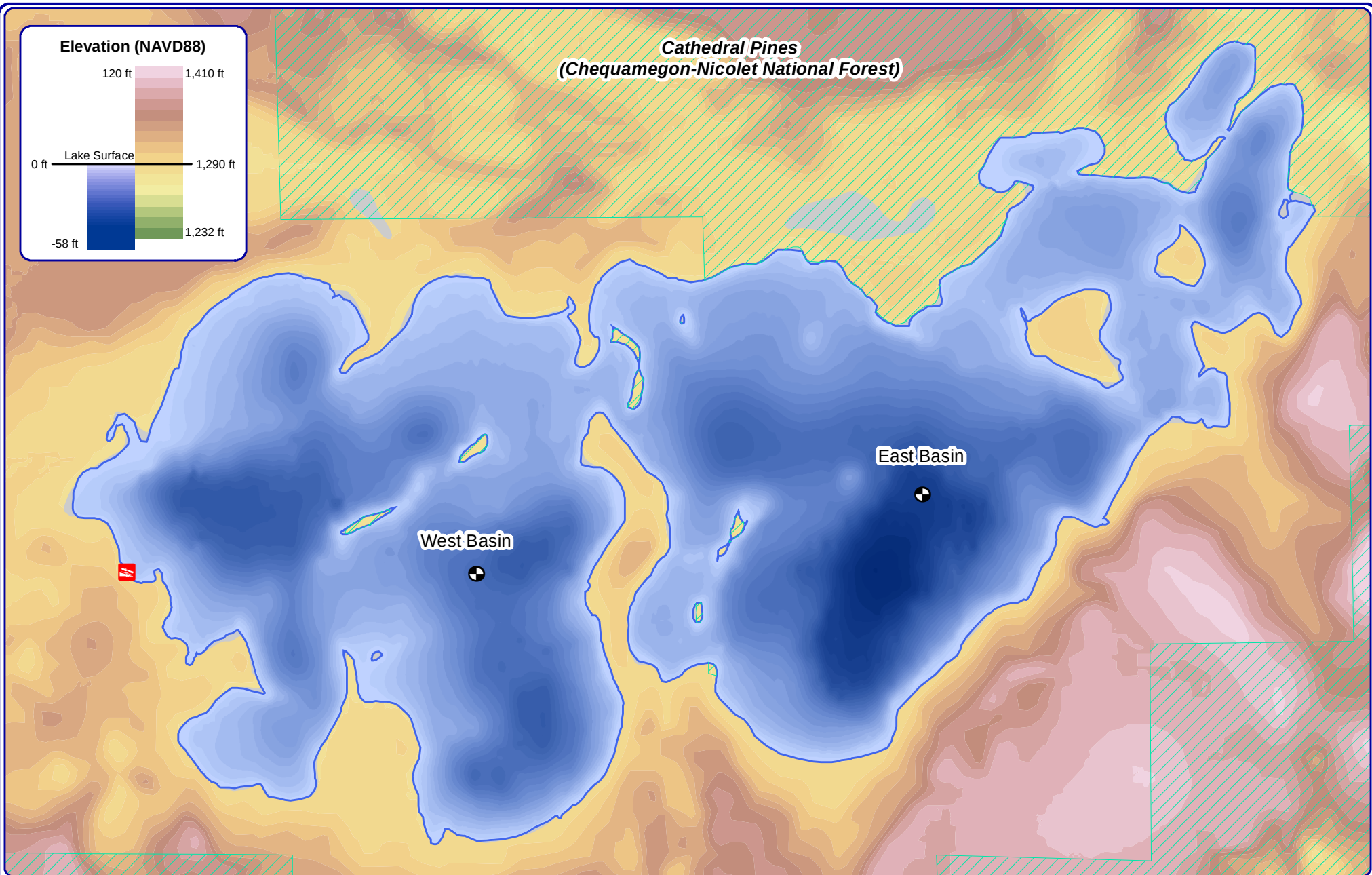
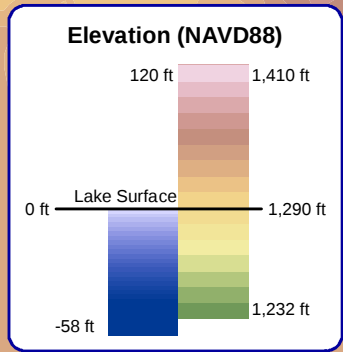


Onterra LLC
Lake Management Planning

815 Prosper Rd
De Pere, WI 54115
920.338.8860
www.onterra-eco.com

Sources:
Hydro: WDNR
Bathymetry: Onterra, 2016
Elevation: NED 10m DEM
Map Date: November 3, 2015



Extent of large map shown in red.

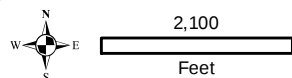
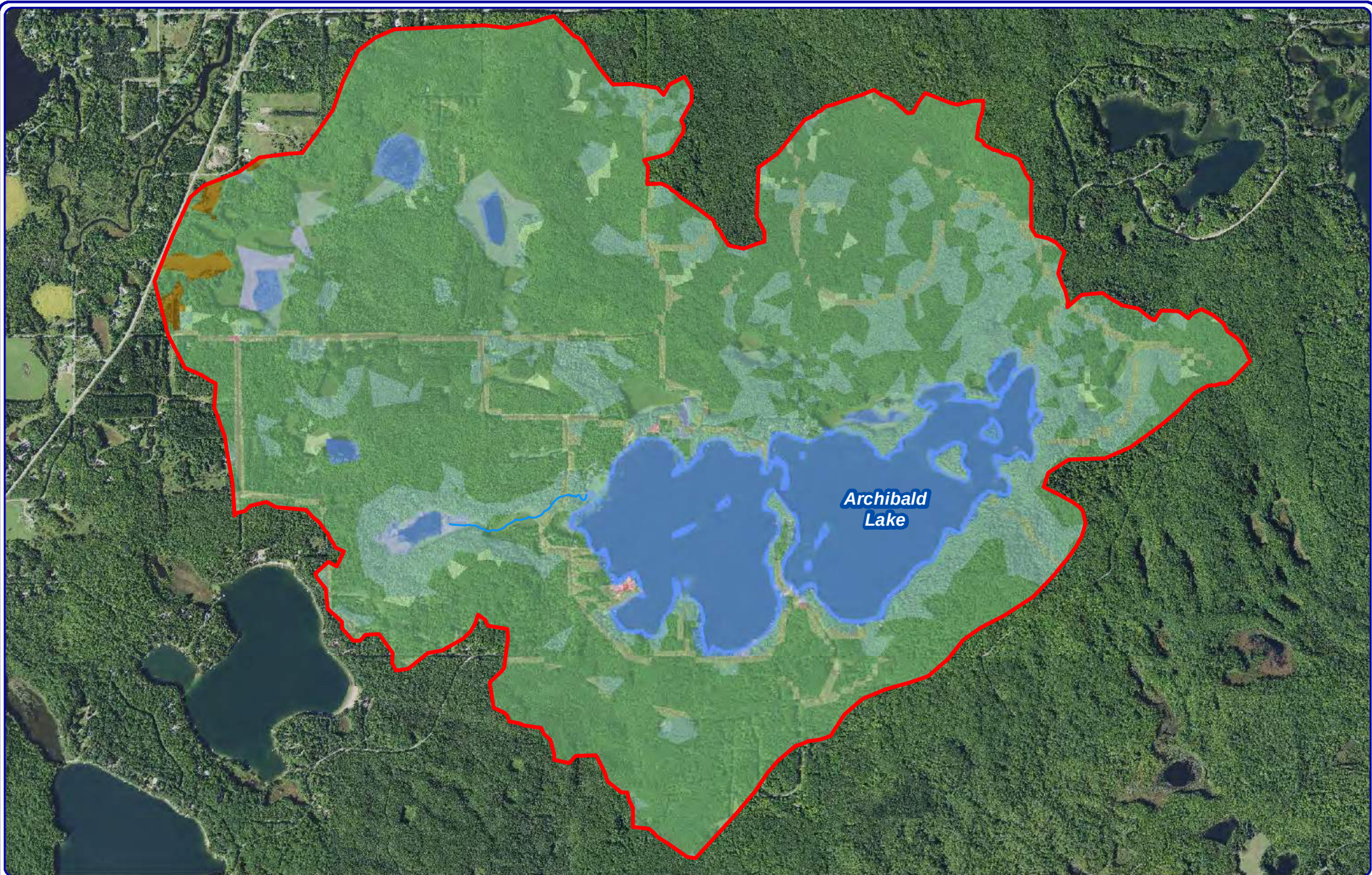
Legend

-  Archibald Lake ~ 393 Acres
WDNR Definition
-  National Forest Lands
(Cathedral Pines)
-  Public Access

Map 1

Archibald Lake
Oconto County, Wisconsin

**Project Location
and Boundaries**



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

Sources:
 Hydro: WDNR
 Bathymetry: Onterra 2016
 Orthophotography: NAIP 2015
 Land Cover: NLCD 2011
 Watershed Boundaries: Onterra 2016
Map Date: January 11, 2017
 Filename: MapX_Archibald_WS.mxd



Project Location in Wisconsin

Legend

- | Land Cover Types | |
|------------------|----------------------|
| | Forest |
| | Forested Wetlands |
| | Wetlands |
| | Open Water |
| | Rural Open Space |
| | Pasture/Grass |
| | Row Crops |
| | Rural Residential |
| | Medium Density Urban |

- Archibald Lake Watershed Boundary
- River/Stream

Map 2

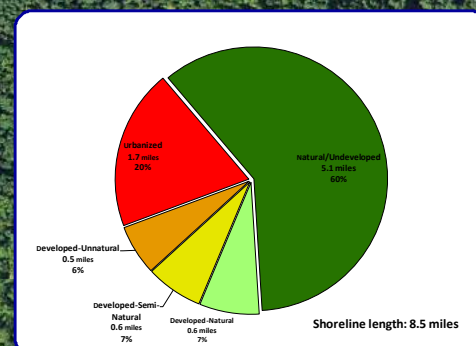
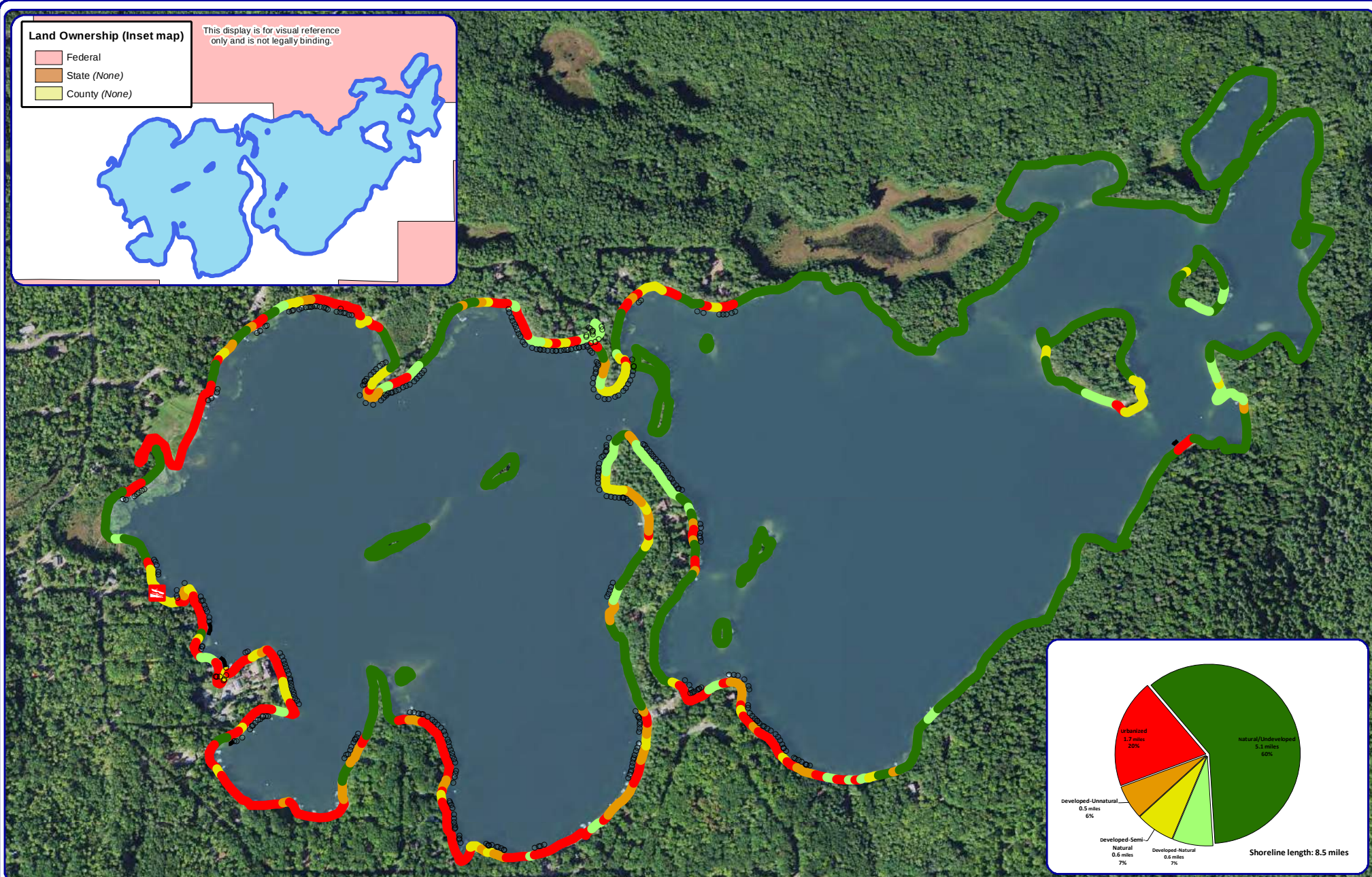
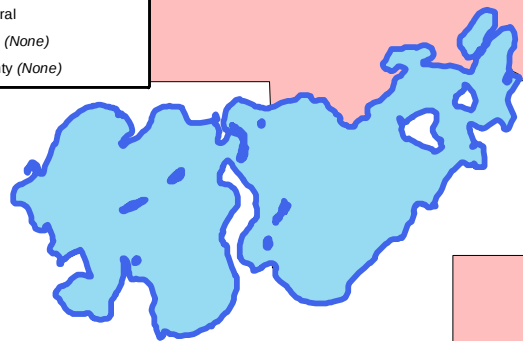
Archibald Lake
 Oconto County, Wisconsin

