

1,500



Feet

**Onterra LLC**  
 Lake Management Planning  
 815 Prosper Road  
 De Pere, WI 54115  
 920.338.8860  
 www.onterra-eco.com

Sources:  
 Roads and Hydro: WDNR  
 Bathymetry: Onterra 2012 PI Survey  
 Map Date: April 26, 2013  
 Filename: Map1\_Mirror\_Location.mxd



Project Location in Wisconsin

**Legend**



Mirror Lake ~137 acres  
 WDNR Definition



Point-Intercept Survey Location  
 37-meter spacing, 400 total points



Water Quality Sampling Location



Public Access

Map 1  
 Mirror Lake  
 Sauk County

**Project Location  
 & Lake Boundaries**

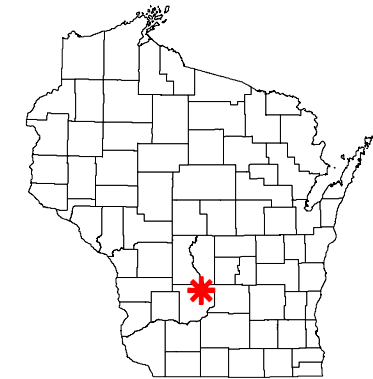


# Map 2

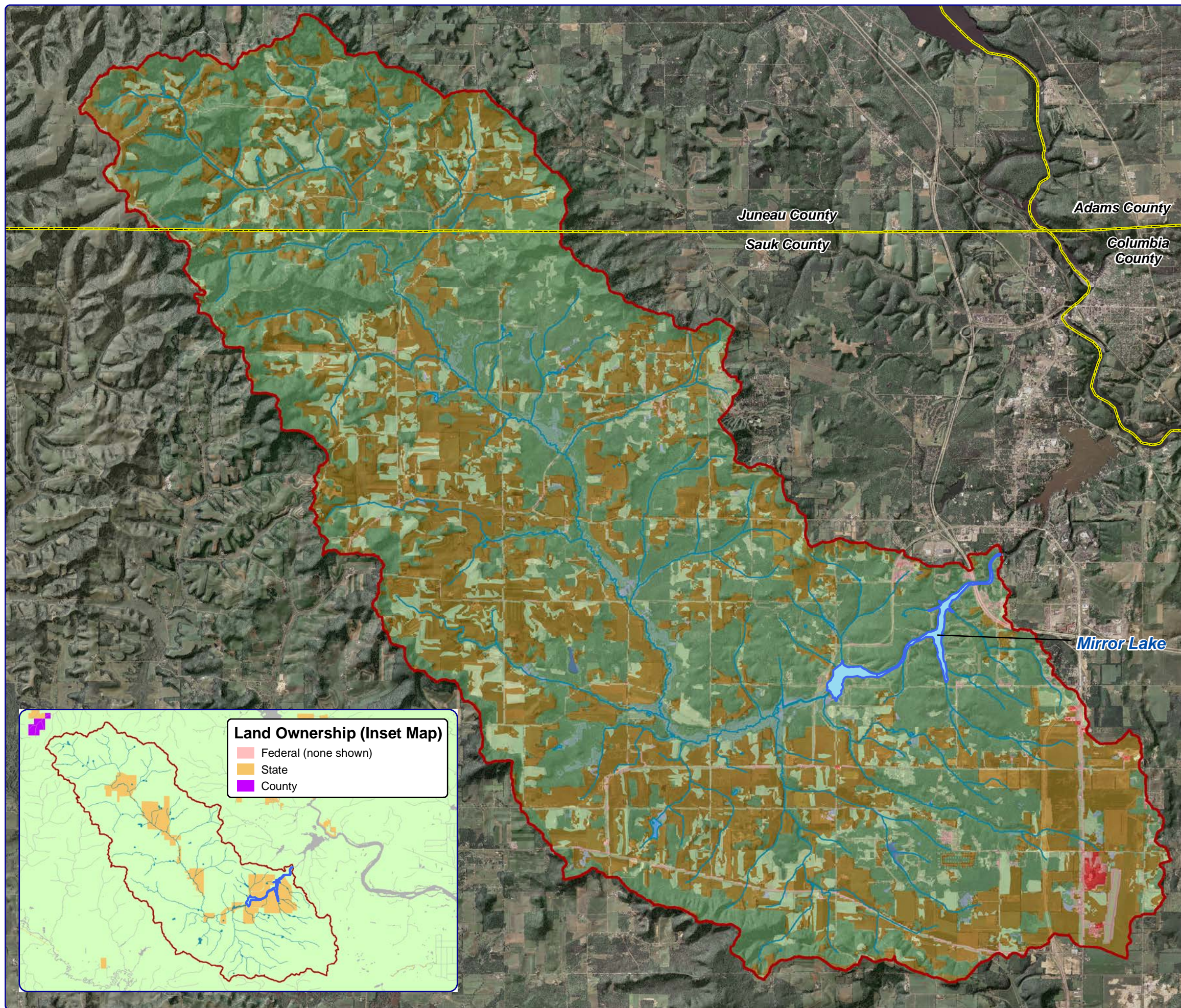
## Mirror Lake

Sauk County, Wisconsin

### Watershed Boundary & Land Cover Types



Project Location in Wisconsin



#### Legend

- Mirror Lake Watershed
- Land Cover Types**
- Forest
- Forested Wetlands
- Wetlands
- Open Water
- Mirror Lake
- River or Stream
- Rural Open Space
- Pasture/Grass
- Row Crops
- Rural Residential
- Urban - Medium Density
- Urban - High Density

