

US EPA ARCHIVE DOCUMENT



**Situation Report**  
**March 2, 2012**

# Science Group Status

Data Collection	Data Compilation	Submittal
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## Submerged Oil Science Group

### Reassessment

Spring 2012 Sub Oil Reassessment			
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### Hydrodynamic Assessment & Modeling

Bathymetry and terrain data			12/9
Model Grid setup and QC			12/16
Configuration for flow and velocity			12/30
Analysis of sediment samples and cohesion data			1/13
Complete configuration including sediment processes			1/27
Model calibration			2/10
Preliminary and baseline model scenarios			2/24
Model flow events and changes in river conditions			(3/23)

Reviewed 2/22 and 2/23 in Atlanta Ga.

### Temperature Effects Study

Sediment sample location selection and collection			12/19
Conduct temperature study			1/11
Compile, evaluate, and present results	E		Initial Report of findings submitted 2/20; Continue additional temp. Study

### Submerged Oil Quantification

Fall 2011	E		Reviewing potential for 3 alt. methods for suboil quant
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
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Overbank Science Group			
Reassessment			
Spring 2012 Shoreline and Overbank Reassessment	E		

Containment Science Group				
Evaluate placement of containment				
Hec-Ras Modeling	12/5	1/9	1/26	6 locations for modeling and installation
Hydraulic Calculations	1/10	1/23	1/26	Active sed. struct. permit application submitted
3D Hydrodynamic Model		2/13	E	21 locations Changed from 4 to 21
Monitoring and Management Plan	1/24	1/25	2/27	Submitted - 2/27/12
Evaluate methods for installation and removal of containment				
				Doc. Review complete
Selection of passive sediment collection devices				
	E			Permit for passive structures submitted 2/2

Implementation of passive sediment collection devices				
Location selection				Pending completion of hydrodynamic model
Design review				
Installation				
Post-installation review				
Design adjustments				

• denotes status updates since the last report



Enbridge



Complete or N/A



Denotes Due Date

# Remediation Progress

## Submerged Oil

- ✓ Presented Consolidation of Sites - 2/21
- ✓ Presented Methodology Enbridge Will Use to Analyze and Present Consolidated Sites - 2/21
- ✓ Enbridge Data Analysis - 2/23 – 2/29
- Presentation of Initial Sorted Data to Leadership Group – 3/6
- Development of the Submerged Oil Assessment Group – 3/8



Panel Ratings Entry Form

Panel Ratings

Site: \_\_\_\_\_

Enbridge 1 Enbridge 2 Enbridge 3 Enbridge 4 Enbridge 5

Delineation Type (Heavy, Moderate, Light, None) [0] [1] [2] [3] [4] [5]

Delineation Size (Surface Area) [0] [1] [2] [3] [4] [5]

Geomorphic Surface [0] [1] [2] [3] [4] [5]

Historic Recovery Activities [0] [1] [2] [3] [4] [5]

Distance to Passive Recovery [0] [1] [2] [3] [4] [5]

Remobilization Potential [0] [1] [2] [3] [4] [5]

Community Description [0] [1] [2] [3] [4] [5]

Habitat Quality [0] [1] [2] [3] [4] [5]

Potential Public Exposure [0] [1] [2] [3] [4] [5]

Comments: \_\_\_\_\_

# Remediation Progress

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

Location

Comments

## Overbank

Location	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
OB 14.98 I						10/17	10/15	9/28	10/10	11/18	E	
OB 5.92 RDB						12/1	12/8	11/4	12/1	1/25	E	
OB 13.40 LDB						12/22	2/7	12/21	2/9	2/23	E	Execution completed 2/23
OB 8.97 I					12/15	2/17	2/24	1/25	2/24	E		Execution started 2/27
OB 9.10 LDB					1/5	2/17	2/24	1/25	2/24	E		Execution schedule to start 3/6
OB 10.37 RDB					1/12	2/17	2/24	1/25	2/24	E		Execution schedule to start 3/15