Watershed & Land Cover Types

Land Ownership (Inset map)

- Federal
- State (None)
- County (None)

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



800

Feet

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

Sources:

Federal Lands: USDA Forest Service
Hydro, State Land and Roads: WDNR
Aquatic Plant Survey: Onterra, 2016
Map Date: November 16, 2016
Filename: Archibald_SCA_2016.mxd



Project Location in Wisconsin

Legend

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

Seawall

Masonry/Wood

Rip-Rap

Map 3

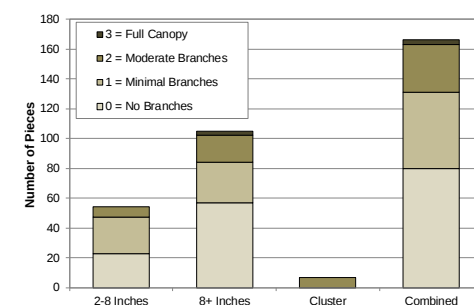
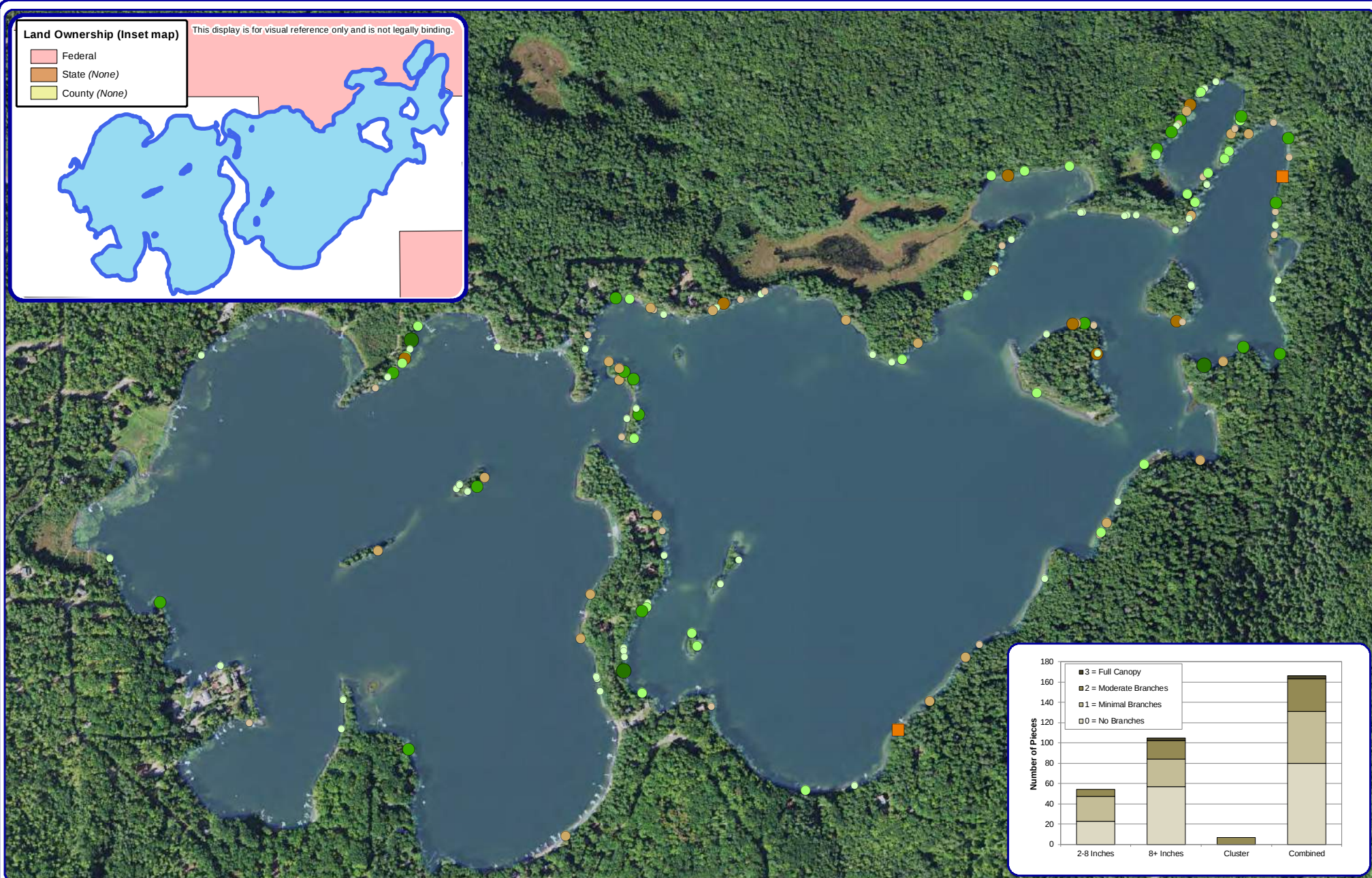
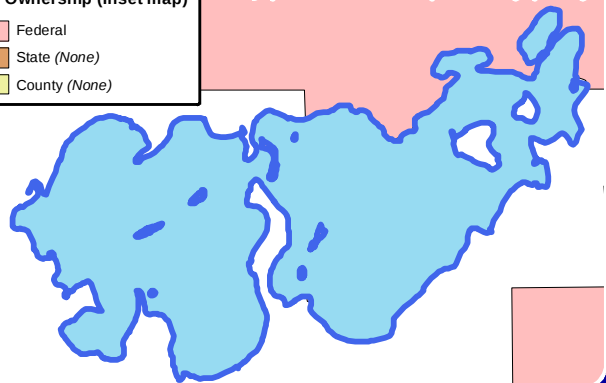
Archibald Lake
Oconto County, Wisconsin

