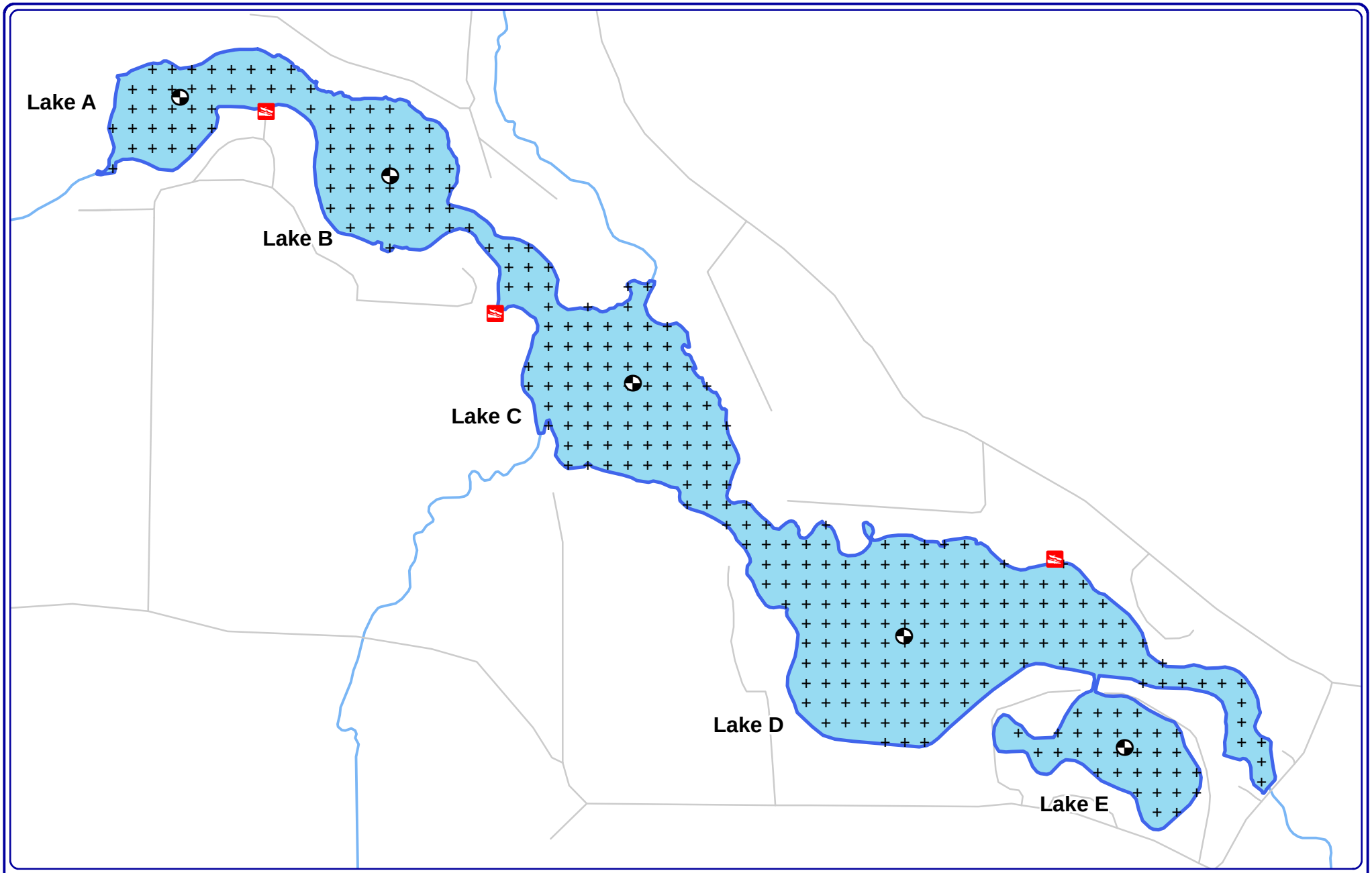

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920.338.8860
www.onterra-eco.com

Sources:
Roads and Hydro: WDNR
Map Date: March 5, 2012
Filename: Map1_MM_Location.mxd



Project Location in Wisconsin

Legend

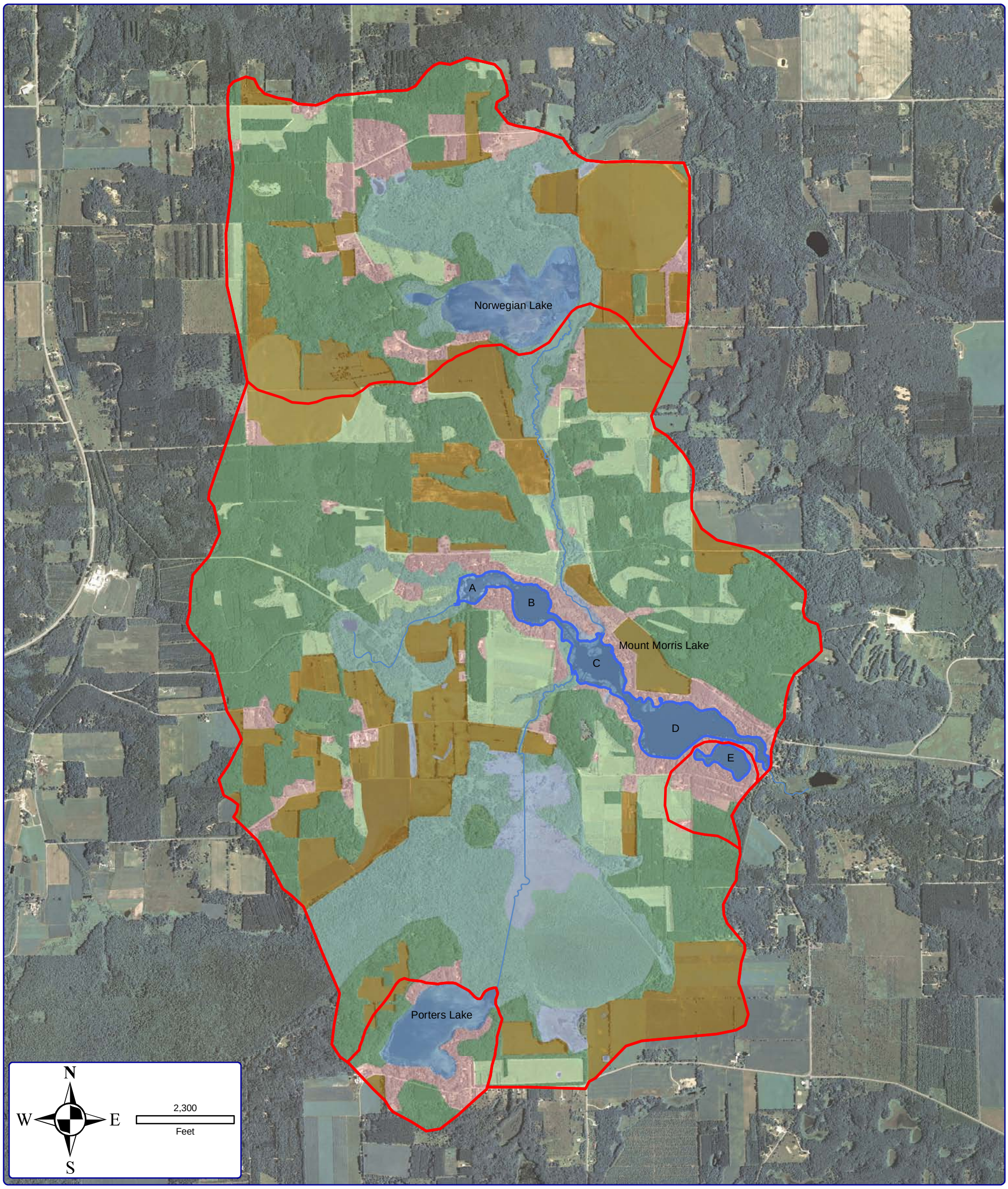
- Mount Morris Lake ~132 Acres
- \+ Point-intercept Survey Location
  38-meter spacing - 359 total points
- Water Quality Sampling Location
- Public Access

