

US EPA ARCHIVE DOCUMENT



Spring 2012 Poling Locations	
Sub Oil Category	Spring 2012 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	■ Light
● None	■ None

★	Approximate Release Site
▲	River Quarter Mile Marker

**FOR OFFICIAL
USE ONLY**

300
Feet

Prepared for:
U.S. EPA REGION V
Contract No.: EP-S5-06-04
TDD: S05-0005-1007-030
DCN: 1154-4D-AHMS

Prepared by:
WESTON SOLUTIONS, INC.
2501 Jolly Road, Suite 100
Okemos, MI

**SPRING 2012 POLING REASSESSMENT LOCATIONS
AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

Map 1 of 49



Spring 2012 Poling Locations

Sub Oil Category	Spring 2012 Delineation Boundaries	Approximate Release Site
Heavy	Heavy	Light
Moderate	Moderate	None
Light		
None		

River Quarter Mile Marker

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300 Feet

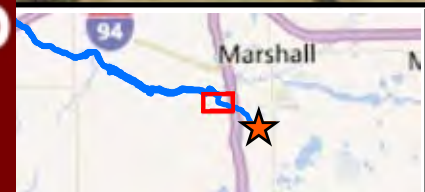
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SPRING 2012 POLING REASSESSMENT LOCATIONS AND 2012 DELINEATION BOUNDARIES MARSHALL, MI PIPELINE RELEASE KALAMAZOO RIVER, MI

CREATED: AUGUST 2012

Map 2 of 49



Spring 2012 Poling Locations

● Heavy	● Moderate	● Light	● None
---------	------------	---------	--------

Spring 2012 Delineation Boundaries

■ Heavy	■ Light
■ Moderate	■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



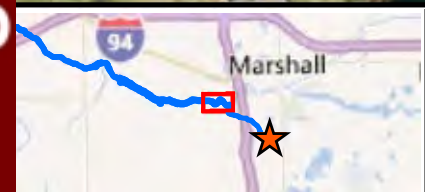
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MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

Map 3 of 49



Spring 2012 Poling Locations

● Heavy	● Moderate	● Light	● None
---------	------------	---------	--------

Spring 2012 Delineation Boundaries

■ Heavy	■ Light
■ Moderate	■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



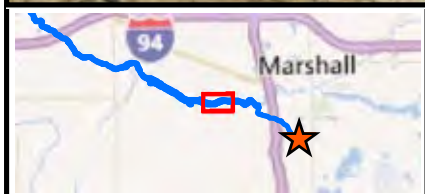
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MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

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Spring 2012 Poling Locations

Sub Oil Category	Spring 2012 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	■ Light
● None	■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

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300

Feet



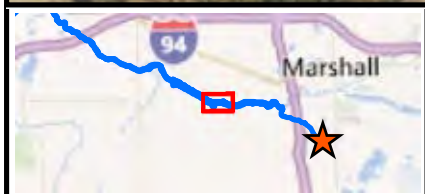
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MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

Map 5 of 49



Spring 2012 Poling Locations

Sub Oil Category

- Heavy
- Moderate
- Light
- None

Spring 2012 Delineation Boundaries

- Heavy
- Moderate
- Light
- None

★ Approximate Release Site

▲ River Quarter Mile Marker

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300

Feet



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KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

Map 6 of 49



Spring 2012 Poling Locations

Sub Oil Category	Spring 2012 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	■ Light
● None	■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



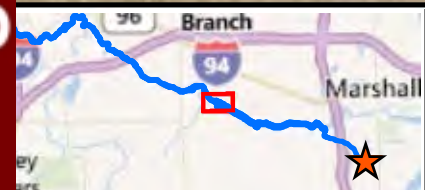
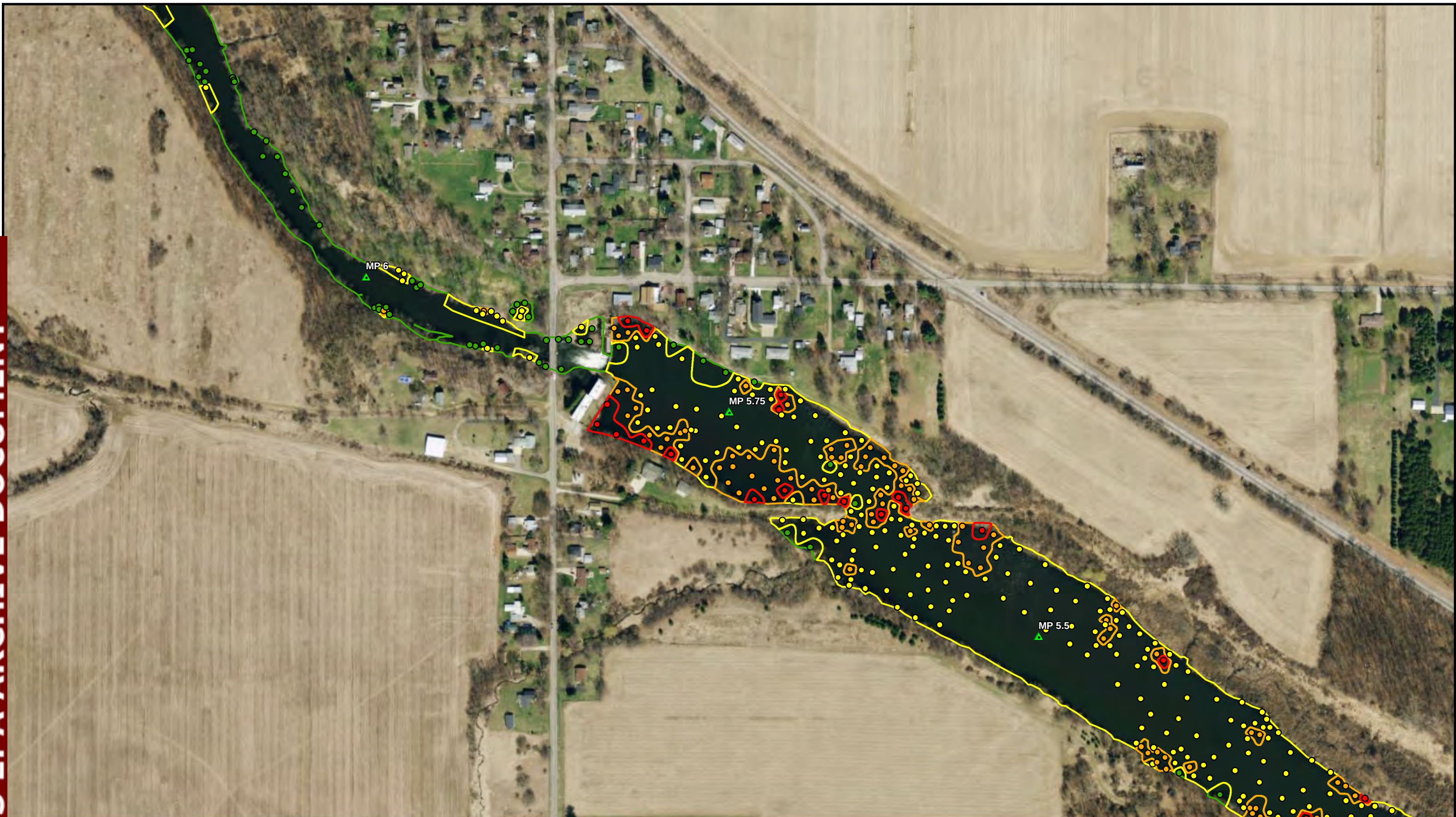
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KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

Map 7 of 49



Spring 2012 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2012 Delineation Boundaries
Heavy
Moderate
Light
None

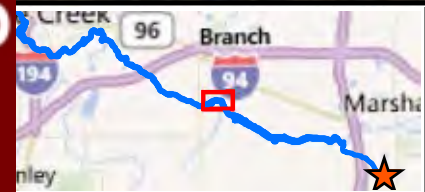
★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet

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MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**
Map 8 of 49



Spring 2012 Poling Locations		Spring 2012 Delineation Boundaries		★	Approximate Release Site
● Heavy	Heavy	Light	Light	▲	River Quarter Mile Marker
● Moderate	Moderate	None	None		
● Light					
● None					

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300



Feet



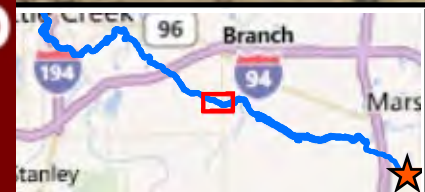
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KALAMAZOO RIVER, MI
CREATED: AUGUST 2012

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Spring 2012 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2012 Delineation Boundaries
Heavy
Moderate
Light
None

★ Approximate Release Site
▲ River Quarter Mile Marker

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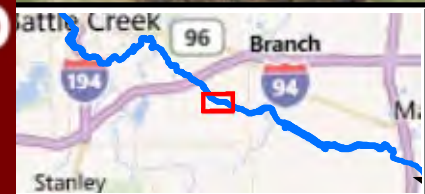
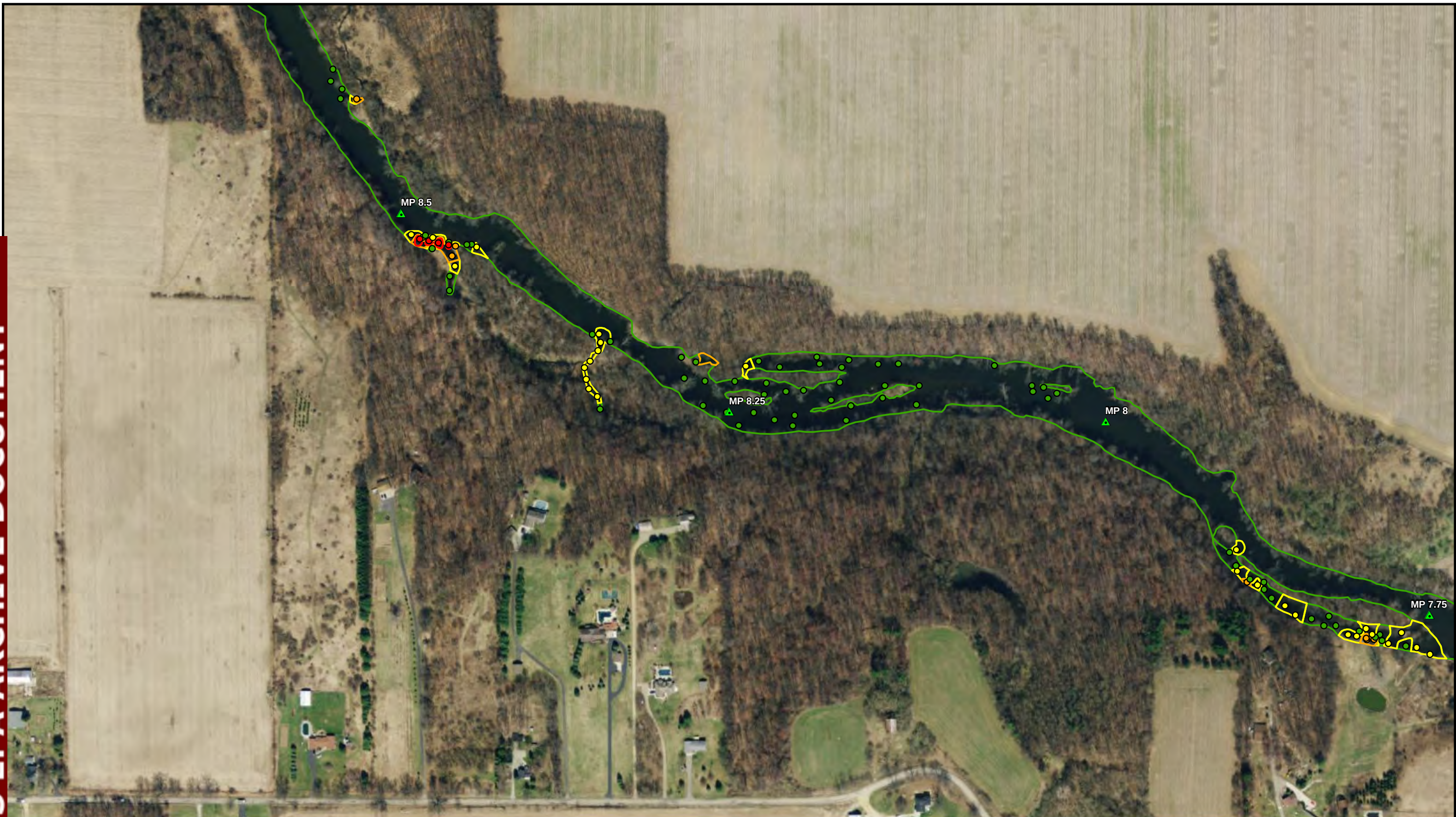
300
Feet

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CREATED: AUGUST 2012**

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Spring 2012 Poling Locations
Sub Oil Category

● Heavy	Spring 2012 Delineation Boundaries
● Moderate	Heavy
● Light	Moderate
● None	Light
	None

★ Approximate Release Site
▲ River Quarter Mile Marker

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300



Feet



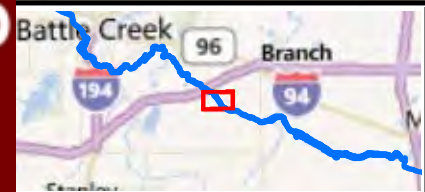
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CREATED: AUGUST 2012**

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Spring 2012 Poling Locations	
Sub Oil Category	Spring 2012 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	■ Light
● None	■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

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300

Feet



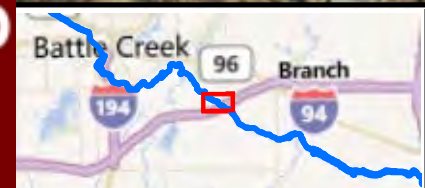
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KALAMAZOO RIVER, MI
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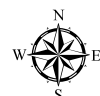
Spring 2012 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2012 Delineation Boundaries
■ Heavy
■ Moderate
■ Light
■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

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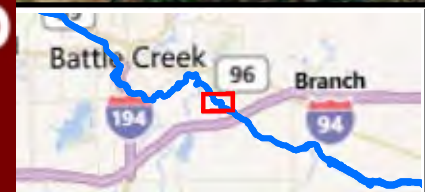


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KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**



Spring 2012 Poling Locations	
● Heavy	● Moderate
● Light	● None

Spring 2012 Delineation Boundaries	
■ Heavy	■ Light
■ Moderate	■ None

★ Approximate Release Site

▲ River Quarter Mile Marker

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300
Feet



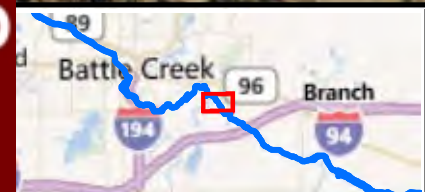
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KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

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Spring 2012 Poling Locations	
Sub Oil Category	Spring 2012 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	■ Light
● None	■ None
★ Approximate Release Site	
▲ River Quarter Mile Marker	

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300



Feet



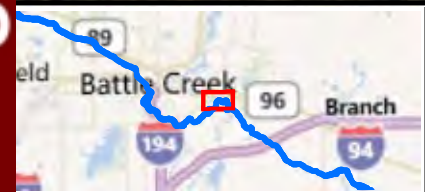
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MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012

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Spring 2012 Poling Locations	
● Heavy	● Spring 2012 Delineation Boundaries
● Moderate	● Heavy
● Light	● Moderate
● None	● Light
	● None
★ Approximate Release Site	▲ River Quarter Mile Marker

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300
Feet

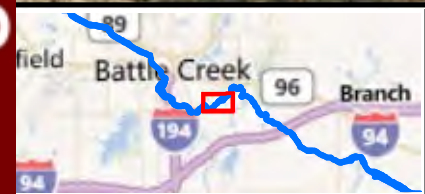


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KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**



Spring 2012 Poling Locations	
● Heavy	● Moderate
● Light	● None
Spring 2012 Delineation Boundaries	
■ Heavy	■ Light
■ Moderate	■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



