

Sheen Monitoring Report #20

Mayflower Pipeline Incident Response

Mayflower, Arkansas

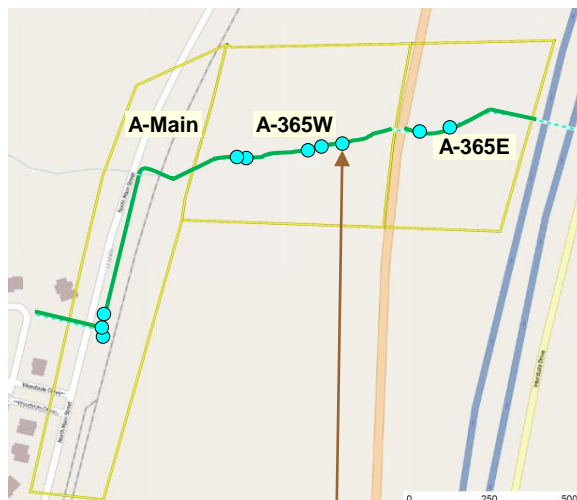
Monitoring Period: Daily* from 03/03/2014 through 03/09/2014

*Limited sheen monitoring due to unsafe weather conditions.

Mitigation: Suspected petrogenic sheens were removed using absorbent materials.

Observations in Drainage Ways:

- A-Main
 - Two covers (no particular structure) of silver gray sheens and one cover of metallic/silver gray sheens observed. Sheens broke apart when disturbed ("brittle")¹.
- A-365W
 - Five covers (no particular structure) of brittle¹ silver gray sheens observed.
- A-365E
 - Two covers (no particular structure) of brittle¹ silver gray sheens observed.



Drainage Ways (Summary of Observations from 03/03/2014 through 03/09/2014)

Observations in Dawson Cove Inlet Channel:

- Two covers (no particular structure) of brittle¹ metallic sheens and one cover of brittle¹ silver gray sheens observed.



Silver Gray Sheen Cover Observation on 03/08/2014



Dawson Cove Inlet Channel (Summary of Observations from 03/03/2014 through 03/09/2014)

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.

Sheen Monitoring Report #20 (continued)

Mayflower, Arkansas

Monitoring Period: Daily* from 03/03/2014 through 03/09/2014

*Limited sheen monitoring due to unsafe weather conditions.

Observations in Dawson Cove:

- Six streamers (two with 0.25-inch wide oil spots) and one patch of non-brittle² silver gray sheens; and one patch of non-brittle² rainbow/silver gray sheens observed. Sheens did not break when disturbed ("non-brittle")².



Silver Gray Sheen Patch Observation on 03/09/2014

Path Forward for 03/10/2014 to 03/16/2014:

- Continue sheen monitoring in all areas

Legend:

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



Dawson Cove (Summary of Observations from 03/03/2014 through 03/09/2014)



Silver Gray Sheen Streamer Observation on 03/08/2014

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