Wisconsin Lake & Pond Resource LLC
"Providing Professional Resources for Management of Your Lake or Pond"

Professional Pond Management Products and Services
Aquatic Herbicide and Algaecide Applications
Lake Management Planning and Services
Pond Design and Development

November 11, 2021

Silver Lake Protection Association
Dave Zyer

Re: 2021 Aquatic Plant Survey and Report, Silver Lake, Kenosha County, Wisconsin

Dear Mr. Zyer and Board members:

In response to your request for aquatic plant management and surveying, Wisconsin Lake & Pond Resource, LLC (WLPR) visited the site in 2021. The purpose of this visit was to document populations of aquatic invasive species (AIS) and the condition of the existing plant community to assess the need for future management.

Background Information

Silver Lake is a 516-acre drainage lake located in the Town of Salem, Kenosha County, Wisconsin. Silver Lake has a maximum depth of 43 feet with a mean depth of 9.3 feet. The Silver Lake Protection Association is an active lake Association that has been managing aquatic plants on the lake through chemical treatments. Hybrid water-milfoil and curly-leaf pondweed (CLP), both AIS, are present within the waterway, with only HWM actively managed for control.

The aquatic plant community of Silver Lake has been healthy, though periodically dense. However, introduction of aquatic invasive species caused an expanding problem with excessive aquatic plant growth. Eurasian water-milfoil, now confirmed as hybrid water-milfoil, has caused the most significant problem within Silver Lake, requiring active management through herbicide applications. Past management has been covered extensively in prior report completed for the SLPA. For further information regarding these applications, please reference the *Silver Lake 2016 Aquatic Plant Management Report* or *Silver Lake 2020 Aquatic Plant Survey Report*.

From the 2020 survey, areas of Hybrid water-milfoil had grown to nuisance levels and required management. Originally, the 24.2 acres of the densest HWM was recommended for control. In order to fit within budgets for 2021 this was reduced to 11.2 acres of high priority locations for HWM control. The most recent AIS management was completed May 25, 2021 to 11.2 acres in two locations of Silver Lake using ProcellaCOR EC.

A copy of the 2021 WDNR approved permit and treatment record are included in Attachment A. To gauge current conditions and plan for 2022 management, a follow-up aquatic plant survey was completed on September 14 and 16, 2021 by Wisconsin Lake &Pond Resource.

Toll Free: 866-208-0724
www.wisconsinlpr.com

N7828 Town Hall Rd.
Eldorado, WI 54932
Phone: (920) 872-2032
Fax: (920) 872-2036

2021Aquatic Plant Survey

WLPR conducted the 2021 survey using a meander method around the entire perimeter of the lake with rake throws and visual observations to verify the presence of AIS. All locations of AIS, primarily E/HWM, were recorded on a GPS. Observations of native aquatic plant species were recorded to create a list of those present within the lake. Results of the mapping survey are found on Figure 1, attachment B.

Early fall of 2021 was unusually warm, resulting in an extended growing season and above average water temperatures for this time of year. Water temperatures were still at 73-degrees during the survey. Southeast Wisconsin was also under drought conditions. Water levels in Silver Lake were impacted by the dry conditions and approximately 8-12 inches below normal.

Composition of the aquatic plant community remained steady and of moderate diversity for similar lakes within the same region. Though the focus of the survey was to identify areas of HWM growth, native species were noted during the site visit. Overall, 17 different aquatic plant species were noted, including one AIS; hybrid Eurasian water-milfoil (Table 1). Similar to past surveys, there was high diversity per location with rooted vegetation growing to a depth of 14-16'.

Species	2021
Aquatic Invasive Species	
Hybrid water-milfoil	X
Submersed Species	
Chara (muskgrass)	X
Common waterweed	X
Coontail	X
Flat-stem pondweed	X
Floating-leaf pondweed	X
Long-leaf pondweed	X
Nitella	X
Sago pondweed	X
Water stargrass	X
White-stem pondweed	X
Wild celery	X
Emergent Species	
Hardstem bulrush	X
Pickerelweed	X
Floating-Leaf Species	
Spatterdock	X
Watershield	X
White water lily	X
Total	**17**

Since the last large-scale management of 2015 there has been a significant regrowth of E/HWM. The 2019 survey identified E/HWM growing much of the Lake at varying densities. The 2021 survey identified HWM growing at various densities and distribution in the survey locations. The following densities were used to describe the HWM populations:

1. Spots – small locations of individual plants or clumps that were not large enough to map around their perimeter.
2. Scattered – locations of HWM that had plants closed enough to map as an area, but were still widely scattered. HWM is merely present and not a large component of the biomass.
3. Low – HWM identified in distinct beds. While individual plants or clumps may reach the surface, most a lower growing or not as dense. Often mixed with other vegetation.
4. Moderate – HWM occupies over half the water column with many plants or clumps at or just below the surface. Few other plant species found.
5. High – locations of HWM that were at or near the surface and occupied much of the water column. HWM may be the only plant found growing in these locations.