**Land Ownership (Inset Map)**

- Federal (none shown)
- State
- County



**Sources:**  
 Land Cover: NCLD, 2006  
 Hydro: WDNR  
 Orthophotography: NAIP, 2010  
**Map Date:** April 25, 2013  
 Filename: Map2\_Mirror\_Watershed.mxd

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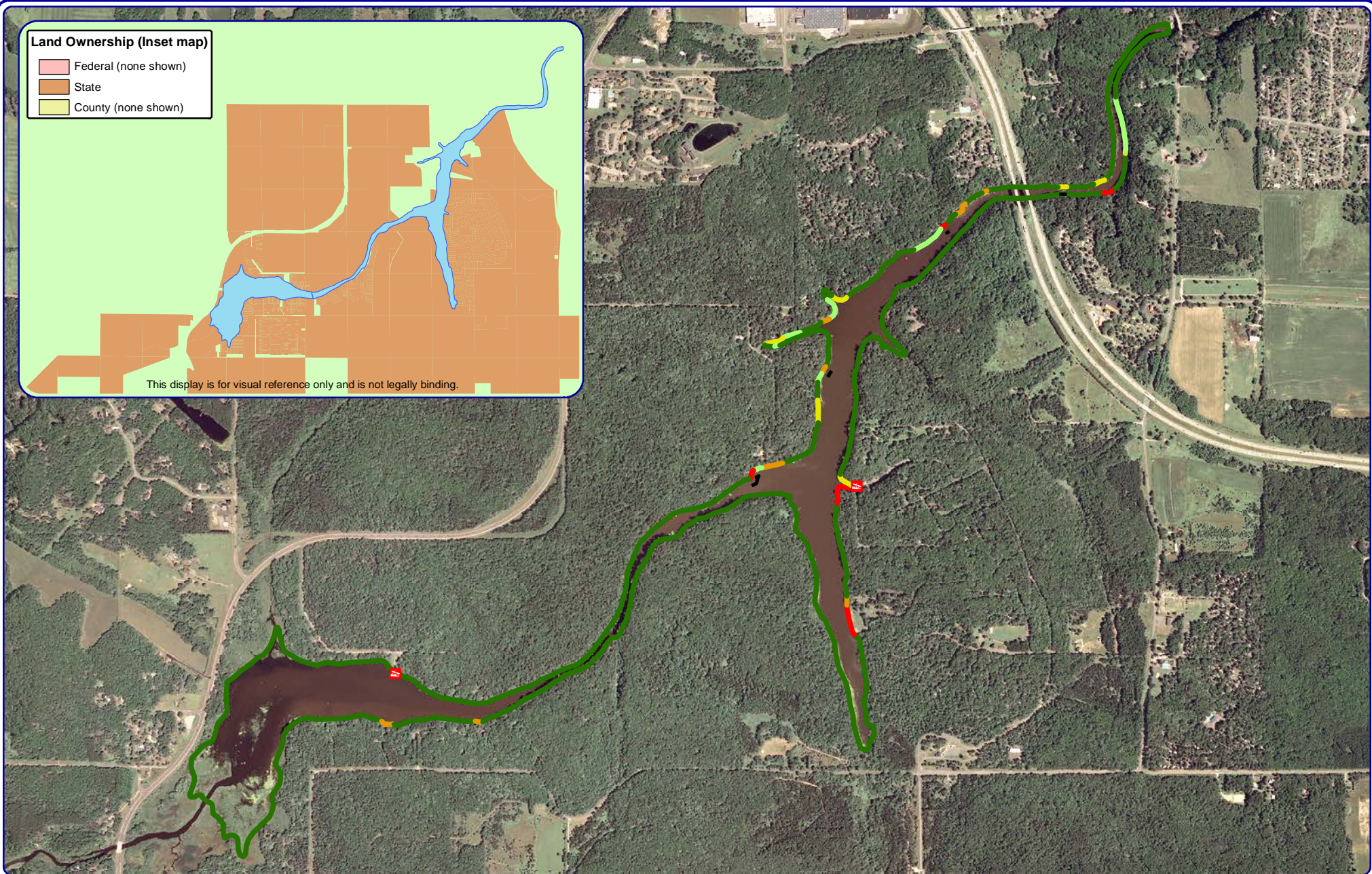
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**Land Ownership (Inset map)**

- Federal (none shown)
- State
- County (none shown)

This display is for visual reference only and is not legally binding.



