

US EPA ARCHIVE DOCUMENT

Meeting Ground Rules

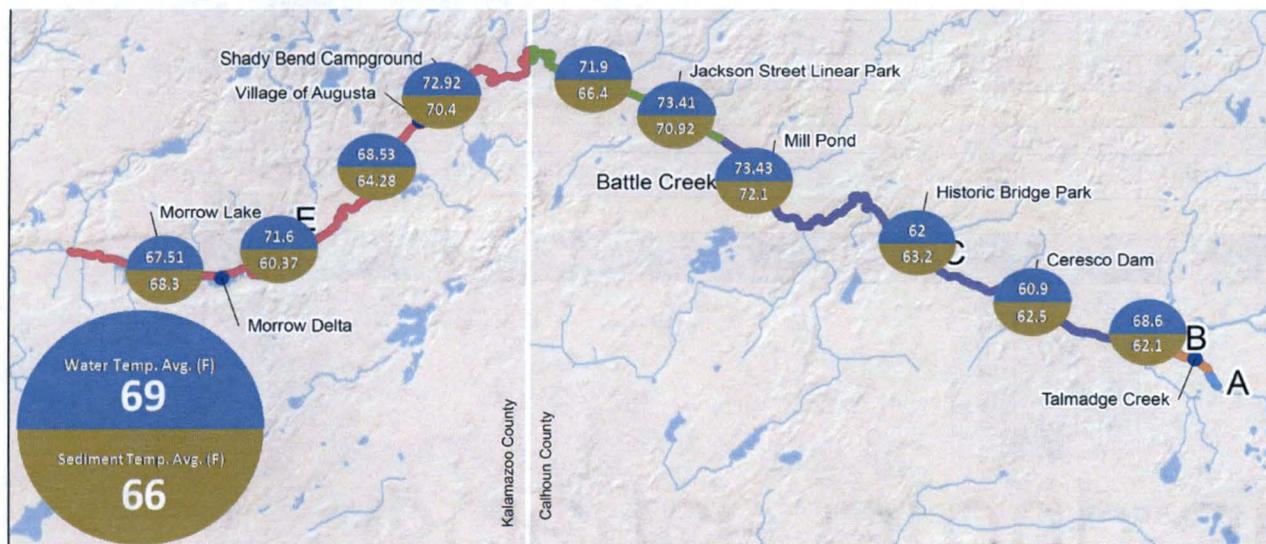
- Be courteous and silence/put away your electronic devices.
- Adhere to meeting agenda
- One conversation at a time
- Hold all questions until the speaker has finished with the presentation

Situation Report
May 18, 2012

Water Conditions



DISCHARGE RATES (cfs)		
	5/16	5/15
Marshall, MI	313	389
<i>Historical Median</i>	390	392
Battle Creek, MI	600	660
<i>Historical Median</i>	742	820



Science Group Status

Data Collection	Data Compilation	Submittal
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Submerged Oil Science Group

Reassessment

Spring 2012 Sub Oil Reassessment	E		Began 5/7
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Submerged Oil Quantification

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

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	Further scenarios
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

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

Submerged Oil

Walling Structure
Suboil Toolbox

			3/16	3/27	4/14	
			4/20	A		

Containment

MP 3.25 R1	•
Ceresco Dam	•
MP 10.40 N	•
MP 10.50 L2	•
MP 10.75 LDB	•
14.75 RDB	•
19.25 LDB	•
21.50 RDB	•
MP 26.00 RDB	•
28.25 RDB	•
MP 33.00 A	•
MP 33.00 B	•
Delta A	•
Delta Z	•
36.1 NW	•
37.75 Islands	•
Control Points (3)	
OB 8.48 LDB	•
SO 11.21	
OB 11.79 LDB	•
SO 26.25	

		4/25	A	5/11	A		
		4/25	A	5/11	A		
		4/25	A	5/11	A		
		4/25	A	5/11	A		
		4/25	A	4/3	4/26	5/8	
		4/25	A	4/3	4/26	5/8	
		4/25	A	4/3	4/26	5/8	
		4/25	A	4/3	4/26	5/8	
		4/25	A	5/11	A		
		4/25	A	4/3	4/26	5/8	
		4/25	A	5/11	A		
		4/25	A	5/11	A		
		4/25	A	5/11	A		
		4/25	A	4/3	4/26	5/8	
		4/25	A	5/11	A		
				3/21	3/23	4/5	
		5/1	A	5/11	A		
		E			↩		
		5/1	A	5/11	A		
		E			↩		