## Submerged Oil

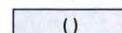
SO 8.50						3/1					E	Reassessment in Spring 2012
SO 9.00						E	↶					
SO 9.0 I3						3/1					E	Reassessment in Spring 2012

## Containment

Submerged Structures I(6)						1/27	A	1/26	A			Name Changed 2/21 / Execution to complete 3/31
Submerged Structures II(12)						2/27	A	E				Remediation WP Completed 2/27

 Enbridge / In development

 In Agency Review

 Denotes Due Date

 Complete or N/A

 Revisit Previous Phase

# Facility Sites

- x CY in cells
- y gal water in Fracs
- 9 Roll offs



# Significant Activities

- **Overbank:**
  - MP 2.0 Confluence
  - OB 8.97 I
- **Talmadge Creek**
  - Excavation MP 1.9 to MP 2.0
- **RI:**
  - SSCG Support
  - MP 2.25 – MP 3.14





Confluence 3/1



Confluence 3/1



Confluence 3/1



Confluence 3/1



Confluence 3/1



Confluence 3/1



Confluence 3/1

# Significant Activities

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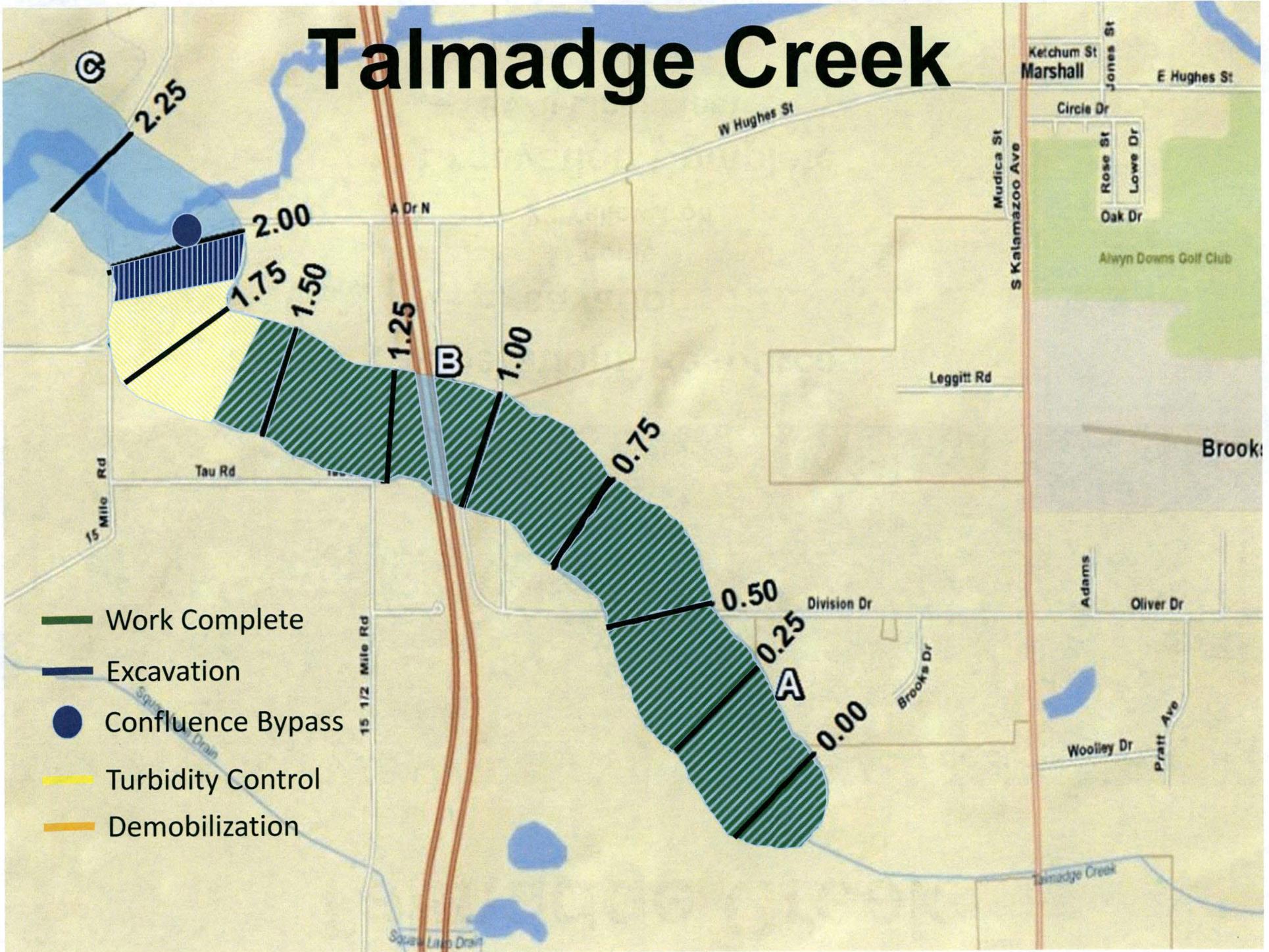


# Talmadge Creek



- **Operations Resources**
  - **Excavation**
    - 74 People
    - 22 Yellow Iron
- **Excavation Complete**
  - 9678 Lineal feet

# Talmadge Creek



# Remediation Progress

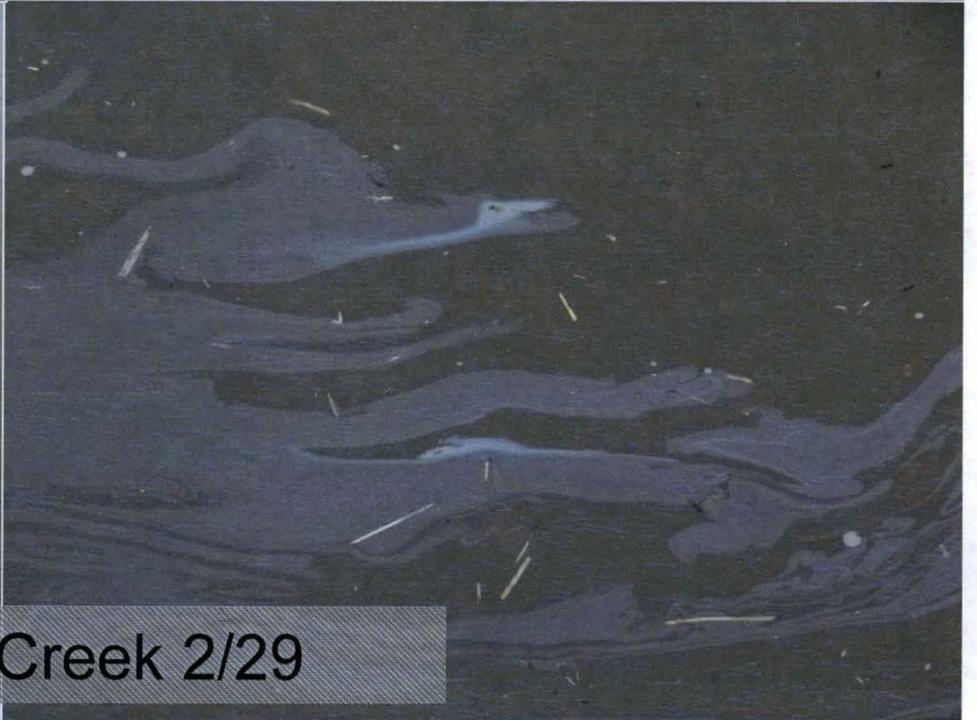
## Talmadge Creek

Location	Remedial Investigation WP	Remedial Investigation Imp.	Remedial Action Work Plan	Permit Application	Permit Review	Execution of Remediation						Post Remediation Evaluation	No Further Action	Comments	
						Access	Pump Around	Excavation	Backfill	Restoration	Demobilization				
MP 0.0 to 0.5			9/15	9/2	10/14										
MP 0.5 to 1.0			11/28	11/14	12/6										
MP 1.0 to 2.00			1/26	12/7	1/23										
MP 0.0 to 0.5															
MP 0.5 to 0.6															
MP 0.6 to 0.7															
MP 0.7 to 0.8															Demob Complete 2/28
MP 0.8 to 0.9															
MP 0.9 to 1.0															
MP 1.0 to 1.1															Demob Completed 2/16
MP 1.1 to 1.2															Demob Completed 2/16
MP 1.2 to 1.3															Demob Completed 2/16
MP 1.3 to 1.4															Demob Completed 2/25
MP 1.4 to 1.5															
MP 1.5 to 1.6															
MP 1.6 to 1.7								E							
MP 1.7 to 1.8								E	E		E	E			Excavation completed - 2/25
MP 1.8 to 1.9								E	E	E	E	E			Excavation / Backfill / Restoration Started - 2/25
MP 1.9 to 2.0								E	E	E					Started Excavation 2/28

• denotes status updates since the last report

- Complete or N/A
- Enbridge / In development
- Denotes Due Date

- In Agency Review
- Revisit previous phase



Talmadge Creek 2/29



Talmadge Creek 3/1



Talmadge Creek 3/1



Talmadge Creek 3/1