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De Pere, WI 54115  
920.338.8860  
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Sources:  
Roads and Hydro: WDNR  
PI Survey: Onterra, 2012  
Map Date: May 7, 2013  
Filename: Map3\_Mirror\_ShorelandCondition.mxd



Project Location in Wisconsin

**Legend**

- Natural/Undeveloped
- Developed-Natural
- Developed-Semi-Natural
- Developed-Unnatural
- Urbanized

Seawall  
— Masonry/Wood

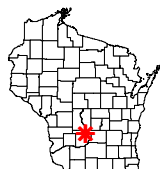
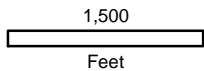
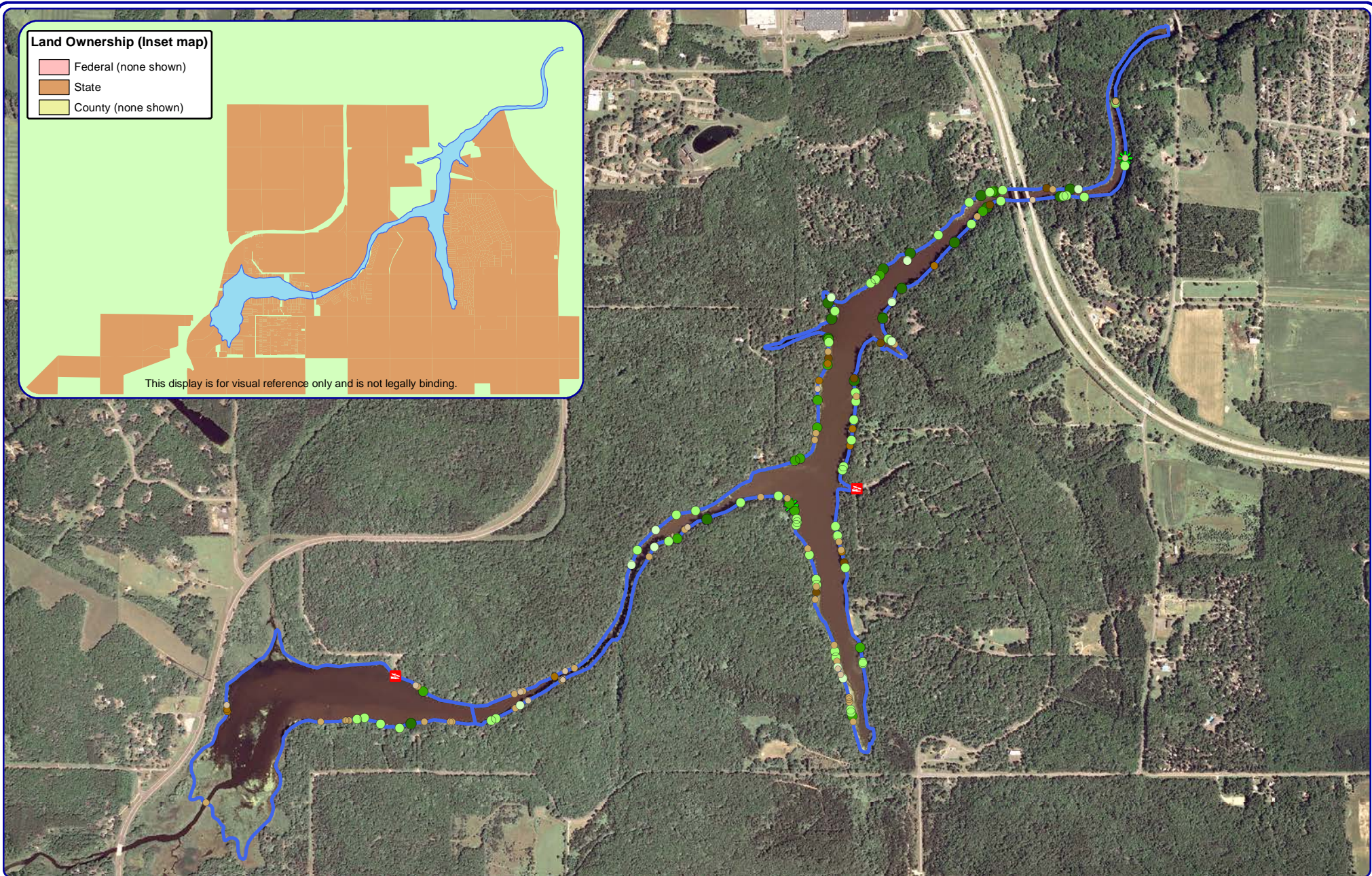
Map 3  
Mirror Lake  
Sauk County, Wisconsin  
**Shoreland Condition**



**Land Ownership (Inset map)**

- Federal (none shown)
- State
- County (none shown)

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Project Location in Wisconsin

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Sources:  
 Hydro: WDNR  
 CWH Survey: Onterra, 2012  
 Map Date: May 7, 2013  
 Filename: Map4\_Mirror\_CWH.mxd

**Legend**

**2-8 Inches**

- No Branches
- Minimal Branches
- Moderate Branches
- Full Canopy

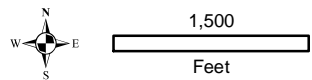
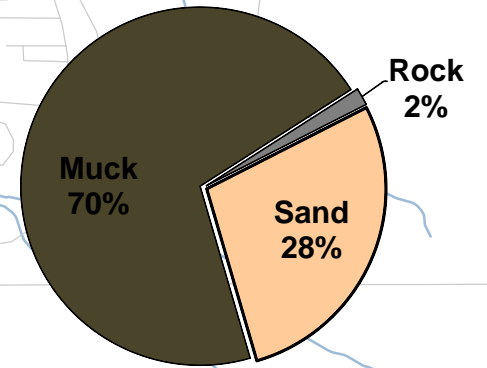
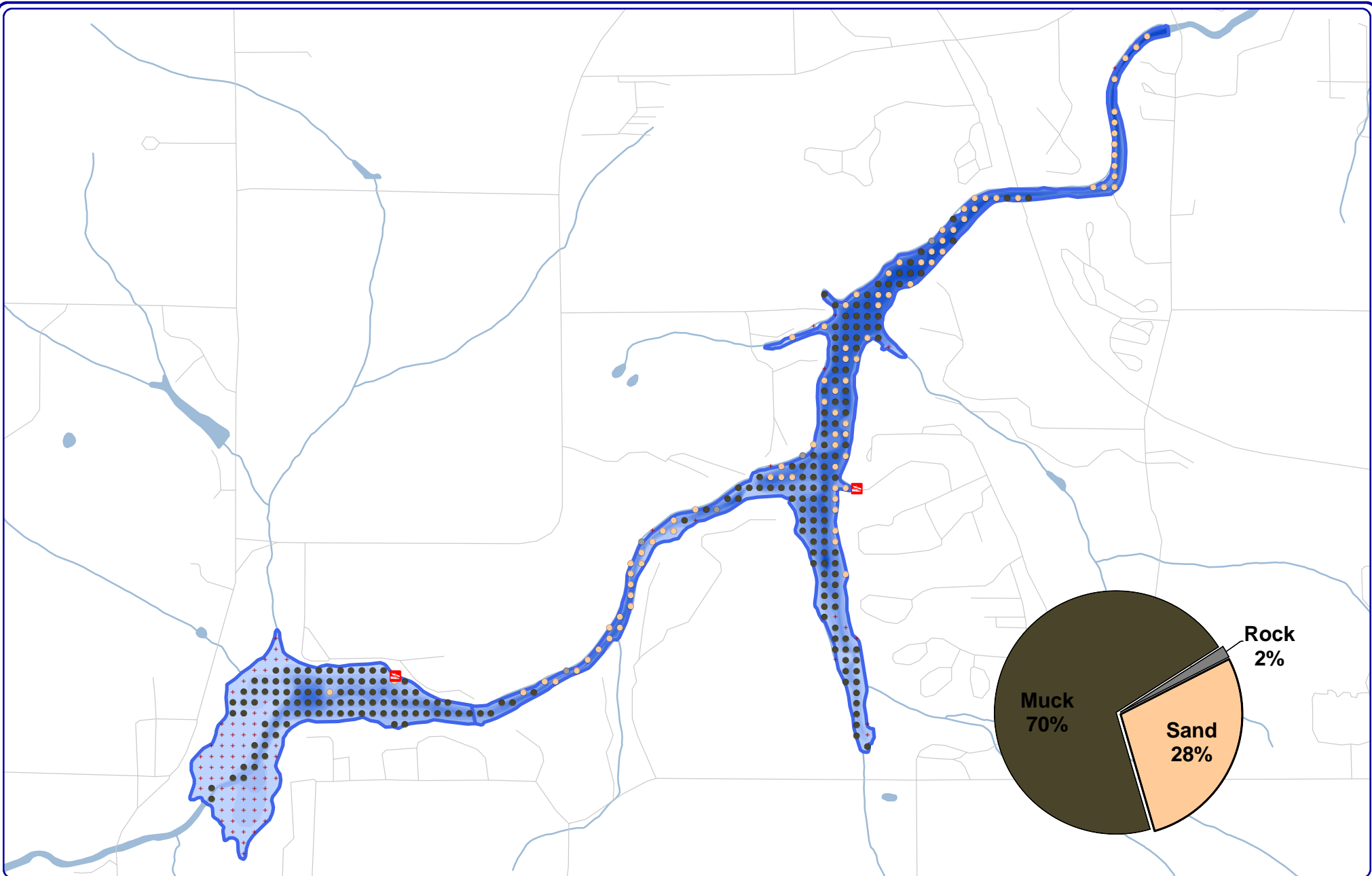
**>8 Inches**

- No Branches
- Minimal Branches
- Moderate Branches
- Full Canopy

Cluster

**Map 4**  
**Mirror Lake**  
 Sauk County, Wisconsin  
**Coarse Woody**  
**Habitat**





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Sources:  
 Roads and Hydro: WDNR  
 PI Survey: Onterra, 2012  
 Map Date: December 18, 2012  
 Filename: Map5\_Mirror\_SubstratePI.mxd