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Structure
Structure

• denotes sites with status updates since the last report

E Enbridge / In development
 A In Agency Review
 () Denotes Due Date
 Complete or N/A
 ↩ Revisit Previous Phase

* Trap to remain in Permit. Running model with alternative structure placement

Remediation Progress

Remedial Investigation



Legend

-  RI In Progress 34.69%
-  ROW Access Obtained 45.79%
-  No Progress

Updated: May 14, 2012

Daily Progress Tracking

Personnel / Resources Deployed

	5/16/2012	5/15/2012
Kalamazoo River System	41	40
Containment	11	14
Submerged Oil	44	41
Overbank	8	5
River Opening	1	1
Waste Management	18	18
Security & Flaggers	5	5
Operations Center	42	41
Comm. Centers	4	4
EPA	3	2
EPA Contractors	27	25
Other Agencies	1	1
DEQ	6	6
DEQ Contractors	8	8
TOTAL	219	211

	5/16/2012	5/15/2012
Vac & Tanker Trucks	0	0
Frac Tanks	0	0
Boats**	32	33
Yellow Iron***	6	6
Roll-Off Boxes	4	4
Boom Locations	14	14
Boom in River (ft)	6,225	6,075

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

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

Facility Sites



- 412 CY in cells
- 0 gal water
- 4 Roll offs



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MP 5.25 5/17



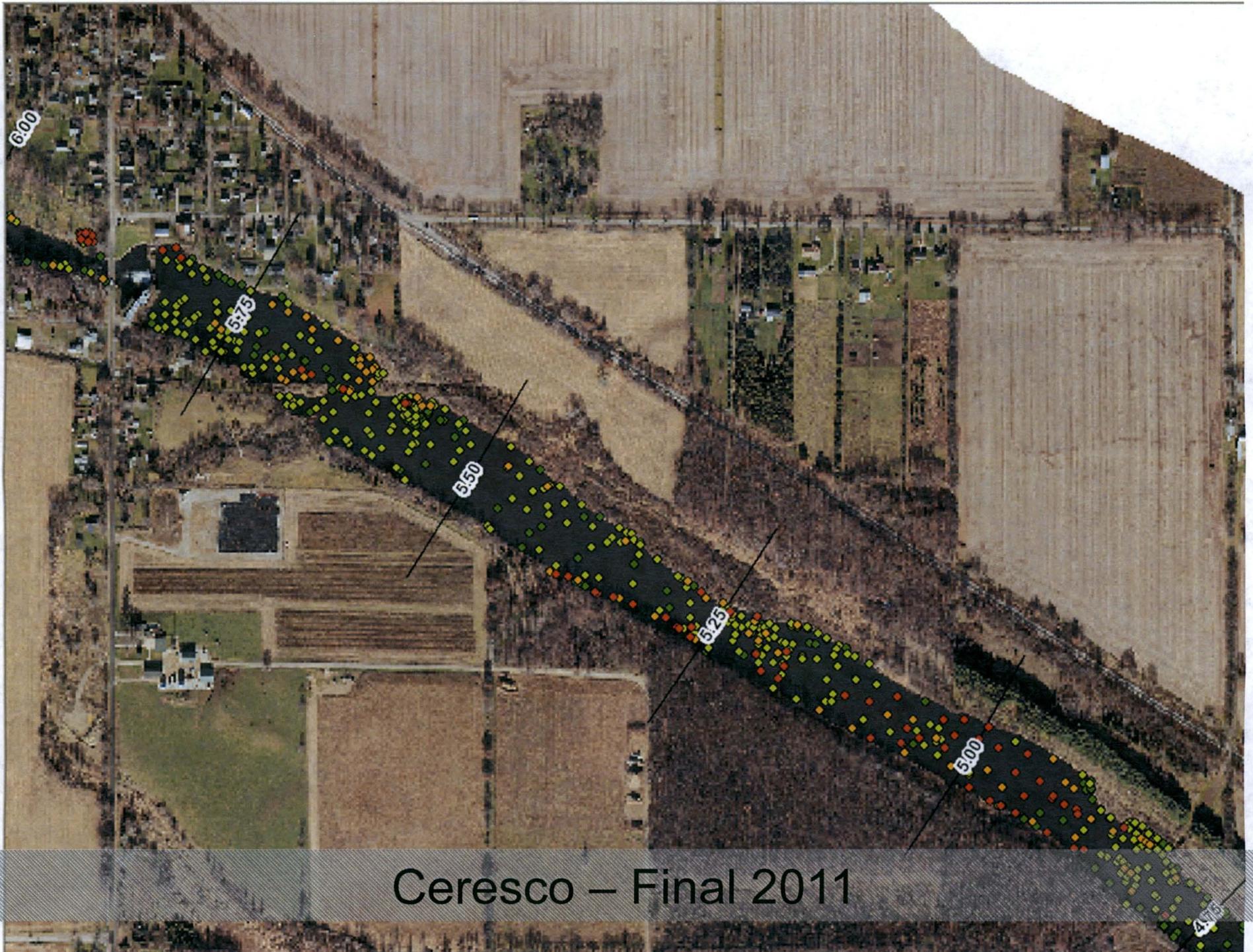
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MP 5.75 5/17



