P.O. Box 230 Berlin, WI 54923 Phone: 920-361-4088

Fax: 920-361-4086

## Lake Redstone 2022 Aquatic Invasive Species Survey

On September 8-9, 2022, Cason & Associates, LLC conducted an Aquatic Invasive Species survey on Lake Redstone.

During the survey, Eurasian/ Hybrid Watermilfoil (EWM/HWM) was the only aquatic invasive species observed and surveyed. The EWM/HWM acreages by density are outlined in the table below:

EWM Densities	2020 Surveyed Area (Acres)	2021 Surveyed Area (Acres)	2022 Surveyed Area (Acres)	Acreage Difference
Highly Scattered	2.1	8.9	8.2	-0.7
Scattered	2.9	7.1	4.3	-2.8
Moderately Dense	6.1	3.9	6.6	+2.7
Dense	0.8	5.0	12.8	+7.8
Total Acreage:	11.9	24.9	31.9	+7.0

Since the survey in the fall of 2021, EWM/HWM has expanded and developed in new locations on Lake Redstone. The total acreage of EWM has increased by 7 acres since 2021. Densities have shifted from highly scattered and scattered too moderately dense and dense. Dense areas of EWM/HWM increased the most out of any density with an increase of 7.8 acres. Moderately dense areas increased by 2.7 acres. EWM was present in most locations that were shallow and had a soft bottom where roots could take hold. The Southwest bend of Lake Redstone had the lowest abundance of EWM/HWM; the shoreline is steep and rocky in this area. EWM/HWM was also found growing on the dam.

We recommend treating all areas for EWM areas with herbicides. All areas identified during this survey are noted in the Aquatic Invasive Species Survey Maps. A treatment plan can be developed and provided upon request.

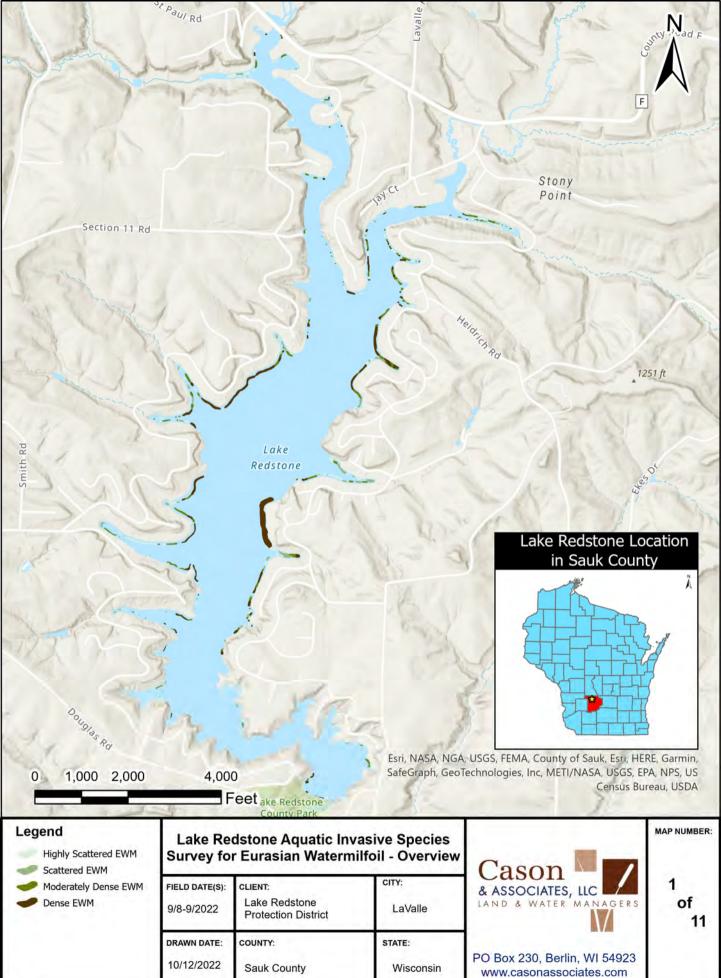
The following deliverables are attached to this survey summary:

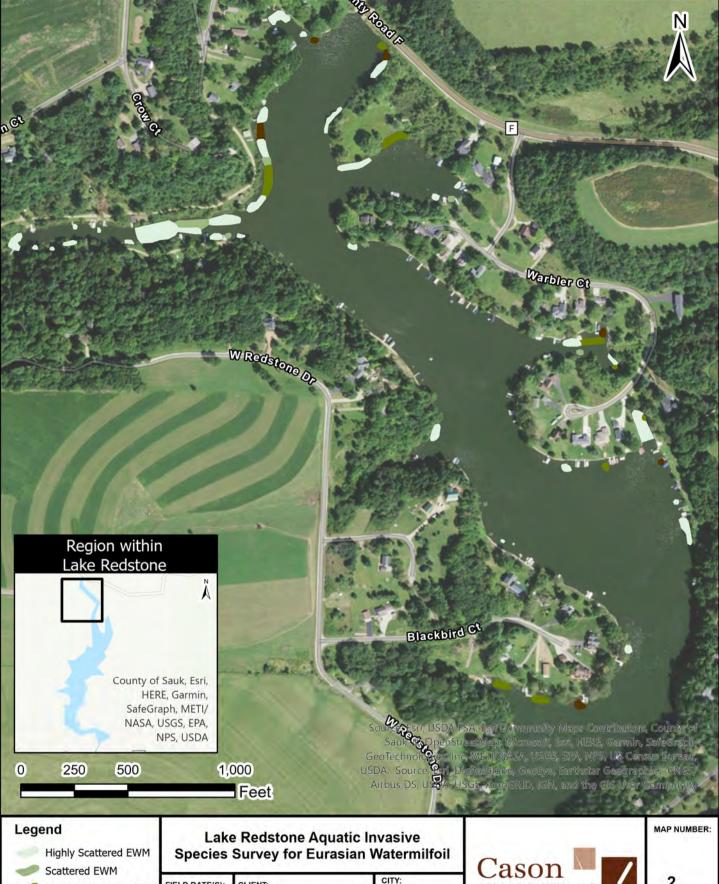
- 1. Aquatic Invasive Species Survey Maps, with EWM (Maps 1-11)
- 2. Estimated EWM Depths Map

Thank you for your business and for allowing us to perform this service for your association. If you have any questions, please contact me at 920-290-6810 or lance@casonassociates.com.

Sincerely,

Lance Paden





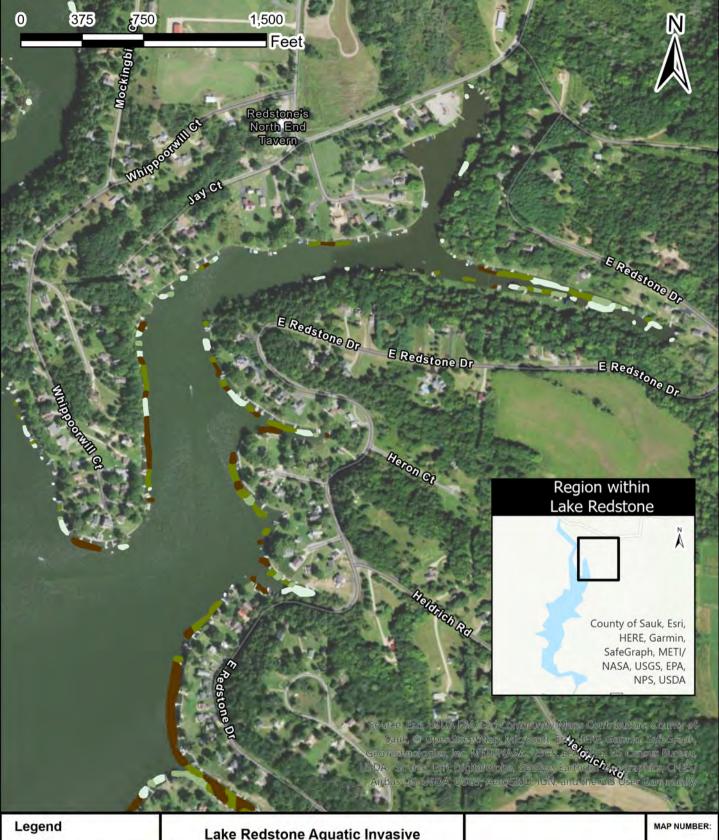
Moderately Dense EWM

Dense EWM

FIELD DATE(S): Lake Redstone 9/8-9/2022 LaValle **Protection District** DRAWN DATE: COUNTY: STATE: 10/12/2022 Sauk County Wisconsin