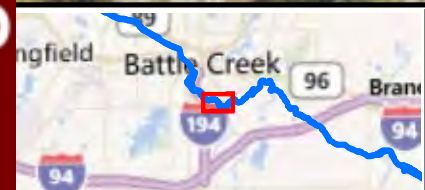
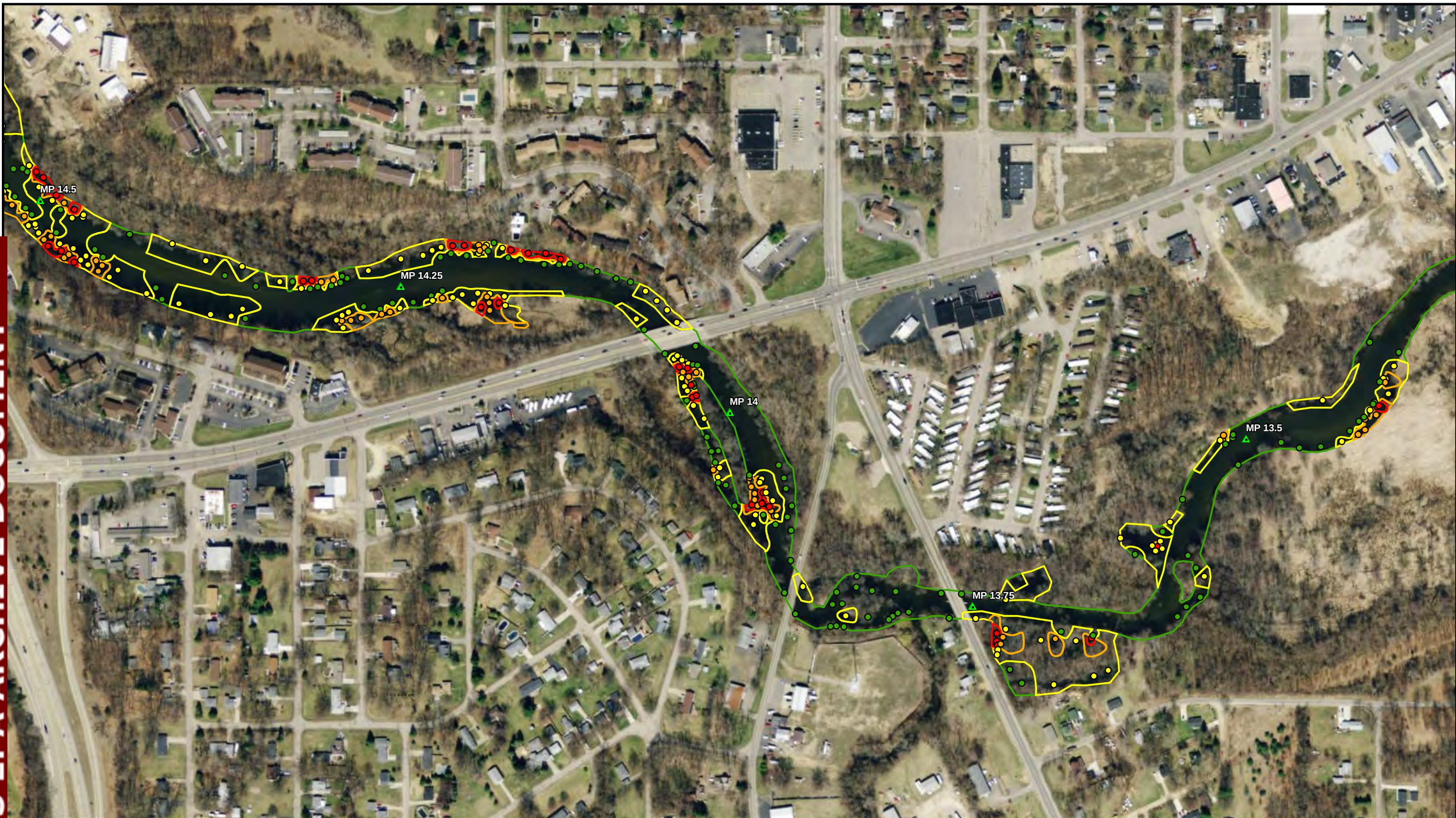
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KALAMAZOO RIVER, MI
CREATED: AUGUST 2012

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Spring 2012 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2012 Delineation Boundaries
Heavy
Moderate
Light
None

★ Approximate Release Site
▲ River Quarter Mile Marker

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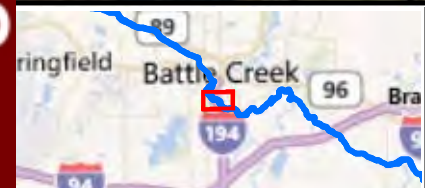
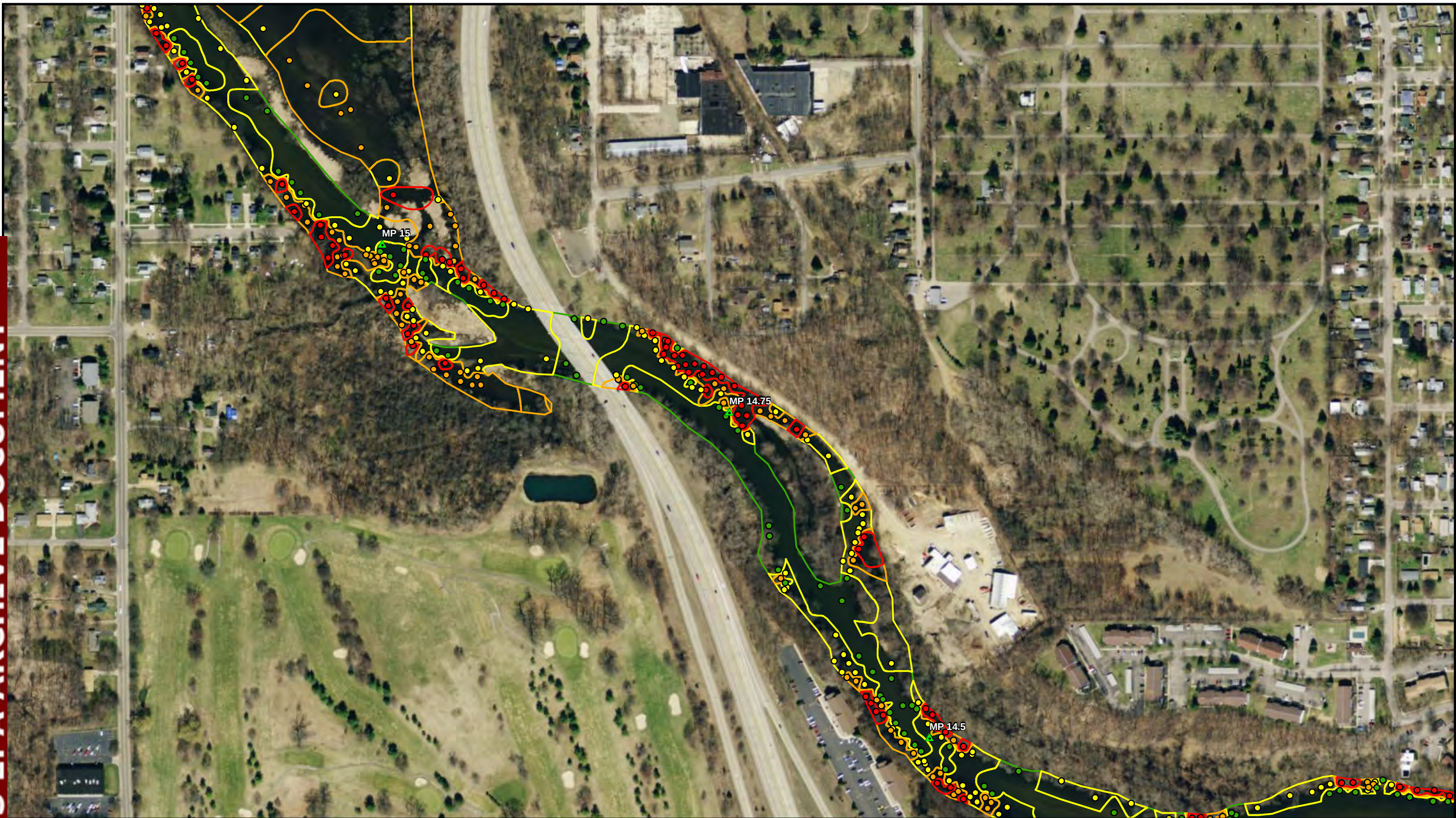
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KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

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Spring 2012 Poling Locations
Sub Oil Category

- Heavy
- Moderate
- Light
- None

Spring 2012 Delineation Boundaries

- Heavy
- Moderate
- Light
- None

★ Approximate Release Site
▲ River Quarter Mile Marker

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300



Feet



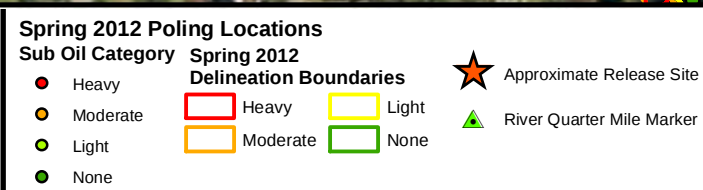
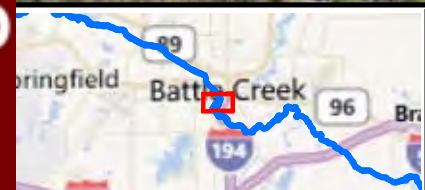
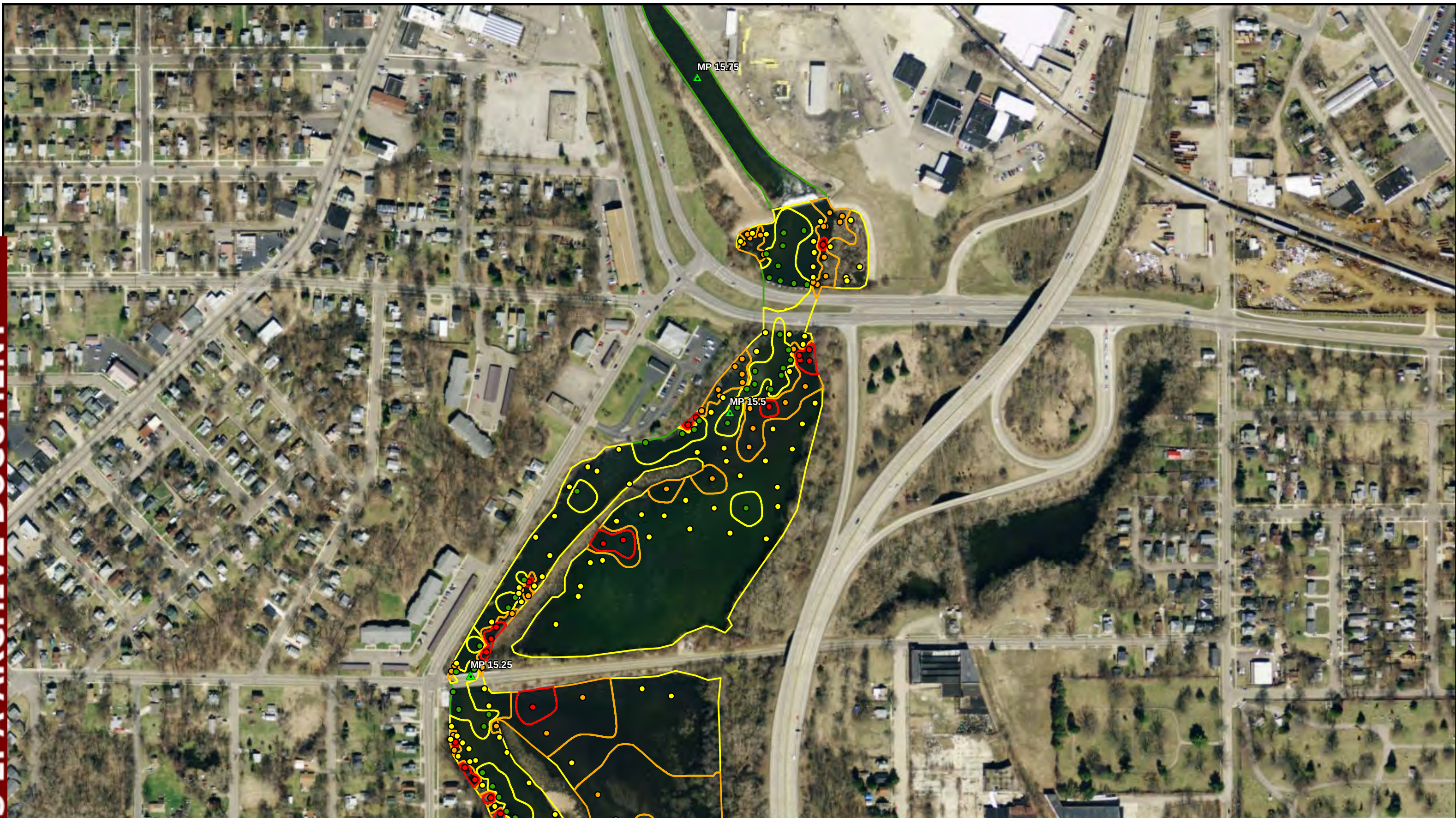
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300

Feet



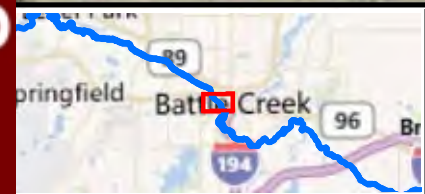
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Spring 2012 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2012 Delineation Boundaries
■ Heavy
■ Moderate
■ Light
■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

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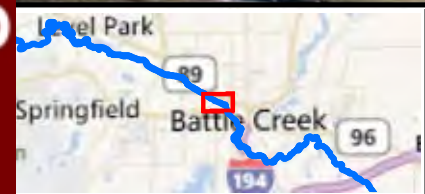
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Spring 2012 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2012 Delineation Boundaries
■ Heavy
■ Moderate
■ Light
■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

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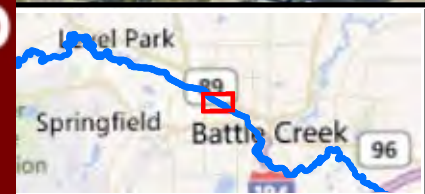
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CREATED: AUGUST 2012**

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Spring 2012 Poling Locations
Sub Oil Category

● Heavy	● Moderate	● Light	● None
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Spring 2012 Delineation Boundaries

■ Heavy	■ Light
■ Moderate	■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

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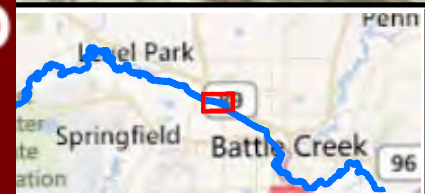
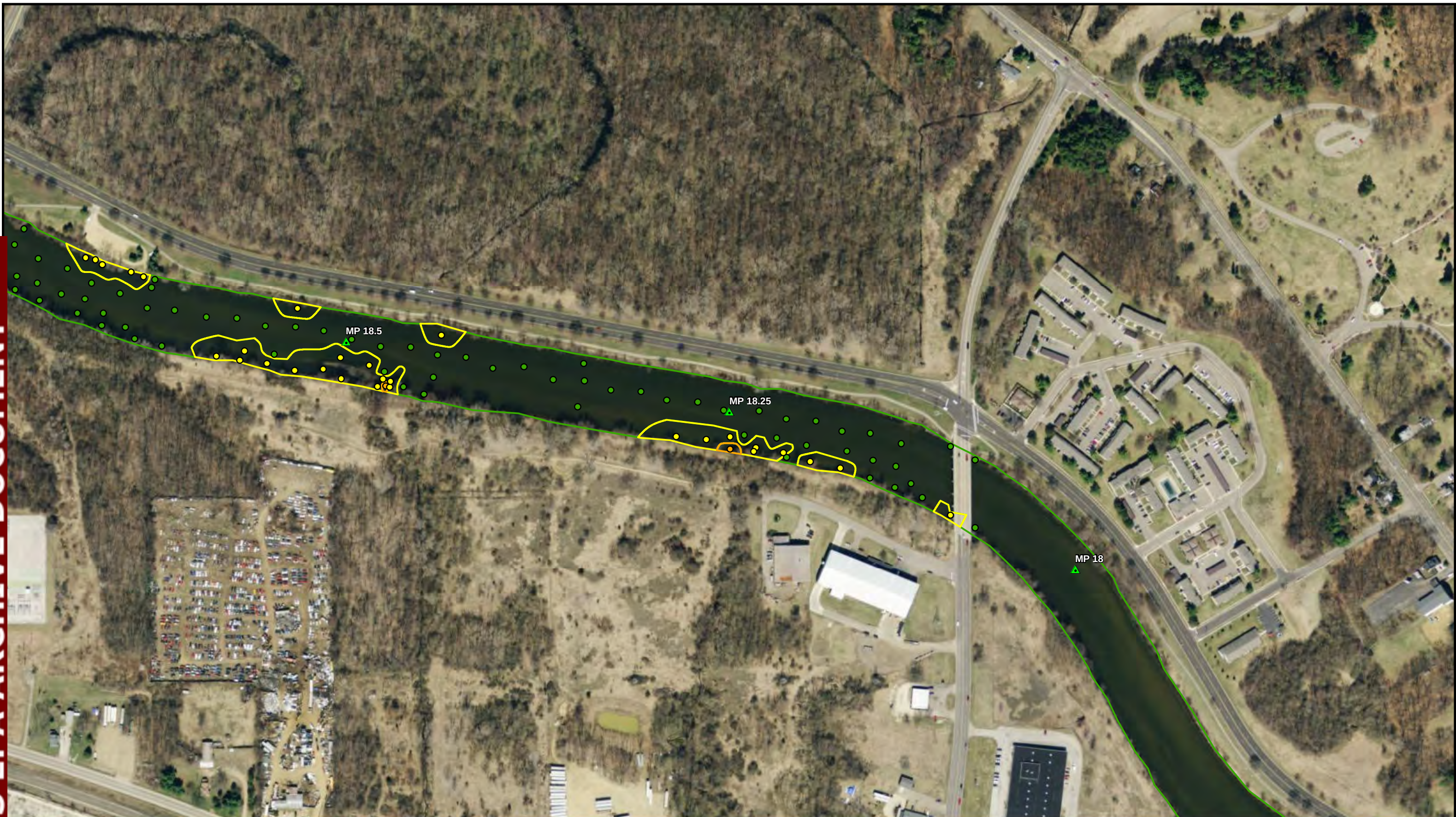
300 Feet