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MP 5.75 5/17



Ceresco - Final 2011



Ceresco – Spring 2012 Reassessment

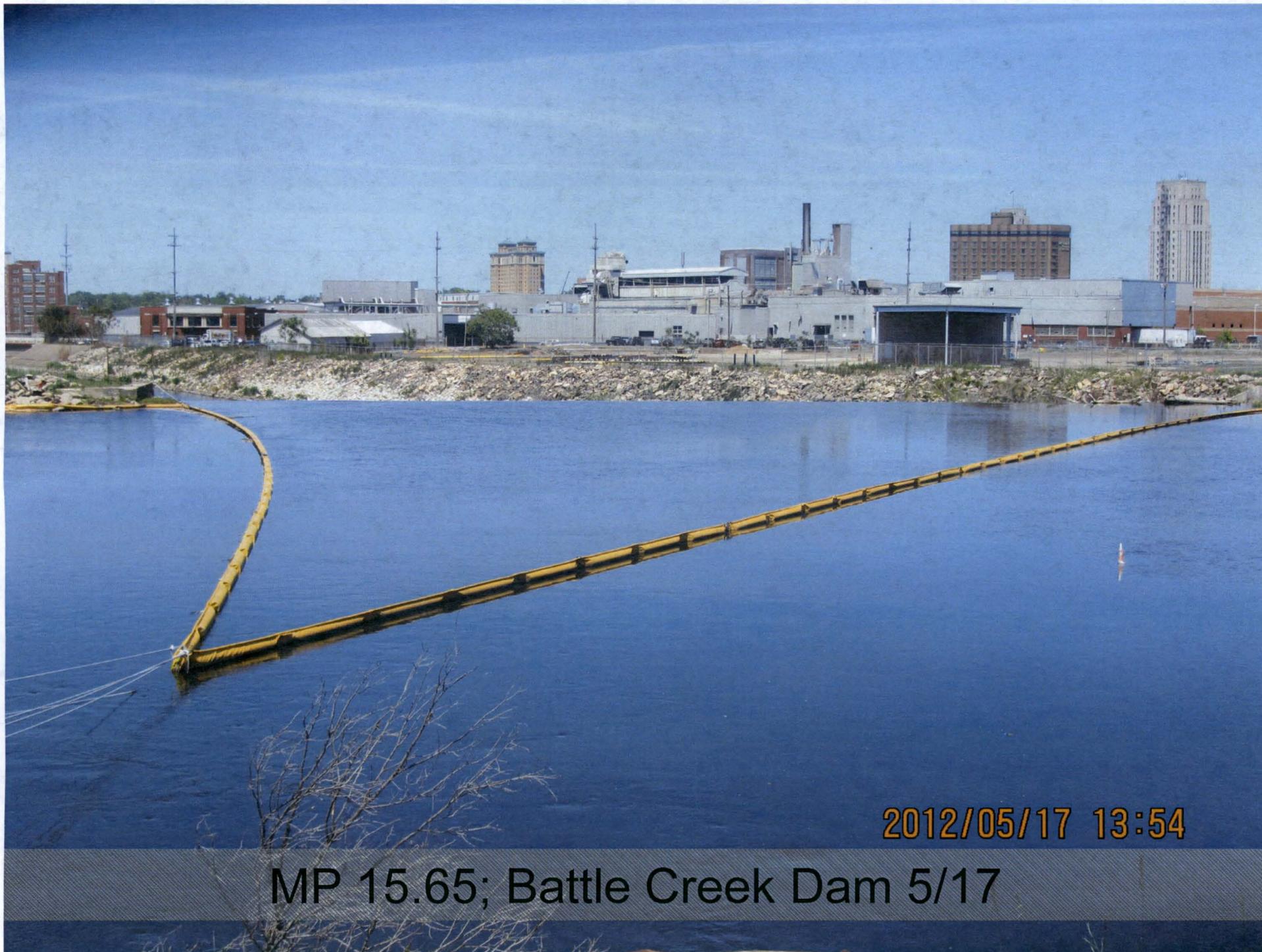


MP 10.75 5/17



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MP 10.75 5/17



2012/05/17 13:54

MP 15.65; Battle Creek Dam 5/17



05/17/2012 13:25

MP 15.65; Battle Creek Dam 5/17