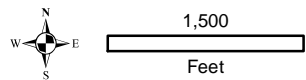
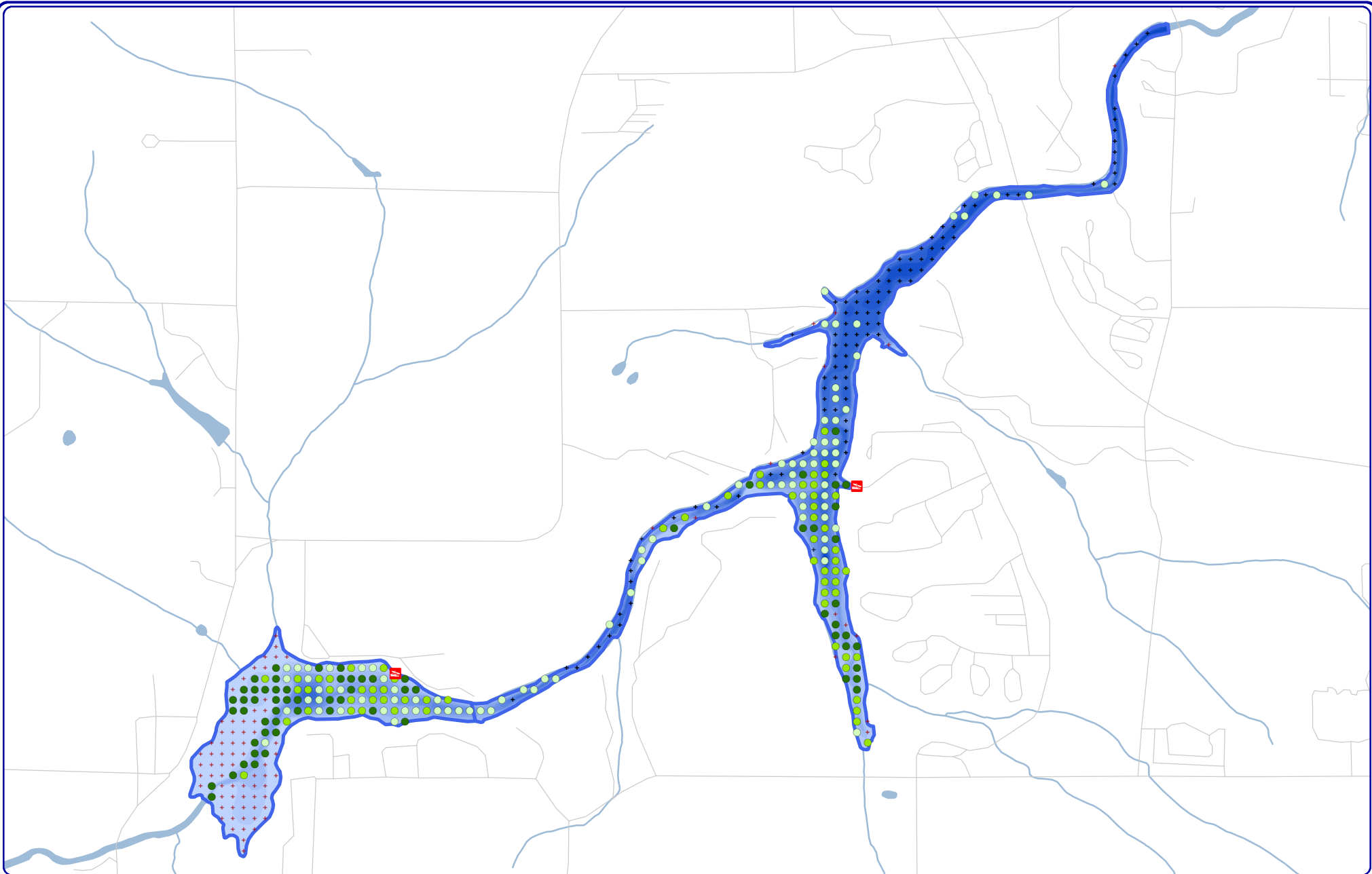


Project Location in Wisconsin

**Legend**  
**2012 Point-intercept Survey**

- Muck
- Rock
- Sand
- + Non-navigable

Map 5  
 Mirror Lake  
 Sauk County, Wisconsin  
**2012 PI Survey:  
 Substrate Types**



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Sources:  
 Roads and Hydro: WDNR  
 PI Survey: Onterra, 2012  
 Map Date: December 18, 2012  
 Filename: Map6\_Mirror\_TRFPL.mxd



Project Location in Wisconsin

- Legend**
- 2012 Point-intercept Survey**
- Total Rake-fullness = 1
  - Total Rake-fullness = 2
  - Total Rake-fullness = 3
  - + No Vegetation
  - + Non-navigable

