

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

Sources: Hydro: WDNR Orthophotography: NAIP, 2015 Shoreline Assessment: Onterra, 2016 Map Date: December 9, 2016 Filename: Map3_LSG_ShorelandCondition_2016.mxd



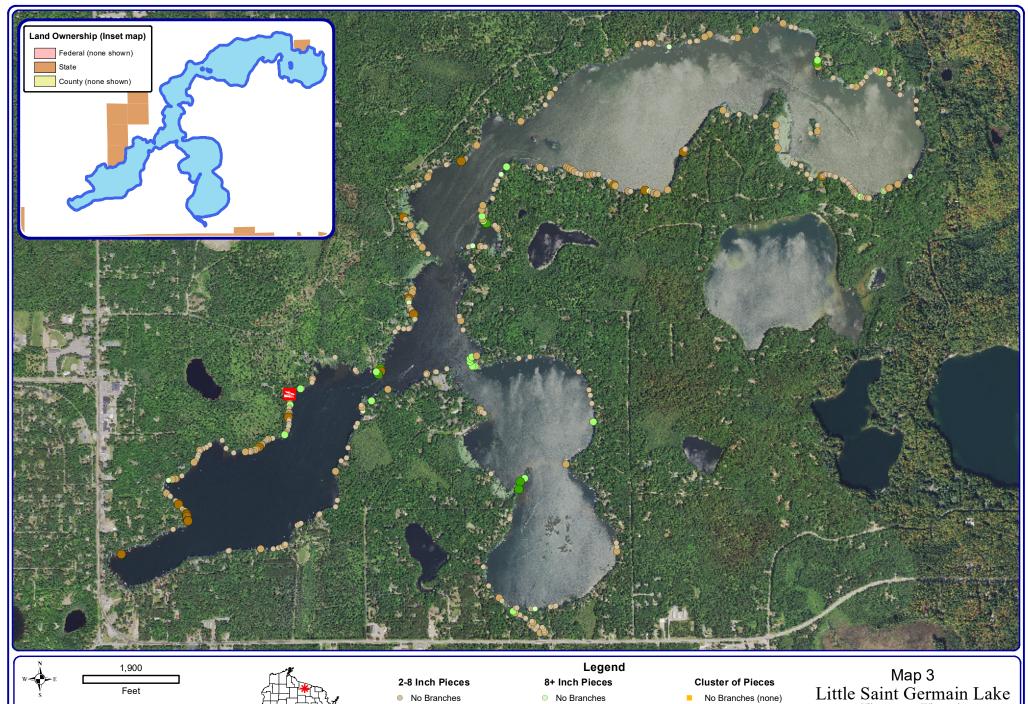
Developed-Natural Developed-Semi-Natural Developed-Unnatural Urbanized

Rip-Rap

■ Wood/Masonary/Metal

Little Saint Germain Lake
Vilas County, Wisconsin

2016 Shoreland **Condition**





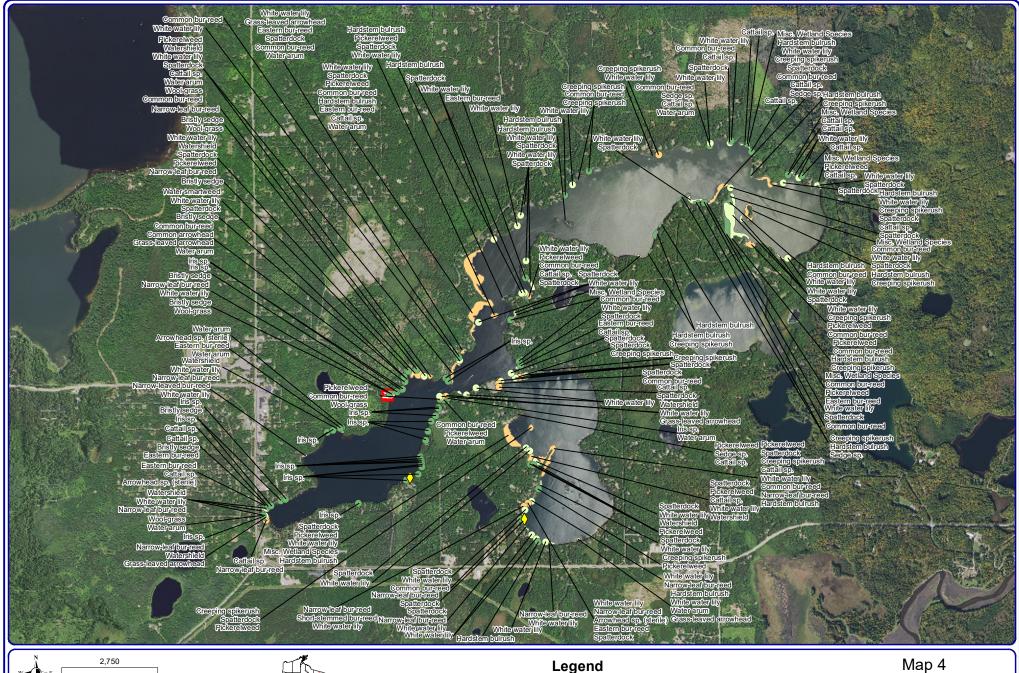
Sources:
Hydro: WDNR
Orthophotography: NAIP, 2015
CWH Survey: Onterra, 2016
Map Date: December 9, 2016
Filename: Map4_LSG_CWH_2016.mxd