05/17/2012 13:27

MP 15.65; Battle Creek Dam 5/17



2012/05/17 13:26

MP 17.0 LDB; Rock Tenn 5/17



2012/05/17 13:27

MP 17.0 LDB; Rock Tenn 5/17



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MP 17.0 LDB; Rock Tenn 5/17



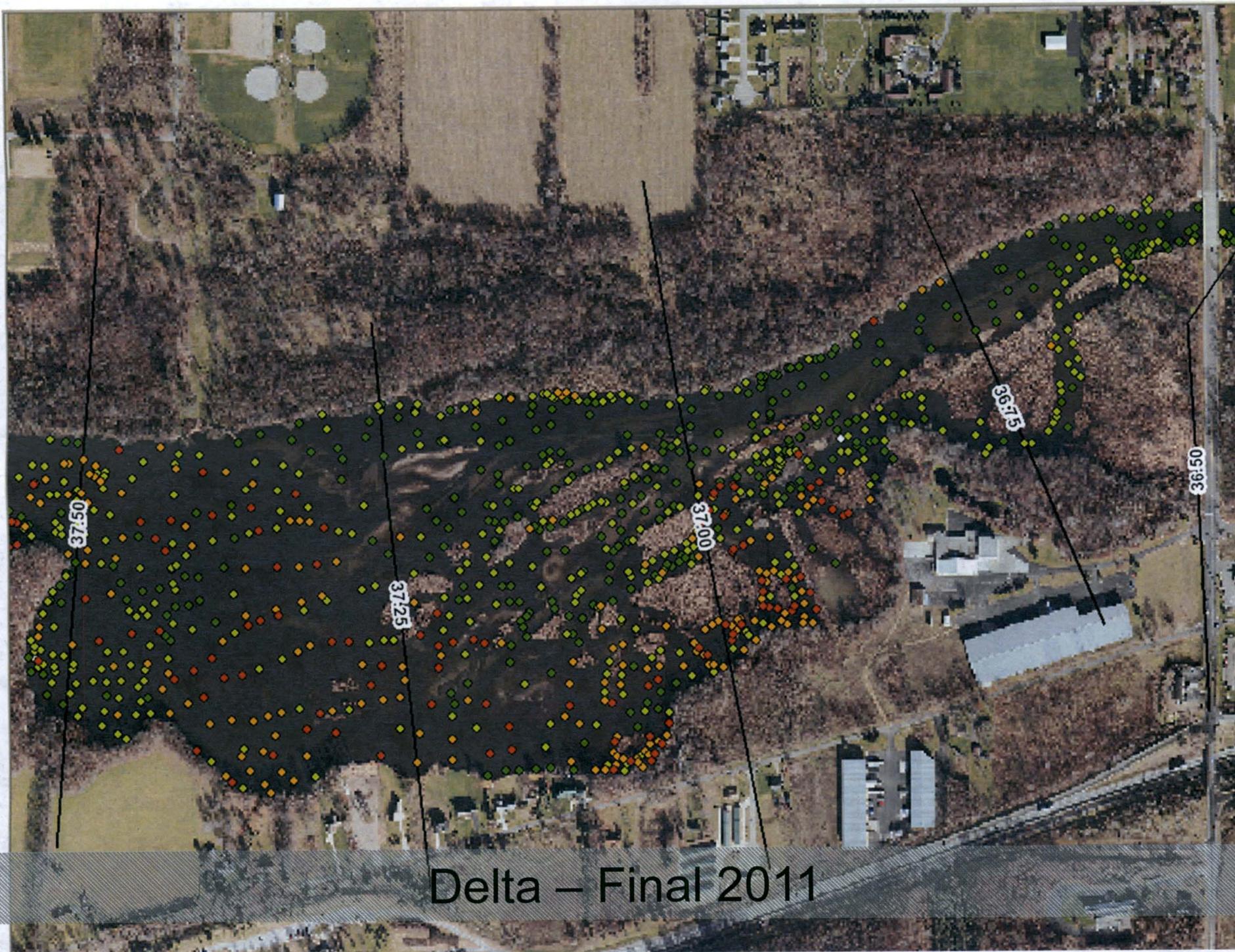
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MP 19.25 5/17