Map 1

Mount Morris Lake

Waushara County, Wisconsin

Project Location & Lake Boundaries





Project Location in Wisconsin

Sources:
Hydro: WDNR
Orthophotography: NAIP, 2010
Land Cover: NLCD 2006 (Onterra modified)
Map Date: March 2, 2012
Filename: Map2_MM_Watershed.mxd

Legend

- Watershed Boundary

Land Cover Types

- Forest
- Forested Wetlands
- Pasture/Grass
- Row Crops
- Rural Residential
- Open Water
- Wetlands

Map 2

Mount Morris Lake

Waushara County, Wisconsin

Watershed and Land Cover Types

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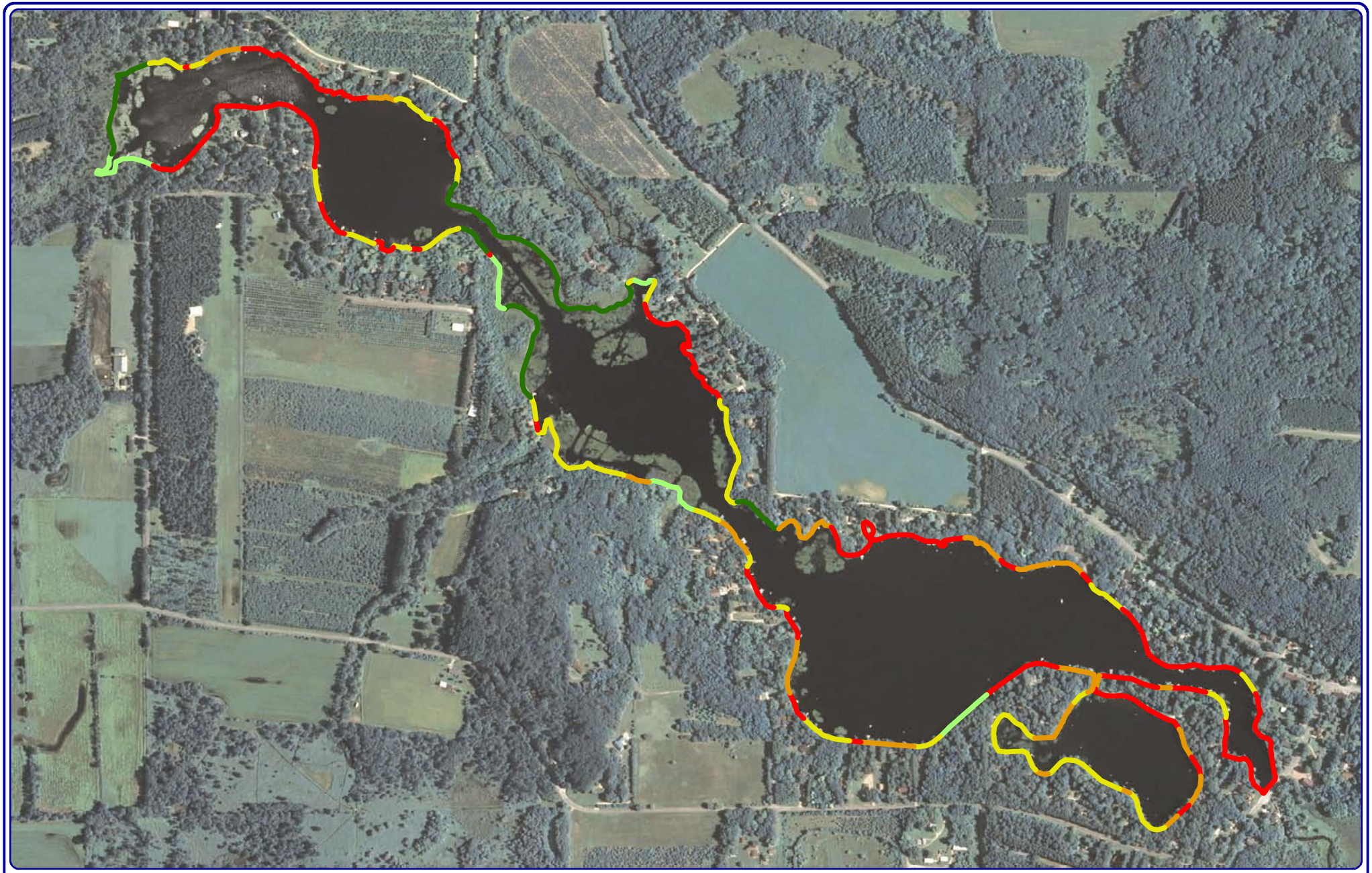

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Sources:
Hydro: WDNR
Orthophotography: NAIP, 2010
Shoreline Survey: Onterra, 2010
Map Date: March 5, 2012
Filename: Map3_MM_SA_2010.mxd