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Highly Scattered EWM
Scattered EWM

Moderately Dense EWM

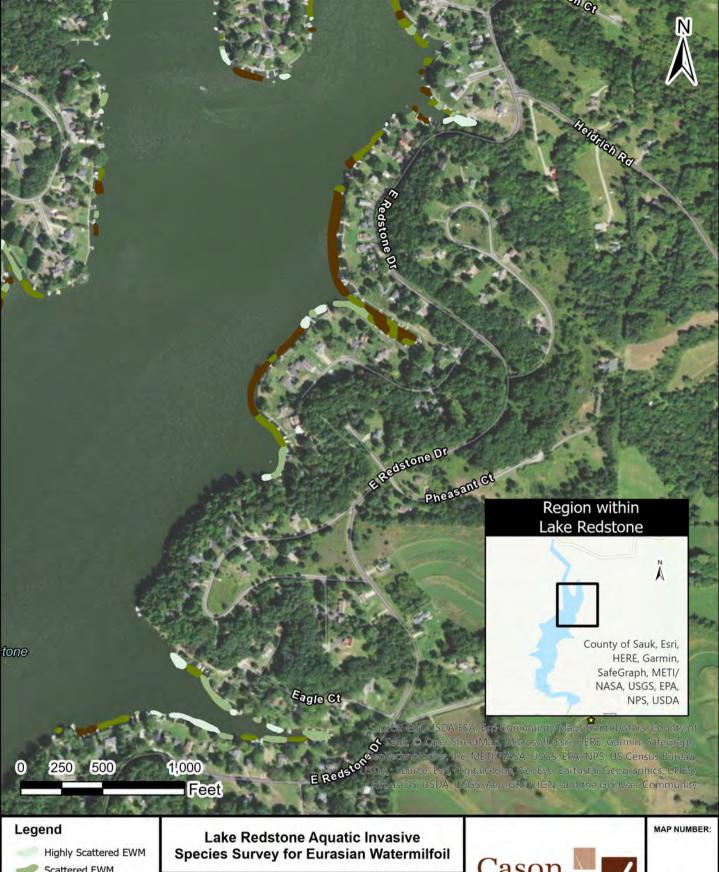
Dense EWM

## Lake Redstone Aquatic Invasive Species Survey for Eurasian Watermilfoil

FIELD DATE(S): 9/8-9/2022	CLIENT: Lake Redstone Protection District	city: LaValle
DRAWN DATE:	COUNTY:	STATE:
10/12/2022	Sauk County	Wisconsin