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CREATED: AUGUST 2012

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Spring 2012 Poling Locations

Sub Oil Category

- Heavy
- Moderate
- Light
- None

Spring 2012 Delineation Boundaries

- Heavy
- Moderate
- Light
- None

★ Approximate Release Site

▲ River Quarter Mile Marker

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300
Feet



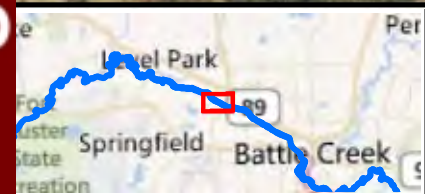
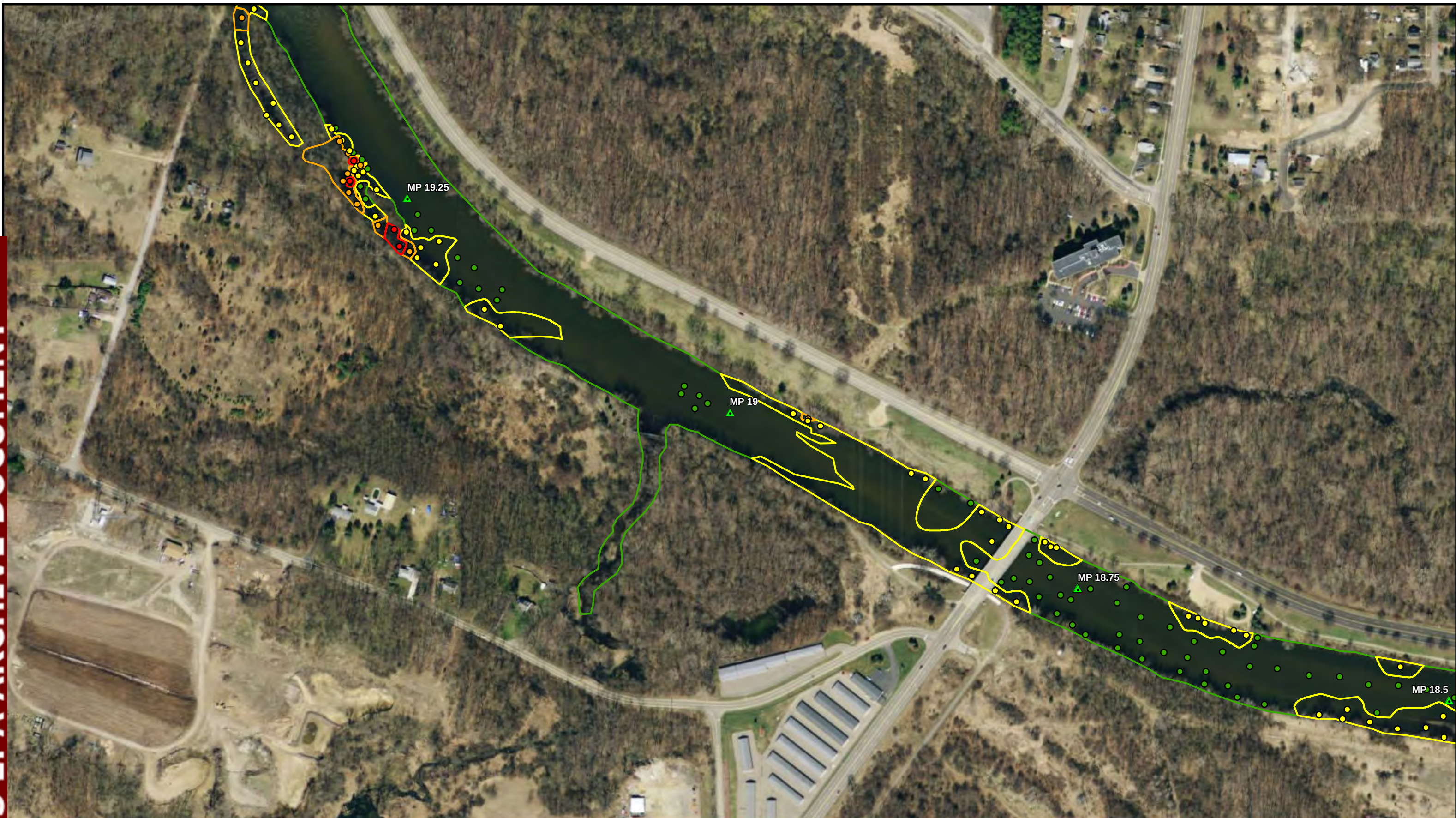
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DCN: 1154-4D-AHMS



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WESTON SOLUTIONS, INC.
2501 Jolly Road, Suite 100
Okemos, MI

**SPRING 2012 POLING REASSESSMENT LOCATIONS
AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

Map 24 of 49



Spring 2012 Poling Locations

Sub Oil Category

- Heavy
- Moderate
- Light
- None

Spring 2012 Delineation Boundaries

- Heavy
- Moderate
- Light
- None

★ Approximate Release Site

▲ River Quarter Mile Marker

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300



Feet



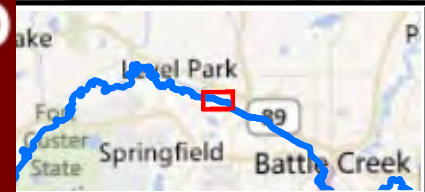
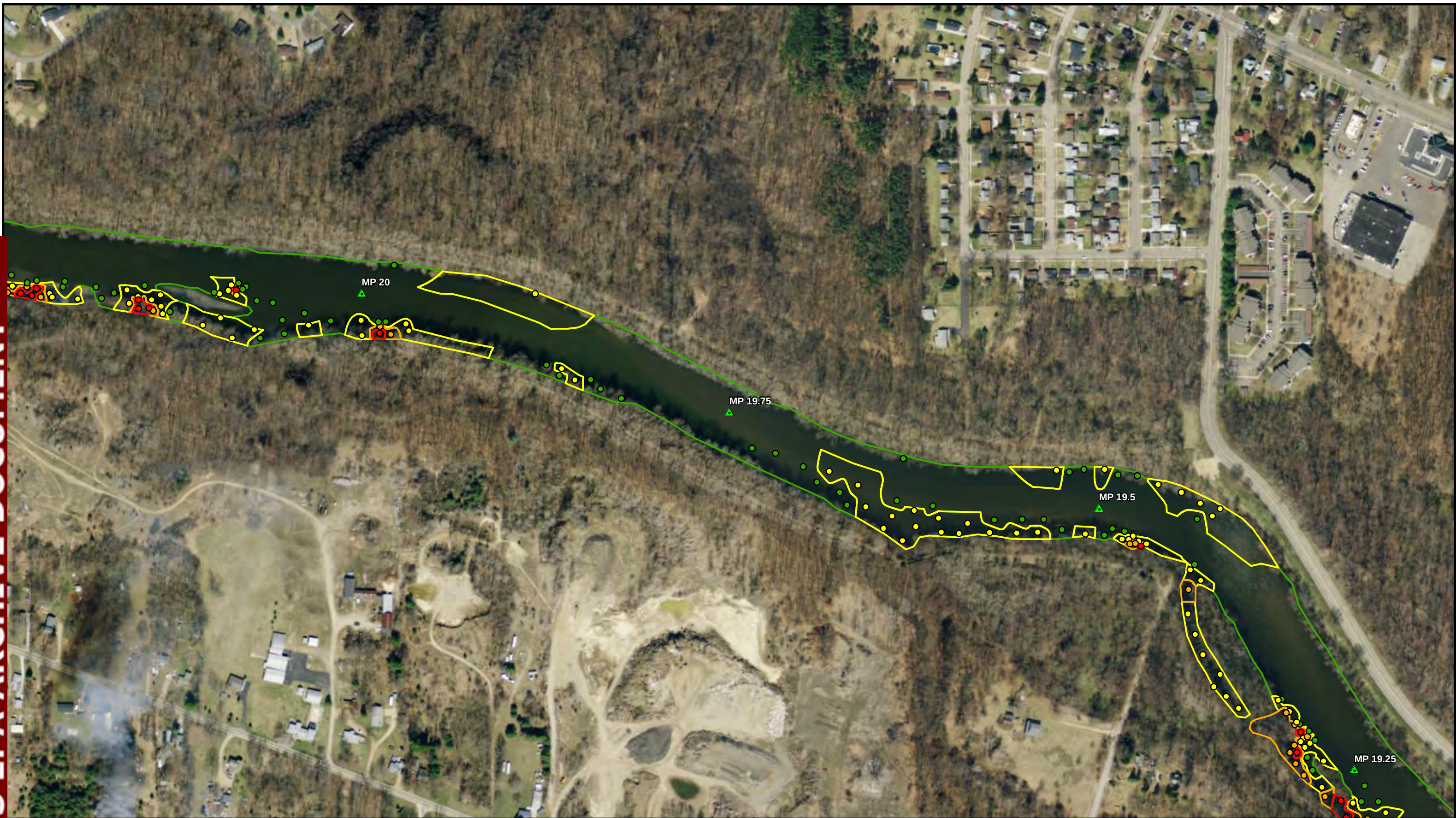
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2501 Jolly Road, Suite 100
Okemos, MI

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AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

Map 25 of 49



Spring 2012 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2012 Delineation Boundaries
■ Heavy
■ Moderate
■ Light
■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

**FOR OFFICIAL
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300



Feet



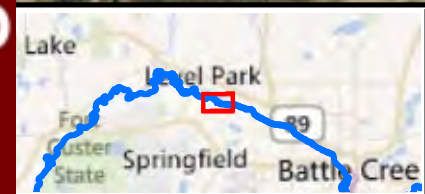
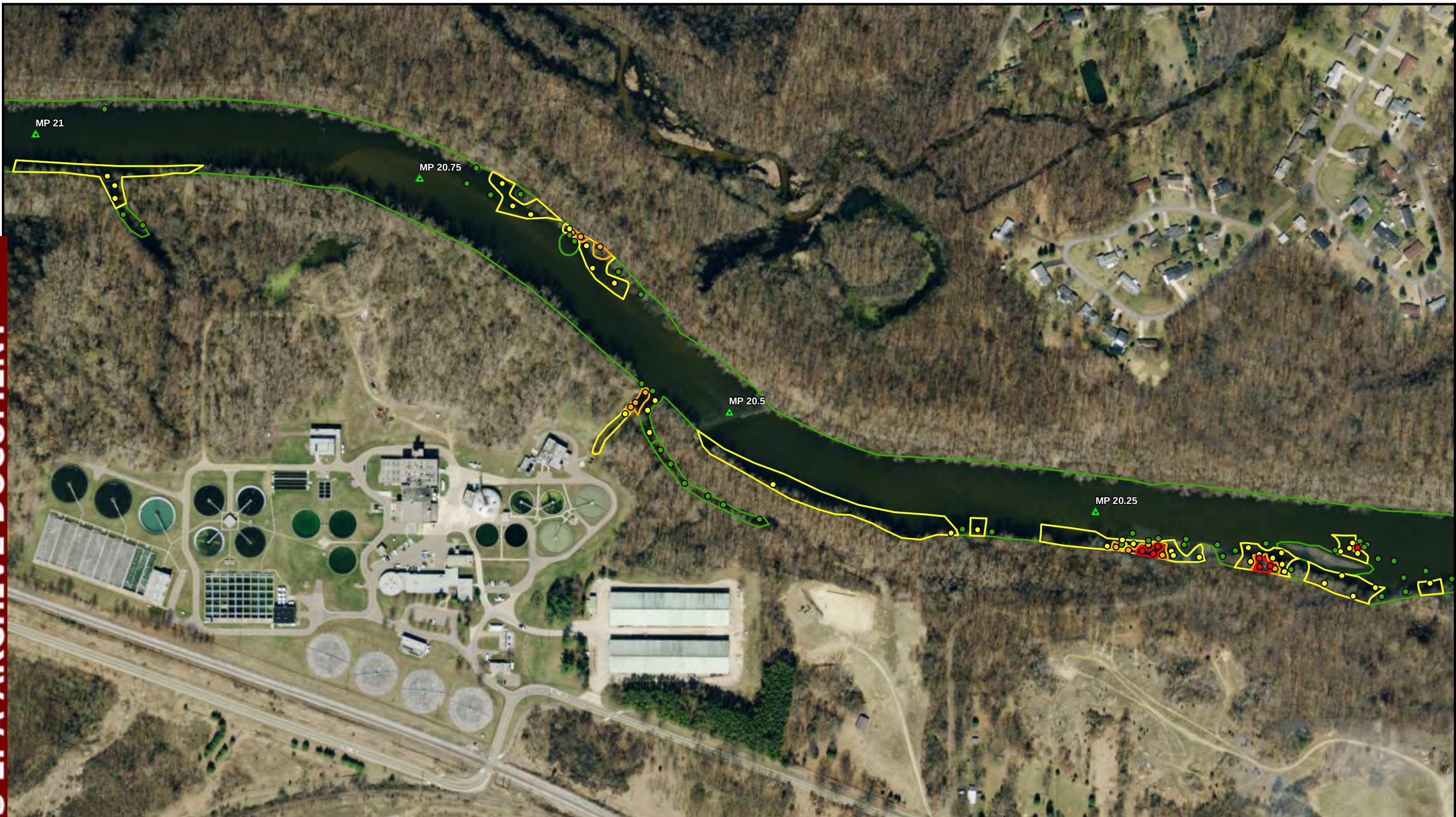
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2501 Jolly Road, Suite 100
Okemos, MI

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MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

Map 26 of 49



Spring 2012 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2012 Delineation Boundaries
Heavy
Moderate
Light
None

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet

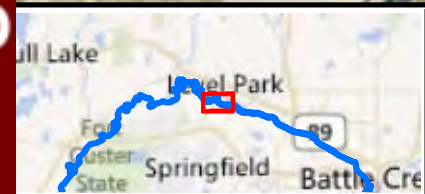
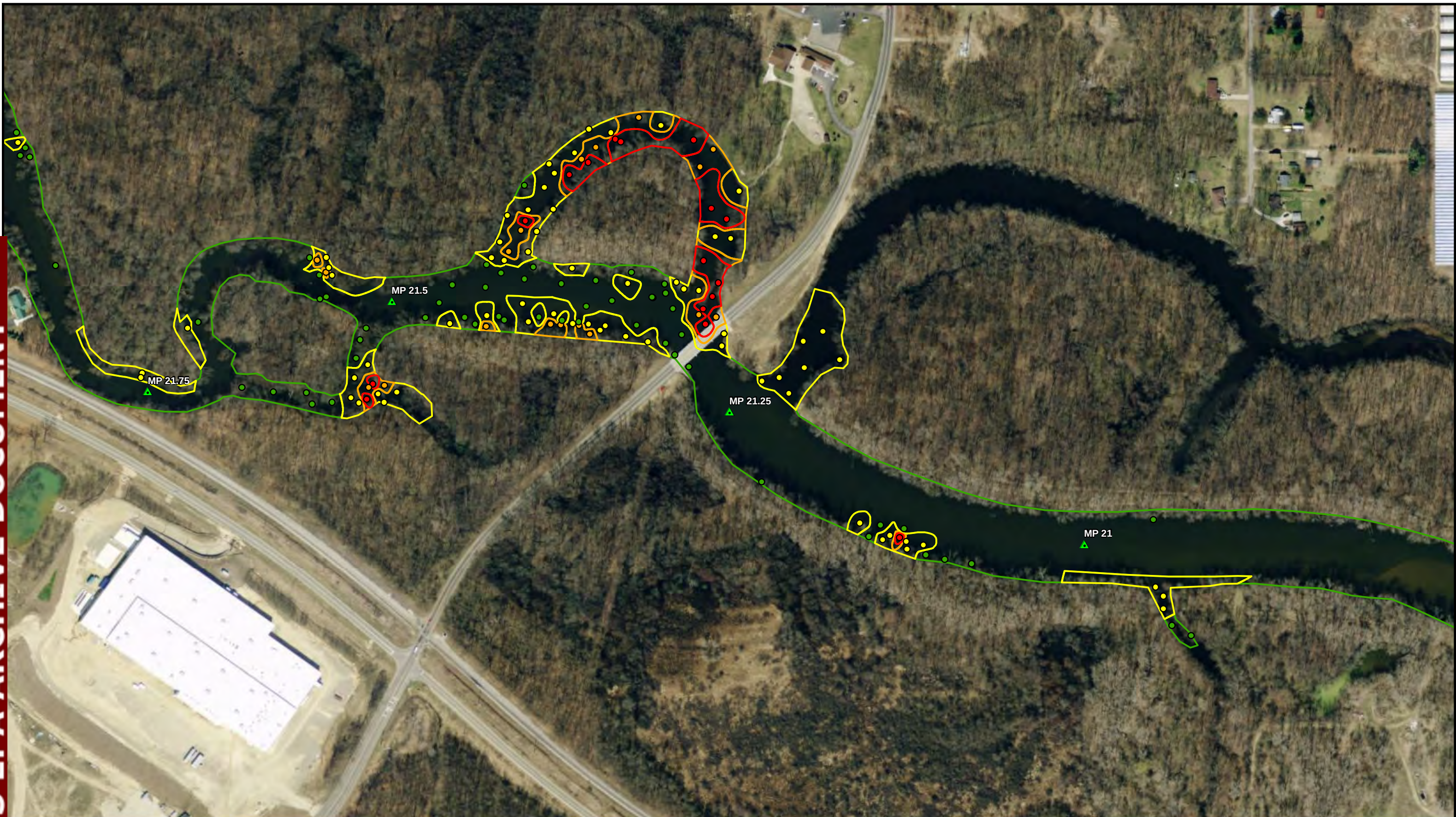


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Okemos, MI

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AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**



Spring 2012 Poling Locations

Sub Oil Category

- Heavy
- Moderate
- Light
- None

Spring 2012 Delineation Boundaries

- Heavy
- Moderate
- Light
- None

★ Approximate Release Site

▲ River Quarter Mile Marker

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300
Feet

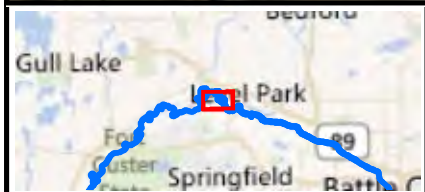
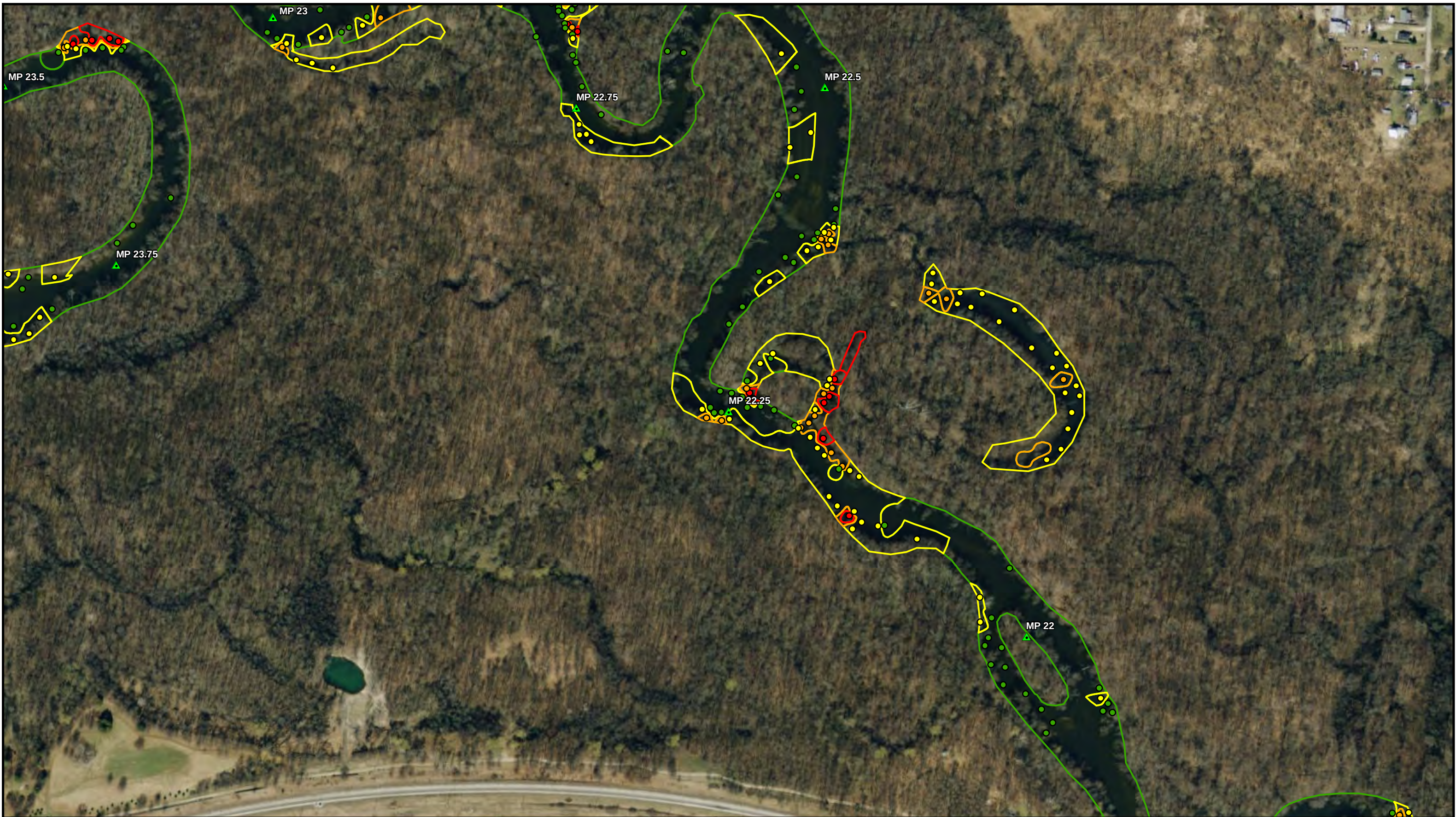


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AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**



Spring 2012 Poling Locations	
Sub Oil Category	Spring 2012 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	■ Light
● None	■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



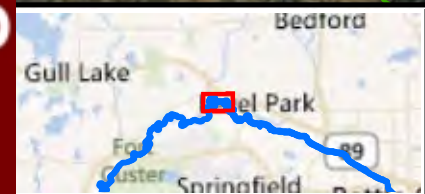
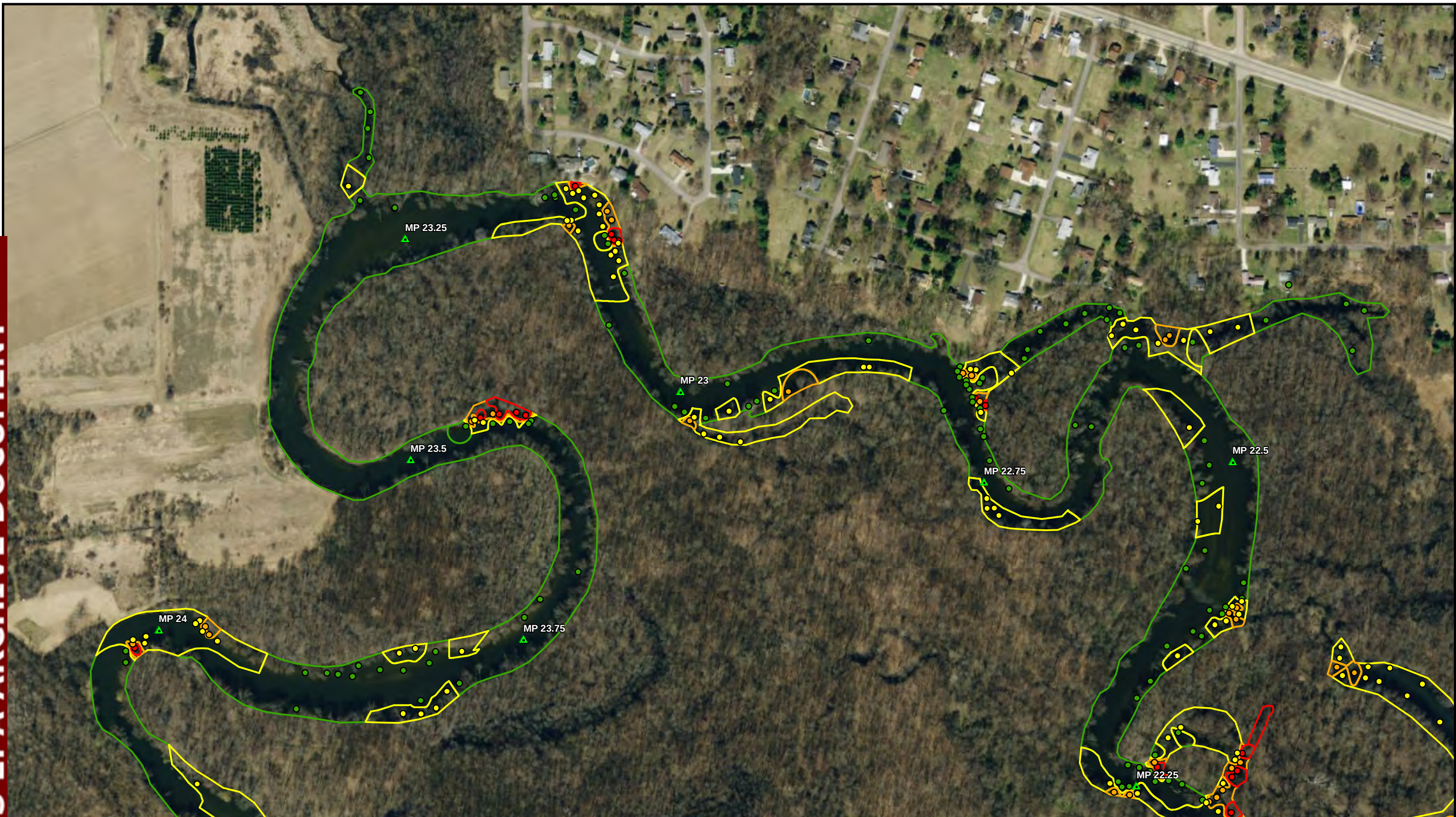
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AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

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Spring 2012 Poling Locations

Sub Oil Category

- Heavy
- Moderate
- Light
- None

Spring 2012 Delineation Boundaries

- Heavy
- Moderate
- Light
- None

★ Approximate Release Site

▲ River Quarter Mile Marker

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300



Feet



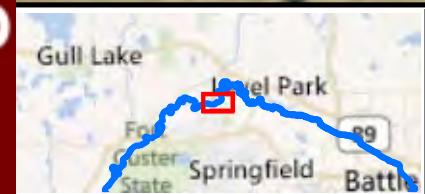
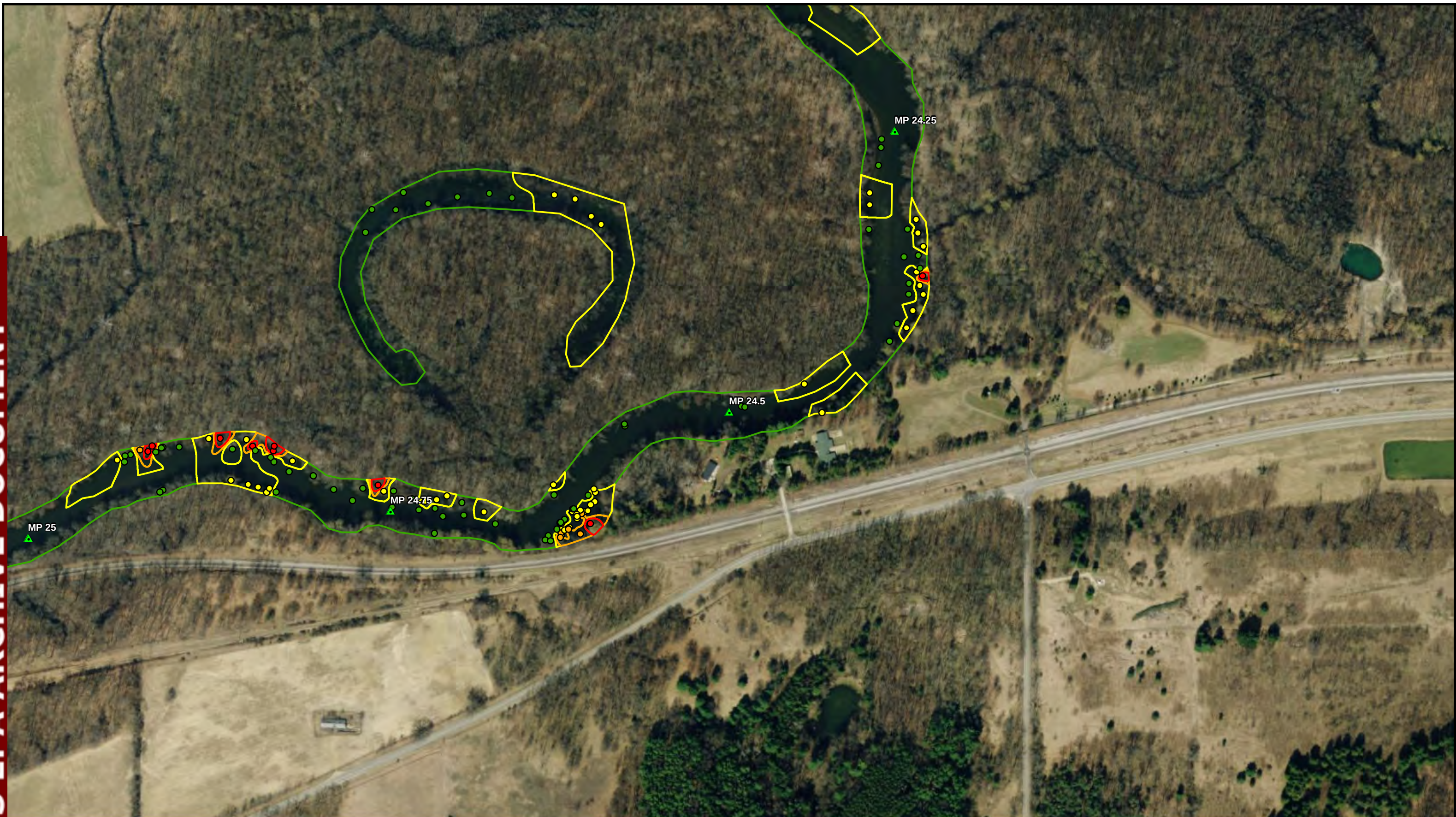
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Okemos, MI

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AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

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Spring 2012 Poling Locations

Sub Oil Category

- Heavy
- Moderate
- Light
- None

Spring 2012 Delineation Boundaries

- Heavy
- Moderate
- Light
- None

★ Approximate Release Site

▲ River Quarter Mile Marker

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300

Feet



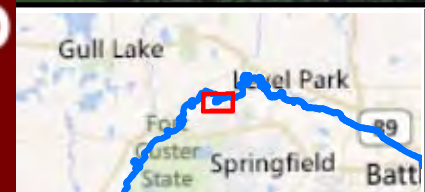
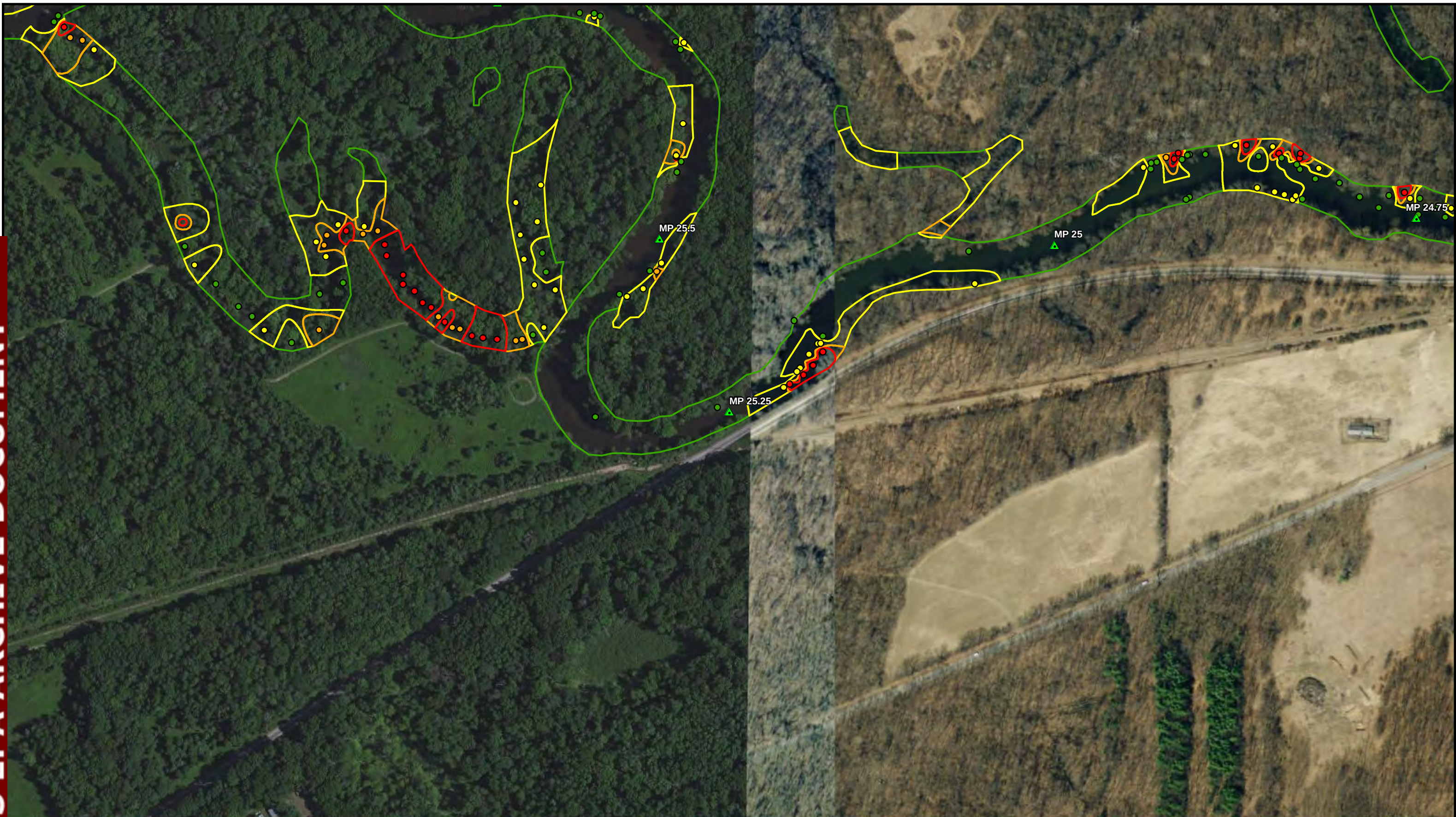
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AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