Project Location in Wisconsin

Legend

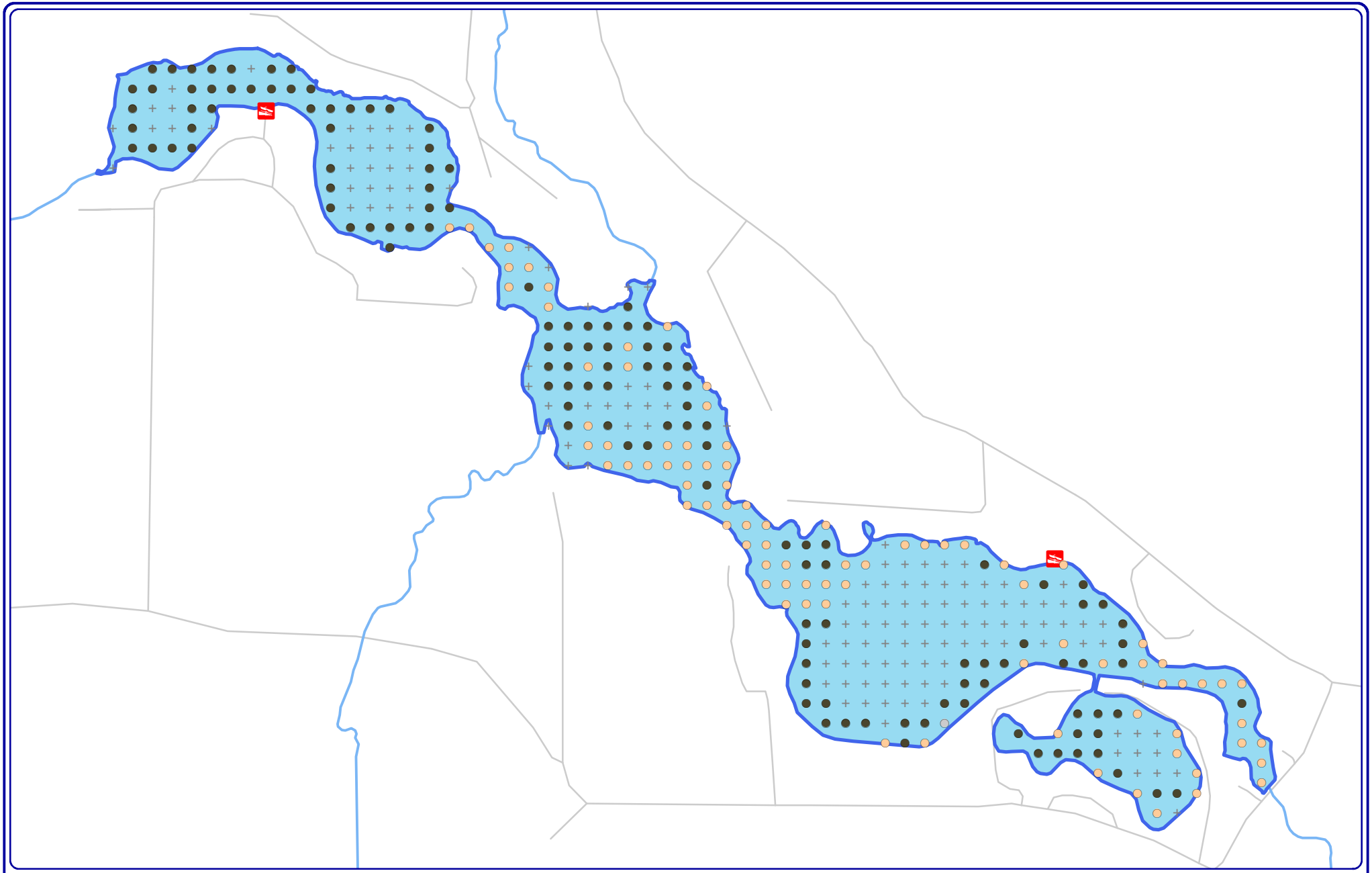
- Natural/Undeveloped (0.7 miles)
- Developed-Natural (0.4 Miles)
- Developed-Semi-Natural (1.3 miles)
- Developed-Unnatural (0.8 miles)
- Urbanized (2.1 miles)

Map 3

Mount Morris Lake

Waushara County, Wisconsin

2010 Shoreline Condition



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Sources:
Hydro: WDNR
PI Survey: Onterra, 2010
Map Date: March 5, 2012
Filename: Map4_MM_SubstratePI.mxd



Project Location in Wisconsin

Legend

Point-intercept Sampling Locations

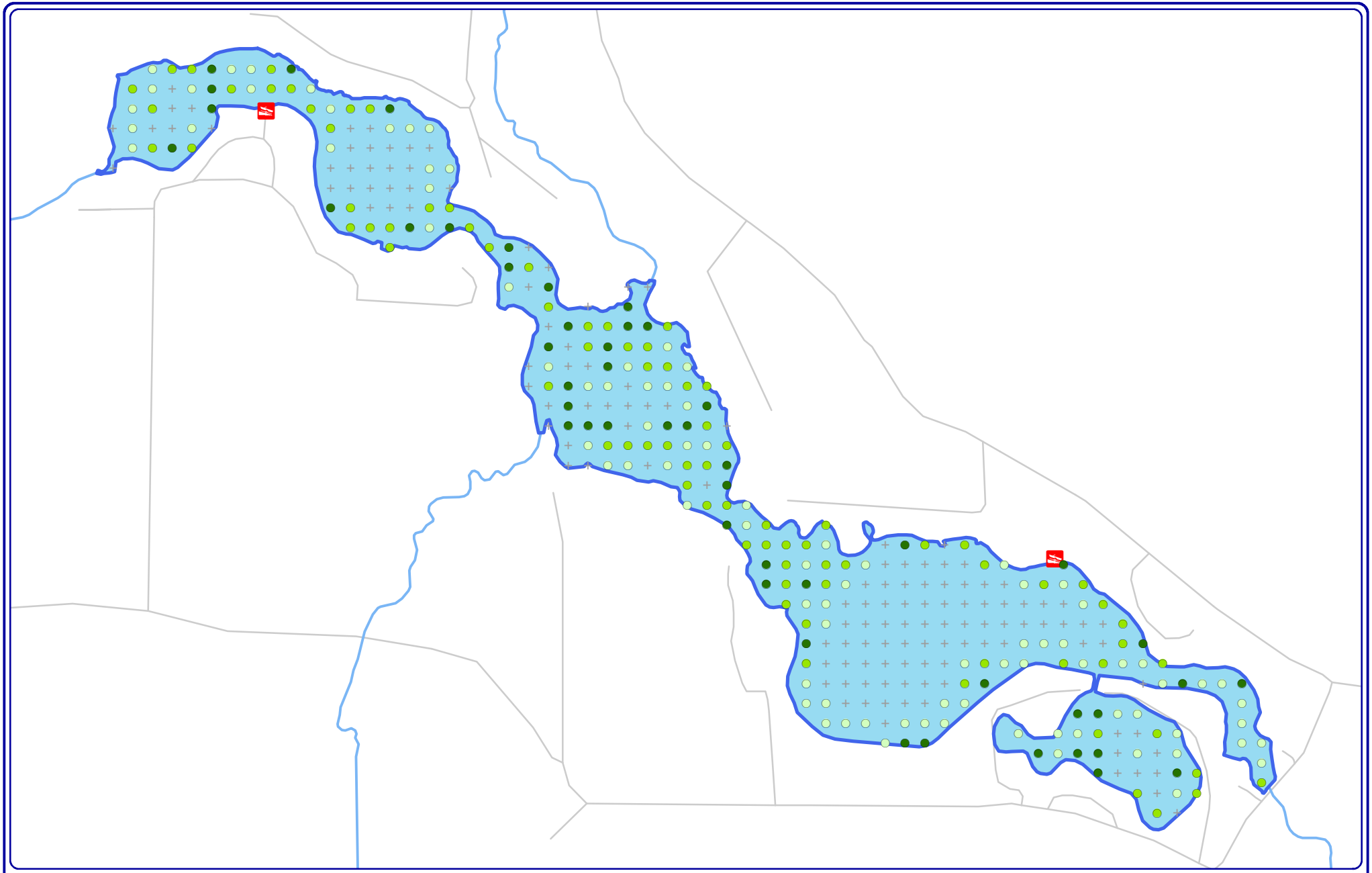
- \+ No Data (*Non-navigable or Too Deep*)
- Muck
- Sand
- Rock