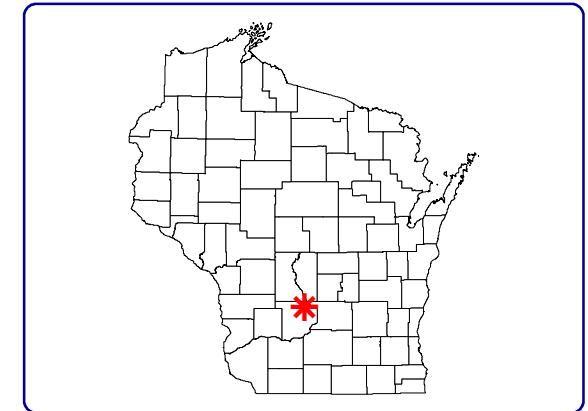
**Map 6**  
**Mirror Lake**  
 Sauk County, Wisconsin  
**2012 PI Survey:**  
**Aquatic Vegetation**  
**Distribution**



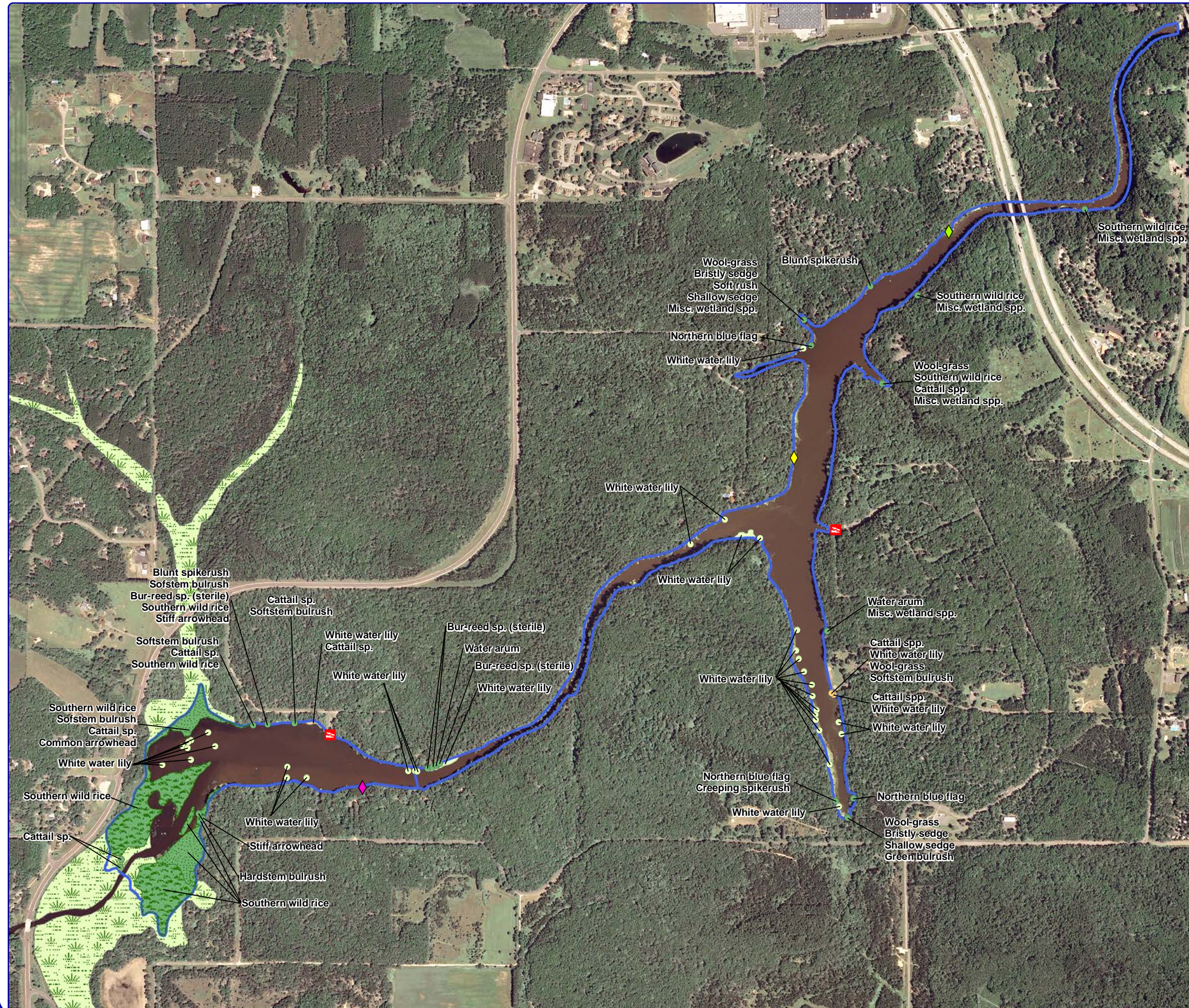
# Map 7 Mirror Lake

Sauk County, Wisconsin

## Emergent & Floating-leaf Aquatic Plant Communities



Project Location in Wisconsin



### Legend

#### Small Native Plant Community

- Emergent
- Floating-leaf
- Mixed Emergent & Floating-leaf

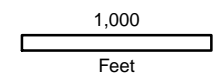
#### Large Native Plant Community

- Emergent
- Floating-leaf
- Mixed Emergent & Floating-leaf
- Adjacent Wetland Habitat