Overall, 172.26 acres of HWM were identified in 2021 (Table 2, Figure 1). Populations of hybrid Eurasian water-milfoil undoubtably exist outside the areas identified in 2021. A breakdown of the HWM present by density across Silver Lake is as follows:

Density	Acres
High	8.69
Moderate	21.29
Low	114.24
Scattered	28.04
TOTAL	**172.26**

Control of HWM within treatment areas was excellent. No HWM was noted in Area D, just outside the boat launch. Area A, located in the southwest, had a few individual plants or very small clumps of HWM mapped near shore. Further into the lake a portion of a low-density bed of HWM was noted along the treatment area boundary. Native species impact was not detected in either treatment areas.

HWM present was largely of low or scattered density with pockets of moderate and high-density mixed in. In a majority of the low and scattered density areas HWM was merely present. Meaning, that though it was found growing it was mixed in with native species and not dense enough for active control. Much of these low and scattered density areas had a variety of native species that often grew dense. Stargrass and white-stem pondweed were commonly found in the northern low-density areas while stargrass, chara, and sago pondweed were commonly found in the southwest locations. Sago pondweed was often noted as growing quite dense.

Densest areas of HWM were often in shallow water with organic-rich sediment and surrounded by areas of low density. In some locations HWM in these areas was mono-typic and reached the water's surface.

An aquatic plant community is dynamic and changes year to year based on growing conditions and many other factors. Some species identified in 2021 were not directly sampled in the past and vice versa, but this should not be a cause for concern.

NEXT STEPS

After prior successful HWM management, this invasive species has been rebounded and is now found at high population frequency with large areas of high density (Figure 1). Past surveys and management for the lake have shown that HWM can occupy large colonies and require management up to whole-lake dosing. All past large-scale management of HWM on Silver Lake has used integrated pest management (IPM) with a constant variety of active ingredients. 2,4-D, one of the active ingredients previously used, will likely see results if used again. Studies and first-hand experience are showing that strains of HWM previously exposed to 2,4-D can become tolerant and require increasingly higher rates for decreasing control results. Use of 2,4-D may not be a feasible treatment option for Silver Lake. The same concern may be viable for the active ingredient fluridone. The 2015 control for HWM was completed using fluridone. Future control with this ingredient should be done at higher rates if selected.

Current DNR recommendations for control of AIS includes the use of an integrated pest management approach. Use of IPM includes changing methods of control, including but not limited to: varying herbicide active ingredients, mechanical harvesting, hand or suction harvesting, and no-action. The spread of HWM in Silver Lake recorded in 2021 is found throughout much of the littoral zone of the lake, but primarily and scattered and low densities. However, many locations are still too scattered or locally dense to be feasibly controlled by hand and management in 2022 is recommended.

For 2022, there are three potential options for E/HWM management:

1. Target only the largest, densest blocks of E/HWM with ProcellaCOR, approximately 9.65 acres total (Figure 2).
2. Target the entire population of E/HWM with ProcellaCOR (Figure 1).
3. Target the entire population E/HWM with the active ingredient fluridone (Figure 1).

Each scenario uses approaches that have worked well for Silver Lake in the past. Option 1 targets the densest, problem areas of HWM, while Options 2 & 3 feature an approach similar to past large-scale treatments and are based on a whole-lake scale. For all options there are pros and cons to consider;

1. This option targets the worst areas and while it is dosed for these there may be a limited effect on nearby HWM population immediately adjacent. Follow-up applications are expected to be needed for multiple years. Under this option the HWM may never be significantly reduced.

2. ProcellaCOR is a new, fast-acting ingredient designed for control of invasive milfoil species. This approach would control the entire population of HWM present while limiting non-target impacts to the rich native species population of Silver Lake. Results are expected to be excellent with a guarantee from the manufacturer that E/HWM will not reach nuisance levels for 3 years after application (2022 - 2024). Application rates have to be verified with the product's manufacturer and will be varied throughout the lake tailored to composition of each area (depth, size, width, etc.).

   Being a new product the WDNR has been selective in approving permits for its use and has included additional permit requirements for large-scale projects including; additional pre- and post-treatment surveys, mapping, and water sampling to test herbicide residuals. It's likely that at least some of these requirements would be necessary in 2022.

3. Fluridone use in Wisconsin has received renewed interest and increase in use since Silver Lake's initial, 2015 application. Applications have focused on very low-dose rates and use extended contact time (120+ days) to achieve results. The same approach can be used on Silver Lake to control HWM.

   Similar to past whole-lake treatments, the amount of product required is based on the volume of water with an initial application complete after formation of a thermocline. Since fluridone has been used in the past on Silver Lake, rates higher than 2015 should be used. An initial application of 8-12 parts per billion (PPB) is recommended. In order to maintain in-water rates to ensure control of HWM follow-up, "bump" applications are necessary. Bump applications are typically required two times and at rates of 3-6 PPB. To plan for timing and dosing of the bumps, water samples are taken at set intervals to be tested for the amount of fluridone in the water. Based on similar projects and past results in Silver Lake, we expect 2-3 years of good control of HWM. Whole-lake plant surveys may be required by the DNR for the following year after application.

It is our recommendation to conduct management of the HWM in Silver Lake to the areas of densest growth. Much of the HWM present is at low and scattered densities and still below whole-lake density thresholds. It is important to continue to gauge the entire lake's aquatic plant community through periodic point-intercept plant surveys. The last whole-lake survey was completed in 2020 for Silver Lake. It is generally recommended to complete such a survey every 5 years.

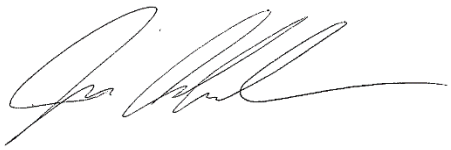
A recommended timeline for 2022 management is as follows:

- **February 2022**: Apply for WDNR permit for up to 9.65 acres for control of HWM (Figure 2).
- **May/June 2022**: Herbicide application for E/HWM control using ProcellaCOR EC. Rates are to be determined based on further discussion with the product manufacturer.
- **August/September 2022**: aquatic plant survey and mapping assess the HWM population
- **October/November 2022**: Complete an assessment of HWM present for 2023 planning
    - Update and submit management report and recommendations to the Association. Future planning may involve any of the following actions:
        - Varying scale of HWM control in 2023
        - WDNR AIS Grant application to assist in 2023 funding
        - Continued monitoring

If you have any questions, require any additional information, or would like a formal proposal on any of the above management options please contact us directly as follows:

Jim Scharl: (920) 872-2032 or jim@wisconsinlpr.com

Respectfully,



Attachment A: 2021 WDNR Permit & Treatment Record

Toll Free: 866-208-0724
www.wisconsinlpr.com

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State of Wisconsin DNR Department of Natural Resources Water Permit Central Intake – attn. APM PO Box 7185 Madison, WI 53707-7185	Chemical Aquatic Plant Control Permit

Permit Number: SE-2021-30-10246
Permit Expiration Date: 10/01/2021
Waterbody Name: Silver Lake

Waterbody # (WBIC): 747900
Fee Received: 645
Waterbody Address: PO Box 165

Applicant Name: *Silver Lake Protection Association*
PO Box 165
Silver Lake, WI 53170
Email:
Phone:

Applicator Name: *Wisconsin Lake & Pond Resource, LLC*
N7828 Town Hall Rd
Eldorado, WI 54932
Email: *jim@wisconsinlpr.com*
Phone: *920-872-2032*

Advanced Notification of Treatment is required

The Department has received and reviewed your application to treat aquatic plants in Silver Lake. Your permit application meets the minimum requirements by law and a permit is being issued with the following conditions:

GENERAL STATEMENTS AND CONDITIONS:

The Department has received and reviewed your application to chemically treat up to 24.2 acres of aquatic plants in Silver Lake. Aspects of this permit may not be changed. Please go to this web address: https://permits.dnr.wi.gov/water/SitePages/Permit%20Search.aspx to search for and download the permit documents. Your permit application meets the minimum requirements by law and a permit is being issued with the following conditions.

- It is the responsibility of the applicant to follow the treatment plan outlined in the permit application and permit conditions. The treatment notification protocols, treatment plan, and reporting protocols shall be performed in compliance with Wisconsin Administrative Code Chapter NR 107. Noncompliance with the permit can result in enforcement actions under Wis. Stat. ss. 23.24(6) and 281.98 and restriction of aquatic plant management activities for subsequent years under Wis. Adm. Code Ch. NR 107. The conditions and treatment plan are required to be followed to ensure efficacy of the treatment.

- You shall notify Craig Helker of the Department of Natural Resources at 414-550-2970 or craig.helker@wisconsin.gov, at least 4 business days before treatment with the date and time of proposed treatment

- The Department may stop or limit the application of chemicals to a body of water if at any time it determines that the treatment will be ineffective, or will result in unreasonable restrictions on current water uses, or will produce unnecessary adverse side effects on nontarget organisms.

- You shall have a paper or electronic copy of this cover letter and permit with the individual conducting the treatment.

- You shall submit the Aquatic Plant Management Treatment record on the most updated form supplied by the Department as follows:

    a. Immediately, if any unusual circumstances occur during treatment.
    b. Within 30 days, if treatment occurs.
    c. By October 1 of this year if no treatment occurred.

Notice:

- You shall decontaminate all project equipment used in the waterbody to minimize transport of aquatic invasive species (AIS) immediately after each use on the project site. You shall utilize best management practices: https://dnr.wi.gov/topic/Invasives/disinfection.html You shall comply with all provisions in State Stat. s. 30.07 and Wis. Adm Code s. NR 40.07 and Manual code 9183.1 For further information, please refer to the following: https://dnr.wi.gov/topic/invasives/classification.html.

- The approval of an aquatic plant management permit does not represent an endorsement of the permitted activity but represents that the applicant has complied with all criteria of this chapter.

SPECIFIC CONDITIONS:

- You will assess all proposed treatment areas prior to chemical treatment using a boat meander survey to determine if the abundance of the target species present warrants treatment. A final map outlining the treatment areas must be provided to the Department a minimum of 4 business days prior to treatment.

If you have any questions or concerns, I can be reached at 414-550-2970 or by email at Craig.Helker@wisconsin.gov

State of Wisconsin Department of Natural Resources for the Secretary

By: Helker, Craig D	4/16/2021	4/16/2021
Water Resources Biologist	Date Signed	Date Mailed

Please Note:
If you believe that you have a right to challenge this decision, you should know that Wisconsin statutes and administrative rules establish time periods within which requests to review Department decisions must be filed. For judicial review of a decision pursuant to ss. 227.52 and 227.53, Wis. Stats., you have 30 days after the decision is mailed or otherwise served by the Department, to file your petition with the appropriate circuit court and serve the petition on the Department. Such a petition for judicial review shall name the Department of Natural Resources as the respondent. This notice is provided pursuant to s. 227.48(2), Wis. Stats. To request a contested case hearing pursuant to s. 227.42, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources. The filing of a request for a contested case hearing is not a prerequisite for judicial review and does not extend the 30-day period for filing a petition for judicial review.

Aquatic Plant Management

NOTE: Missing or incomplete fields are highlighted at the bottom of each page. You may save, close and return to your draft permit as often as necessary to complete your application. If there are no updates in 90 days, your draft is deleted

This Application has been Signed and Submitted by: i:0#.f|wamsmembership|wlpr7828 signed on 2021-03-29T07:08:13

Site or Project Name:	Silver Lake - EWM control 2021 The permit application will be saved automatically with this name
Activity:	Chemical Control Application
Eligibility: (All questions must be no for it to be considered a private pond.)	Is there more than one property owner? ◉ Yes ○ No Will there be uncontrolled surface water discharge? ○ Yes ◉ No Does the water body have public access? ◉ Yes ○ No

3200-004 Chemical Aquatic Control Application

NOTE: To be considered a private pond, a waterbody must meet all of the following requirements:

1. Confined to one property owner.
2. The pond has no uncontrolled surface water discharge.
3. No public access.

Upon submittal of your permit application, a **non-refundable $20 permit processing fee will be charged**. Additional acreage fees will be refunded if the permit request is denied or if no treatment occurs.

3200-004 Chemical Aquatic Plant Control Application

- Annually complete all pages on Form 3200-004 for chemical plant management applications. Complete form 3200-004a for large scale treatments(exceeds 10.0 acres in size or 10% of the area of the water body that is 10 feet or less in depth) as required by NR107.04(3).
  - Form 3200-004 is competed electronically through this system.
  - Form 3200-004a must be completed outside the system and uploaded to the attachments section. Please refer to this link for a copy of this form: http://dnr.wi.gov/files/pdf/forms/3200/3200-004A.pdf
- Attach a map that shows the treatment location(s), treatment dimensions and riparian landowners. If requesting WPDES coverage, attach a water body map that shows surface outflow and receiving waters.
- For a large-scale treatment, attach evidence that a public notice has been published in a regional / local newspaper and if required that a public informational meeting has been conducted as defined in NR107.04(3).
- Pay fee online.
- Sign and Submit form.
- A signed permit application certifies to the Department that a copy of the application has been provided to any affected property owner's association/district and to landowners adjacent to treatment area.

Contact Information

Applicant Information

Organization	Silver Lake Protection Association
Last Name:	
First Name:	
Mailing Address:	PO Box 165
City:	Silver Lake
State:	WI
Zip Code:	53170
Email:	dez33156@gmail.com
Phone Number: (xxx-xxx-xxxx)	708-227-2855
Alternative Phone Number: (xxx-xxx-xxxx)	

Waterbody Address

Last Name:	
First Name:	
Street Address:	PO Box 165
City:	Silver Lake
State:	WI
Zip Code:	53170
Email:	
Phone Number: (xxx-xxx-xxxx)	
Alternative Phone Number: (xxx-xxx-xxxx)	

Applicator

Name of Applicator Firm:	Wisconsin Lake & Pond Resource, LLC
Applicator Certification #:	041446, 073906, 080532, 092501, 077803, 105360, 454-T
Business Location License #:	93-015182-012226
Restricted Use Pesticide #:	
Address:	N7828 Town Hall Rd
City:	Eldorado
State:	WI
Zip:	54932
Email:	jim@wisconsinlpr.com

Phone Number: (xxx-xxx-xxxx)	920-872-2032

Adjacent Riparian Property Owners or Other Individuals Sponsoring Removal

Individuals and organizations (e.g. Lake District, Lake Association, Property Owners Association, County Department of Recreation), sponsoring removal.

