

US EPA ARCHIVE DOCUMENT

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                           |                                            |                                |                     |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------|--------------------------------|---------------------|
| <b>1. Incident Name</b>                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>2. Date Prepared</b>                                   | <b>3. Time Prepared</b>                    | <b>UNIT LOG<br/>ICS 214</b>    |                     |
| Kalamazoo River/Enbridge Spill                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12/06/2012                                                | 1815                                       |                                |                     |
| <b>4. Unit Name/Designators</b>                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>5. Unit Leader</b>                                     |                                            | <b>6. Operational Period :</b> |                     |
| Operations Unit/Submerged Oil Branch, Science Group |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Name:</b>                                              | Dan Capone & Chris Lantinga (START/US EPA) | <b>From:</b>                   | 12/06/2012<br>0700  |
|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Position:</b>                                          | Operations Section Chief                   | <b>To:</b>                     | 121/06/2012<br>1815 |
| <b>7. Personnel Roster Assigned</b>                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                           |                                            |                                |                     |
| <b>Name</b>                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>ICS Position</b>                                       |                                            | <b>DUTY CELL</b>               |                     |
| Dan Capone                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Operations Section Chief                                  |                                            |                                |                     |
| Chris Lantinga                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Deputy Operations Section Chief                           |                                            |                                |                     |
| Dan Zahner                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Field Team Lead                                           |                                            |                                |                     |
| Marc Wahrer                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | SOS Team #1                                               |                                            |                                |                     |
| <b>8. Activity Log</b>                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                           |                                            |                                |                     |
| <b>Activity Area</b>                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Oversee core logging and sampling for the Agitation Study |                                            | <b>LAT</b>                     | <b>LAT</b>          |
|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                           |                                            | <b>Various</b>                 | <b>Various</b>      |
|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                           |                                            | (DD.MMMM)                      | (DD.MMMM)           |
| <b><u>OIL OBSERVED</u></b>                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>EXTENT OF OIL IMPACTED AREA</b>                        |                                            |                                |                     |
|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>DENSITY OF OIL /SHEEN</b>                              |                                            |                                |                     |
| <b>Total Collection Points</b>                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                           |                                            |                                |                     |
| <b>Total Boom Deployed</b>                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                           |                                            |                                |                     |
| <b>Activity</b>                                     | <p><b><u>Weston/START Submerged Oil Branch Science Group (SOS) Team Activity:</u></b><br/> SOS team 1 (Marc Wahrer) oversaw core logging and sampling at the wildlife center building logging station at C3.2 boat launch area as part of the agitation assessment study. I oversaw the logging team of Jerry Kreamer (logging lead). For the agitation study they collected 3 cores pre agitation and 3 cores post agitation. Each of the 6 cores were logged and placed together to determine the depth of the agitation impact. The following cores were logged and sampled:</p> <p><b><u>SEKR2150C location</u></b></p> <ul style="list-style-type: none"> <li>· SEKR2150C603 pre agitation cores A, B, C: No sheen or oil observed under visible light or UV light. No petroleum odors observed.</li> <li>· SEKR2150C611 post agitation cores A, B, C: No sheen or oil observed under visible light or UV light. No petroleum odors observed.</li> <li>· Determined that the maximum agitation extent was 0.9 foot based on observation from the 3 post and 3 pre agitation core observations.</li> <li>· AECOM collected 1 sample from the pre agitation cores (after compositing the top 1 foot from the 3 cores). AECOM collected 1 sample from the pos agitation cores (after compositing the top 1 foot from the 3 cores). They also will send the bulk density core for sampling also. The samples were shipped to the laboratory today.</li> </ul> |                                                           |                                            |                                |                     |

**SEKR0550C location**

- **SEKR0550C603 pre agitation cores.**

**A: No sheen or oil observed under visible light. Multiple small globules (1-2mm) in a 1 inch line approx 1/16 inch thick observed at 1.0- 1.05 under UV light (2%). No petroleum odors observed.**

**B: No sheen or oil observed under visible light. Three small pinhead globules at 0.95-1.0 observed under UV light (1%). No petroleum odors observed.**

**C: No sheen or oil observed under visible light. Observed a 1.5 inch line of globules approx ¼ inch thick along a thick root under UV light (5%) at 0.45-0.55. No petroleum odors observed.**

- **SEKR0550C611 post agitation cores.**

**A: Sheen observed in water in core tube under visible light. Two globules 1/8 inch diameter at top of core (0-0.05) (UV 5%) and three 1/16 inch globules in soil at 0.5-0.6 observed under UV light (1%). Globules picked for analysis. No petroleum odors observed.**

**B: No sheen or oil observed under visible light. Observed a 1 inch long group of multiple globules 1/16 inch wide under UV light at 0.8-0.85. Globules picked for analysis. No petroleum odors observed.**

**C: No sheen or oil observed under visible light or UV light. No petroleum odors observed.**

- **Determined that the maximum agitation extent was 1.1 foot based on observation form the 3 post and 3 pre agitation core observations.**
- **AECOM collected 1 sample from the pre agitation cores (after compositing the top 1 foot from the 3 cores). AECOM collected 1 sample from the pos agitation cores (after compositing the top 1 foot from the 3 cores). They also will send the bulk density core for sampling also. They also collected 1 globule sample from the post and pre agitation cores. The samples were shipped to the laboratory.**

**SEKR1480C location**

- **SEKR1480C603 pre agitation cores.**

**A: No sheen or oil observed under visible light. Multiple small scattered globules (up to 1/16 inch) observe under UV light from 0.0-0.4 (UV 3%). No petroleum odors observed.**

**B: No sheen or oil observed under visible light. Multiple small scattered globules (up to 1/16 inch) observe under UV light from 0.0-0.4 (UV 3%). Globules picked for analysis. No petroleum odors observed.**

**C: No sheen or oil observed under visible light. Multiple (>6) small (1/16 inch) globules scattered from 0-0.4 observed under UV light (UV 3%). Globules picked for analysis. No petroleum odors observed**

- **SEKR1480C611 post agitation cores.**

**A: No sheen or oil observed under visible light. Several large globules (1/8-1/4 inch) observed from 0-0.05 and several small (1/16) observed from 0.05-0.55 under UV light. No petroleum odors observed.**

**B: No sheen or oil observed under visible light. 1/4x2" long band of globules with one ¼ diameter globule observed under UV light at 0.0-0.05 UV – 10%. Several small scattered globules (1/16) observed under UV light from 0.05 – 0.4 UV – 3%. Globules picked for analysis. No petroleum odors observed.**

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                        | <p><b>C: Sheen and several small globules (1/16-1/8) observed under visible light in water in core tray. Small smeared globule on inside of ore liner at 0.35, but no thing observed iin te core itself under UV light. No petroleum odors observed.</b></p> <ul style="list-style-type: none"> <li>· <b>Determined that the maximum agitation extent was 1.1 foot based on observation form the 3 post and 3 pre agitation core observations.</b></li> <li>· <b>AECOM collected 1 sample from the pre agitation cores (after compositing the top 1 foot from the 3 cores). AECOM collected 1 sample from the pos agitation cores (after compositing the top 1 foot from the 3 cores). They also will send the bulk density core for sampling also. They also collected 1 globule sample from the post and pre agitation cores. The samples were placed into the refrigerator to be shipped tomorrow to the laboratory</b></li> </ul> |
| <p><b>Health and Safety Issues</b></p> | <p>None</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <p><b>Comments</b></p>                 | <p>Information for this 214 is in Logbook SOS1.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |