

US EPA ARCHIVE DOCUMENT

# Meeting Ground Rules

- Be courteous and silence/put away your electronic devices.
- Adhere to meeting agenda
- One conversation at a time
- Hold all questions until the speaker has finished with the presentation

# Situation Report

## April 20, 2012

# Science Group Status

|                 |                  |           |
|-----------------|------------------|-----------|
| Data Collection | Data Compilation | Submittal |
|-----------------|------------------|-----------|

## Submerged Oil Science Group

### Reassessment

|                                  |   |  |                                                            |
|----------------------------------|---|--|------------------------------------------------------------|
| Spring 2012 Sub Oil Reassessment | E |  | Temperature dependent, Morrow Lake, Confluence to Saylor's |
|----------------------------------|---|--|------------------------------------------------------------|

### Hydrodynamic Assessment & Modeling

|                        |   |        |  |
|------------------------|---|--------|--|
| Sensitivity Testing    |   | 4/6    |  |
| Run Modified Scenarios |   | 4/6    |  |
| Summary Report         | E | (4/20) |  |

### Temperature Effects Study

|                                                   |  |       |  |
|---------------------------------------------------|--|-------|--|
| Sediment sample location selection and collection |  | 12/19 |  |
| Conduct temperature study                         |  | 1/11  |  |
| Compile, evaluate, and present results            |  | 4/6   |  |

### Submerged Oil Quantification

|                            |   |  |  |
|----------------------------|---|--|--|
| Fall 2011                  | E |  |  |
| Spring 2012 (pre-recovery) | E |  |  |
| Fall 2012 (post-recovery)  | E |  |  |

- denotes status updates since the last report



Enbridge



Complete or N/A



Denotes Due Date

# Science Group Status

|                 |                  |           |
|-----------------|------------------|-----------|
| Data Collection | Data Compilation | Submittal |
|-----------------|------------------|-----------|

## Overbank Science Group

### Reassessment

|                                                 |  |  |  |
|-------------------------------------------------|--|--|--|
| Spring 2012 Shoreline and Overbank Reassessment |  |  |  |
|-------------------------------------------------|--|--|--|

## Containment Science Group

### Evaluate placement of containment

|                                |      |      |      |                     |
|--------------------------------|------|------|------|---------------------|
| Hec-Ras Modeling               | 12/5 | 1/9  | 1/26 |                     |
| Hydraulic Calculations         | 1/10 | 1/23 | 1/26 |                     |
| 2D Hydrodynamic Model          |      | 2/13 | E    | Flood Plain Hec Ras |
| Monitoring and Management Plan | 1/24 | 1/25 | 2/27 |                     |

### Implementation of passive sediment collection devices

|                          |  |  |   |  |
|--------------------------|--|--|---|--|
| Location selection       |  |  |   |  |
| Design review            |  |  |   |  |
| Installation             |  |  | E |  |
| Post-installation review |  |  |   |  |
| Design adjustments       |  |  |   |  |

- denotes status updates since the last report

E Enbridge

Complete or N/A

() Denotes Due Date

# Remediation Progress

## Location

### Overbank

|              |
|--------------|
| OB 14.98 I   |
| OB 5.92 RDB  |
| OB 13.40 LDB |
| OB 8.97 I    |
| OB 9.10 LDB  |
| OB 10.37 RDB |

| SCIENCE      |             |               |                  |                       | COMPLIANCE            |                    |                    |               | RECOVERY  | MONITORING       |
|--------------|-------------|---------------|------------------|-----------------------|-----------------------|--------------------|--------------------|---------------|-----------|------------------|
| RI Work Plan | Plan Review | Investigation | Data Compilation | Presentation to OSCAR | Remediation Work Plan | Remed. Plan Review | Permit Application | Permit Review | Execution | Completion Check |

## Comments

|  |       |       |       |       |       |      |   |
|--|-------|-------|-------|-------|-------|------|---|
|  | 10/17 | 10/15 | 9/28  | 10/10 | 11/18 | E    |   |
|  | 12/1  | 12/8  | 11/4  | 12/1  | 1/25  | E    |   |
|  | 12/22 | 2/7   | 12/21 | 2/9   | 2/23  | E    |   |
|  | 12/15 | 2/17  | 2/24  | 1/25  | 2/24  | 3/23 | E |
|  | 1/5   | 2/17  | 2/24  | 1/25  | 2/24  | 3/16 | E |
|  | 1/12  | 2/17  | 2/24  | 1/25  | 2/24  | 3/22 | E |

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### Submerged Oil

|                   |
|-------------------|
| Walling Structure |
| Suboil Toolbox    |

|      |      |      |  |
|------|------|------|--|
| 3/16 | 3/27 | 4/14 |  |
| E    |      |      |  |

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### Containment

|                             |
|-----------------------------|
| Submerged Structures I(6)   |
| Submerged Structures II(12) |
| Control Points (3)          |
| OB 8.48 LDB                 |
| SO 11.21                    |
| OB 11.79 LDB                |
| SO 26.25                    |

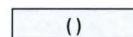
|   |   |      |      |     |  |
|---|---|------|------|-----|--|
| E | ↩ | 4/3  | A    |     |  |
| E | ↩ | E    |      |     |  |
|   |   | 3/21 | 3/23 | 4/5 |  |
| E |   | E    |      |     |  |
| E |   | E    |      |     |  |
| E |   | E    |      |     |  |
| E |   | E    |      |     |  |

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|  |

- denotes sites with status updates since the last report

 Enbridge / In development

 In Agency Review

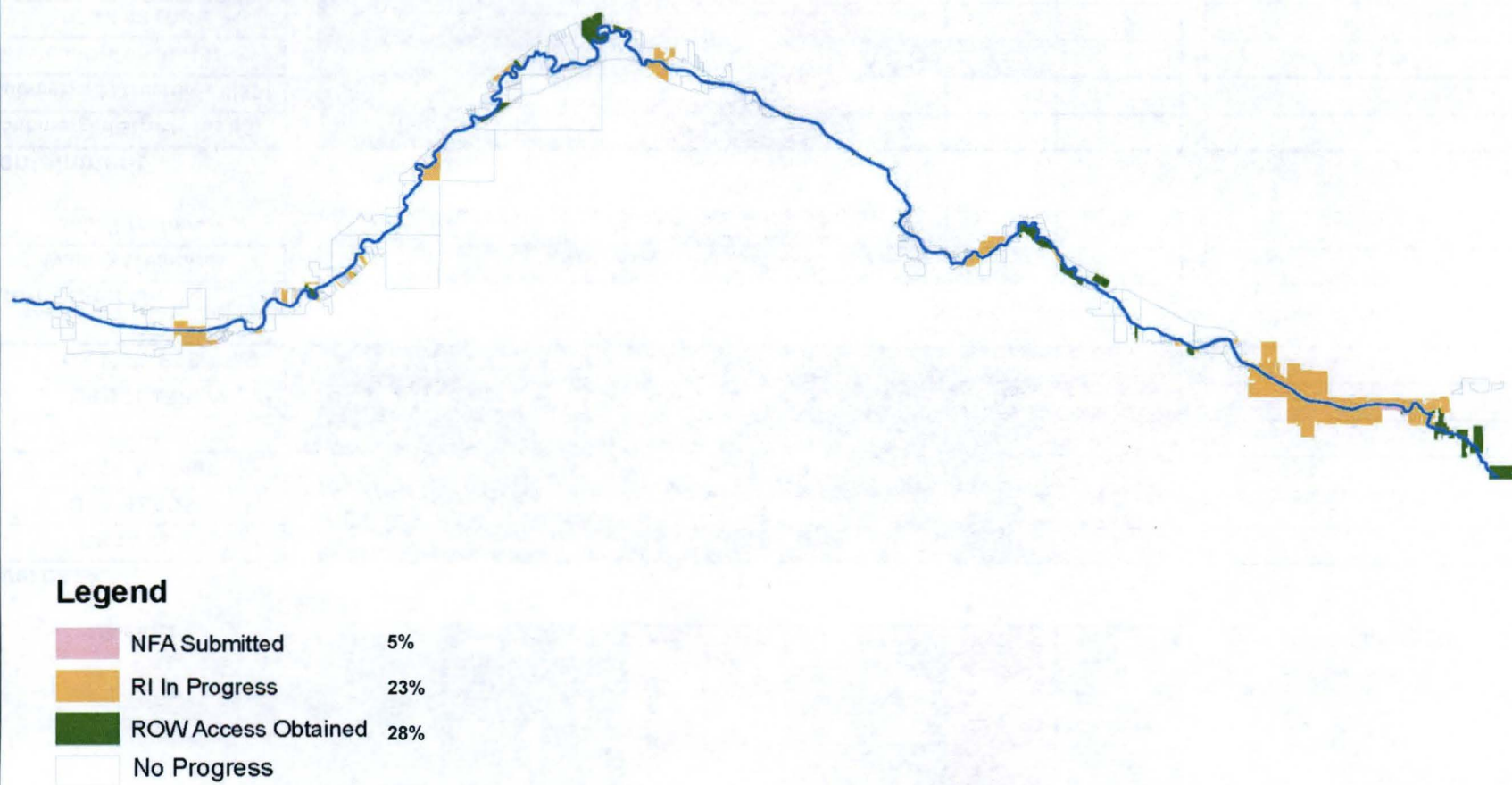
 Denotes Due Date

 Complete or N/A

 Revisit Previous Phase

# Remediation Progress

## Remedial Investigation



# Daily Progress Tracking

## Personnel / Resources Deployed

|                             | 4/18/2012  | 4/17/2012  |
|-----------------------------|------------|------------|
| Kalamazoo River Remediation | 38         | 40         |
| Containment                 | 12         | 12         |
| Submerged Oil               | 2          | 2          |
| Overbank                    | 4          | 4          |
| River Reopening             | 1          | 1          |
| Waste Management            | 19         | 20         |
| Security & Flaggers         | 5          | 5          |
| Operations Center           | 50         | 51         |
| Comm. Centers               | 5          | 5          |
| EPA                         | 5          | 5          |
| EPA Contractors             | 23         | 23         |
| Other Agencies              | 2          | 2          |
| DEQ                         | 6          | 6          |
| DEQ Contractors             | 6          | 6          |
| <b>TOTAL</b>                | <b>178</b> | <b>182</b> |

|                     | 4/18/2012  | 4/17/2012  |
|---------------------|------------|------------|
| Vac & Tanker Trucks | 0<br>0     | 0<br>0     |
| Frac Tanks          | 0<br>0     | 0<br>0     |
| Boats**             | 12<br>0    | 12<br>0    |
| Yellow Iron***      | 2<br>0     | 2<br>0     |
| Roll-Off Boxes      | 5<br>0     | 5<br>0     |
| Boom Locations      | 14         | 14         |
| Boom in River (ft)  | 5,175<br>0 | 5,175<br>0 |