☑ Uploaded riparian owners to attachment tab

Name	Address	Phone	Email Address

Site Information - Complete

Water Body to be Treated

Waterbody Property Owners Association or Waterbody District Representative :	David Zyer ☐ None
Water Body Name:	Silver Lake
County:	Kenosha
Latitude:	42.550729
Longitude:	-88.15292
Section:	17
Township:	01
Range:	20
Direction:	◉ E ○ W
Waterbody Surface Area:	516 acres
Estimated Surface area that is 10ft or less	300 acres

Proposed Treatment Area

Area(s) Proposed for Control:

Treatment Length		Treatment Width			Estimated Acreage		Average Depth		Calculated Volume	
0	ft. x	0	ft.	÷ 43,560 ft.² =	10.70	ac	3	ft =	32.10	ac-ft
0	ft. x	0	ft.	÷ 43,560 ft.² =	6.40	ac	3	ft =	19.20	ac-ft
0	ft. x	0	ft.	÷ 43,560 ft.² =	6.60	ac	5	ft =	33.00	ac-ft
0	ft. x	0	ft.	÷ 43,560 ft.² =	0.50	ac	3	ft =	1.50	ac-ft
				Estimated Acreage Grand Total	24.20	ac		Calculated Volume Grand Total	85.80	ac-ft

Is the area with in or adjacent to a sensitive area designated by the Department of Natural Resources.

○ Yes ◉ No

If the estimated acreage is greater than 10 acres, or is greater than 10 percent of the estimated area 10 feet or less in depth in Section II, complete and attach Form 3200-004A, Large-Scale Treatment Worksheet.

Chemical Aquatic Plant Control Information - Form 3200-004 (R 2/17)

Notice: Use of this form is required by the Department for any application filed pursuant to s. 281.17(2), Wis. Stats., and Chapters NR 107, 200 and 205, Wis. Adm. Code. This permit application is required to request coverage for pollutant discharge into waters of the state. Personally identifiable information on this form may be provided to requesters to the extent required by Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].

Is this permit being requested in accordance with an approved Aquatic Plant Management Plan?

◉ *Yes* ○ *No*

Treatment Type:

◉ *Lake* ○ *Pond* ○ *Wetland* ○ *Marina* ○ *Other*

Goal of Aquatic Plant Control:

- ☑ Maintain navigation channel
- ☑ Maintain boat landing and carry in access
- ☐ Improve fish habitat
- ☐ Maintain swimming area
- ☑ Control of invasive exotics
- ☐ Other

Nuisance Caused By:

- ☐ Algae
- ☐ Emergent water plants (majority of leaves & stems growing above water surface, e.g. cattail, bulrushes)
- ☐ Floating water plants (majority of leaves floating on water surface, e.g., water lilies, duckweed)
- ☑ Submerged water plants (leaves & stems below surface, flowering parts may be exposed: milfoil, coontail)
- ☐ Other

List Target Plants

☐ Algae	☐ Flowering Rush	☐ Purple Loosestrife
☐ Common/Glossy Buckthorn	☐ Hybrid Cattail	☐ Reed Canary Grass
☐ Coontail	☑ Hybrid Watermilfoil	☐ Reed Manna Grass
☐ Curly-Leaf Pondweed	☐ Japanese Knotweed	☐ Starry Stonewort
☐ Duckweed	☐ Naiad	☐ Yellow Floating Heart
☐ Elodea	☐ Narrow-Leaf Cattail	☐ Yellow Iris
☑ Eurasian Watermilfoil	☐ Phragmites	☐ Pondweed

Other Target Plants:

Note: Different plants require different chemicals for effective treatment. Do not purchase chemical before identifying plants.

Chemical Control

Full Trade Name of Proposed Chemical(s)

Select Chemical Name: ProcellaCOR EC

Other (not listed above) Other:

Have the proposed chemicals been permitted in a prior year on the proposed site?

◉ *All* ○ *Some* ○ *None*

Method of Application: Injection

What were the results of the treatment?

Good target control

NOTE: Chemical fact sheets for aquatic pesticides used in Wisconsin are available from the Department of Natural Resources upon request.

Alternatives to Chemical Control:	Feasible?	If No, Why Not?
1. Mechanical harvesting	○ Yes ◉ No	spreads AIS
2. Manual removal	○ Yes ◉ No	too large of areas
3. Sediment screens/covers	○ Yes ◉ No	non-target ecosystem damage
4. Dredging	○ Yes ◉ No	not feasible
5. Waterbody drawdown	○ Yes ◉ No	no ability to drawdown
6. Nutrient controls in watershed	○ Yes ◉ No	not a control option for immediate concerns
7. Other:	○ Yes ○ No	

Note: If proposed treatment involves multiple properties, consider feasibility of EACH alternative for EACH property owner.

Will surface water outflow and/or overflow be controlled to prevent chemical loss?

○ *Yes* ◉ *No*

Is the treatment area greater than 5% of surface area?

○ *Yes* ◉ *No*

WPDES Permit Request

Is WPDES coverage being requested? Refer to http://dnr.wi.gov/topic/wastewater/aquaticpesticides.html for more information

- ○ *Yes - complete section VII with signature.*

- ◉ *No*
  - ◉ *Already have WPDES*
  - ○ *WPDES coverage not needed*

Required Attachments and Supplemental Information

Upload Required Attachments (15 MB per file limit) - Help reduce file size and trouble shoot file uploads

* indicates completion of this item is required

Note: To add additional attachments using the down arrow icon. To replace an existing file, use the 'Click here to attach file ' link. To remove additional items, select the item and press CNTRL Delete.

Riparian Owners	File Attachment	Silver_KenCo_addresses_2021.pdf
Public Notice	File Attachment	Silver_Lk_public_notice_affidavit_2021.pdf
Large Scale Worksheet	File Attachment	Silver_Lk_largescale_tx_permit_2021.pdf
Site Map	File Attachment	Silver_Lk_HWM_tx_map_2021.pdf

Fee Calculation

Chemical Control Application

1. s. NR 107.11(1), Wis. Adm. Code, lists the conditions under which the permit fee is limited to the $20 minimum charge.
2. s. NR 107.11(4), Wis. Adm. Code, lists the uses that are exempt from permit requirements.
3. s. NR 107.04(2), Wis. Adm. Code, provides for a refund of acreage fees if the permit is denied or if no treatment occurs.

If Proposed treatment is over 0.25, calculate acreage fee: (round up to nearest whole acre, to maximum of 50 acres) acres X $25 per acre = $	24.20
If proposed treatment is less than 0.25 acre, acreage fee is $0	$625.00
Basic Permit Fee (non-refundable)	$20.00
Total Fee	$645

Payment Information

Invoice Number:	WP-00028500
Payment Confirmation Number:	WS2WT3006401400
Amount Paid:	$645

Sign and Submit

Applicant Responsibilities and Certification

1. The applicant has prepared a detailed map which shows the length, width and average depth of each area proposed for the control of rooted vegetation and the surface area in acres or square feet for each proposed algae treatment.
2. The applicant understands that the Department of Natural Resources may require supervision of any aquatic plant management project involving chemicals. Under s.NR 107.07 Wis. Adm. Code, supervision may include inspection of the proposed treatment area, chemicals and application equipment before, during or after treatment. The applicant is required to notify the regional office 4 working days in advance of each anticipated treatment with the date, time, location and size of treatment unless the Department waives this requirement. Do you request the Department to waive the advance notification requirement?
   (●) **Yes** ( ) **No**
3. The applicant agrees to comply with all terms or conditions of this permit, if issued, as well as all provisions of Chapter NR 107, Wis. Adm. Code. The required application fee is attached.
4. The applicant will provide a copy of the current application to any affected property owners' association inland Lake District and, in the case of chemical applications for rooted aquatic plants, to all owners of property riparian or adjacent to the treatment area. The applicant has also provided a copy of the current chemical fact sheet for the chemicals proposed for use to any affected property owner's association or inland Lake District.
5. Conditions related to invasive species movement. The applicant and operator agree to the following methods required under s.NR 109.05(2), Wis. Adm. Code for controlling, transporting and disposing of aquatic plants and animals, and moving water:
   - Aquatic plants and animals shall be removed and water drained from all equipment as required by s.30.07, Wis. Stats., and ss. NR 19.055 and 40.07, Wis. Adm. Code.
   - Operator shall comply with the most recent Department-approved 'Boat, Gear, and Equipment Decontamination and Disinfection Protocol', Manual Code #9183.1, available at http://dnr.wi.gov/topic/invasives/disinfection.html

All portions of this permit, map and accompanying cover letter must be in possession of the chemical applicator at the time of treatment. During treatment all provisions of Chapter NR 107 107.07 and NR 107.08, Wis. Adm. Code, must be complied with, as well as the specific conditions contained in the permit cover letter.

I hereby certify that that the above information is true and correct and that copies of the application shall be provided to all affected property owners promptly and that the conditions of the permit will be adhered to. All portions of this permit, map and accompanying cover letter must be in possession of the applicant or their agent at time of plant removal. During plant removal activities, all provisions of applicable Wisconsin Administrative Rules must be complied with, as well as the specific conditions contained in the permit cover letter.

Steps to Complete the signature process

IMPORTANT: All email correspondence will be sent to the address associated with your WAMS ID).

1. Read and Accept the Responsibilities and Certification
2. Press the Initiate Signature Process button
3. Open the confirmation email for a one time confirmation code and instructions to complete the signature process.

You will receive a final acknowledgement email upon completing these steps .

☑ Check if you are signing as Agent for Applicant.

i:0#.f|wamsmembership|wlpr7828 signed on 2021-

☑ I hereby certify that the above information is true and correct and that copies of this submittal have been provided to the appropriate parties named in the contact section and that the conditions of the permit and pesticide use will be adhered to.

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Aquatic Plant Management Herbicide Treatment Record

Form 3200-111 (R4/20)

Notice: Completion of this form is a condition of the permit and provides records required by WDNR (NR 107) and DATCP (ATCP 29.21 and 29.22). The Department may not issue you future permits unless you complete and submit this form. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].

Submit this form: (1) immediately if any unusual circumstances occurred during treatment
(2) as soon after treatment as possible, no later than 30 days
(3) by October 1 if no treatment occurred

Completion of this form along with the permit satisfies the requirements of WDNR (NR 107) and DATCP (ATCP 29.21 and 29.22).