Map 31 of 49



Spring 2012 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2012 Delineation Boundaries
■ Heavy
■ Moderate
■ Light
■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

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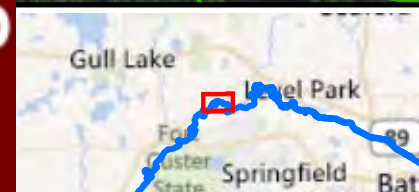
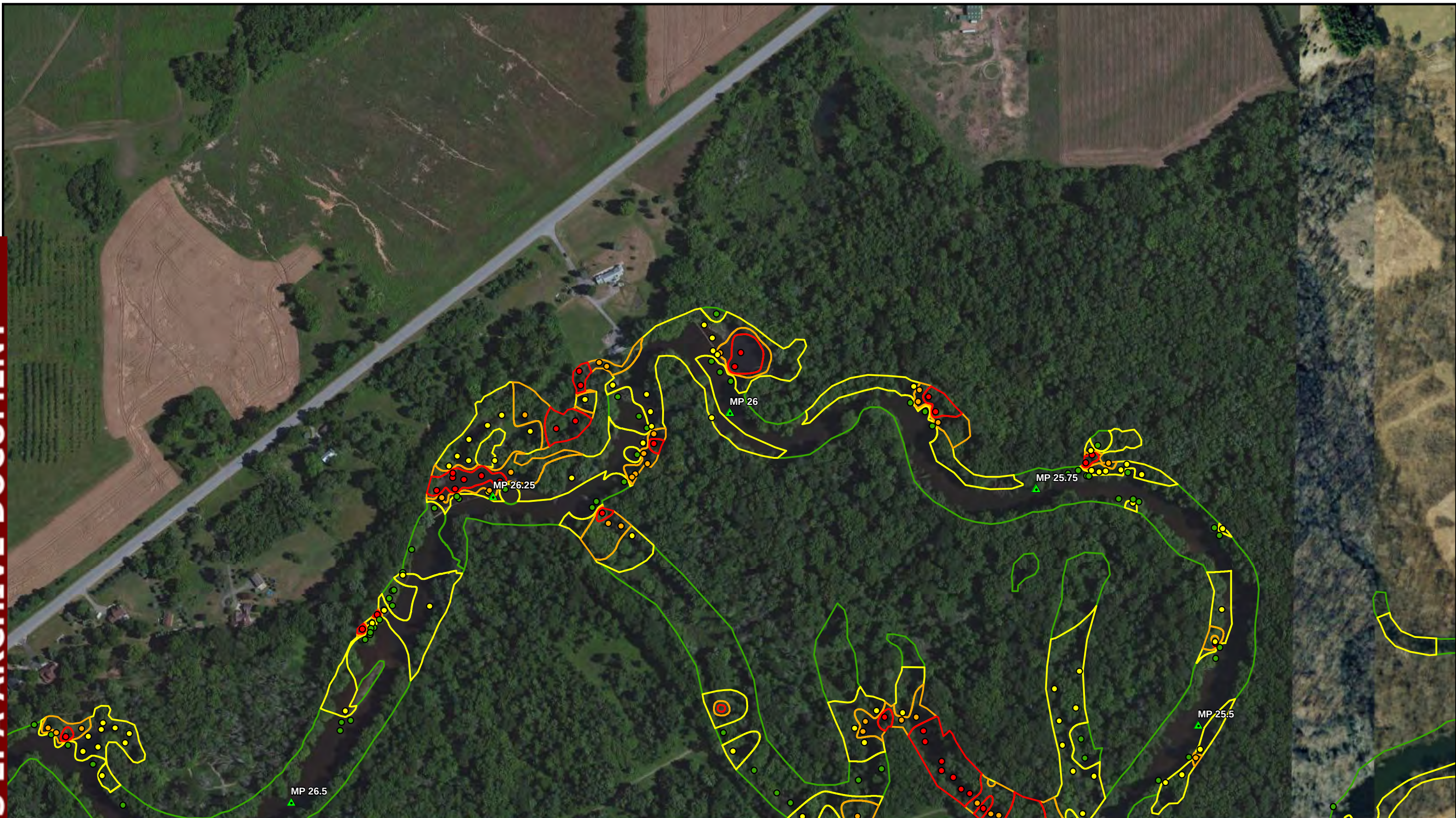
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Feet

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Okemos, MI

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AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

Map 32 of 49



Spring 2012 Poling Locations

Sub Oil Category

- Heavy
- Moderate
- Light
- None

Spring 2012 Delineation Boundaries

- Heavy
- Moderate
- Light
- None

★ Approximate Release Site

▲ River Quarter Mile Marker

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300 Feet

North Arrow

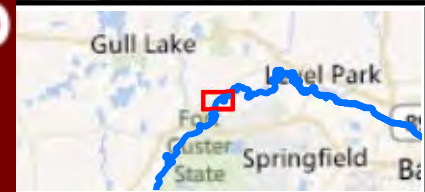
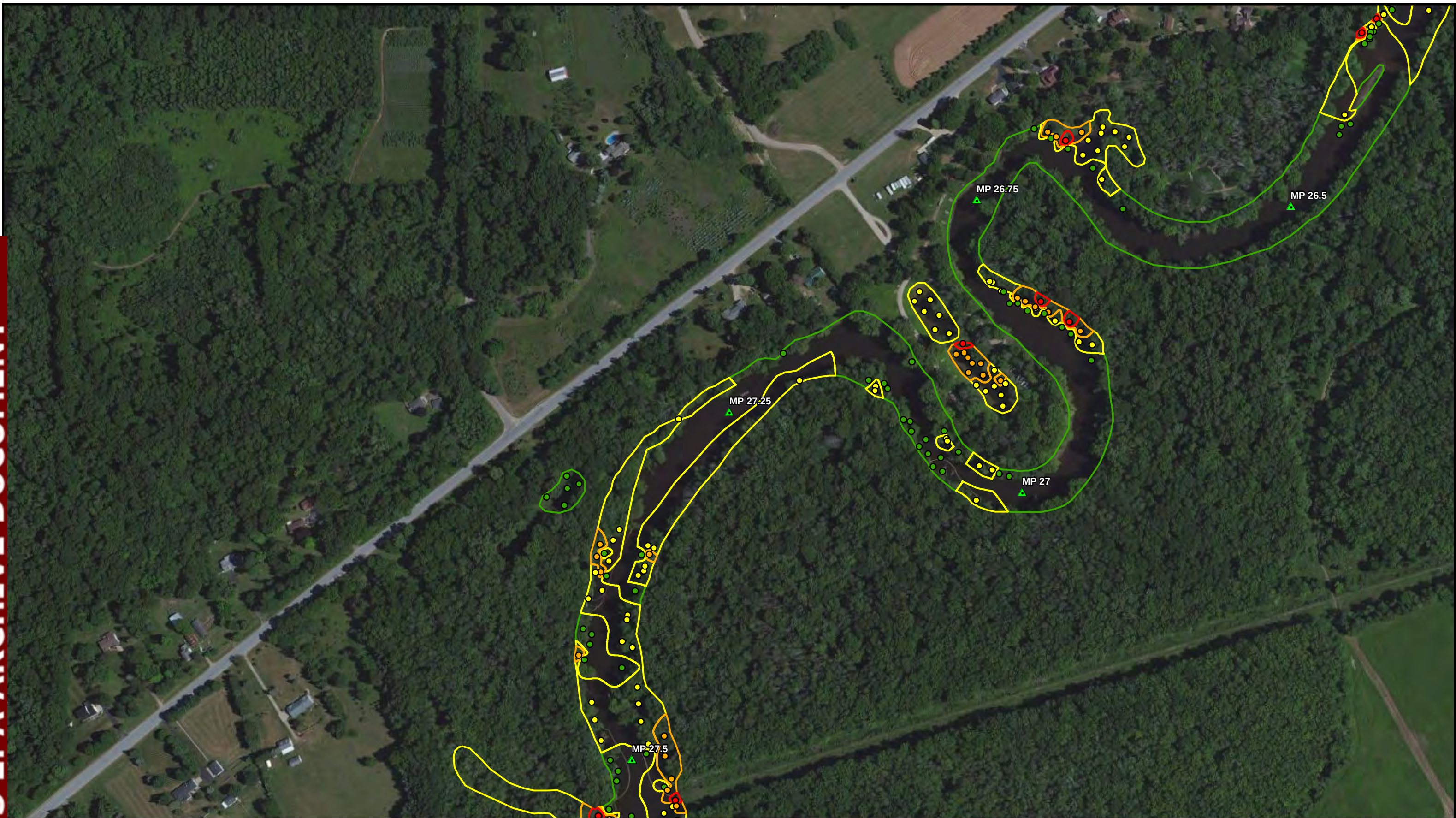
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CREATED: AUGUST 2012

Map 33 of 49



Spring 2012 Poling Locations	
● Heavy	● Moderate
● Light	● None

Spring 2012 Delineation Boundaries	
■ Heavy	■ Light
■ Moderate	■ None

★ Approximate Release Site

▲ River Quarter Mile Marker

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300
Feet

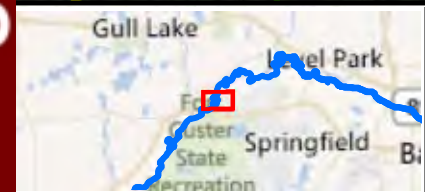
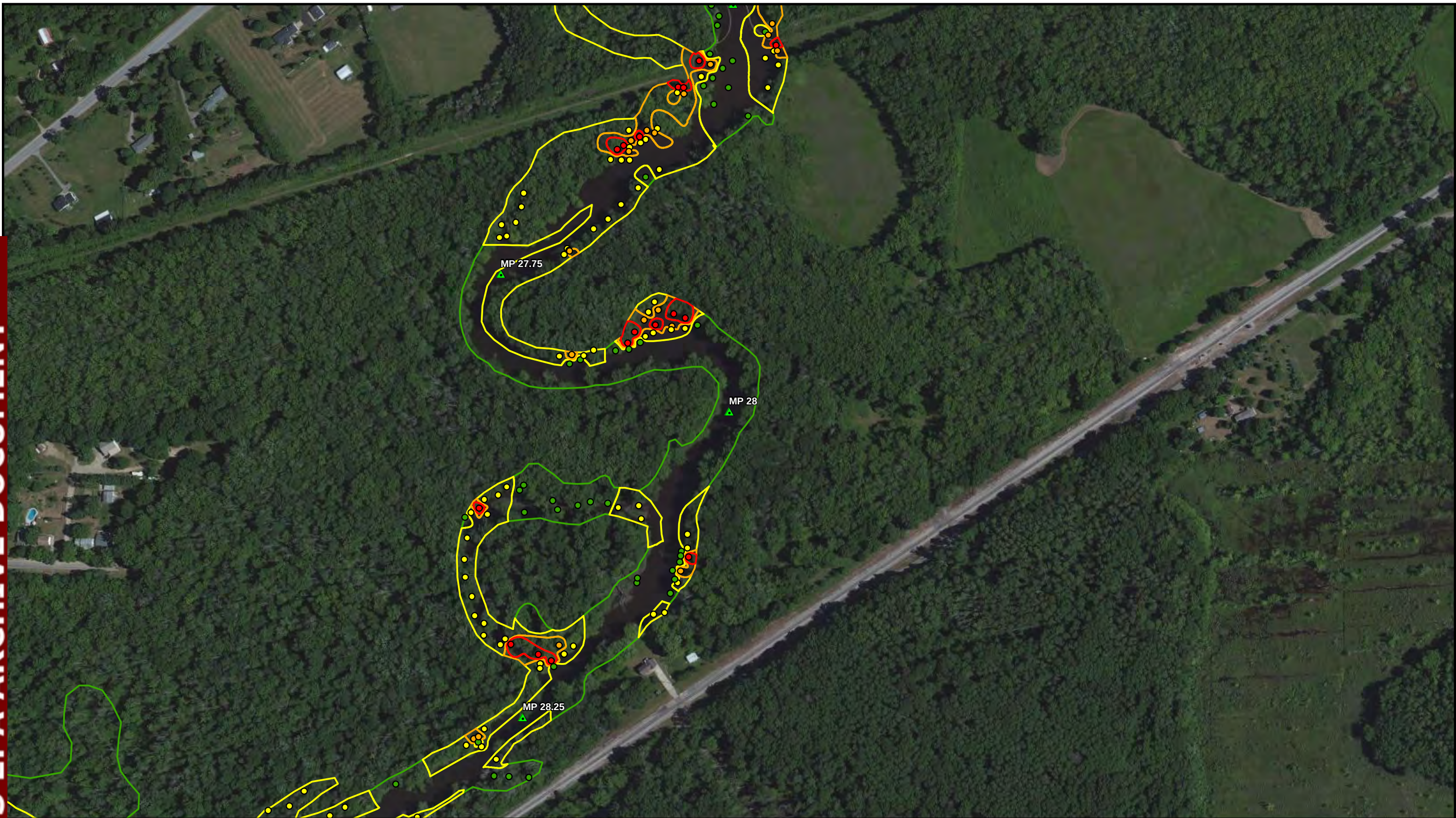


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Okemos, MI

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AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**



Spring 2012 Poling Locations	
● Heavy	● Moderate
● Light	● None

Spring 2012 Delineation Boundaries	
■ Heavy	■ Light
■ Moderate	■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

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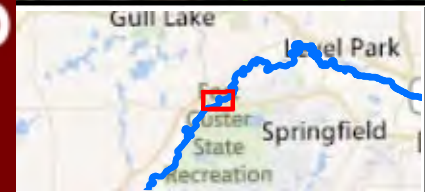
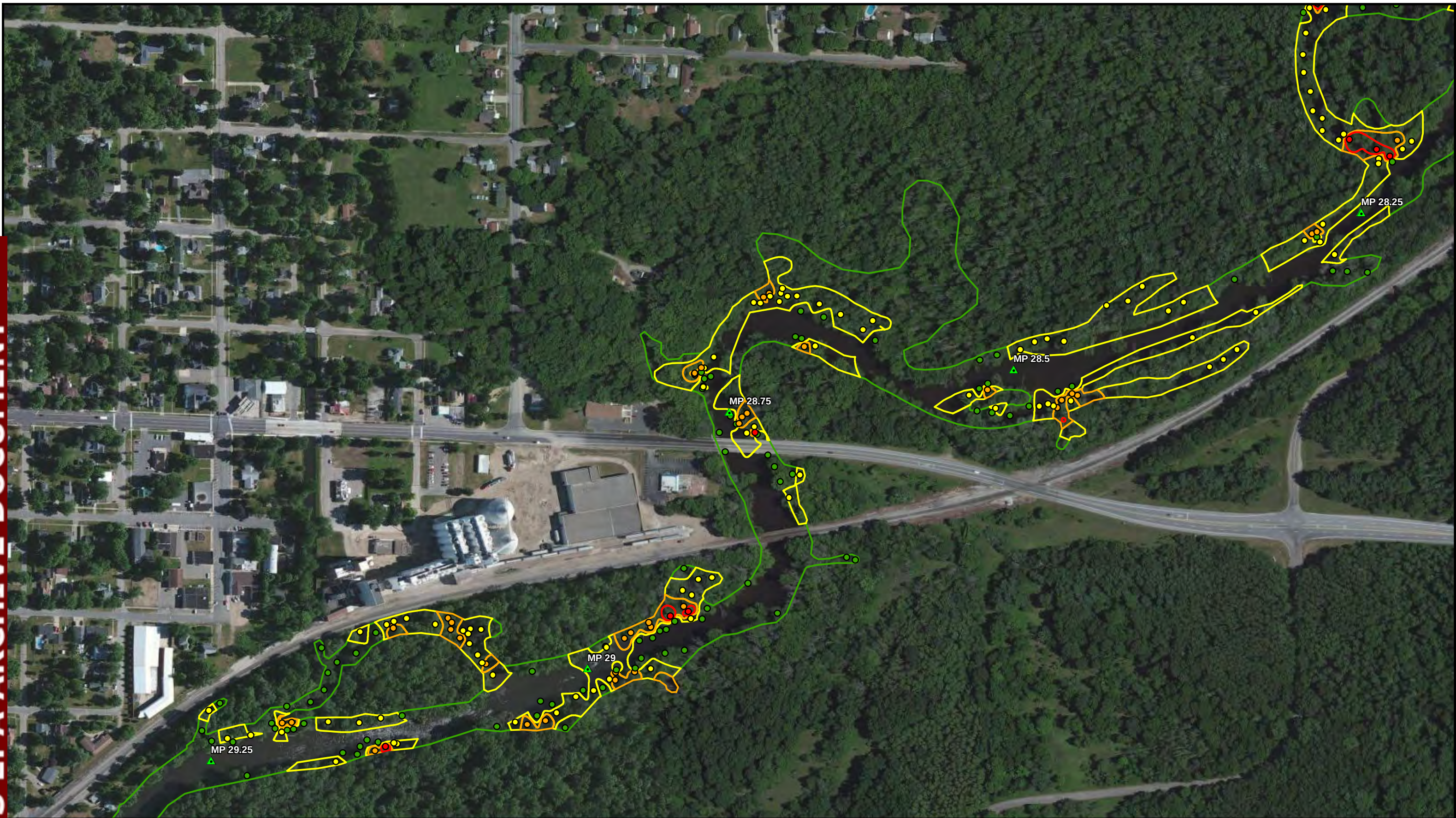
300
Feet

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Okemos, MI

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AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

Map 35 of 49



Spring 2012 Poling Locations	
● Heavy	● Moderate
● Light	● None
Spring 2012 Delineation Boundaries	
■ Heavy	■ Light
■ Moderate	■ None
★ Approximate Release Site	▲ River Quarter Mile Marker

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300
Feet



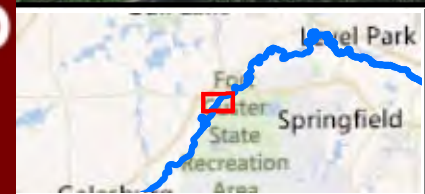
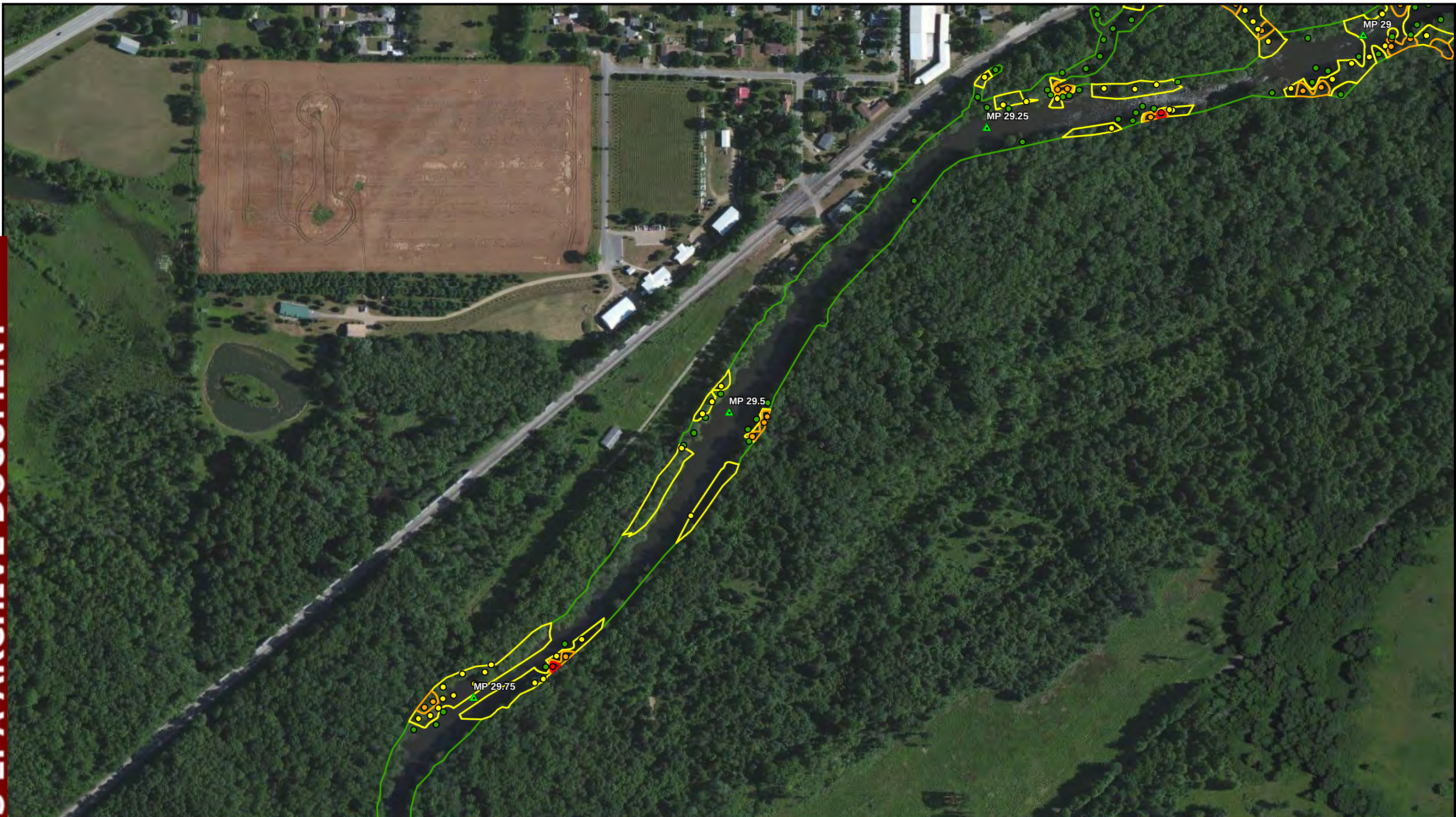
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Okemos, MI

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AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

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Spring 2012 Poling Locations	
Sub Oil Category	Spring 2012 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	■ Light
● None	■ None
★ Approximate Release Site	
▲ River Quarter Mile Marker	

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300

Feet



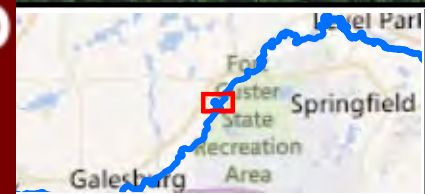
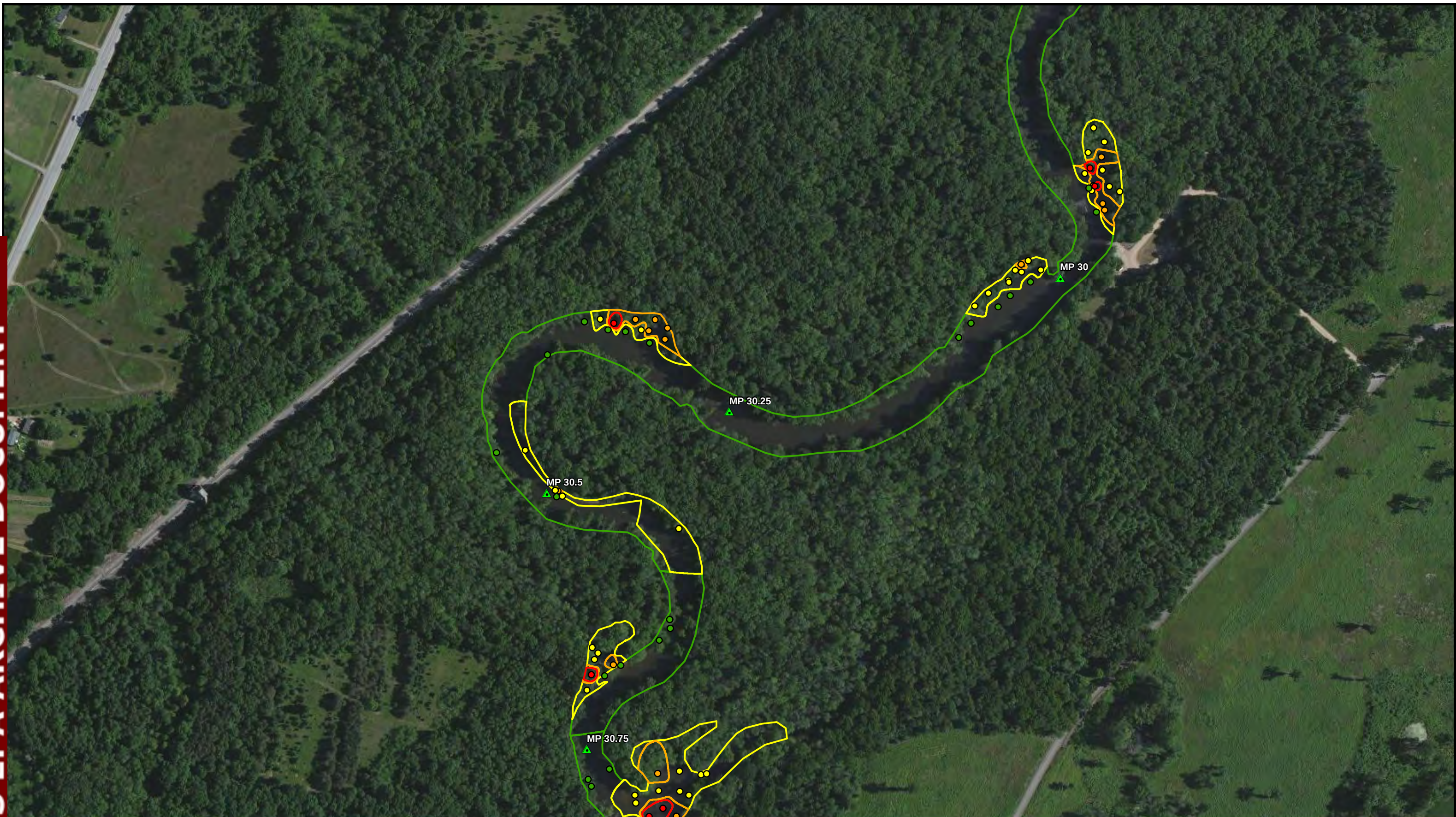
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Okemos, MI

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AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012

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Spring 2012 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2012 Delineation Boundaries
Heavy
Moderate
Light
None

★ Approximate Release Site
▲ River Quarter Mile Marker

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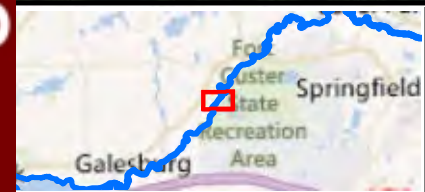
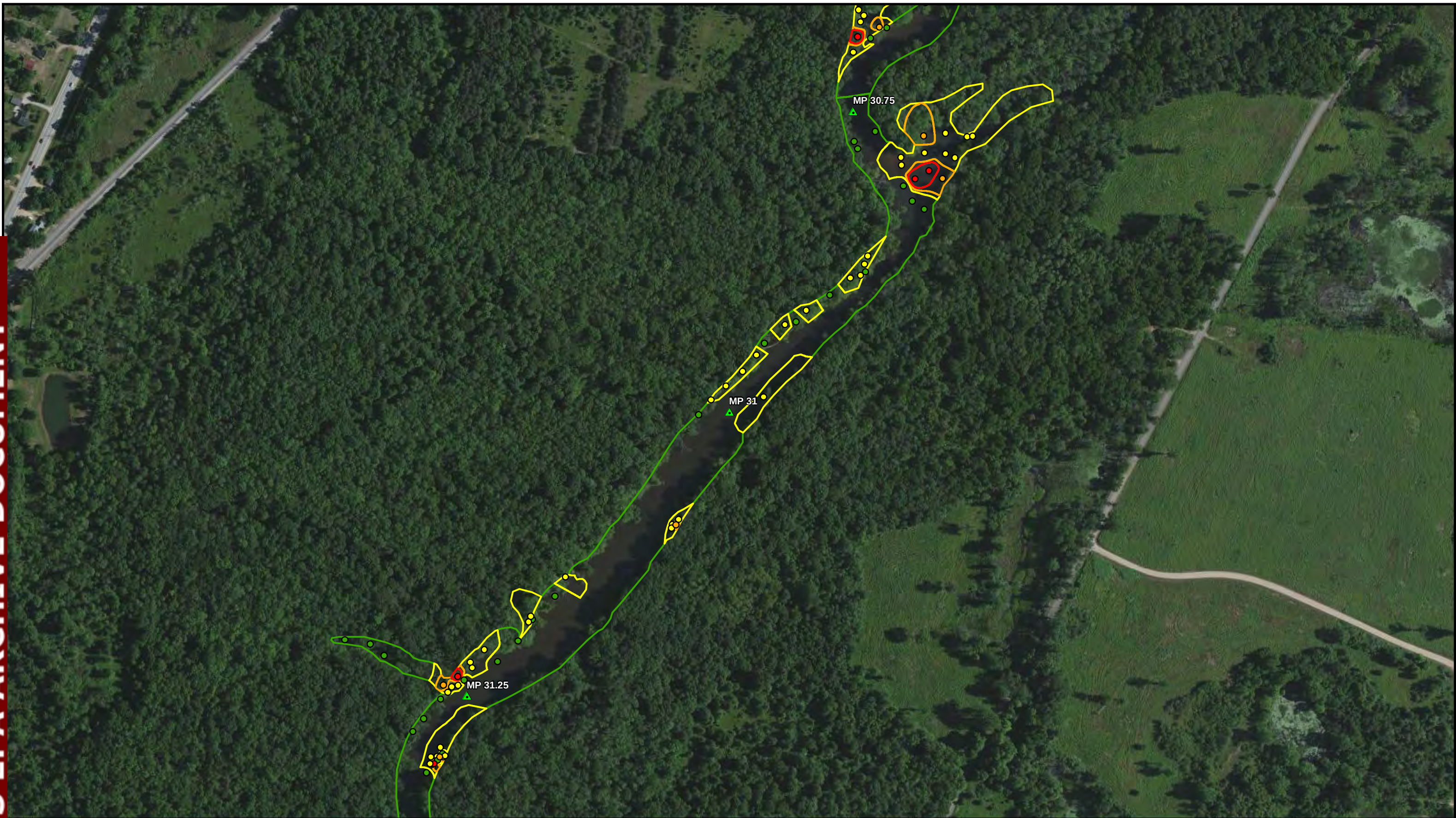
300
Feet

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Okemos, MI

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AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

Map 38 of 49



Spring 2012 Poling Locations	
Sub Oil Category	Spring 2012 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	■ Light
● None	■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet

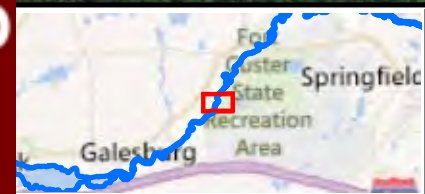
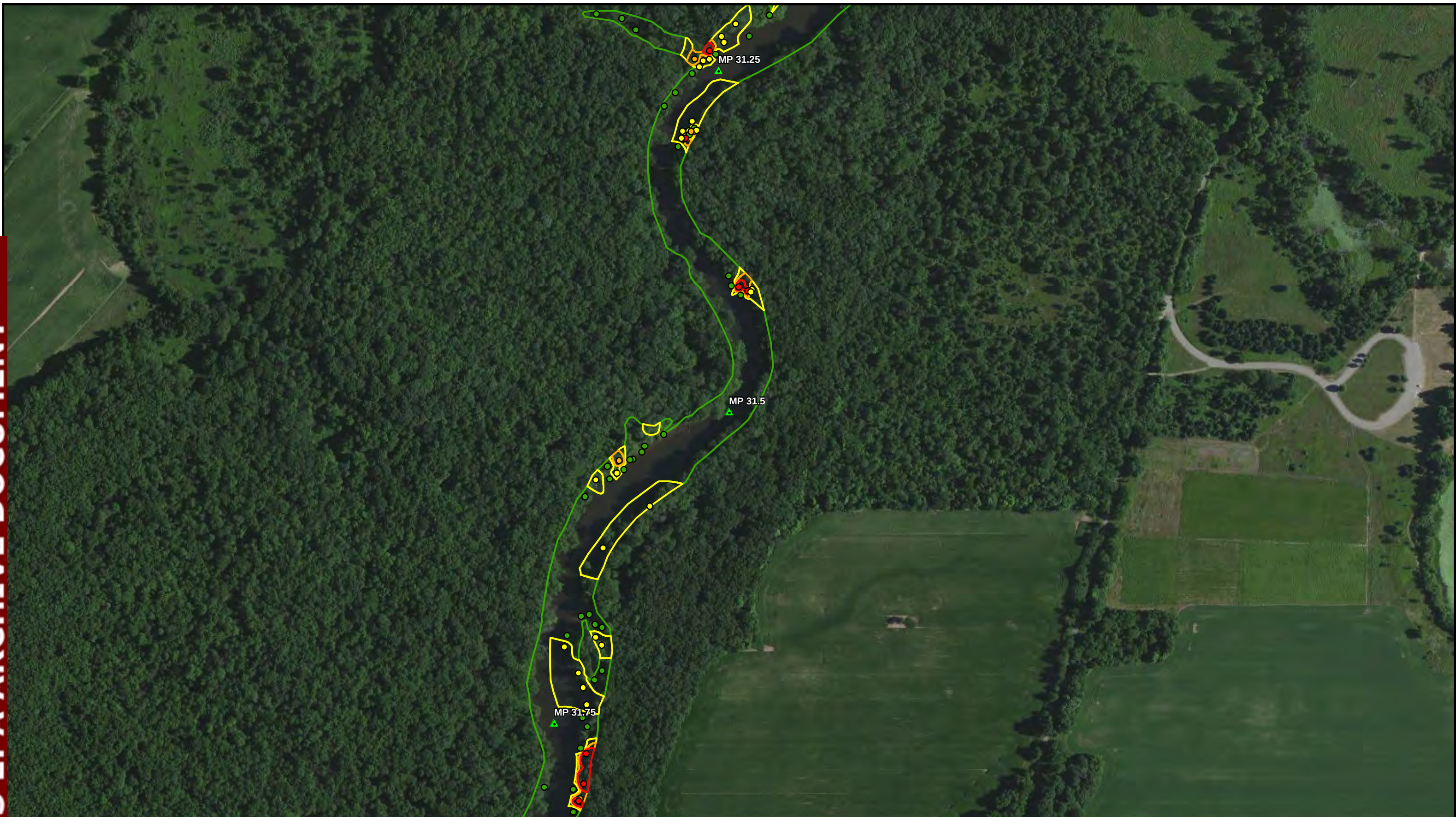


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AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**



Spring 2012 Poling Locations	
Sub Oil Category	Spring 2012 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	■ Light
● None	■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

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300

Feet



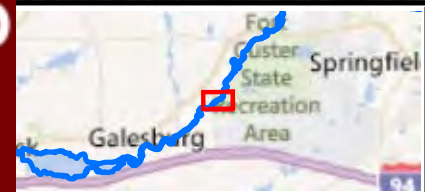
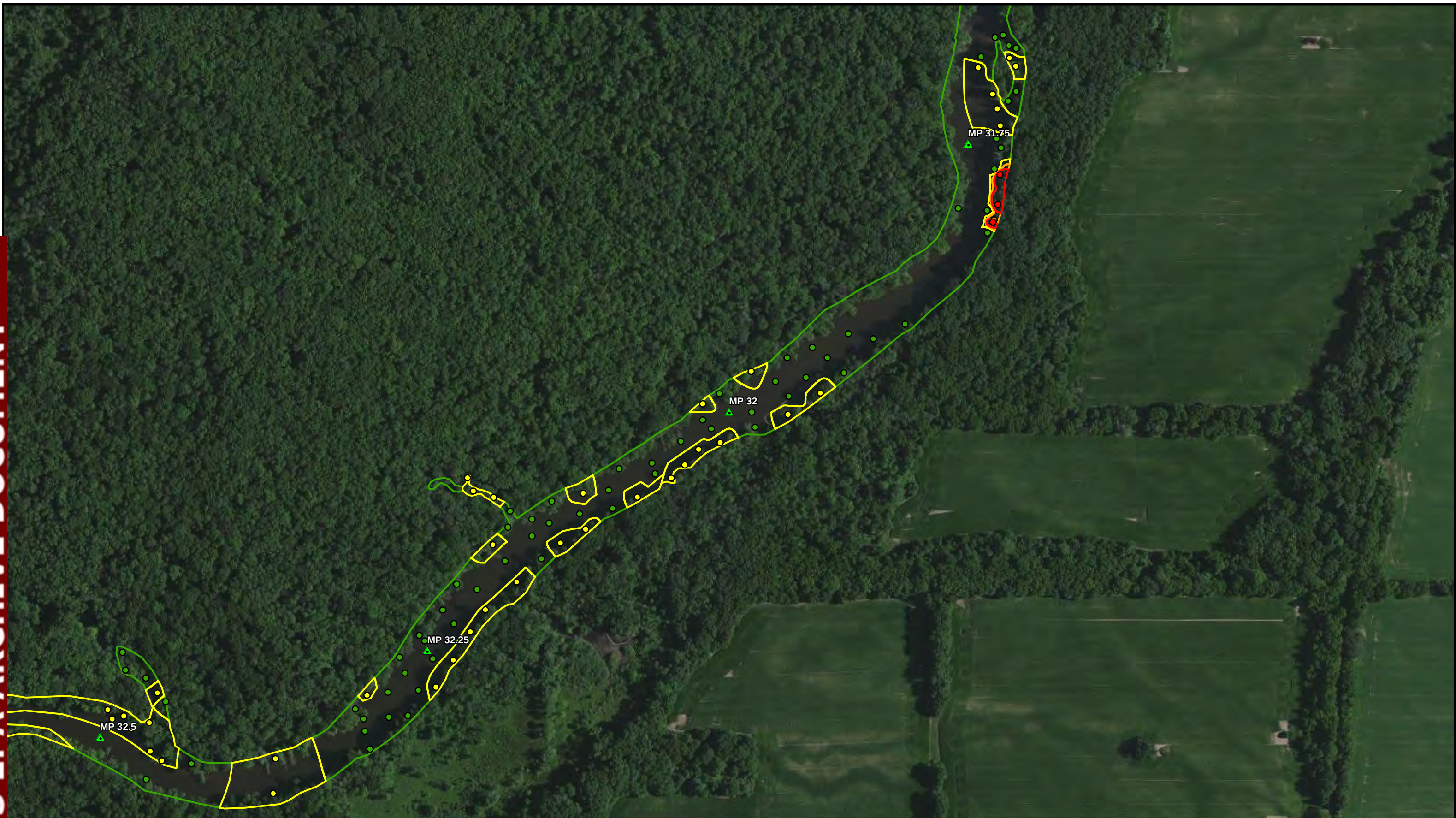
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AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012

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Spring 2012 Poling Locations	
Sub Oil Category	Spring 2012 Delineation Boundaries
● Heavy	■ Heavy
● Moderate	■ Moderate
● Light	■ Light
● None	■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



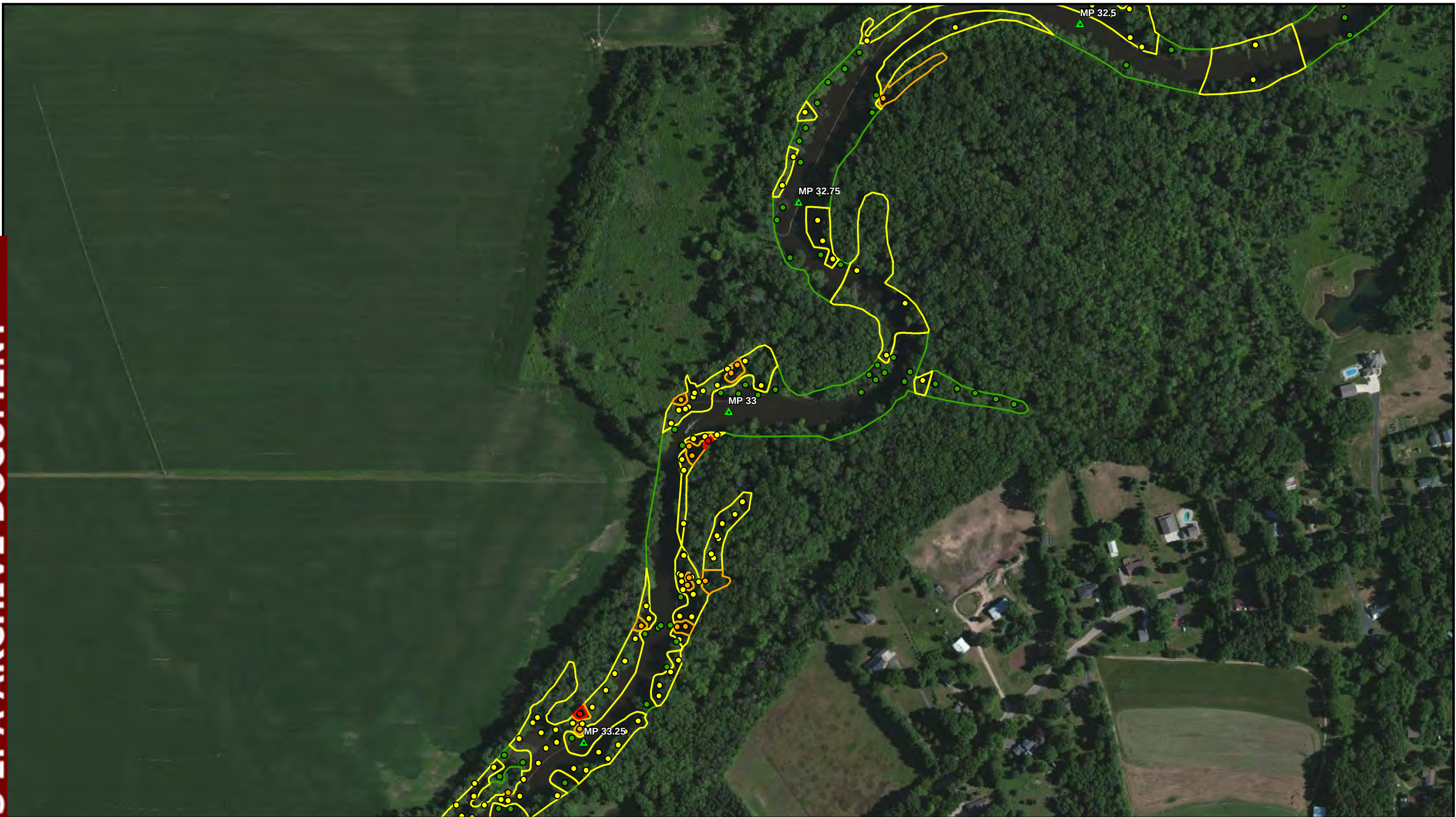
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AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012

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Spring 2012 Poling Locations	
● Heavy	● Moderate
● Light	● None

Spring 2012 Delineation Boundaries	
■ Heavy	■ Light
■ Moderate	■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



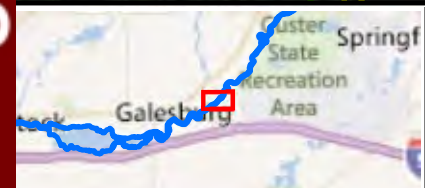
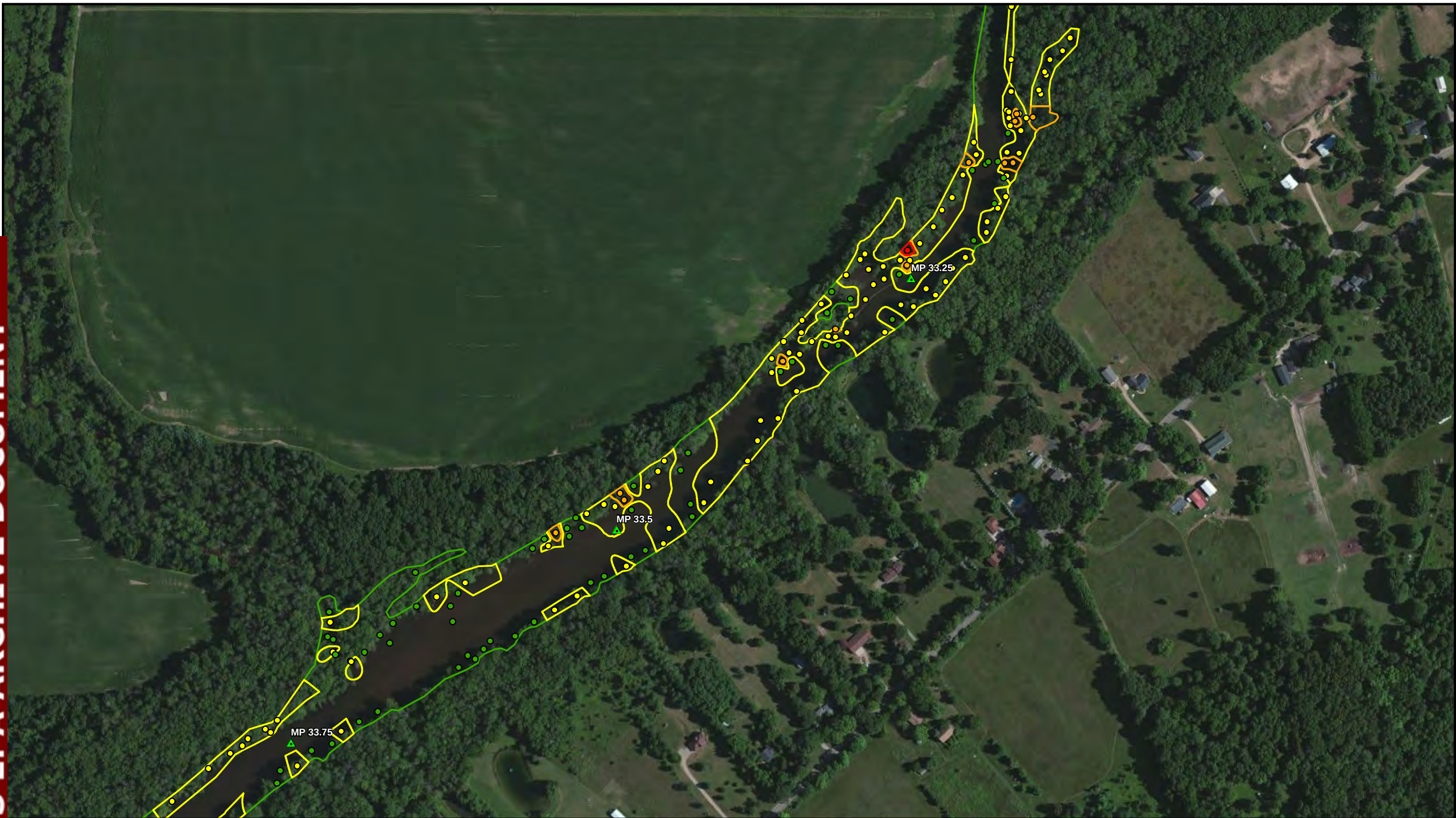
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MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

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Spring 2012 Poling Locations	
● Heavy	● Moderate
● Light	● None
Spring 2012 Delineation Boundaries	
■ Heavy	■ Light
■ Moderate	■ None
★ Approximate Release Site	▲ River Quarter Mile Marker

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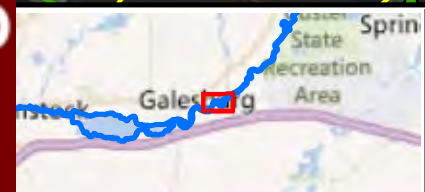
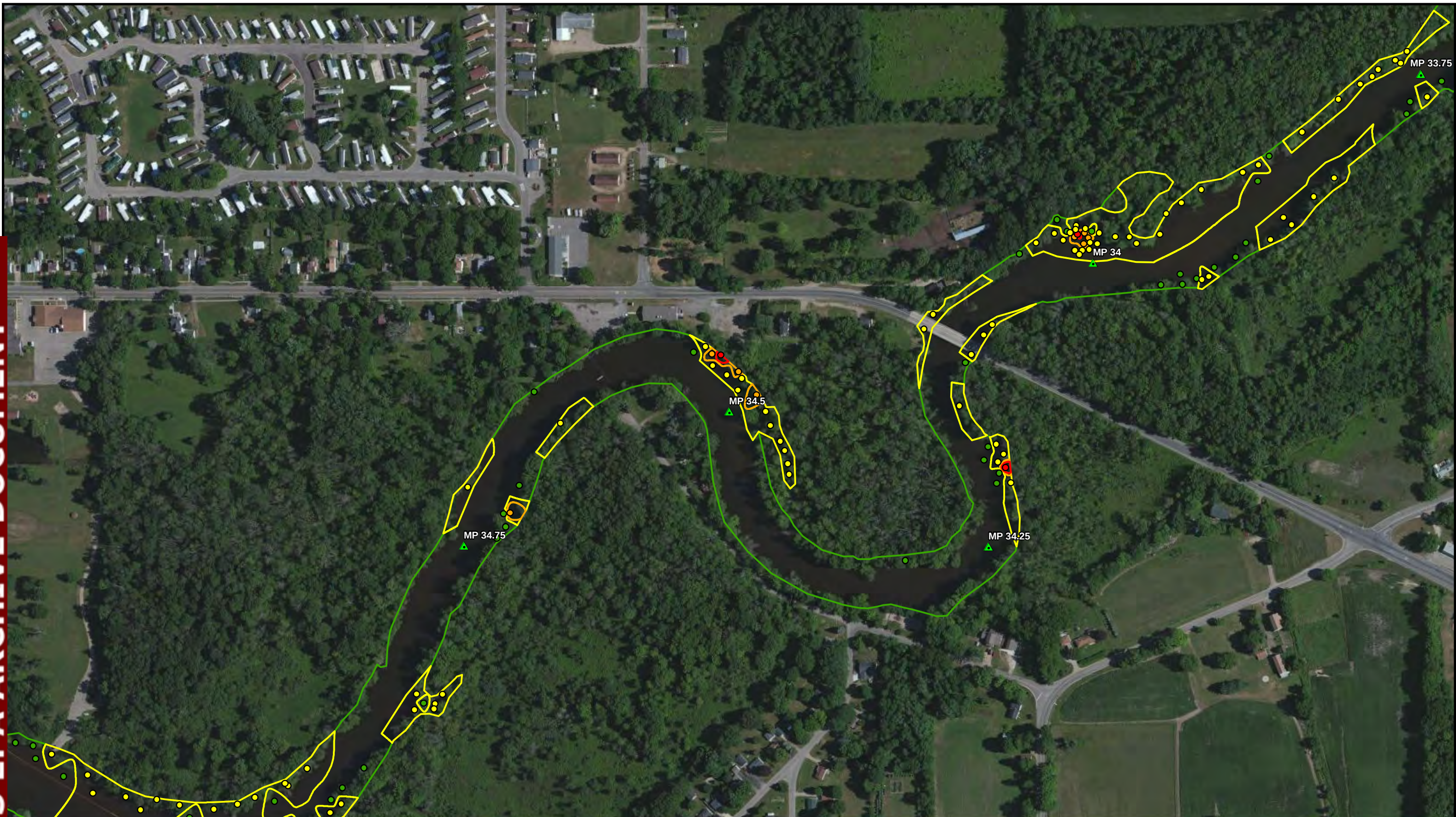
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Feet

