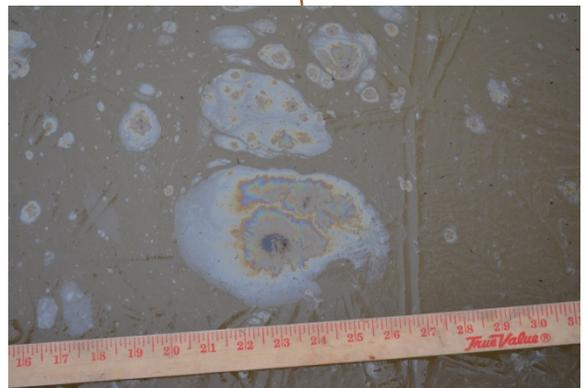
Dawson Cove (Summary of Observations from 12/09/2013 through 12/15/2013)

Path Forward for 12/16/2013 to 12/22/2013:

- Continue sheen monitoring in all areas.

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.



Metallic/Rainbow Sheen Patch/Streamer with Small Oil Spots (0.5-inch Wide) Observation on 12/13/2013