Map 4

Mount Morris Lake

Waushara County, Wisconsin

PI Survey: Substrate Types



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Sources:
Hydro: WDNR
PI Survey: Onterra, 2010
Map Date: March 5, 2012
Filename: Map5_MM_TRFPI.mxd



Project Location in Wisconsin

Legend

Point-intercept Sampling Locations

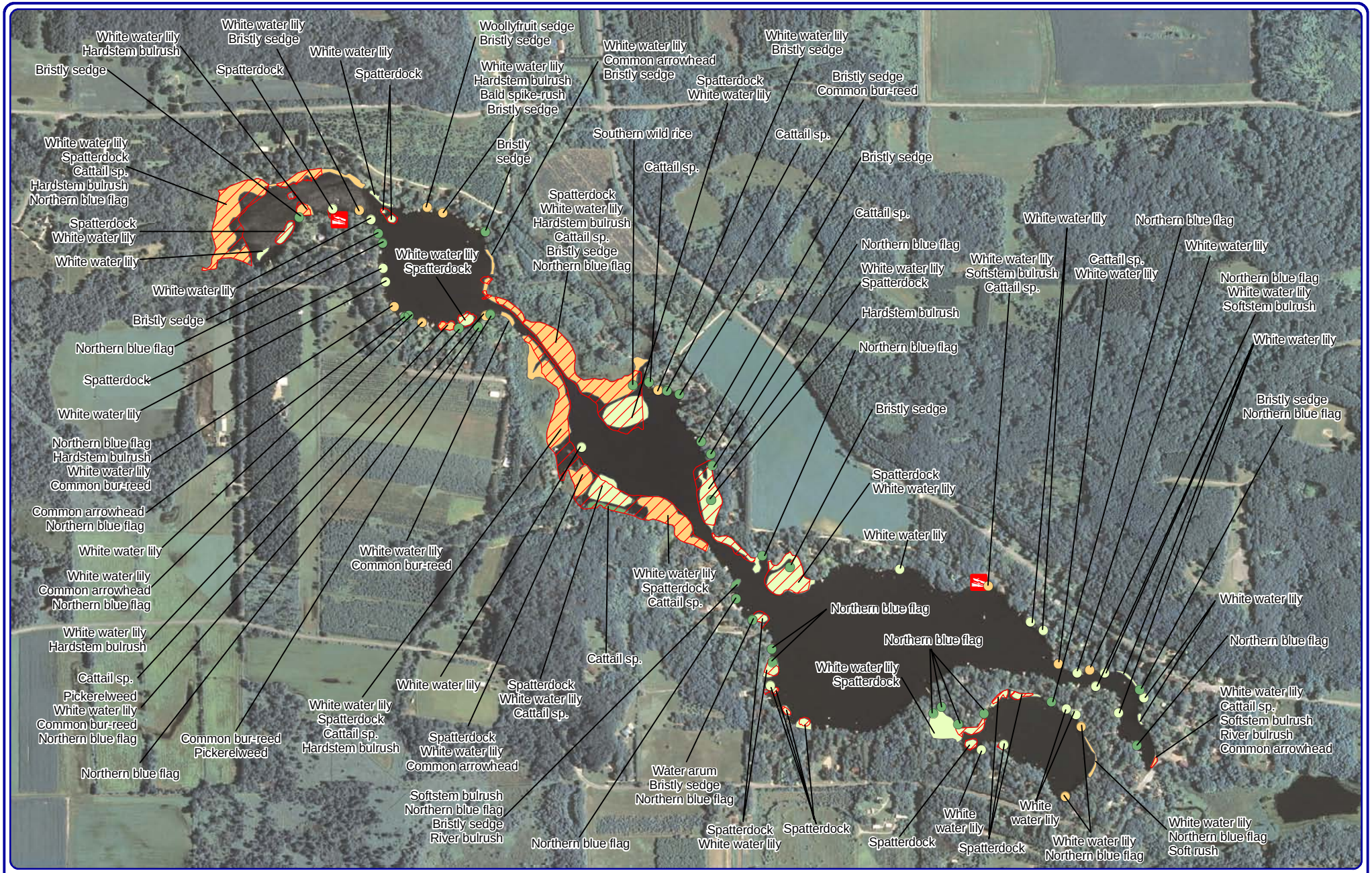
- \+ No Vegetation or Non-navigable
- Rake-fullness = 1
- Rake-fullness = 2
- Rake-fullness = 3

Map 5

Mount Morris Lake

Waushara County, Wisconsin

PI Survey:
Aquatic Vegetation Distribution



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Sources:
Hydro: WDNR
Orthophotography: NAIP, 2010
Community Survey: Onterra, 2010
Map Date: March 5, 2012
Filename: Map6_MM_Comm_2010.mxd



Project Location in Wisconsin

Legend

Small Plant Communities
- Emergent
- Floating-leaf
- Mixed Floating-leaf & Emergent