# Facility Sites



- 2 CY in cells
- 0 gal water
- 5 Roll offs



MP 37.75; E4 4/19

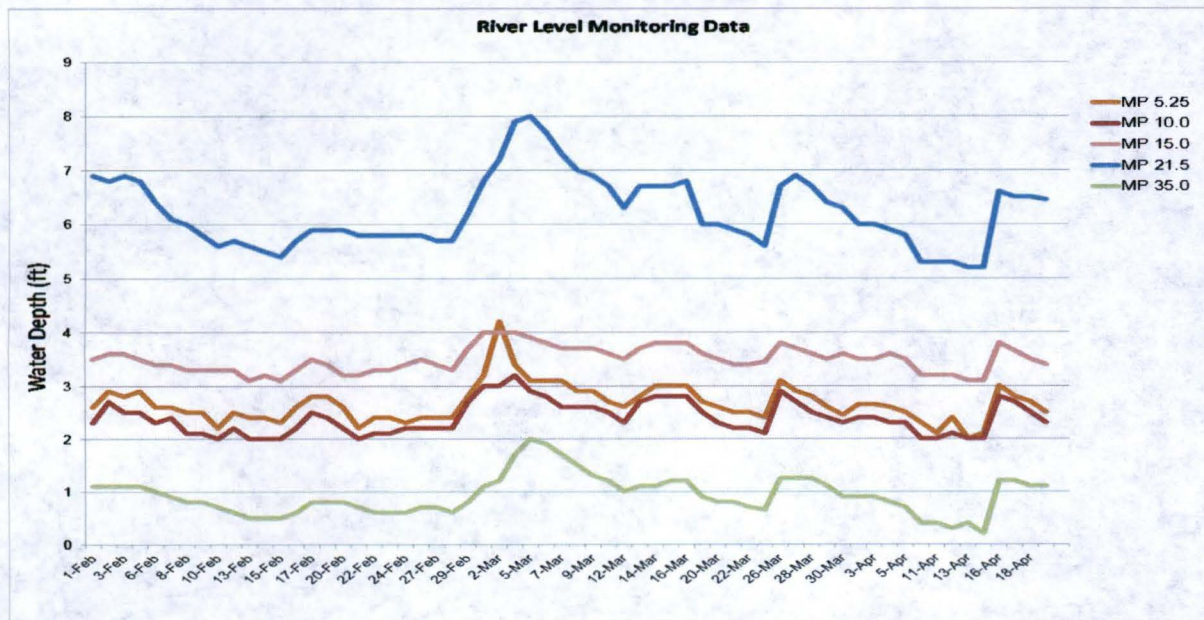


Morrow Lake 4/19

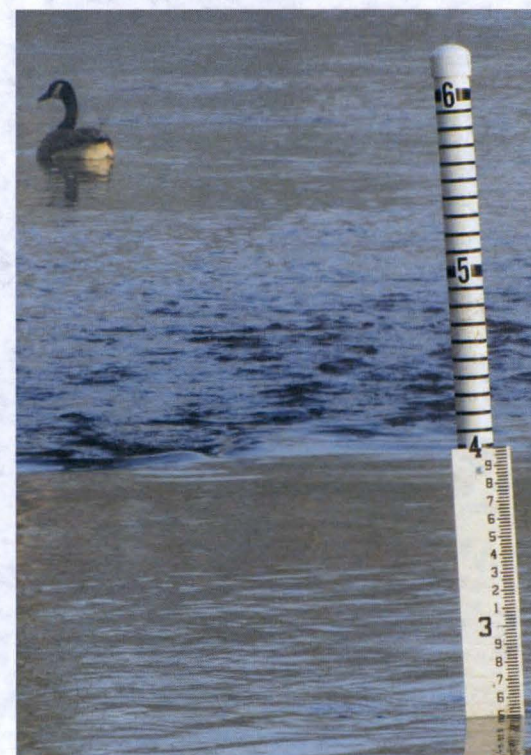
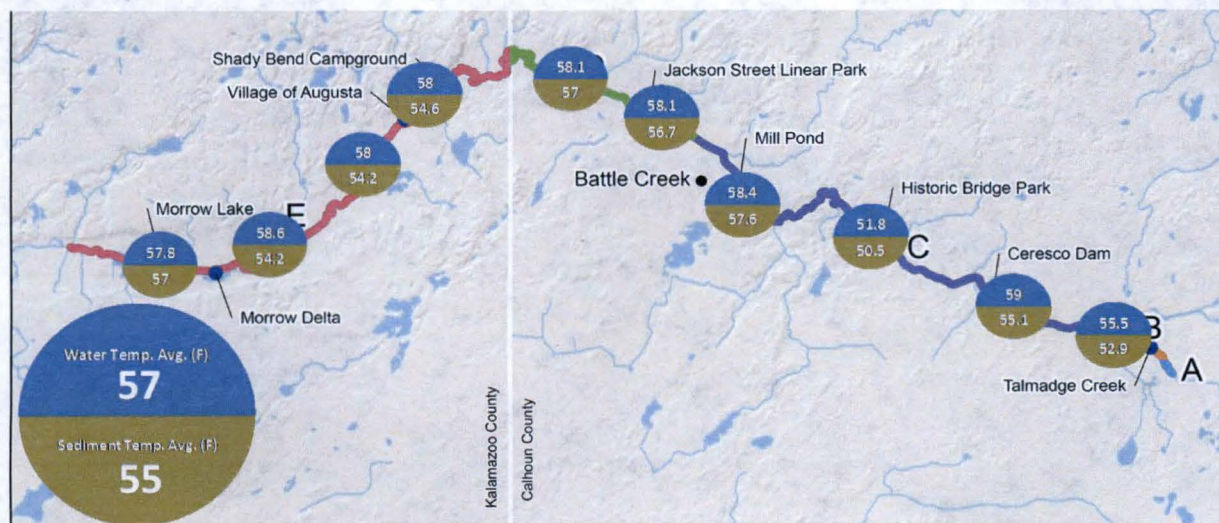


Morrow Lake 4/19

# Water Conditions



| DISCHARGE RATES (cfs)    |      |      |
|--------------------------|------|------|
|                          | 4/19 | 4/18 |
| Marshall, MI             | 545  | 590  |
| <i>Historical Median</i> | 438  | 438  |
| Battle Creek, MI         | 1170 | 1215 |
| <i>Historical Median</i> | 914  | 920  |



# Weather Forecast

| Fri<br>20                                                                         | Sat<br>21                                                                         | Sun<br>22                                                                           | Mon<br>23                                                                           |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |
| T-Showers                                                                         | Partly Cloudy                                                                     | Partly Cloudy                                                                       | Partly Cloudy                                                                       |
| <b>57°</b><br>High                                                                | <b>54°</b><br>High                                                                | <b>54°</b><br>High                                                                  | <b>56°</b><br>High                                                                  |
| <b>34°</b><br>Low                                                                 | <b>35°</b><br>Low                                                                 | <b>33°</b><br>Low                                                                   | <b>36°</b><br>Low                                                                   |
| Chance of Rain:<br>70%                                                            | Chance of Rain:<br>10%                                                            | Chance of Rain:<br>0%                                                               | Chance of Rain:<br>20%                                                              |

# Command & General Staff Updates for UC

# Closing Remarks

- Enbridge
- DEQ
- US EPA