Talmadge Creek 3/1

## B5 / Confluence

- No sheen noted at Sediment Trap
- No sheen noted at Confluence



- Daily monitoring – 14%
- Turbidity monitors

# Daily Progress Tracking

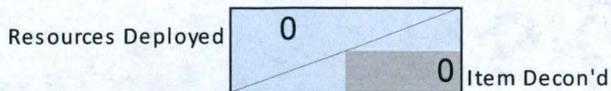
## Personnel Count

	2/29/2012	2/28/2012	2/27/2012	2/26/2012	2/25/2012	2/24/2012	2/23/2012
Talmadge Creek Remediation	78	82	77	14	76	73	73
Kalamazoo River Remediation	16	16	17	0	3	15	15
Containment	7	8	8	0	5	6	6
Submerged Oil	8	8	8	1	1	6	6
Overbank	38	39	44	7	51	56	56
Waste Management	28	24	24	0	25	17	18
Security & Flaggers	12	12	11	10	10	11	11
Operations Center	61	62	67	4	15	76	75
Comm. Centers	8	9	2	1	3	2	2
EPA	2	2	3	0	2	3	3
EPA Contractors	22	22	22	1	16	24	24
Other Agencies	0	0	1	0	0	0	1
DEQ	7	7	7	0	0	4	8
DEQ Contractors	7	7	7	0	2	5	4
<b>TOTAL</b>	<b>294</b>	<b>298</b>	<b>298</b>	<b>38</b>	<b>209</b>	<b>298</b>	<b>302</b>

# Daily Progress Tracking

## Resources Deployed / Decon

	2/29/2012	2/28/2012	2/27/2012	2/26/2012	2/25/2012	2/24/2012	2/23/2012
Vac & Tanker Trucks	2 0	2 0	1 0	0 0	2 0	2 0	2 0
Frac Tanks	10 0	10 0	10 0	10 0	10 0	10 0	10 0
Boats**	10 0	9 0	6 0	0 0	3 0	7 0	9 0
Yellow Iron***	37 2	39 2	33 0	2 0	33 0	34 0	33 0
Roll-Off Boxes	10 0	9 0	9 0	8 0	8 0	9 0	9 0
Boom Locations	12	12	12	12	12	12	12
Boom in River (ft)	2,050 0	2,050 0	2,050 200	2,050 0	2,050 525	2,050 200	2,050 0

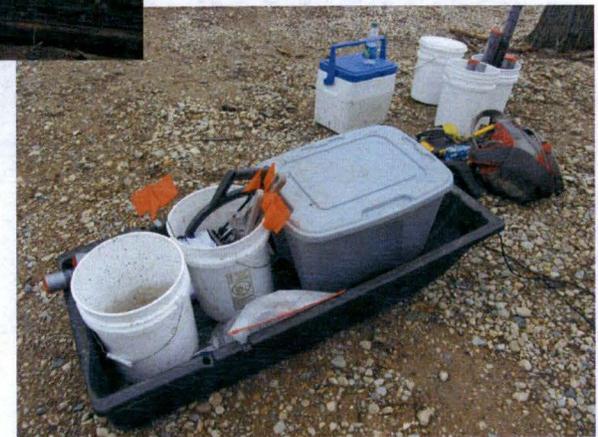


\*\*Boats - Air Boats, Jon Boats & Pontoon Boat

\*\*\* Yellow Iron - Articulating dump trucks, bobcats, bulldozers, excavators, front end loaders, skid steers, gac system, marookas, forklifts, marsh buggies