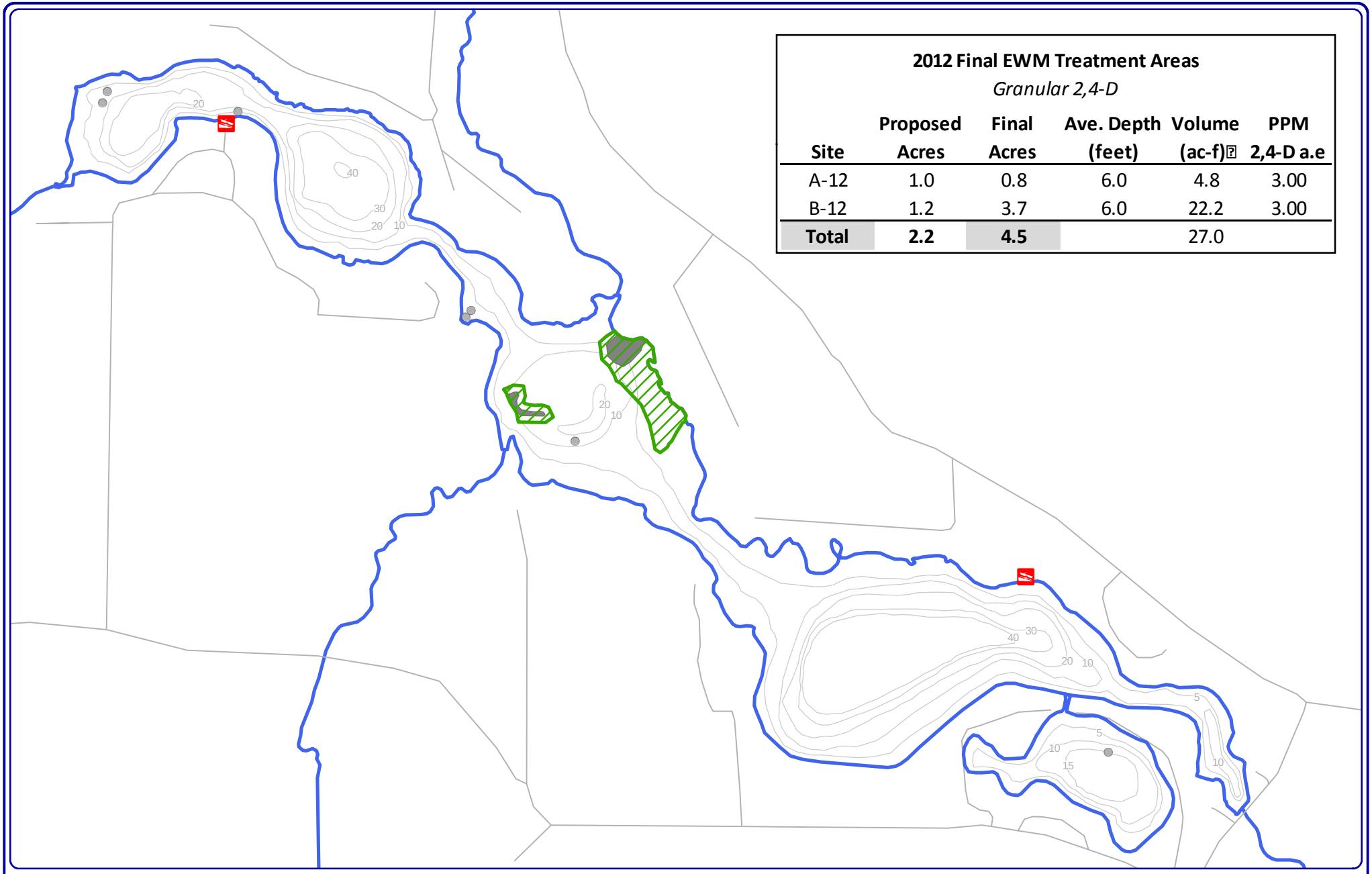
Large Plant Communities
- Emergent
- Floating-leaf
- Mixed Floating-leaf & Emergent
- 2004 Large Plant Community

Map 6

Mount Morris Lake

Waushara County, Wisconsin

Native Emergent & Floating-leaf Aquatic Plant Communities



2012 Final EWM Treatment Areas

Granular 2,4-D

Site	Proposed Acres	Final Acres	Ave. Depth (feet)	Volume (ac-f)	PPM 2,4-D a.e
A-12	1.0	0.8	6.0	4.8	3.00
B-12	1.2	3.7	6.0	22.2	3.00
Total	**2.2**	**4.5**		27.0	

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Sources:
Roads & Hydro: WDNR
Aquatic Plants: Onterra, 2011
Map date: February 24, 2012
File name: Map7_MM_T2012EWM_Perm1.mxd



Project Location in Wisconsin

Legend

2011 EWM Survey ***(Sept. 2011)***

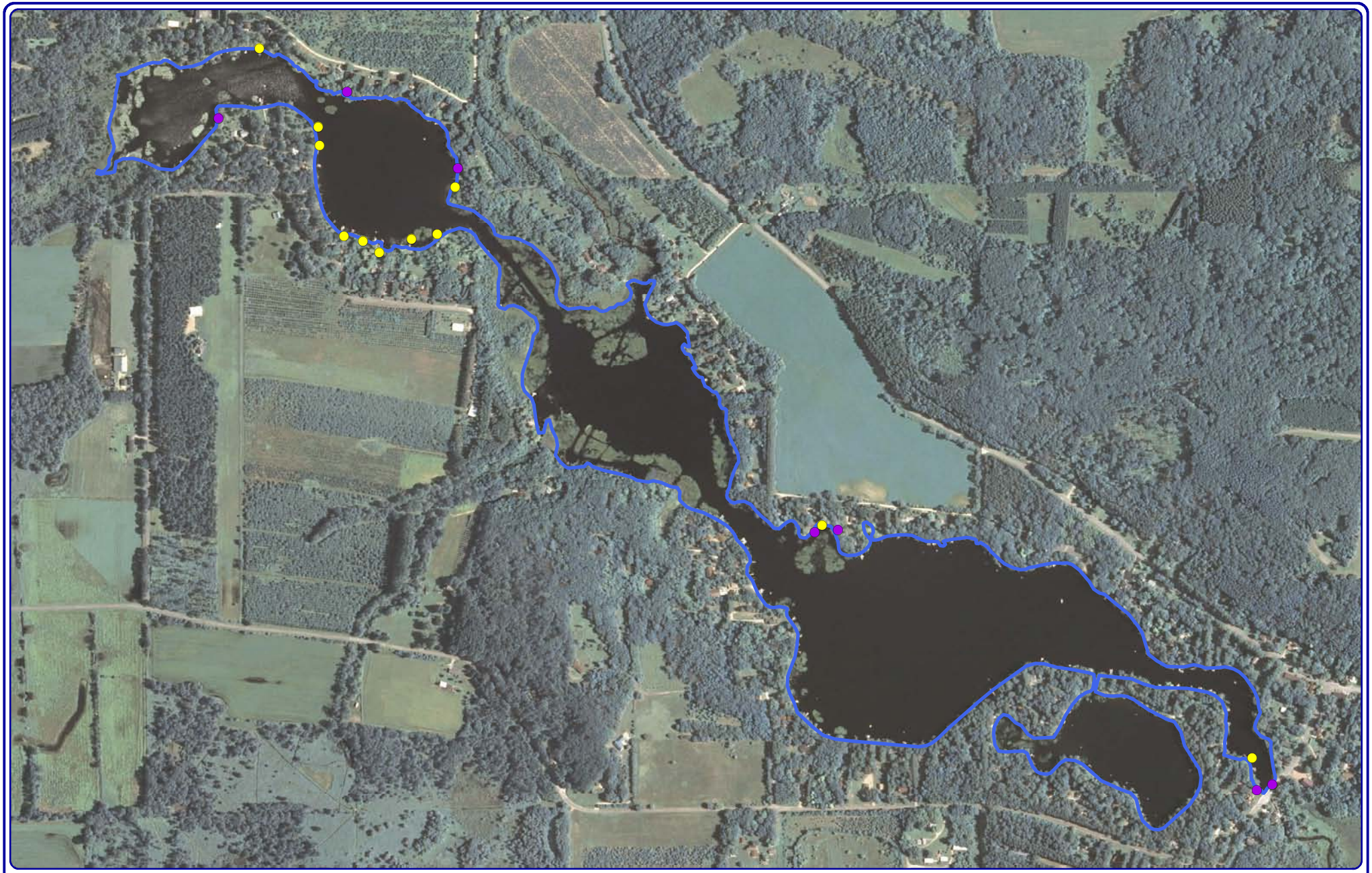
- Single or Few Plants
- Scattered *(0.9 acres)*
- 2012 Proposed EWM Treatment Area

