

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                      |              | 04/25/2012   | 1645                                    |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| <b>4. Unit Name/Designators</b>                     |              | <b>5. Unit Leader</b>  |   | <b>6. Operational Period :</b> |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| Operations Unit/Containment Branch Monitoring Group |              | <b>Name:</b>   | Dan Capone & Joe Victory (START/US EPA) | <b>From:</b>                   | 04/25/2012<br>0600 |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
|   |              | <b>Position:</b>   | Operations Section Chief                | <b>To:</b>                     | 04/25/2012<br>1630 |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| <b>7. Personnel Roster Assigned</b>                 |              |  |   |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| <u>Name</u>   |              | <u>ICS Position</u>  |   | <u>DUTY CELL</u>               |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| Dan Capone  |              | Operations Section Chief   |   |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| Joe Victory   |              | Operations Section Chief   |   |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| Rex Johnson   |              | Deputy Director  |   |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| Dan Zahner  |              | Field Team Lead  |   |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| Karen Berez   |              | CBM Team 2   |   |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
|   |              |  |   |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| <b>8. Activity Log</b>                              |              |  |   |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| <b>Activity Area</b>                                |              |  |   | <b>LAT</b>                     | <b>LAT</b>         |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
|   |              |  |   | <b>Various</b>                 | <b>Various</b>     |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
|   |              |  |   | (DD.MMMM)                      | (DD.MMMM)          |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| <b><u>OIL OBSERVED</u></b>                          |              | <b><u>EXTENT OF OIL IMPACTED AREA</u></b>  |   |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
|   |              | <b><u>DENSITY OF OIL /SHEEN</u></b>  |   |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| <b>Total Collection Points</b>                      |              |  |   |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| <b>Total Boom Deployed</b>                          |              |  |   |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| <b>Activity</b>                                     |              | <p><b><u>Weston/START Containment Branch Monitoring Group (CBM) Team Activity:</u></b><br/>                 Karen Berez and Dylan Massey conducted (1) Control &amp; Containment Point inspections at shoreline locations at Talmadge Creek. (2) Control &amp; Containment Point inspections at shoreline and overbank locations from Talmadge Creek and Kalamazoo River mile post 10.00 through 40.00. (3) Water &amp; Sediment Temperature &amp; Level Readings.</p> <ul style="list-style-type: none"> <li>• 0630: Meeting with EPA, START, and Enbridge contractors to discuss Containment Operations.</li> <li>• 0700 - 1600: START and LBG members conducted inspections. Observations and recommended actions were logged in the START CBM Team 2 log book, as well as discussed with Dylan Massey. Dylan Massey informed Enbridge contractors to make recommended actions.</li> </ul> <p><b><u>WATER/SEDIMENT TEMPERATURE AND LEVEL READINGS:</u></b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">LOCATION</th> <th style="text-align: center;">WATER TEMP</th> <th style="text-align: center;">SEDIMENT TEMP</th> <th style="text-align: center;">WATER LEVEL</th> </tr> </thead> <tbody> <tr><td>MP 2.25 (C 0.0 Launch)</td><td></td><td></td><td></td></tr> <tr><td>MP 5.25 (C0.4 Launch)</td><td></td><td></td><td></td></tr> <tr><td>MP 10.0 (C3.2 Launch)</td><td></td><td></td><td></td></tr> <tr><td>MP 15.0 (C5 Launch)</td><td style="text-align: center;">54.2</td><td style="text-align: center;">54.7</td><td style="text-align: center;">3.1</td></tr> <tr><td>MP 18.75 (D2 Launch)</td><td style="text-align: center;">54.3</td><td style="text-align: center;">52.6</td><td style="text-align: center;">1.6</td></tr> <tr><td>MP 21.5 (D5)</td><td style="text-align: center;">51.9</td><td style="text-align: center;">51.6</td><td style="text-align: center;">5.4</td></tr> <tr><td>MP 27.0 (E0.5 Launch)</td><td style="text-align: center;">51.9</td><td style="text-align: center;">53.9</td><td style="text-align: center;">1.8</td></tr> <tr><td>MP 30.0 (E2 Launch)</td><td style="text-align: center;">56.1</td><td style="text-align: center;">53.8</td><td style="text-align: center;">0.5</td></tr> <tr><td>MP 35.0 (E3 Launch)</td><td style="text-align: center;">51.9</td><td style="text-align: center;">51.1</td><td style="text-align: center;">0.5</td></tr> <tr><td>MP 38.0 (E4 Launch)</td><td style="text-align: center;">51.1</td><td style="text-align: center;">52.2</td><td style="text-align: center;">1.4</td></tr> <tr style="border-top: 2px solid black;"> <td style="text-align: center;"><b>AVERAGE</b></td> <td style="text-align: center;"><b>53.06</b></td> <td style="text-align: center;"><b>52.84</b></td> <td></td> </tr> </tbody> </table> |   |                                |                    | LOCATION | WATER TEMP | SEDIMENT TEMP | WATER LEVEL | MP 2.25 (C 0.0 Launch) |  |  |  | MP 5.25 (C0.4 Launch) |  |  |  | MP 10.0 (C3.2 Launch) |  |  |  | MP 15.0 (C5 Launch) | 54.2 | 54.7 | 3.1 | MP 18.75 (D2 Launch) | 54.3 | 52.6 | 1.6 | MP 21.5 (D5) | 51.9 | 51.6 | 5.4 | MP 27.0 (E0.5 Launch) | 51.9 | 53.9 | 1.8 | MP 30.0 (E2 Launch) | 56.1 | 53.8 | 0.5 | MP 35.0 (E3 Launch) | 51.9 | 51.1 | 0.5 | MP 38.0 (E4 Launch) | 51.1 | 52.2 | 1.4 | <b>AVERAGE</b> | <b>53.06</b> | <b>52.84</b> |  |
| LOCATION  | WATER TEMP   | SEDIMENT TEMP  | WATER LEVEL                             |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| MP 2.25 (C 0.0 Launch)                              |              |  |   |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| MP 5.25 (C0.4 Launch)                               |              |  |   |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| MP 10.0 (C3.2 Launch)                               |              |  |   |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| MP 15.0 (C5 Launch)                                 | 54.2         | 54.7   | 3.1                                     |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| MP 18.75 (D2 Launch)                                | 54.3         | 52.6   | 1.6                                     |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| MP 21.5 (D5)  | 51.9         | 51.6   | 5.4                                     |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| MP 27.0 (E0.5 Launch)                               | 51.9         | 53.9   | 1.8                                     |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| MP 30.0 (E2 Launch)                                 | 56.1         | 53.8   | 0.5                                     |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| MP 35.0 (E3 Launch)                                 | 51.9         | 51.1   | 0.5                                     |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| MP 38.0 (E4 Launch)                                 | 51.1         | 52.2   | 1.4                                     |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |
| <b>AVERAGE</b>                                      | <b>53.06</b> | <b>52.84</b>   |   |                                |                    |          |            |               |             |                        |  |  |  |                       |  |  |  |                       |  |  |  |                     |      |      |     |                      |      |      |     |              |      |      |     |                       |      |      |     |                     |      |      |     |                     |      |      |     |                     |      |      |     |                |              |              |  |