**2016 Shoreland
Condition**

Land Ownership (Inset map)

- Federal
- State (None)
- County (None)

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



800
Feet



Project Location in Wisconsin

Legend

2-8 Inch Pieces

- No Branches
- Minimal Branches
- Moderate Branches
- Full Canopy (None)

8+ Inch Pieces

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

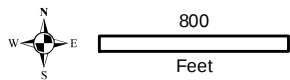
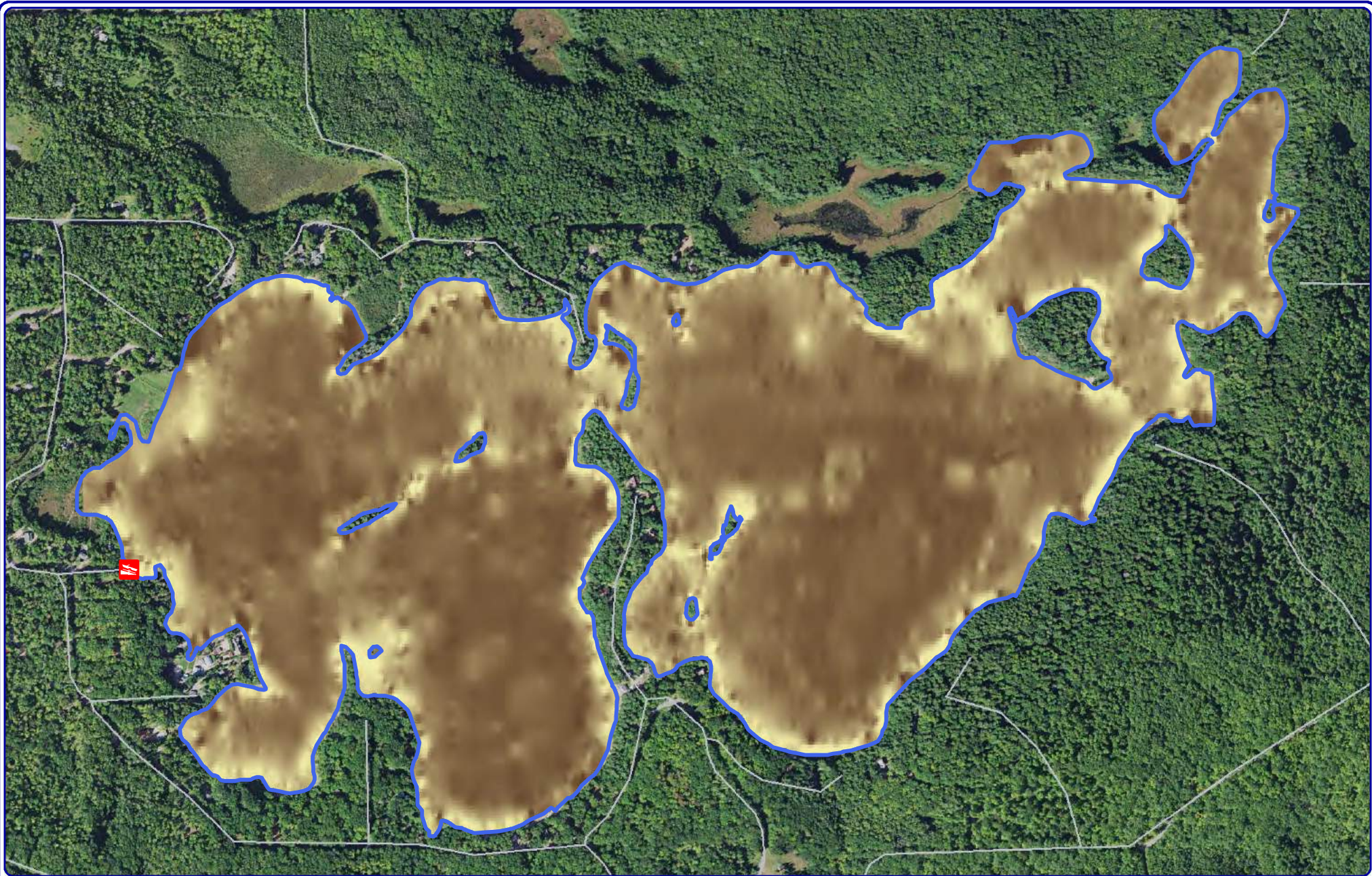
Cluster of Pieces

- No Branches (None)
- Minimal Branches (None)
- Moderate Branches
- Full Canopy (None)

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

Sources:
Federal Lands: USDA Forest Service
Hydro, State Land and Roads: WDNR
Aquatic Plant Survey: Onterra, 2016
Map Date: November 18, 2016
Filename: Archibald_CWH_2016.mxd

Map 4
Archibald Lake
Oconto County, Wisconsin
**2016 Coarse Woody
Habitat Survey Results**



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

Sources:
 Hydro: WDNR
 Substrate Hardness: Onterra 2016
 Orthophotography: NAIP 2015
 Map Date: April 3, 2017
 Filename: Archibald_Acoustic_Sediment.mxd

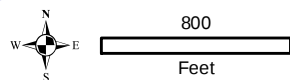
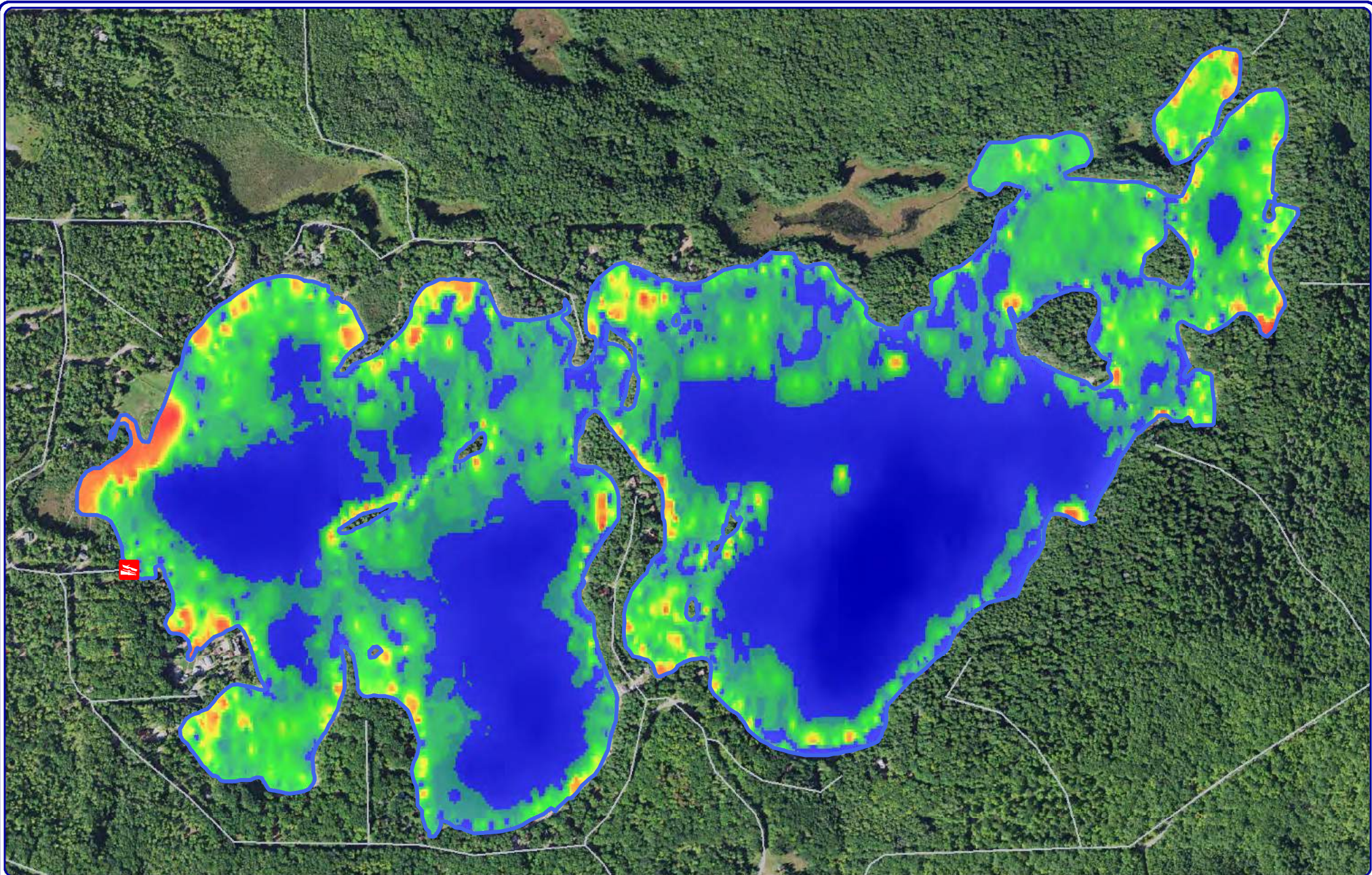


Project Location in Wisconsin

Legend



Map 5
 Achibald Lake
 Oconto County, Wisconsin
**2016 Bio-Acoustic
 Survey Results -
 Substrate Hardness**



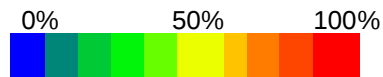
Onterra LLC
 Lake Management Planning
 815 Prosper Road
 De Pere, WI 54115
 920.338.8860
www.onterra-eco.com

Sources:
 Hydro: WDNR
 Bio-volume: Onterra 2016
 Orthophotography: NAIP 2015
 Map Date: April 3, 2017
 Filename: Archibald_Acoustic_Veg.mxd