Map 7

Mt. Morris Lake

Waushara County, Wisconsin

2012 Final EWM Treatment Areas



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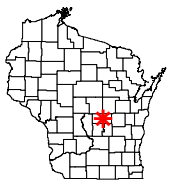
Sources:
Hydro: WDNR
Orthophotography: NAIP, 2010
Community Survey: Onterra, 2010
Map Date: March 5, 2012
Filename: Map8_MM_ExoticEmergents_2010.mxd



Project Location in Wisconsin

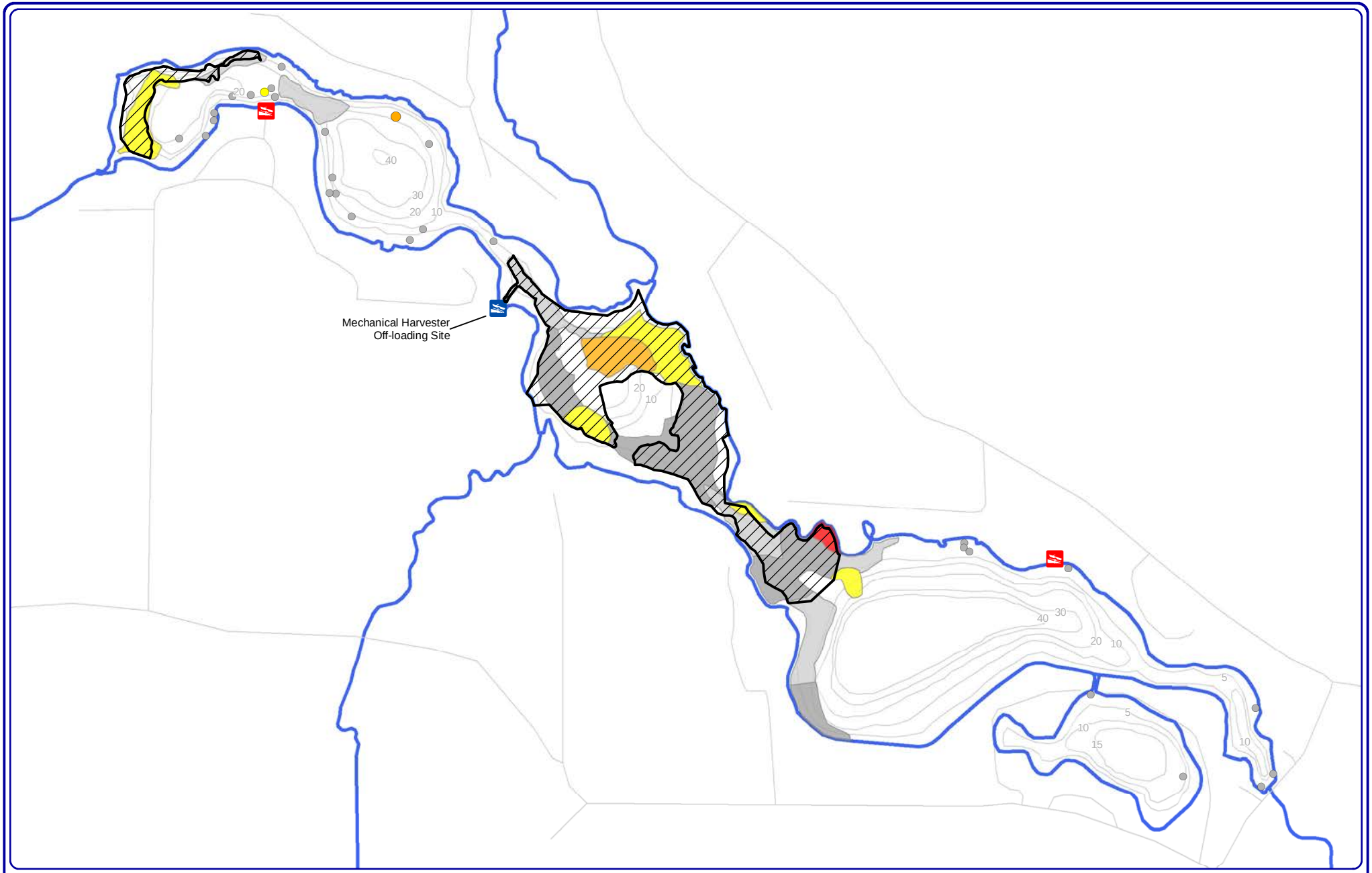
Legend
- Purple loosestrife
- Pale-yellow iris

Map 8

Mount Morris Lake

Waushara County, Wisconsin

Non-Native Emergent Aquatic Plants



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Sources:
Roads & Hydro: WDNR
Aquatic Plants: Onterra, 2012
Map date: May 16, 2012
File name: Map9_MM_CLPSurvey_May12.mxd