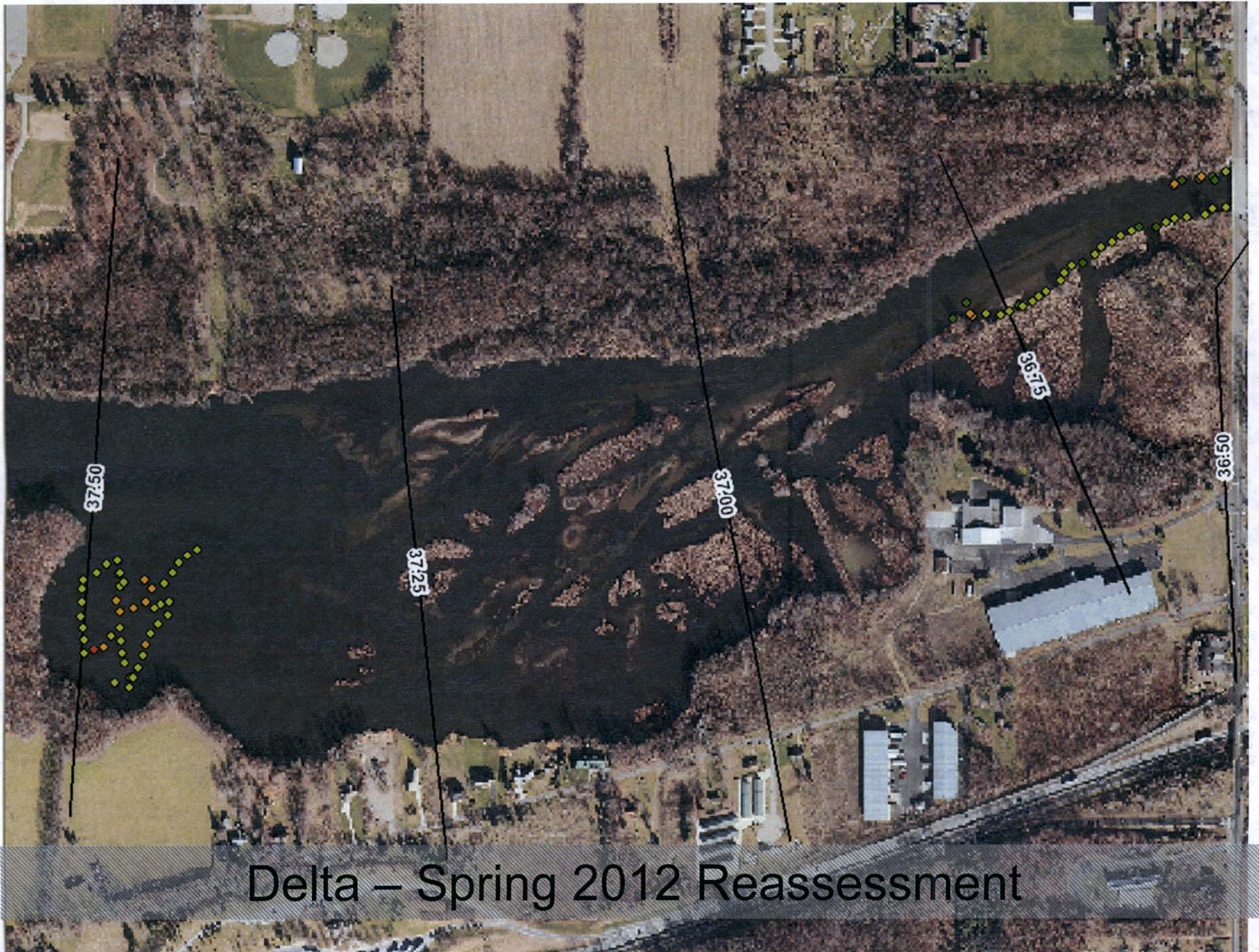


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MP 21.5 5/17



Delta – Final 2011