- #### Southern Wild Rice
- Sparse
  - Dense

#### Non-native Plant Community

- ◆ Pale-yellow iris
- ◆ Japanese knotweed
- ◆ Sweetflag

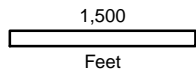
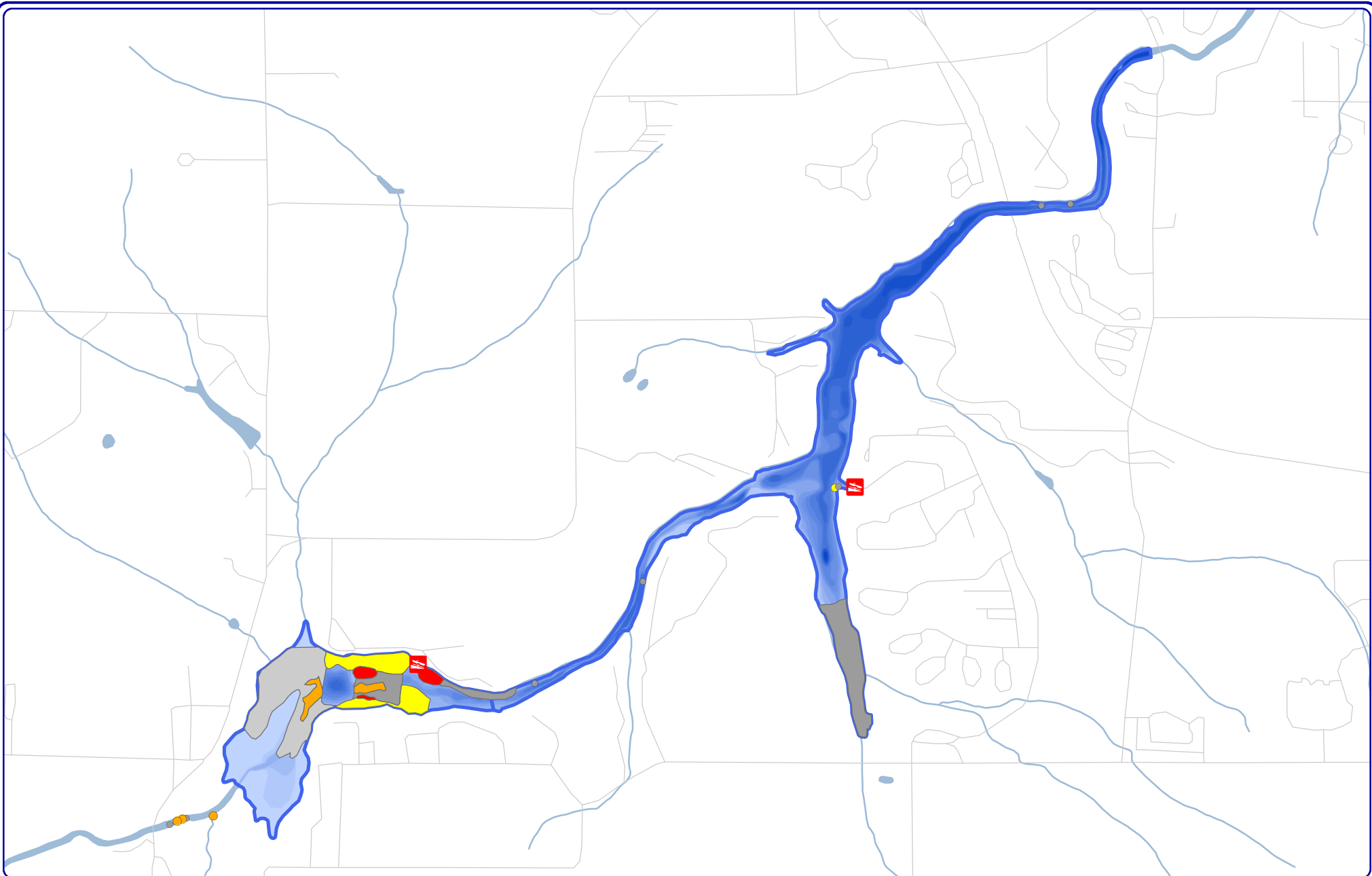


Sources:  
Hydro: WDNR  
Orthophotography: NAIP, 2010  
Aquatic Plant Survey: Onterra, 2012  
Map Date: May 1, 2013  
Filename: Map7\_Mirror\_Comm.mxd

**Onterra LLC**  
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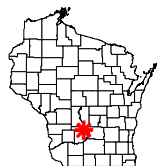
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De Pere, WI 54115  
920.338.8860  
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 Lake Management Planning  
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 De Pere, WI 54115  
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Sources:  
 Roads & Hydro: WDNR  
 Aquatic Plants: Onterra, 2012  
 Map date: June 7, 2012  
 Filename: Map8\_Mirror\_CLPPB\_May12.mxd