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AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

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Spring 2012 Poling Locations	
● Heavy	● Moderate
● Light	● None

Spring 2012 Delineation Boundaries	
■ Heavy	■ Light
■ Moderate	■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

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300
Feet



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AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012

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Spring 2012 Poling Locations

Sub Oil Category

- Heavy
- Moderate
- Light
- None

Spring 2012 Delineation Boundaries

- Heavy
- Moderate
- Light
- None

★ Approximate Release Site

▲ River Quarter Mile Marker

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300 Feet

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Contract No.: EP-S5-06-04
TDD: S05-0005-1007-030
DCN: 1154-4D-AHMS

Prepared by:
WESTON SOLUTIONS, INC.
2501 Jolly Road, Suite 100
Okemos, MI

SPRING 2012 POLING REASSESSMENT LOCATIONS AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012

Map 45 of 49



Spring 2012 Poling Locations

Sub Oil Category

- Heavy
- Moderate
- Light
- None

Spring 2012 Delineation Boundaries

- Heavy
- Moderate
- Light
- None

★ Approximate Release Site

▲ River Quarter Mile Marker

FOR OFFICIAL USE ONLY

300 Feet

North Arrow

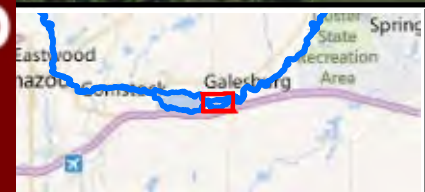
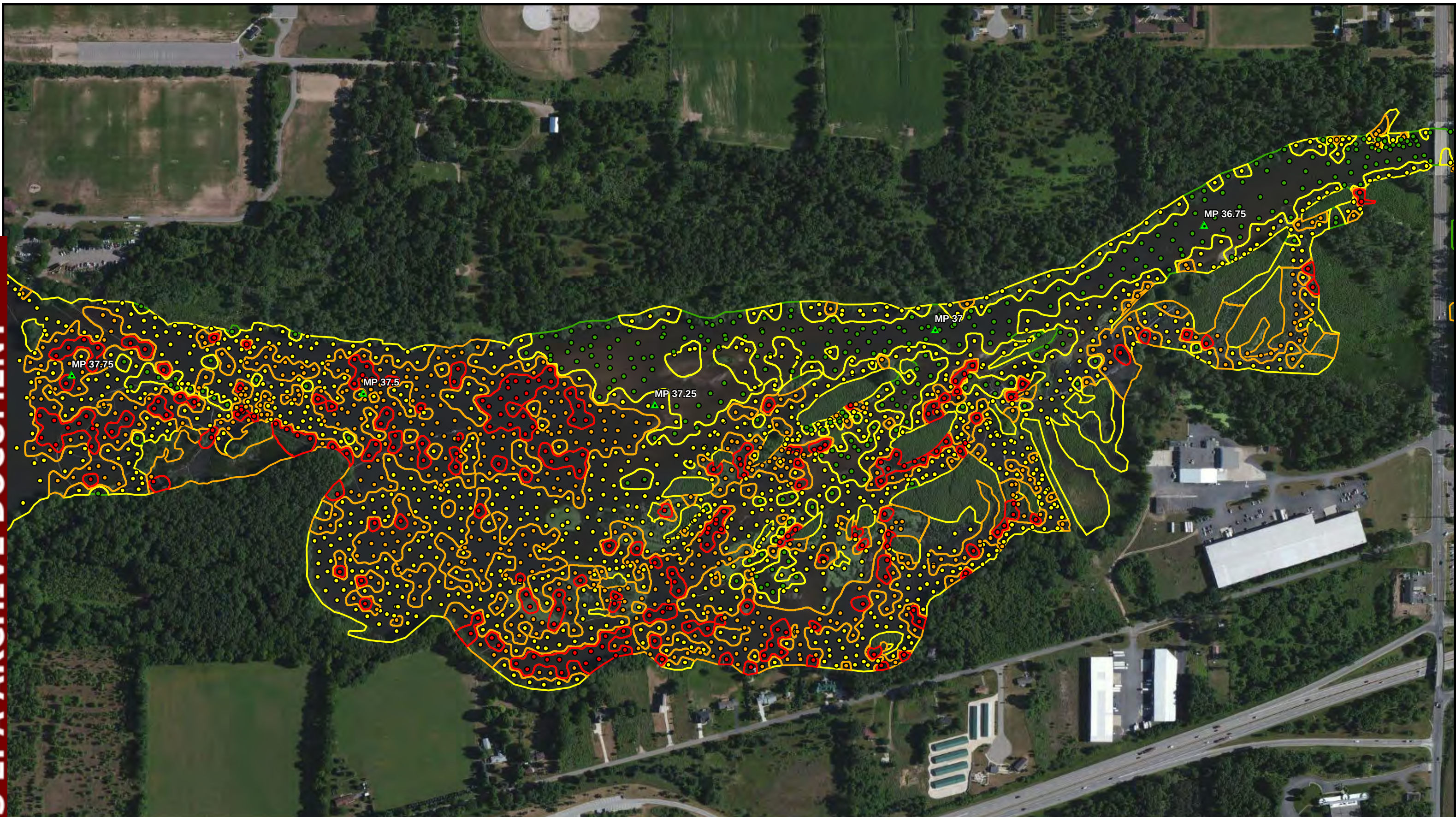
Prepared for:
U.S. EPA REGION V
Contract No.: EP-S5-06-04
TDD: S05-0005-1007-030
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2501 Jolly Road, Suite 100
Okemos, MI

SPRING 2012 POLING REASSESSMENT LOCATIONS AND 2012 DELINEATION BOUNDARIES MARSHALL, MI PIPELINE RELEASE KALAMAZOO RIVER, MI

CREATED: AUGUST 2012

Map 46 of 49



Spring 2012 Poling Locations	
Sub Oil Category	
● Heavy	● Moderate
● Light	● None
Spring 2012 Delineation Boundaries	
■ Heavy	■ Light
■ Moderate	■ None
★ Approximate Release Site	▲ River Quarter Mile Marker

FOR OFFICIAL
USE ONLY

400



Feet



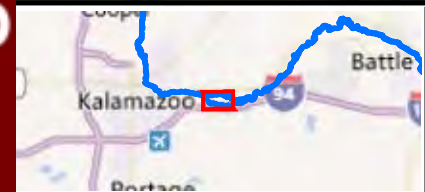
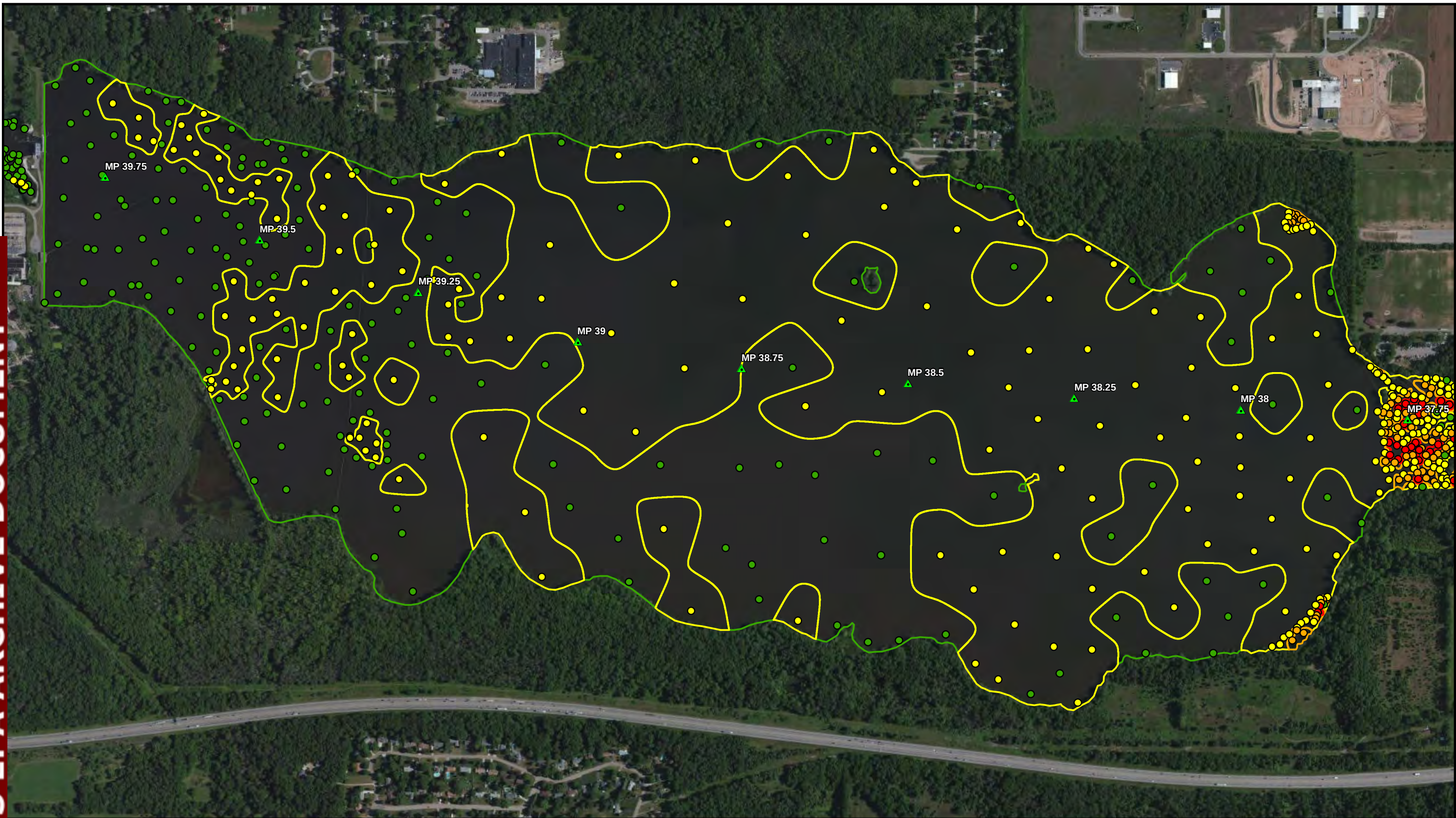
Prepared for:
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SPRING 2012 POLING REASSESSMENT LOCATIONS
AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012

Map 47 of 49



Spring 2012 Poling Locations
Sub Oil Category
● Heavy
● Moderate
● Light
● None

Spring 2012 Delineation Boundaries
Heavy
Moderate
Light
None

★ Approximate Release Site
▲ River Quarter Mile Marker

**FOR OFFICIAL
USE ONLY**

700



Feet



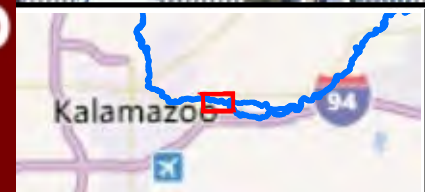
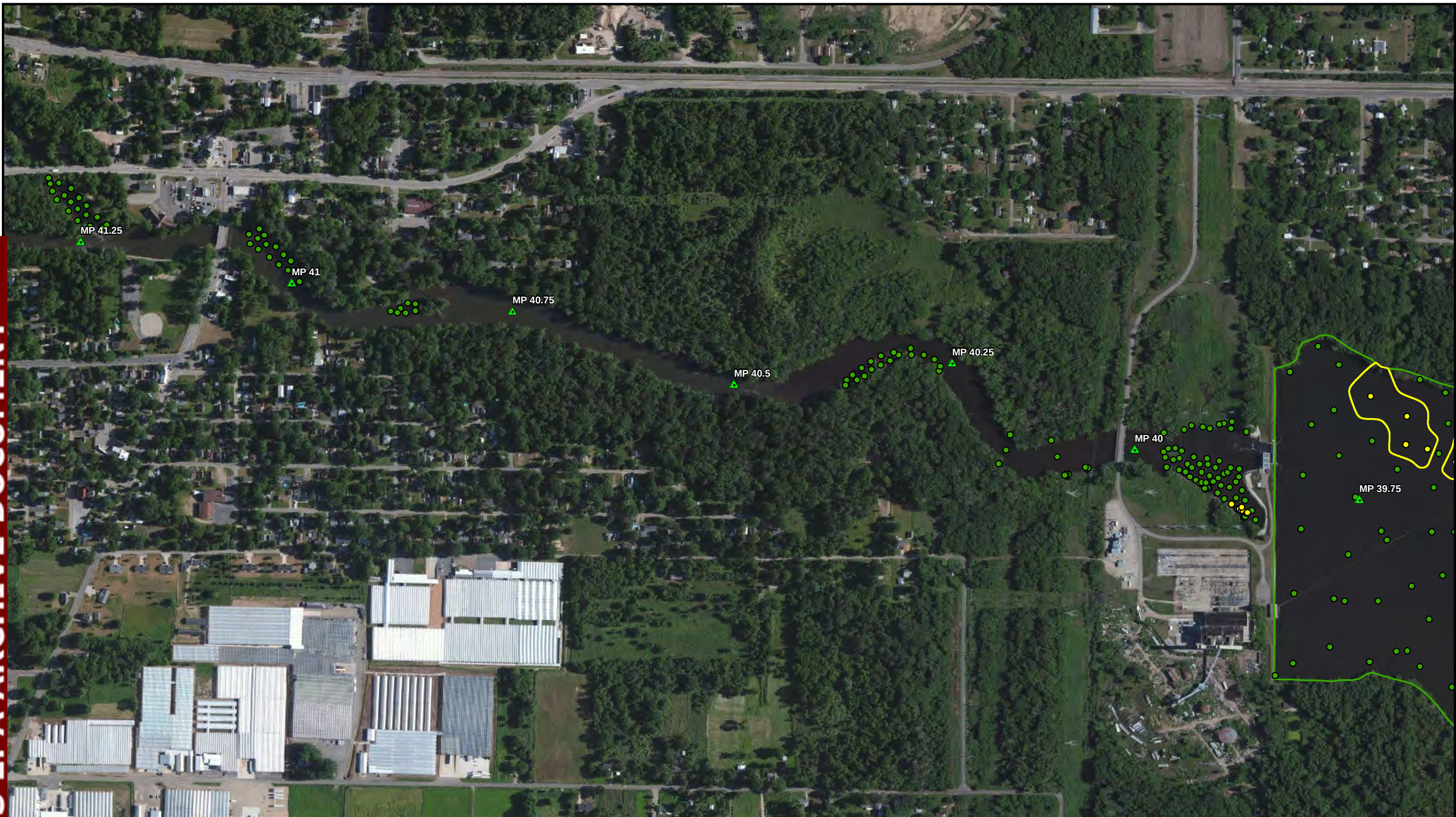
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**SPRING 2012 POLING REASSESSMENT LOCATIONS
AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

Map 48 of 49



Spring 2012 Poling Locations

● Heavy	● Moderate	● Light	● None
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Spring 2012 Delineation Boundaries

■ Heavy	■ Light
■ Moderate	■ None

★ Approximate Release Site
▲ River Quarter Mile Marker

**FOR OFFICIAL
USE ONLY**

500
Feet



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**SPRING 2012 POLING REASSESSMENT LOCATIONS
AND 2012 DELINEATION BOUNDARIES
MARSHALL, MI PIPELINE RELEASE
KALAMAZOO RIVER, MI
CREATED: AUGUST 2012**

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