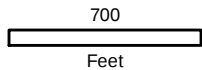
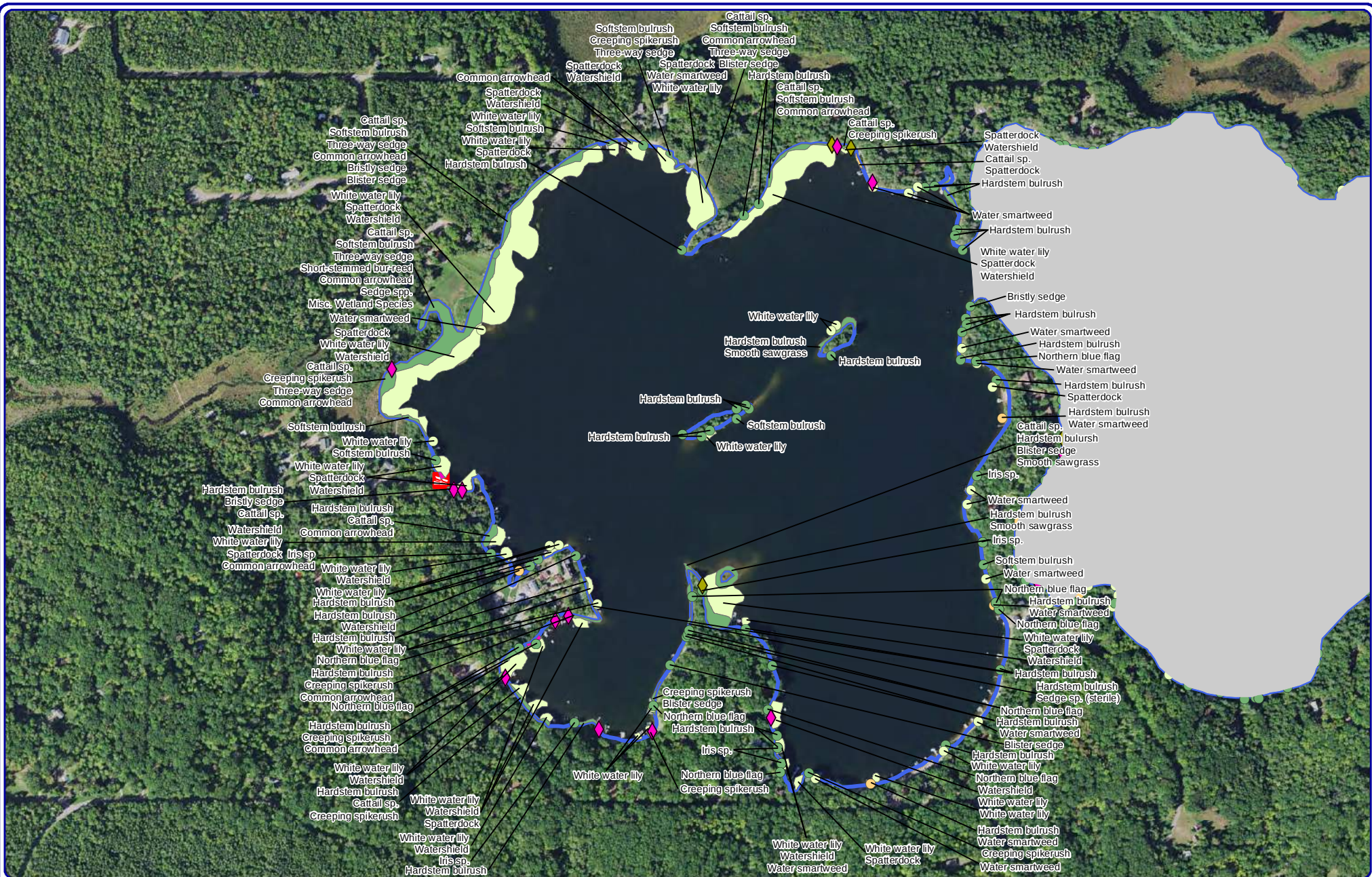
Project Location in Wisconsin

Legend



Bio-volume (%)

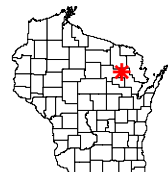
Map 6
 Archibald Lake
 Oconto County, Wisconsin
**2016 Acoustic
 Survey Results-
 Aquatic Plant Bio-Volume**



Onterra LLC
Lake Management Planning

815 Prosper Rd
De Pere, WI 54115
920.338.8860
www.onterra-eco.com

Sources:
Roads and Hydro: WDNR
Plant Survey: Onterra, 2016
Map Date: November 14, 2016
Filename: Archibald_Comm_Summer16_west.mxd



Project Location in Wisconsin

Legend

Small Plant Communities

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

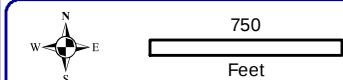
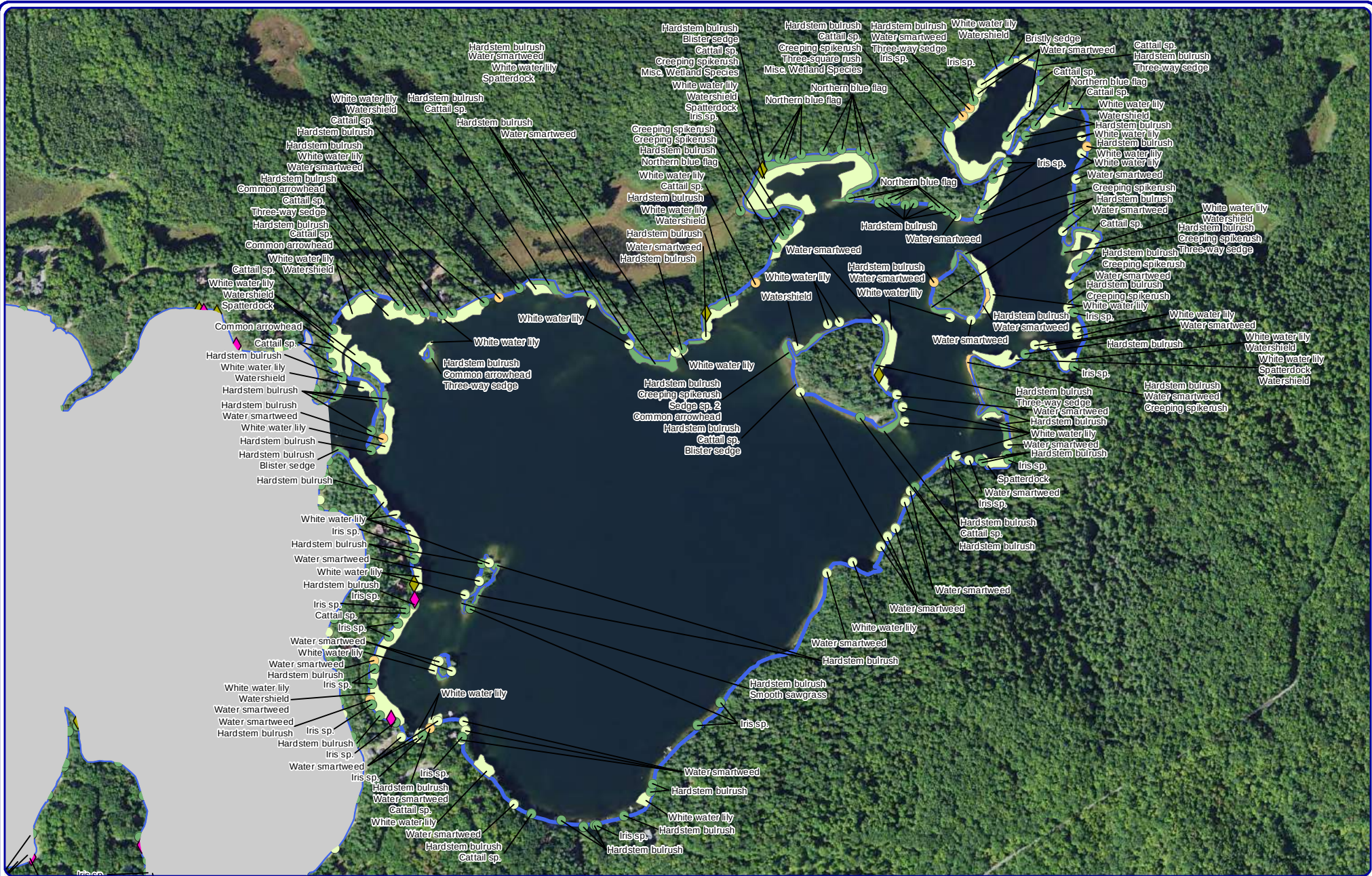
Large Plant Communities