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  - **SSCG Support**
  - **MP 2.25 – MP 3.14**



# Remediation Progress

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Location

Comments

## Kalamazoo River Remediation Branch

Location	Phase	Status	Due Date	Comments
OB 8.48 LDB	E	↶		Compiling Data to evaluate need to collect additional samples
MP 2.25 to MP 3.14	E	↶		Collecting additional samples / Revisiting week of 2/27
MP 3.14 to MP 5.80	E	↶		Collecting additional samples / Revisiting week of 3/5
MP 5.80 to MP 11.00	E			Investigation
MP 13.0	1/20	E	↶	Collecting additional samples / Revisiting week of 2/27
MP 11.00 to Morrow Lake	2/7 3/1	E		Plan submitted and approved 3/1

denotes sites with status updates since the last report

 Enbridge / In development

 In Agency Review

 Denotes Due Date

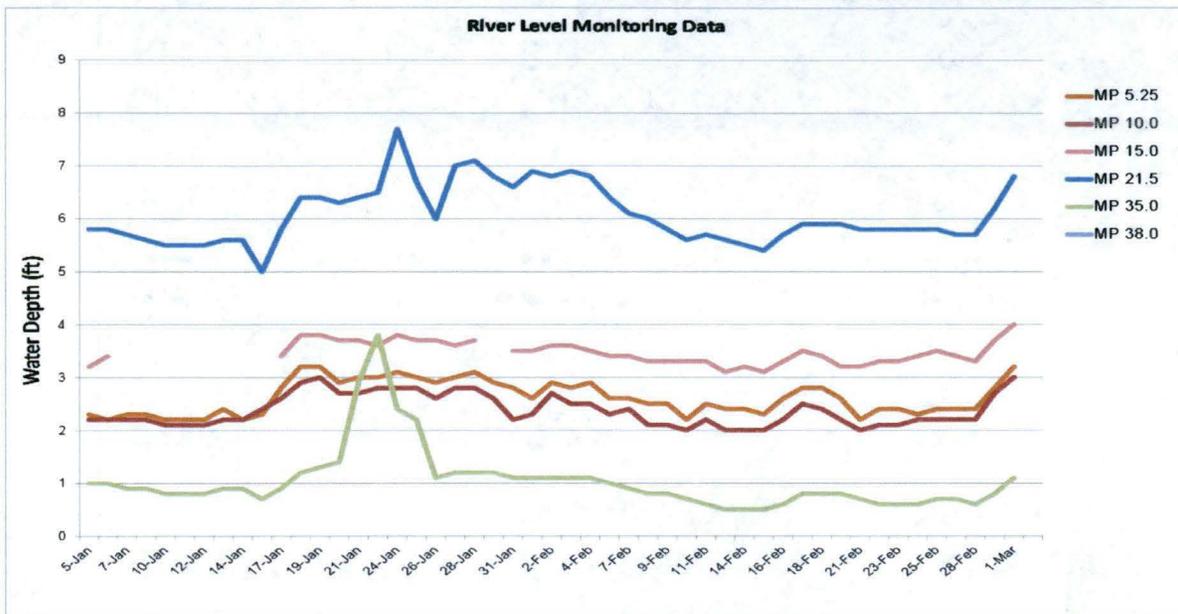
 Complete or N/A

 Revisit Previous Phase

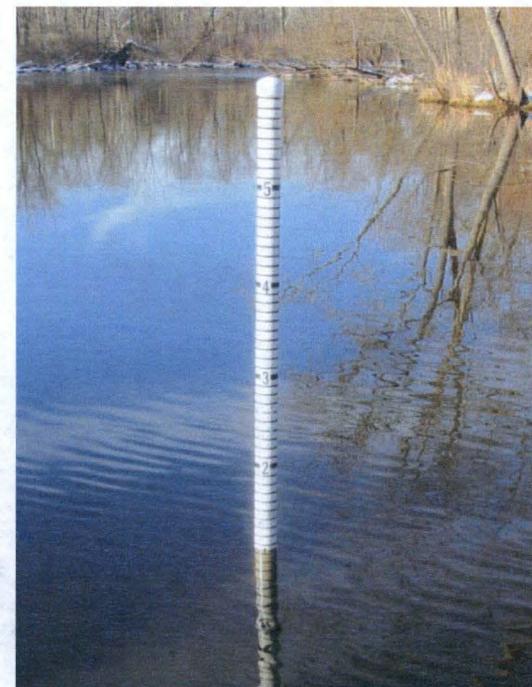
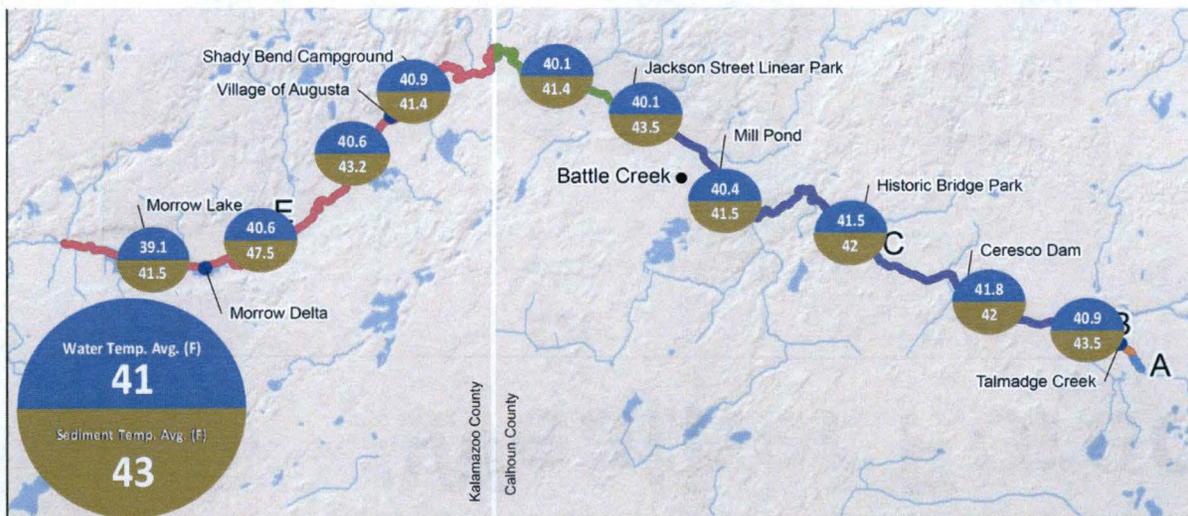


MP 2.25 - 3.14 3/1

# Water Conditions



DISCHARGE RATES (cfs)		
	02/29	03/01
Marshall, MI	632	857
<i>Historical Median</i>	311	364
Battle Creek, MI	1170	1500
<i>Historical Median</i>	800	810



# Weather Forecast

<b>Fri</b> 2	<b>Sat</b> 3	<b>Sun</b> 4	<b>Mon</b> 5
			
Rain / Thunder	Few Snow Showers / Wind	Few Snow Showers	Mostly Cloudy
<b>50°</b> High	<b>36°</b> High	<b>32°</b> High	<b>35°</b> High
<b>32°</b> Low	<b>27°</b> Low	<b>22°</b> Low	<b>27°</b> Low
Chance of Rain: 70%	Chance of Snow: 30%	Chance of Snow: 30%	Chance of Precip: 0%

# Command & General Staff Updates for UC

# Closing Remarks

- Enbridge
- DEQ
- US EPA