Delta – Spring 2012 Reassessment



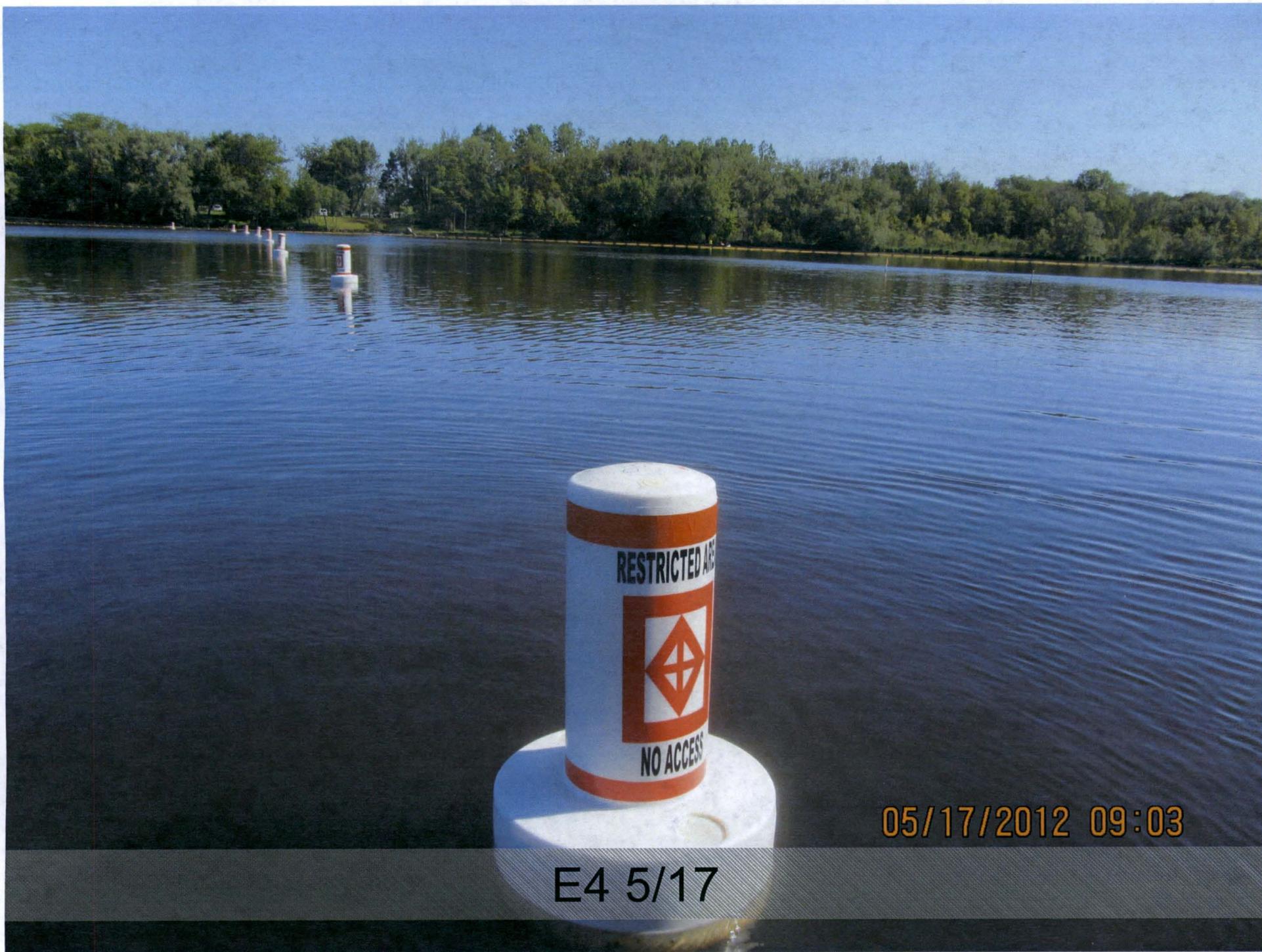
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E4 5/17