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

Exotic Plant Communities

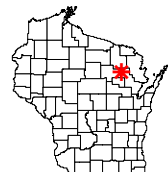
- ◆ Giant reed
- ◆ Flowering rush
- ✱ Flowering rush

Map 7
Archibald Lake - West
Oconto County, Wisconsin
**2016 Community
Mapping Survey**



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

Sources:
Roads and Hydro: WDNR
Plant Survey: Onterra, 2016
Map Date: November 14, 2016
Filename: Archibald_Comm_Summer16_east.mxd



Project Location in Wisconsin

Legend

Small Plant Communities

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

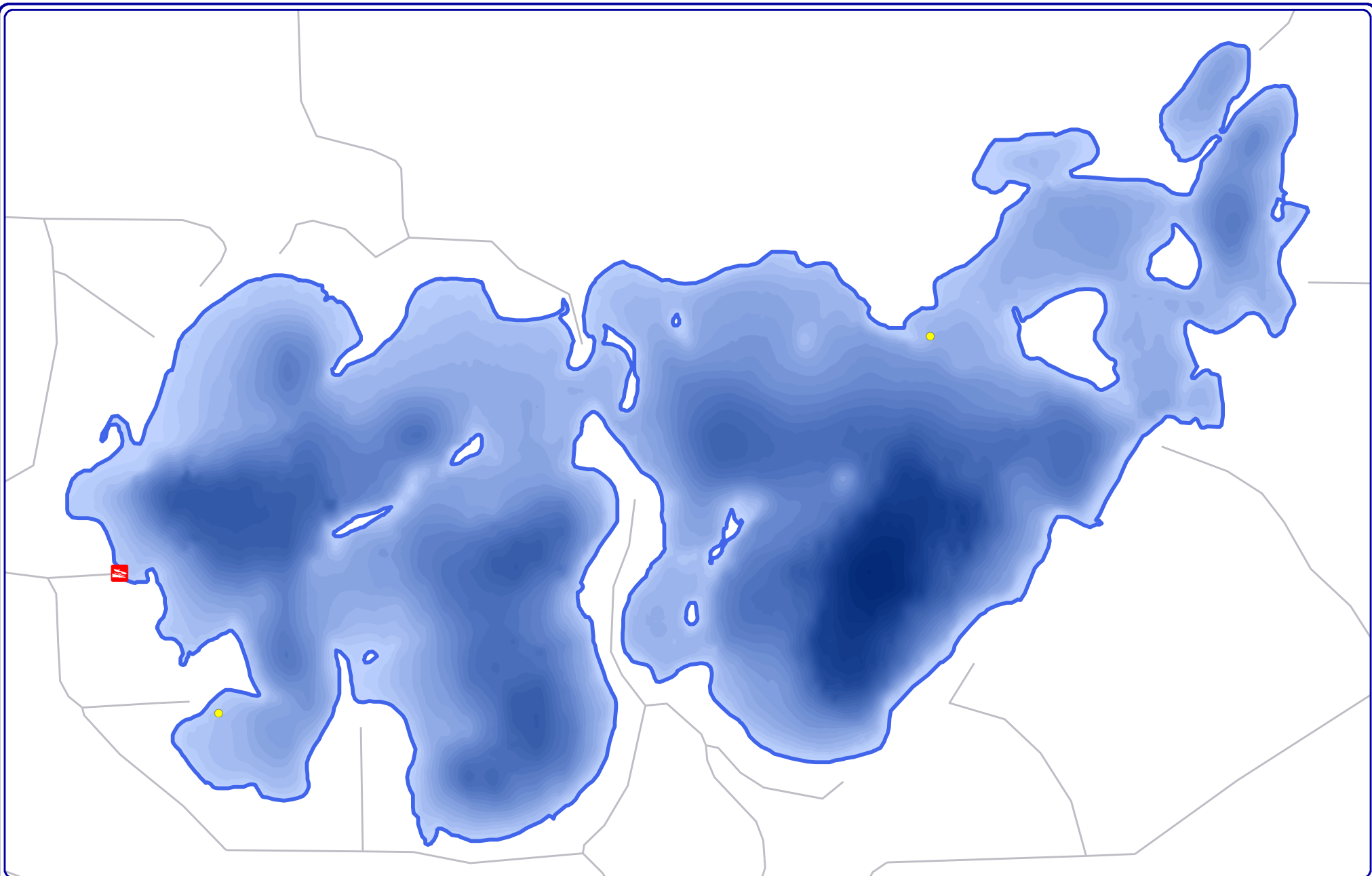
Large Plant Communities

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

Exotic Plant Communities

- ◆ Giant reed
- ◆ Flowering rush
- ◆ Flowering rush

Map 8 Archibald Lake - East Oconto County, Wisconsin 2016 Community Mapping Survey