Permit Number	Water body Name (including ponds, e.g., Smith Pond)
SE-2021-30-10246	Silver Lake
County: Kenosha	Permit Holder Name (Customer Name): Silver Lake Protection Association

Permit Holder Address	City	State	Zip Code
PO Box 165	Silver Lake	WI	53170

Treatment Information

Treatment Date(mm/dd/yyyy)	Starting Time (24:00 hour)	Ending Time (24:00 hour)	Water Temp	☐ C ☑ F	Ambient Air Temp	☐ C ☑ F
5/25/2021	09:00	11:15	72		76	

Wind Speed (mph)	Wind Direction	Expected Duration of Chemical Residuals
5-8	South West	1 day

Adverse Conditions Noted (i.e., dead fish, spawning fish, algae bloom, etc.)

If adverse conditions noted, indicate corrective actions taken

Comments

Onsite Supervision by DATCP and/or DNR Staff ○ Yes ○ No — If Yes, Supervisor Name :

Mixing and Loading Site Location (if other than business site or from prepackaged retail container or applied with equipment with a total capacity of not more than 5 gallons liquid or 50 pounds dry)

public boat launch

Water User Restriction

☐ No Restrictions ☐ Consuming Fish ☐ Pet/Livestock Water ☑ Irrigation (Crop)
☐ Swimming ☐ Drinking Water ☑ Irrigation Other: _____

☑ Herbicide Treatment and Water Use Restrictions Signs Posted In Accordance With NR 107 and ATCP 29.22?

Applicator shall provide each customer with a free copy of each pesticide label used (if requested)

Applicator Information

Individual or Business Name	Telephone xxx -xxx-xxxx
Wisconsin Lake & Pond Resource, LLC	920-872-2032 x

Street Address
N7828 Town Hall Rd

City	State	ZIP Code
Eldorado	WI	54932

Individuals Making or Supervising Pesticide Application	Last Name	First	Certification #	License #
	scharl	james	77803	224355

Name of Person Completing Form

James Scharl

Date: 5/25/2021

Aquatic Plant Management Herbicide Treatment Record

Form 3200-111 (R4/20)

Site No	Property Name	Address / Fire No	Treated acreage	Permitted Acreage	Sensitive Area?	Latitude	Longitude
A	silver lk	n/a	10.70	10.70	☐	42.5507	-88.1529

Herbicide Name	EPA Reg. No.	Amount Applied	Units	Application Concentration Rate (mg/l = ppm)
ProcellaCOR EC	67690-80	161	PDU	0.01 ppm

Other (not listed above) Other:

Site No	Property Name	Address / Fire No	Treated acreage	Permitted Acreage	Sensitive Area?	Latitude	Longitude
B	Silver Lake	n/a	0.50	0.50	☐	42.5507	-88.1529

Herbicide Name	EPA Reg. No.	Amount Applied	Units	Application Concentration Rate (mg/l = ppm)
ProcellaCOR EC	67690-80	7	PDU	0.01 [[m

Other (not listed above) Other:

TS	SP		Site(s)	TS	SP		Site(s)	TS	SP		Site(s)
☐	☐	Cattail		☐	☐	Flat-Stem Pondweed		☐	☐	Richardson Pondweed	
☐	☑	Chara	all	☐	☐	Floating-Leaf Pondweed		☐	☐	Robbins Pondweed	
☐	☐	Coontail		☐	☐	Illinois Pondweed		☐	☐	Sago Pondweed	
☐	☐	Curly-Leaf Pondweed		☐	☐	Large-Leaf Pondweed		☐	☐	Watershield	
☐	☐	Duckweed		☐	☐	Northern Milfoil		☐	☐	White Water Lily	
☐	☑	Elodea	all	☐	☐	Phragmites		☐	☐	Wild Celery	
☑	☐	Eurasion /hybrid Milfoil	all	☐	☐	Planktonic Algae		☐	☐	White-Stem Pondweed	
☐	☑	Filamentous Algae	all	☐	☐	Purple Loosestrife		☐	☐		

Required Attachments and Supplemental Information

Upload Required Attachments (15 MB per file limit) - Help reduce file size and trouble shoot file uploads

* indicates completion of this item is required

Note: To add additional attachments using the down arrow icon. To replace an existing file, use the 'Click here to attach file ' link. To remove additional items, select the item and press CNTRL Delete.

Site Map File Attachment

Treatment Plan File Attachment

Fee Calculation

Chemical Treatment Record

No additional payment required for submitting treatment records.

Chemical Control Application

1. s. NR 107.11(1), Wis. Adm. Code, lists the conditions under which the permit fee is limited to the $20 minimum charge.
2. s. NR 107.11(4), Wis. Adm. Code, lists the uses that are exempt from permit requirements.
3. s. NR 107.04(2), Wis. Adm. Code, provides for a refund of acreage fees if the permit is denied or if no treatment occurs.

If Proposed treatment is over 0.25, calculate acreage fee: (round up to nearest whole acre, to maximum of 50 acres) acres X $25 per acre = $	0.00
If proposed treatment is less than 0.25 acre, acreage fee is $0	$0.00
Basic Permit Fee (non-refundable)	$20.00
Total Fee	$20

Sign and Submit

Status

You can not submit your form until you have completed all areas of the treatment record.

Please complete the following missing items.