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05/17/2012 09:03

E4 5/17



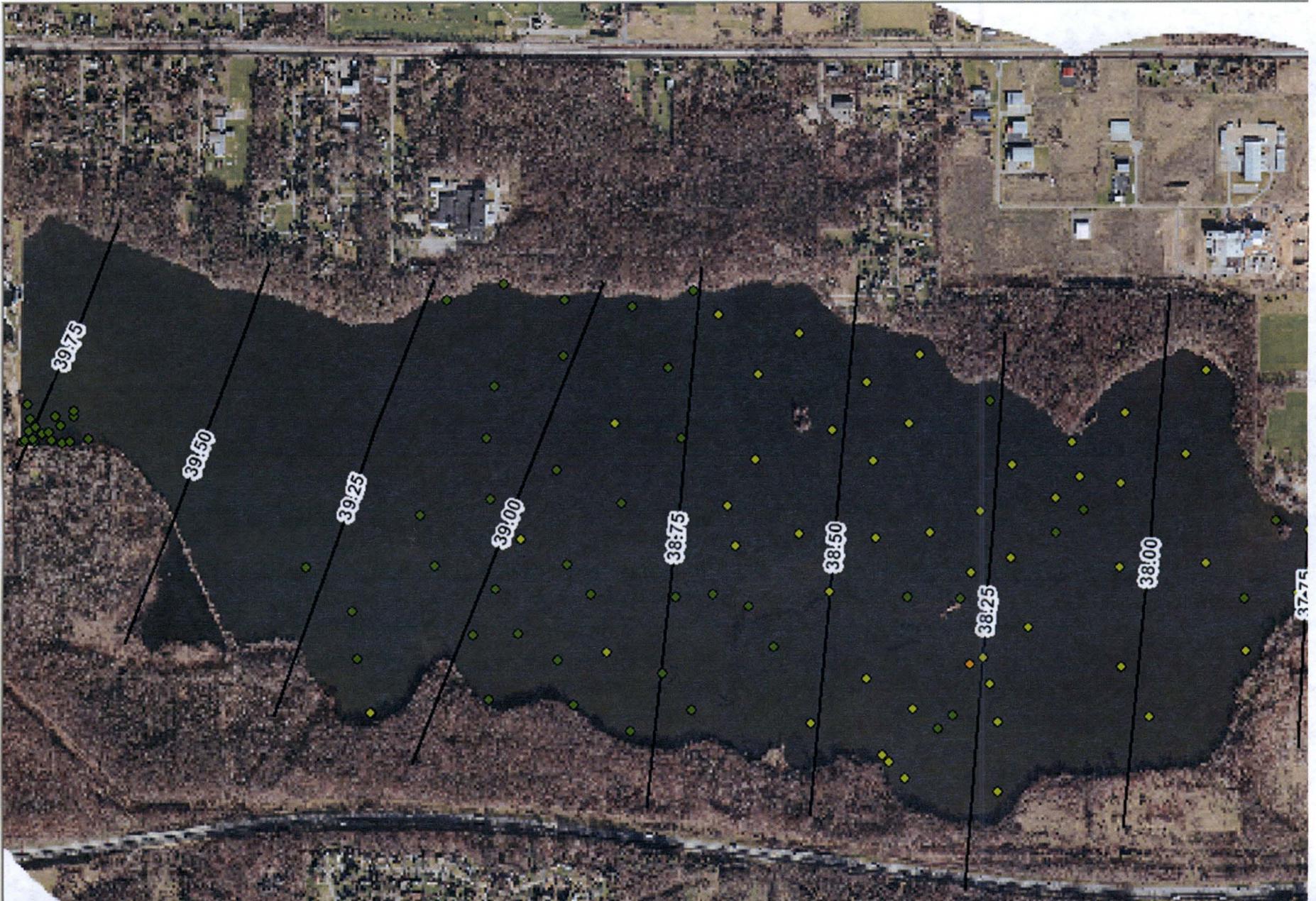
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Morrow Lake 5/17