Project Location in Wisconsin

Legend

Curly-leaf Pondweed Locations ***(May 2012)***

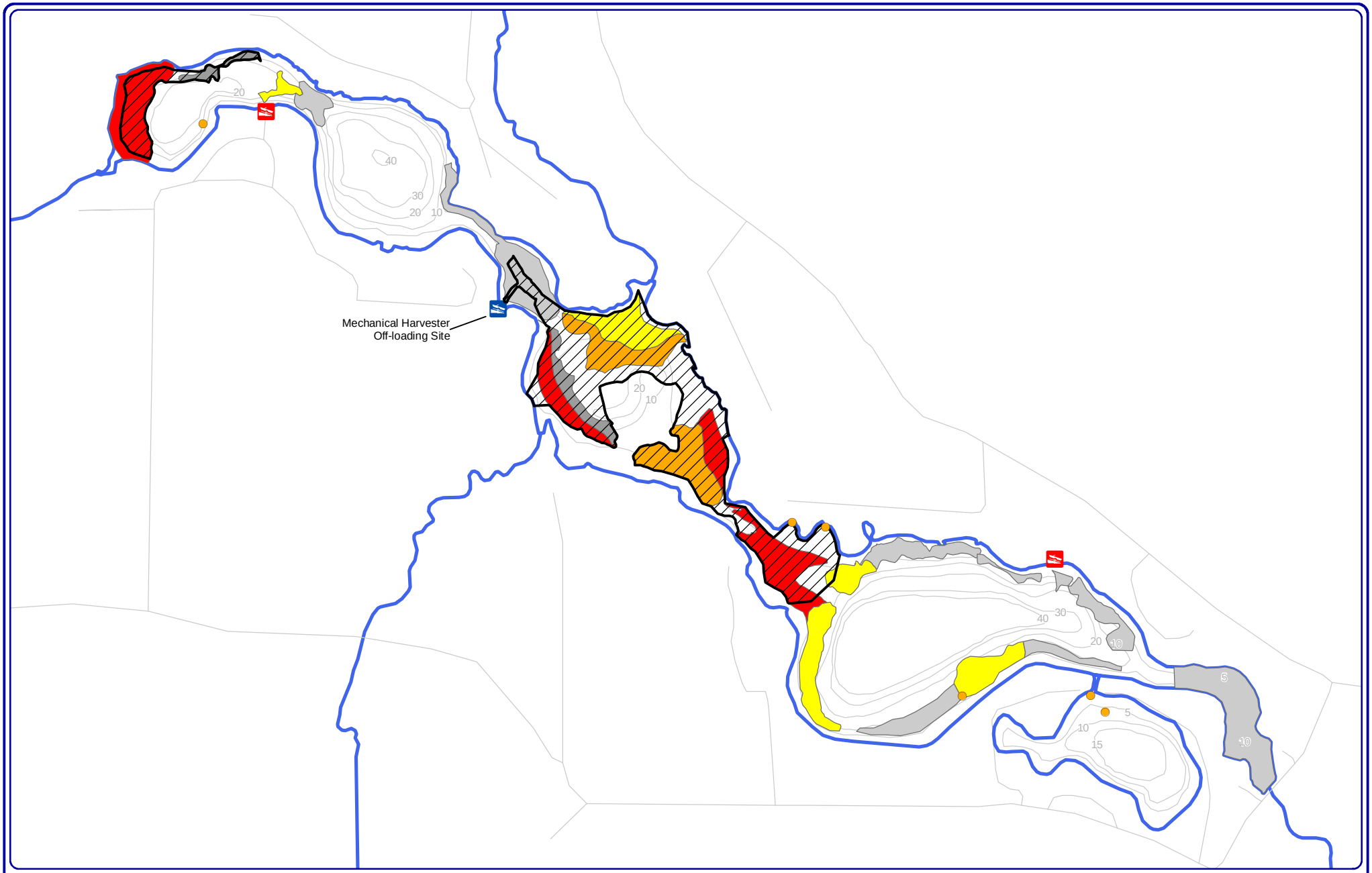
- Highly Scattered
- Scattered
- Dominant
- Highly Dominant
- Surface Matting
- Single or Few Plants
- Clumps of Plants
- Small Plant Colony
- 2006-2011 CLP Treatment Area

Map 9

Mt. Morris Lake

Waushara County, Wisconsin

May 2012 CLP Survey Results



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Sources:
Roads & Hydro: WDNR
Aquatic Plants: Onterra, 2012
Map date: May 16, 2012
File name: Map10_MM_CLPSurvey_May12.mxd