- Minimal Branches
- Moderate Branches
- Full Canopy (none)
- Minimal Branches
- Moderate Branches
- Full Canopy (none)
- Minimal Branches (none)
- Moderate Branches (none)
- Full Canopy (none)

Little Saint Germain Lake Vilas County, Wisconsin

Coarse Woody Habitat





Sources: Hydro: WDNR Aquatic Plants: Onterra, 2016 Orthophotography: NAIP, 2015 Map date: November 10, 2016 Filename: Map5_LSG_Comm_2016.mxd



Small Plant Communities

- Emergent
- Floating-leaf
- Mixed Floating-leaf & Emergent
- Pale yellow iris

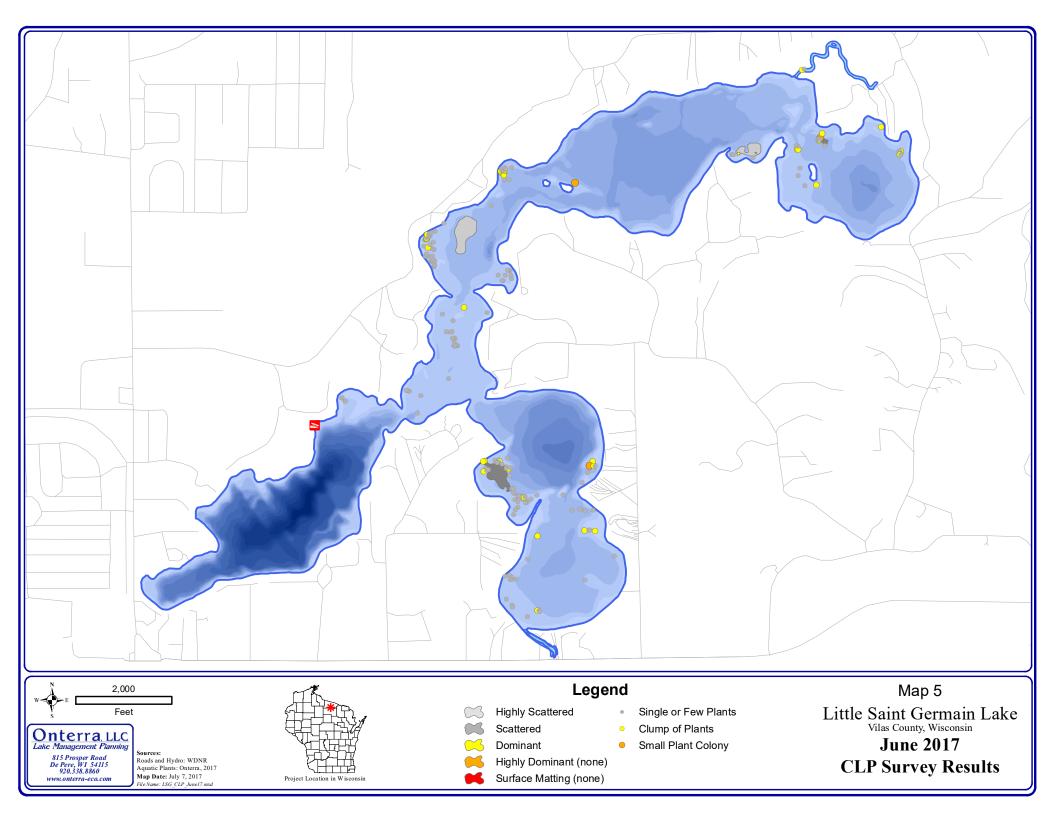
Large Plant Communities

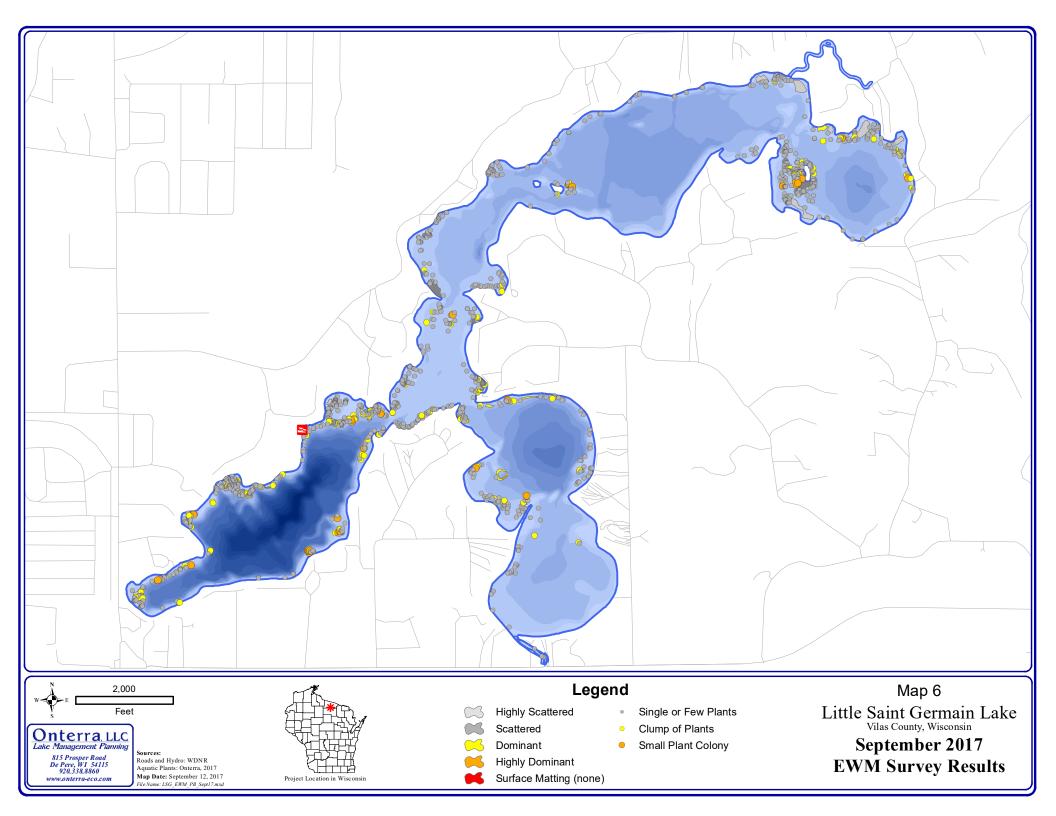
Emergent Floating-leaf

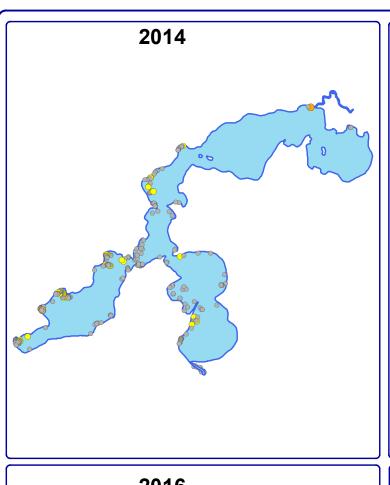
Mixed Floating-leaf & Emergent

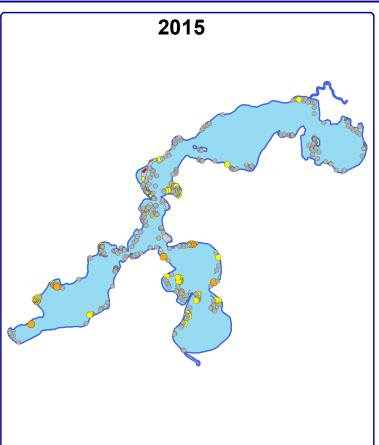
Little Saint Germain Vilas County, Wisconsin