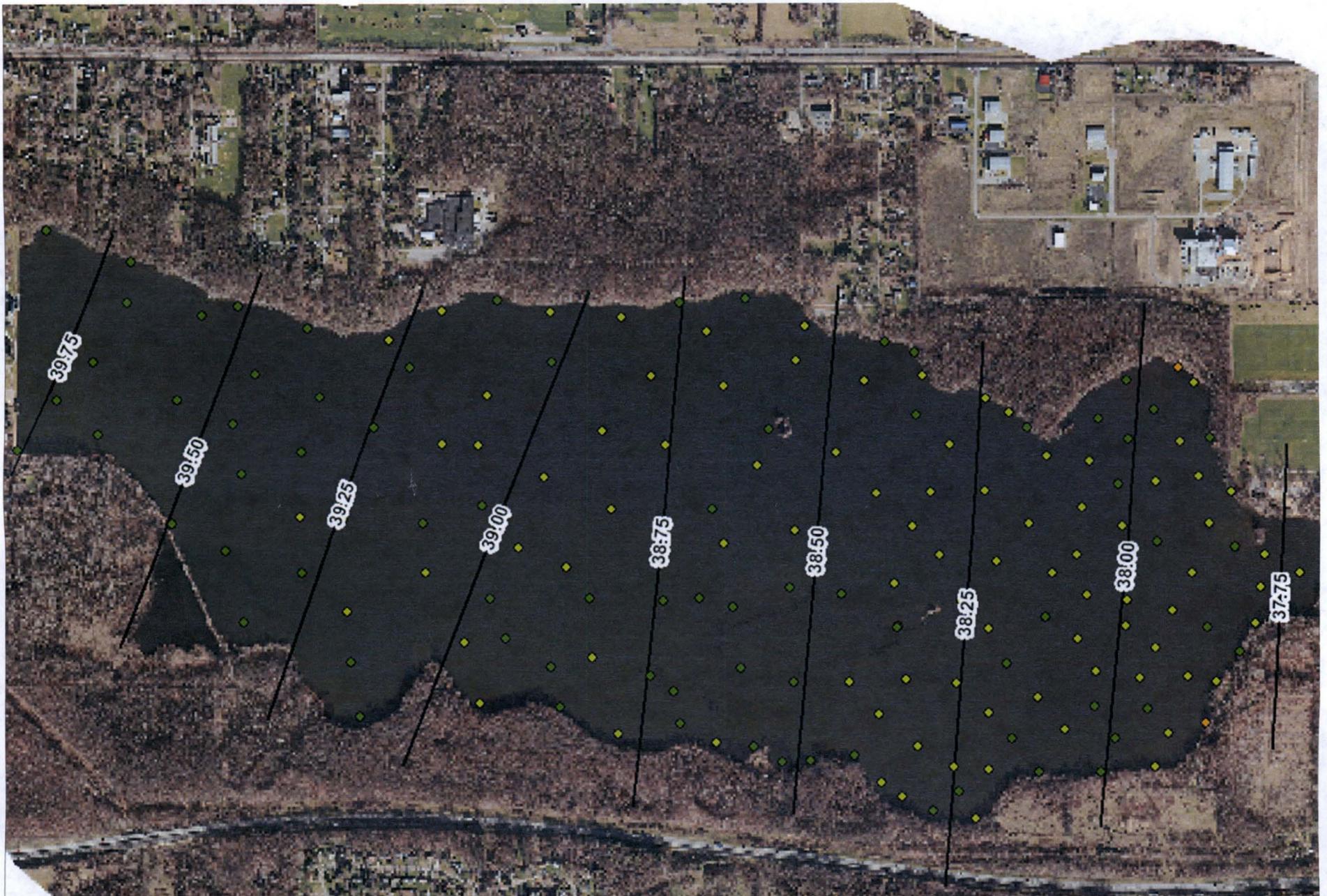


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Morrow Lake 5/17



Morrow Lake – Final 2011



Morrow Lake – Spring 2012 Reassessment

Command & General Staff Updates for UC

- Planning Section
- Logistics Section
- Operations Section
- Safety Officer
- Public Information Officer

Closing Remarks

- Enbridge
- DEQ
- US EPA