**WEEKLY/AFTER RAIN EVENT INSPECTION:**

**Talmadge Creek:** (11) Pom-Poms deployed at 7 culvert locations:

MP 0.00: Upstream of source:  
MP 0.04: Below Source (Culvert 1):  
MP 0.27: Between Source & Division Road (Culvert 2):  
MP 0.50: Division Road (Culvert 3):  
MP 0.74: Hillbilly Road (Culvert 4):  
MP 1.09: 16 Mile Road (Culvert 5):  
MP 1.28: 15 ½-Mile Road (Culvert 6):  
MP 1.57: B4.5 (Culvert 7):  
MP 1.77: Saylor's Property (Culvert 8):  
MP 1.99: A Drive North (Culvert 9):  
MP 2.02: Talmadge Creek before Confluence:

**DAILY CONTAINMENT MONITORING:**

**Kalamazoo River:** Control (CT) & Containment (CTM) Points (14) deployed are:

MP 2.25 (Confluence):  
MP 5.75 (Ceresco Dam):  
MP 8.50 L1 (8.48 LDB):  
MP 8.50 L3 (8.48 LDB):  
MP 8.75 R1:  
MP 9.00 I2 (8.97I):  
MP 10.75 LDB: No oil and/or sheen observed within containment.  
MP 11.75 L2 (11.79 LDB): No oil and/or sheen observed within containment. Due to drop in river level, area within containment on upstream end is currently a mudflat. Boom needs to be readjusted accordingly for drop in river level. Kevin Oscar made aware of need for boom maintenance.  
MP 14.98I: No oil and/or sheen observed within containment. Downstream end of island still submerged.  
MP 15.65 (Battle Creek Dam): No oil and/or sheen observed within containment.  
MP 17.00 L1 (Rock Tenn): Moderate silver and rainbow sheen along with  $\frac{1}{16}$ " to  $\frac{1}{2}$ " sized oil globules observed within primary containment. Area of sheen is 20' x 20' = 400 sq. ft. SWAT to perform daily maintenance  
MP 21.50 Oxbow: Slight silver sheen and observed within containment. Area of sheen is 2' x 10' = 20 sq. ft.  
MP 30.8 LDB: No oil and/or sheen observed at collection area on check point.  
MP 37.75 (E4): Slight silver sheen observed at collection area along control point. Area of sheen is 50' x 2' = 100 sq. ft.

**RIVER REOPENING MILE POSTS:**

MP -2.70 to MP 2.25:  
MP 2.25 to MP 5.90:  
MP 5.90 to MP 9.50:  
MP 9.50 to MP 13.75:  
MP 13.75 to MP 15.65:  
MP 15.65 to MP 18.75:  
MP 18.75 to MP 30.00:  
MP 30.00 to MP 35.25:  
MP 35.25 to MP 37.75:  
MP 37.75 to MP 40.00:

Total sheen in control points: **100 sq. ft.**

|                                 |   |
|---------------------------------|---|
|                                 | <p>Total sheen within containment: <b>420 sq. ft.</b><br/>Total Sheen: <b>520 sq. ft.</b></p> <p><b><u>Helicopter Fly-Over Pictures:</u></b></p> <p>CBM 2 had no Situation Photo Log pictures to inspect today.</p> |
| <b>Health and Safety Issues</b> | None  |
| <b>Comments</b>                 | None  |