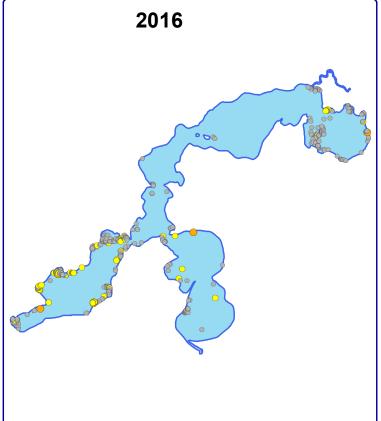
> **Aquatic Plant Communities**

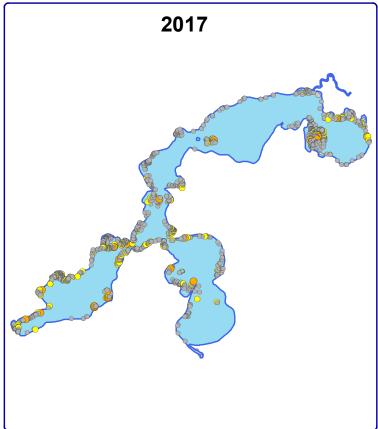














Legend

Highly Scattered

Highly Dominant

Surface Matting

Scattered

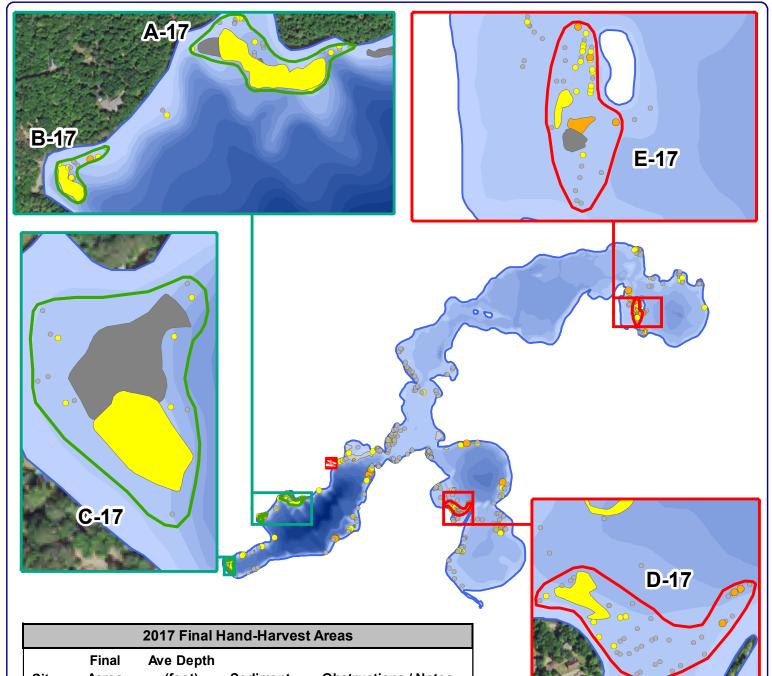
Dominant

- Single or Few Plants
 - Clumps of Plants
- Small Plant Colony

Map 7

Little Saint Germain Lake Vilas County, Wisconsin

EWM Peak-Biomass 2014-2017 Comparison



2017 Final Hand-Harvest Areas				
Site	Final Acres	Ave Depth (feet)	Sediment	Obstructions / Notes
		, ,		
A-17	3.6	6.0	soft/organic	shallow rock bars in vicinity
B-17	0.8	7.0	soft/organic	moderate to heavy native
				vegetation
0.47	0.4	5 0	4 / : -	moderate to heavy native
C-17	2.1	5.0	soft/organic	vegetation
D-17	4.8	4.0	soft/organic	moderate to heavy native
				vegetation
E-17	4.6	3.0	soft/organic	moderate to heavy native
				vegetation
	15.9			





Legend

Highly Scattered

Highly Dominant

Scattered

Dominant

Surface Matting

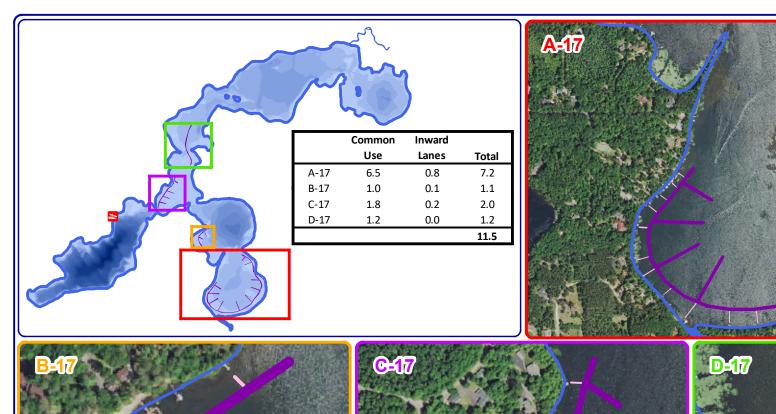
Single or Few Plants

Clumps of PlantsSmall Plant Colony

DASH Harvest Sites (6.5 acres) Hand Harvest Sites (9.4 acres)

Map 8 Little Saint Germain Lake Vilas County, Wisconsin

Final 2017 Hand-Harvesting Control Strategy













4,000

Feet

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Hydro & Bathymetry: WDNR Orthophotograph: NAIP 2015 Map Date: January 16, 2017 Filename: LSG_2017_Harvest.mxd



Legend

Mechanical Harvest Plan

Common Use Center and Lakeward Lanes (30-ft wide)

Individual Use Lanes (10-ft wide)

Map 9

Little Saint Germain Lake Vilas County, Wisconsin

Mechanical **Harvesting Plan**