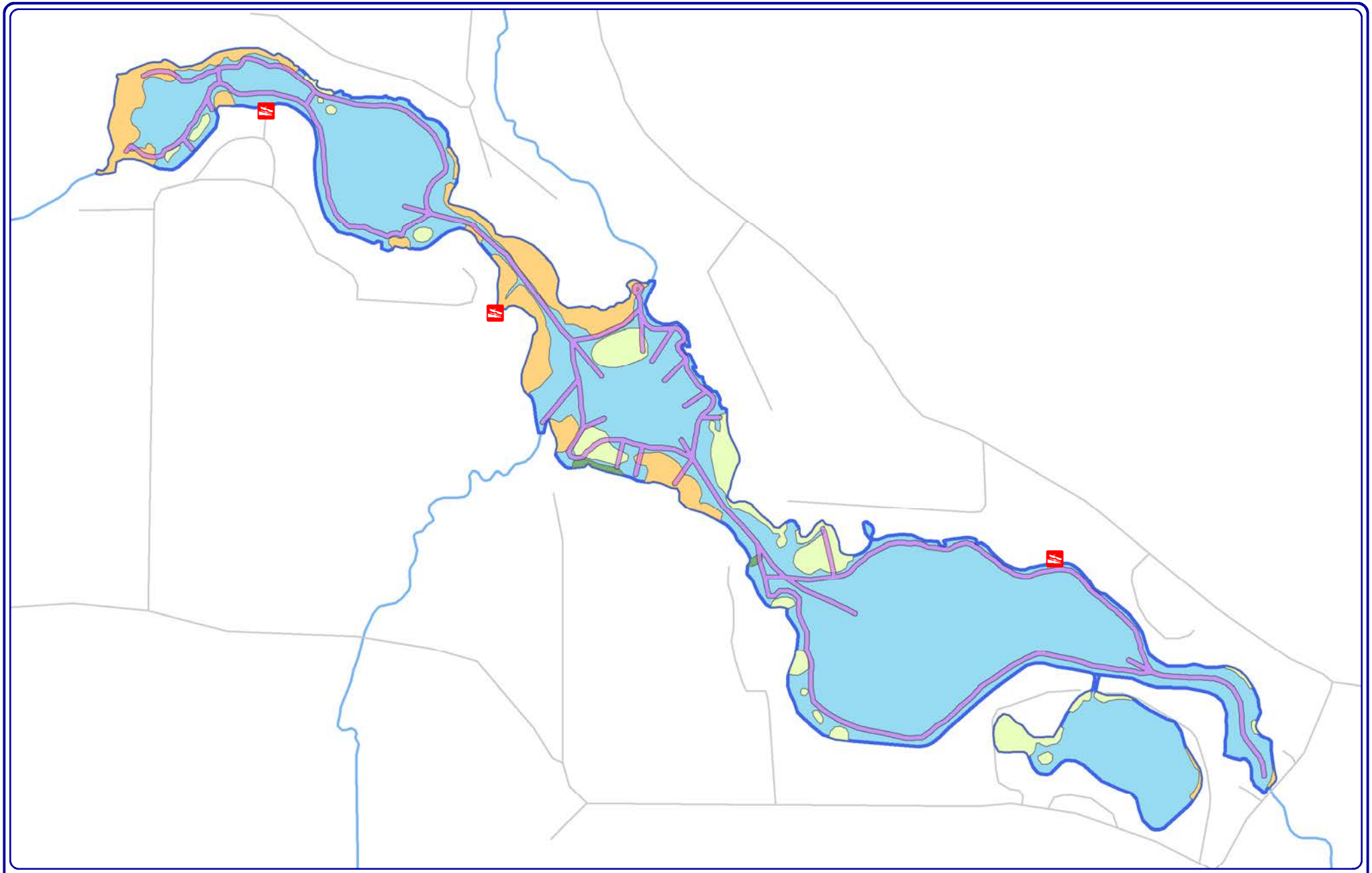
Project Location in Wisconsin

Legend

Curly-leaf Pondweed Locations ***(May 2012)***

- Highly Scattered
- Scattered
- Dominant
- Highly Dominant
- Surface Matting
- Single or Few Plants
- Clumps of Plants
- Small Plant Colony
- 2006-2011 CLP Treatment Area

Map 10
Mt. Morris Lake
Waushara County, Wisconsin
2004 CLP Survey Results



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Sources:
Roads and Hydro: WDNR
Map Date: March 5, 2012
Filename: Map11_MM_MechHarvestPlan.mxd



Project Location in Wisconsin

Legend

Harvest Lane (~30 feet wide)

Large Plant Communities

Emergent

Floating-leaf

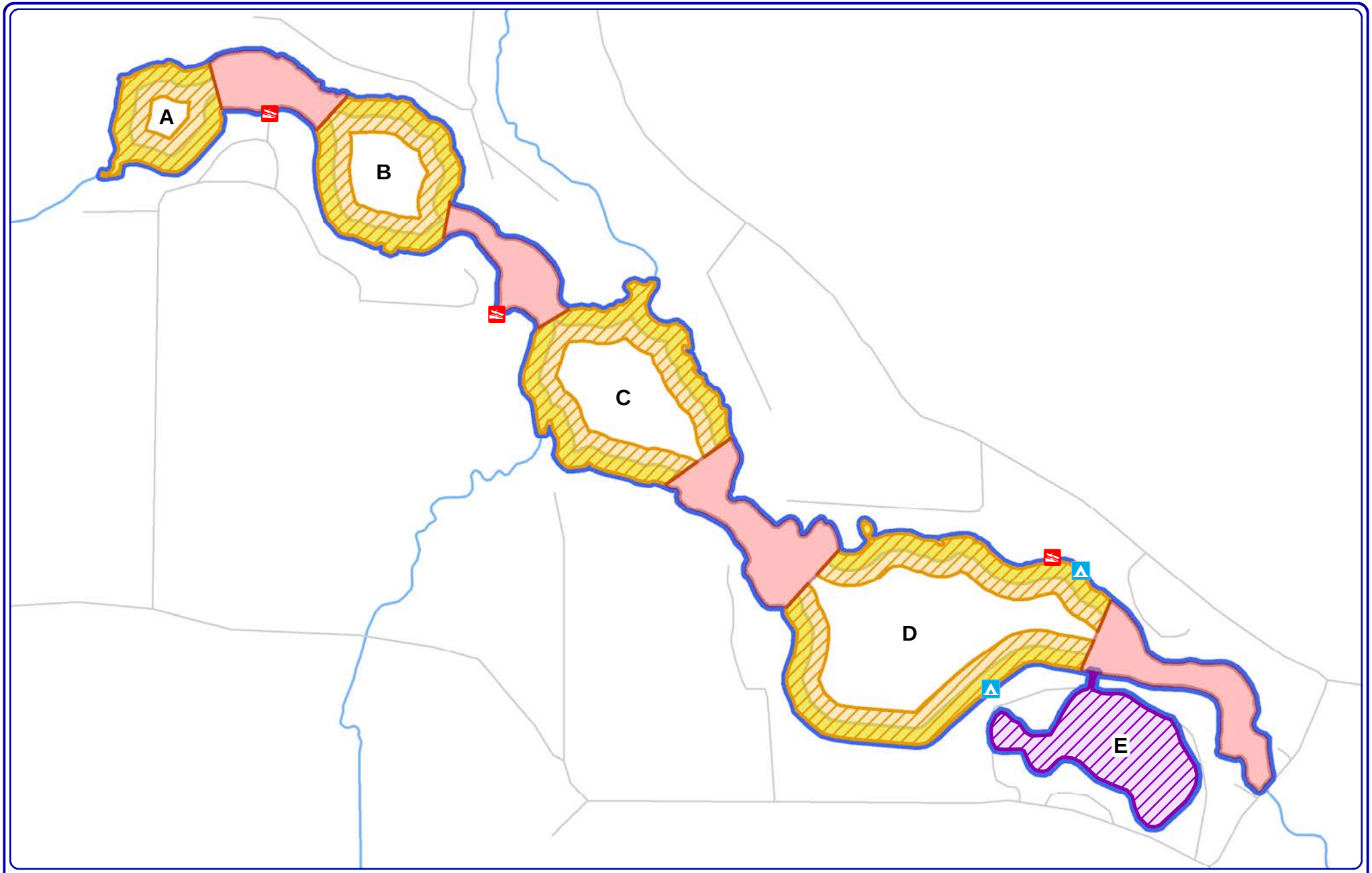
Floating-leaf & Emergent

Map 11

Mount Morris Lake

Waushara County, Wisconsin

Mechanical Harvest Plan



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Sources:
Roads and Hydro: WDNR
Map Date: April 27, 2012
Filename: Map12_MM_Watercraft_RegAreas.mxd



Project Location in Wisconsin

Legend

- All Watercraft Slow/No Wake Area
- Boating Slow/No Wake Area (100 ft)
- Personal Watercraft Slow/No Wake Area (200 ft)
- No Motorized Watercraft Area
- Public Access
- Swimming Area

Map 12

Mount Morris Lake

Waushara County, Wisconsin

Watercraft Regulation Areas