800
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: WDNR - digitized by Onterra
Orthophotography: NAIP, 2015
Aquatic Plants: Onterra, 2016
Map Date: October 17, 2016
Filename: Archibald_EWM_PB_Sept16.mxd



Project Location in Wisconsin

Legend

- | | | | |
|--|----------------------------------|--|--------------------------------------|
| | Highly Scattered (<i>none</i>) | | Single or Few Plants (<i>none</i>) |
| | Scattered (<i>none</i>) | | Clump of Plants |
| | Dominant (<i>none</i>) | | Small Plant Colony (<i>none</i>) |
| | Highly Dominant (<i>none</i>) | | |
| | Surface Matting (<i>none</i>) | | |

Map 9

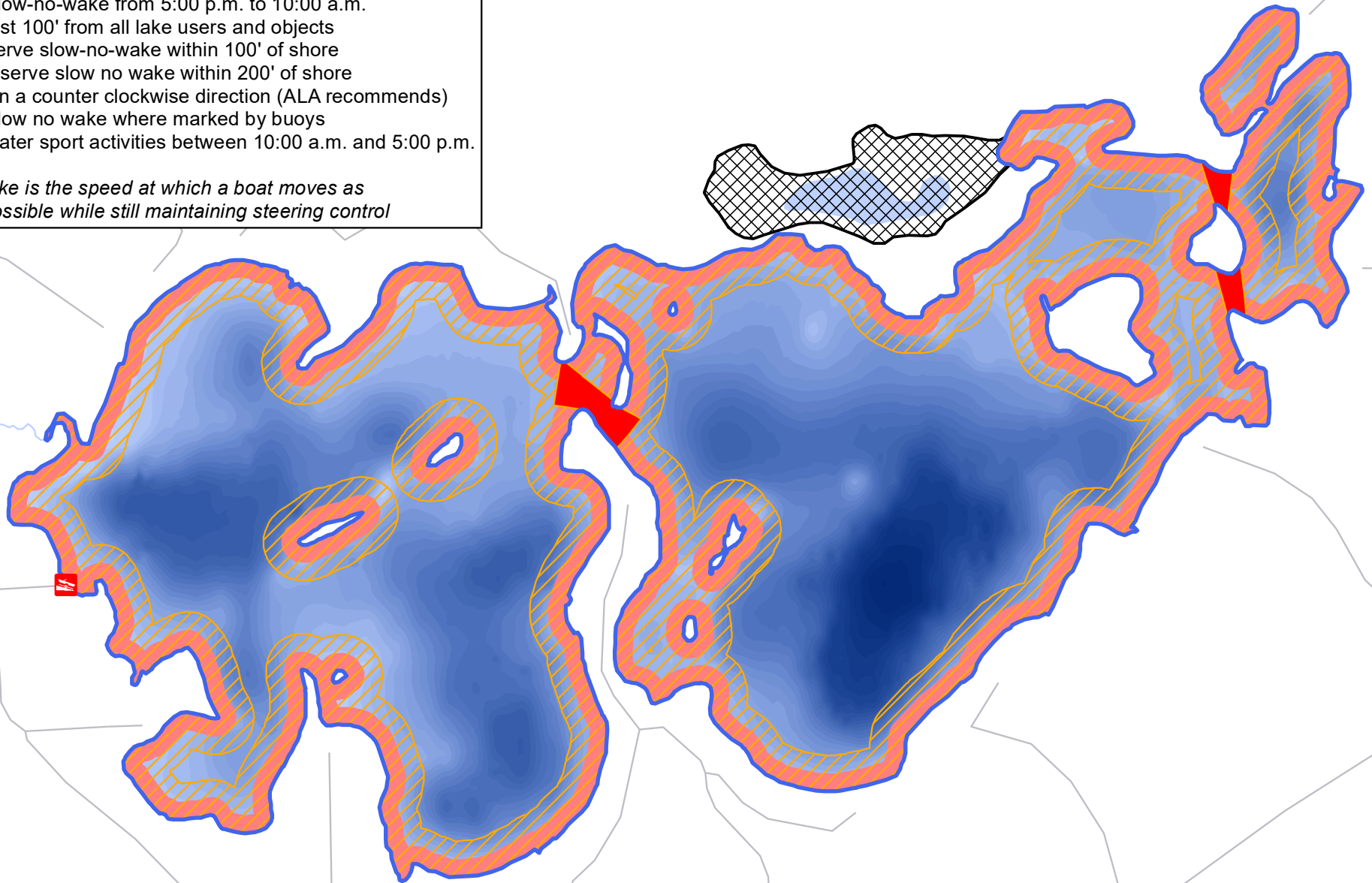
Archibald Lake
Oconto County, Wisconsin

**2016 Late-Summer
EWM Survey Results**

Boating Regulations

- Observe slow-no-wake from 5:00 p.m. to 10:00 a.m.
- Stay at least 100' from all lake users and objects
- Boats observe slow-no-wake within 100' of shore
- Jet skis observe slow no wake within 200' of shore
- Water ski in a counter clockwise direction (ALA recommends)
- Observe slow no wake where marked by buoys
- Respect water sport activities between 10:00 a.m. and 5:00 p.m.

Slow-no-wake is the speed at which a boat moves as slowly as possible while still maintaining steering control



830

Feet

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

Sources:
Hydro and Roads: WDNR
Orthophotography: NAIP, 2015
Bathymetry: Onterra, 2016;
processed by C-Map USA
Slow-No-Wake Zones: Onterra and the ALA
Map Date: November 10, 2017
Filename: Archibald_Slow-No-Wake.mxd



Project Location in Wisconsin

Legend

- Motorized Boat
Slow-No-Wake Area
(100 ft from shore)
- Personal Watercraft
Slow-No-Wake Area
(200 ft from shore)

- No Wake Zone
- No Motor Boats

Map 10

Archibald Lake
Oconto County, Wisconsin

**Watercraft Regulation
Areas**