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Scattered EWM

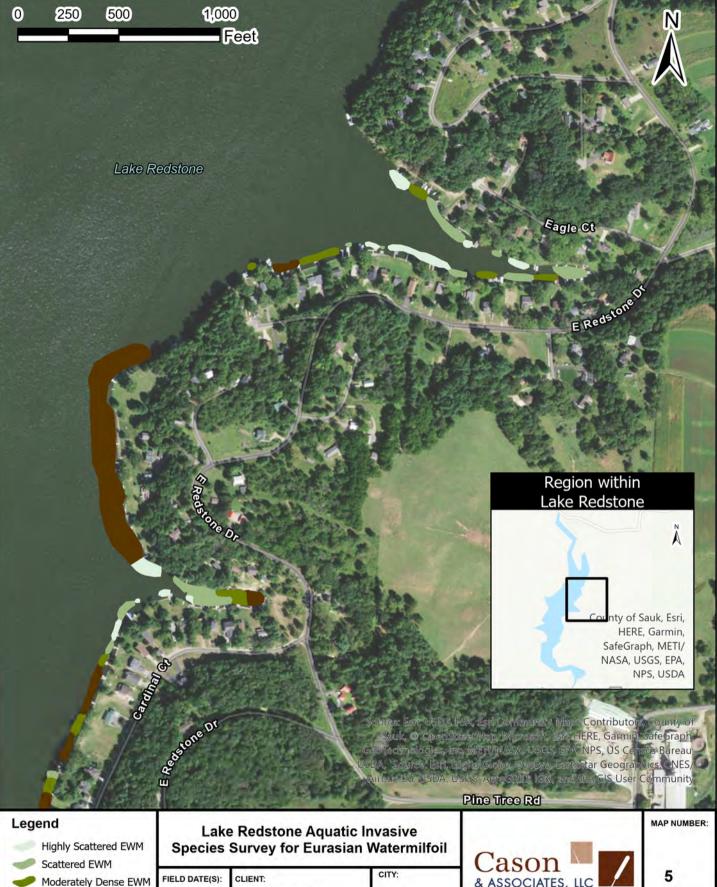
Moderately Dense EWM

Dense EWM

FIELD DATE(S): 9/8-9/2022	CLIENT: Lake Redstone Protection District	сіту: LaValle
DRAWN DATE:	COUNTY:	STATE:
10/12/2022	Sauk County	Wisconsin



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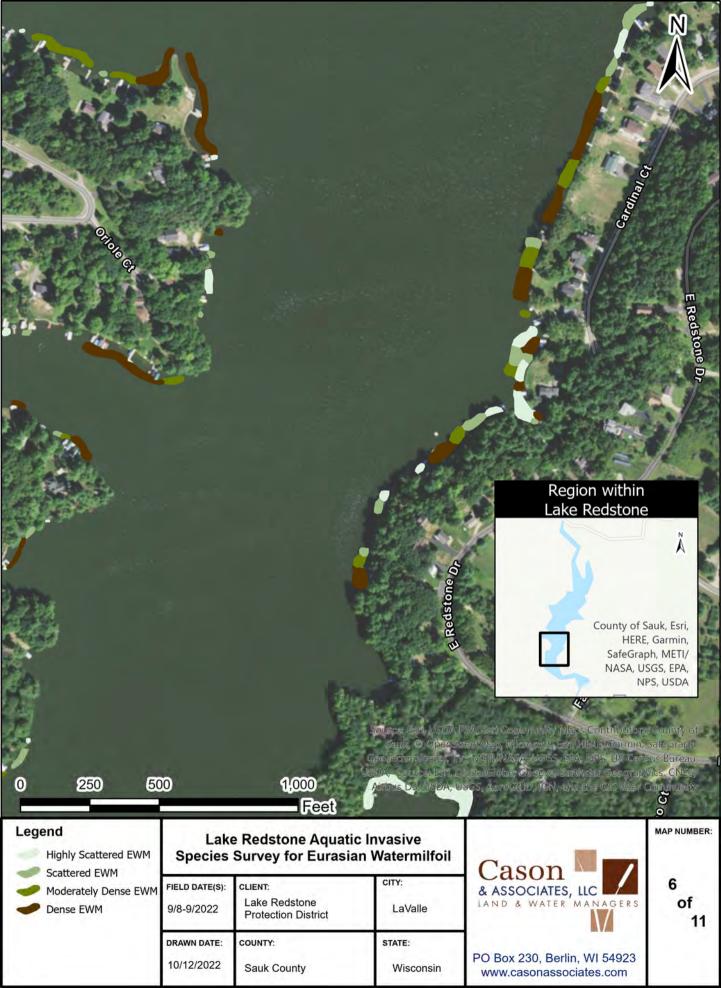