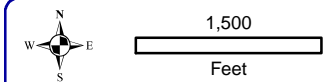
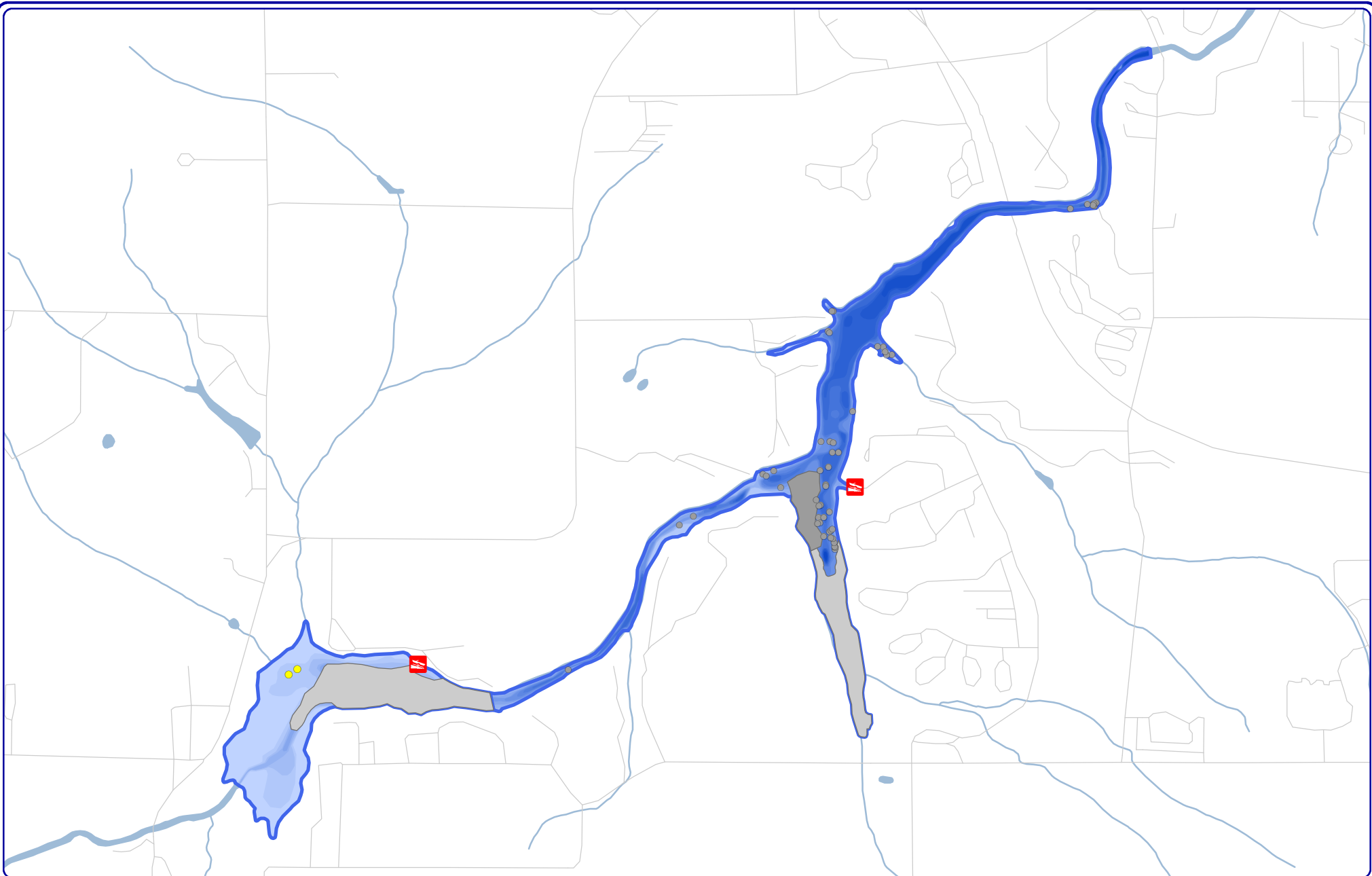
Project Location in Wisconsin

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

- |                  |                      |               |
|------------------|----------------------|---------------|
| Highly Scattered | Single or Few Plants | Public Access |
| Scattered        | Clumps of Plants     |               |
| Dominant         | Small Plant Colony   |               |
| Highly Dominant  |                      |               |
| Surface Matting  |                      |               |

**Map 8**  
**Mirror Lake**  
 Sauk County, Wisconsin  
**Curly-leaf Pondweed**  
**Locations**





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 815 Prosper Road  
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Sources:  
 Roads & Hydro: WDNR  
 Aquatic Plants: Onterra, 2012  
 Map date: June 7, 2012  
 Filename: Map9\_Mirror\_EWMPB\_Aug12.mxd



Project Location in Wisconsin

- Eurasian water milfoil (August 2012)**
- Highly Scattered
  - Scattered
  - Dominant
  - Highly Dominant
  - Surface Matting
  - Single or Few Plants
  - Clumps of Plants
  - Small Plant Colony
  - Public Access

**Map 9**  
**Mirror Lake**  
 Sauk County, Wisconsin  
**Eurasian water milfoil**  
**Locations**