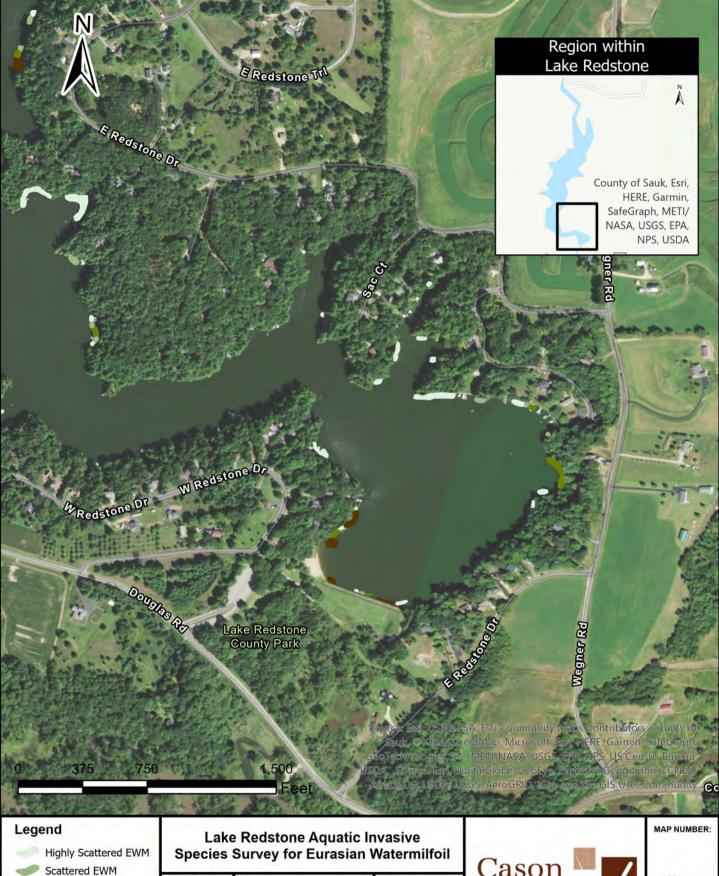


FIELD DATE(S):	CLIENT:	CITY:
9/8-9/2022	Lake Redstone Protection District	LaValle
DRAWN DATE:	COUNTY:	STATE:
10/12/2022	Sauk County	Wisconsin



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Moderately Dense EWM	
Dense EWM	

FIELD DATE(S): 9/8-9/2022	CLIENT: Lake Redstone Protection District	city: LaValle
DRAWN DATE:	COUNTY:	STATE:
10/12/2022	Sauk County	Wisconsin



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Dense EWM

FIELD DATE(S): 9/8-9/2022	CLIENT: Lake Redstone Protection District	city: LaValle
DRAWN DATE:	COUNTY:	STATE:
10/12/2022	Sauk County	Wisconsin



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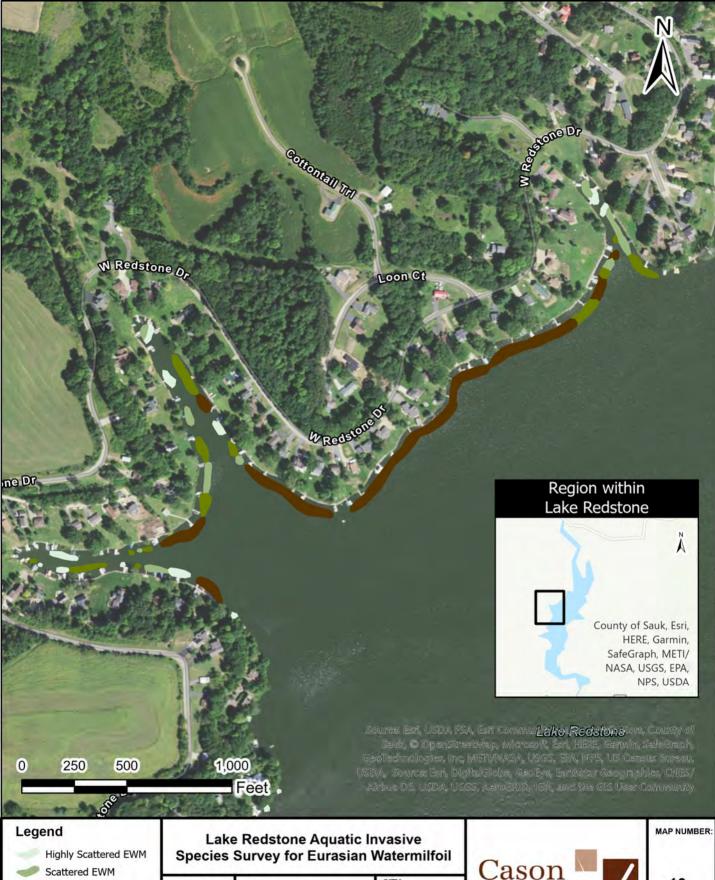
Scattered EWM

Moderately Dense EWM Dense EWM

FIELD DATE(S): 9/8-9/2022	CLIENT: Lake Redstone	CITY:
DRAWN DATE:	Protection District	STATE:
10/12/2022	Sauk County	Wisconsin



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Moderately Dense EWM

Dense EWM

FIELD DATE(S):	CLIENT:	CITY:
9/8-9/2022	Lake Redstone Protection District	LaValle
DRAWN DATE:	COUNTY:	STATE:
10/12/2022	Sauk County	Wisconsin



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