Treatment Activity: Complete

Attachments and Supplemental Information: Optional

Applicant Responsibilities and Certification

I certify that I have completed the Chemical Treatment Record as required by WDNR (NR107) and DATCP (ATCP 29.21 and 29.22).

Steps to Complete the signature process

IMPORTANT: All email correspondence will be sent to the address associated with your WAMS ID).

1. Read and Accept the Responsibilities and Certification
2. Press the Initiate Signature Process button
3. Open the confirmation email for a one time confirmation code and instructions to complete the signature process.

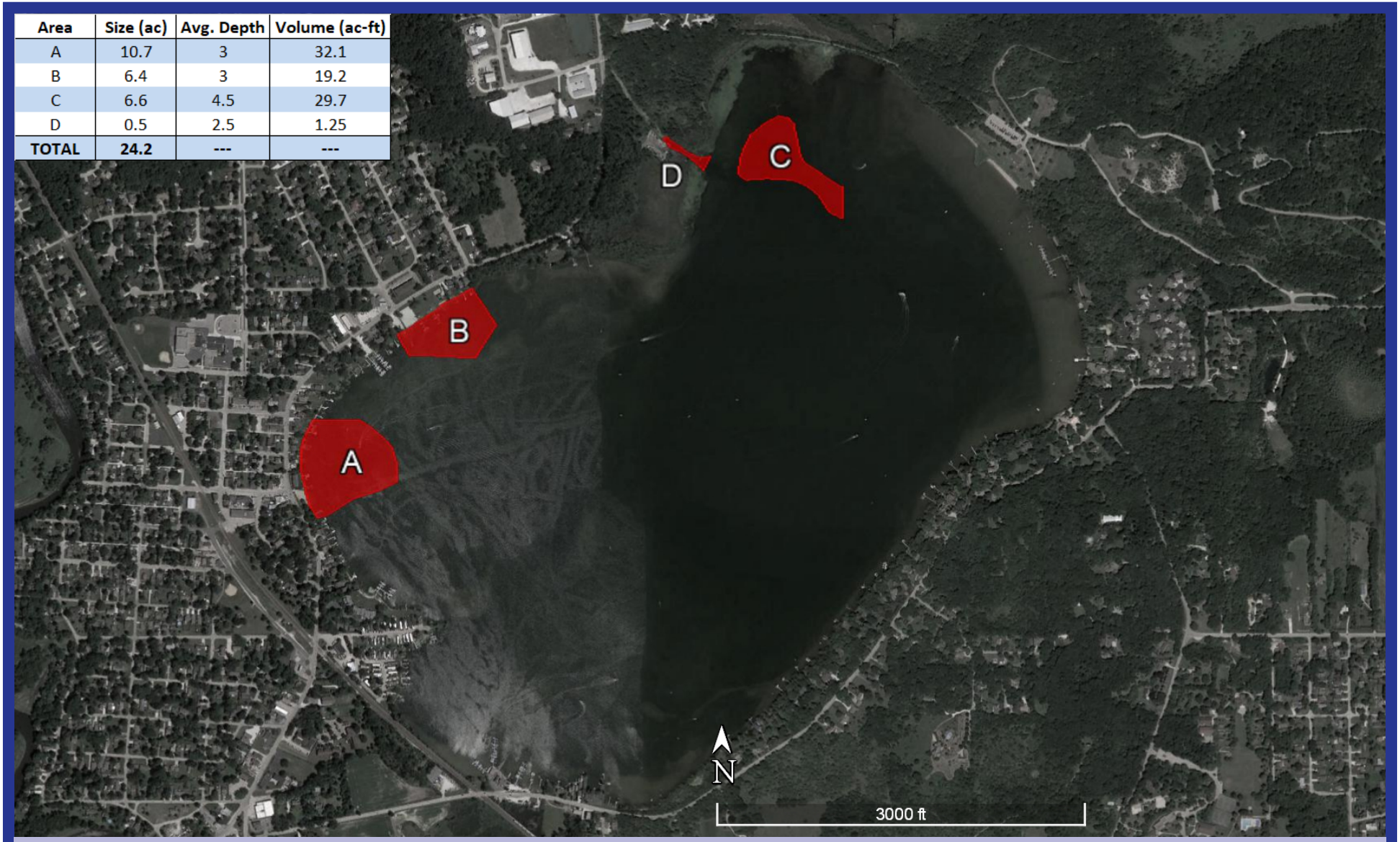
You will receive a final acknowledgement email upon completing these steps .

☑ Check if you are signing as Agent for Applicant.

i:0#.f|wamsmembership|jscharl signed on 2021-06-

☑ I hereby certify that the above information is true and correct and that copies of this submittal have been provided to the appropriate parties named in the contact section and that the conditions of the permit and pesticide use will be adhered to.

Area	Size (ac)	Avg. Depth	Volume (ac-ft)
A	10.7	3	32.1
B	6.4	3	19.2
C	6.6	4.5	29.7
D	0.5	2.5	1.25
TOTAL	**24.2**	**---**	**---**



Proposed HWM Management Locations - 2021

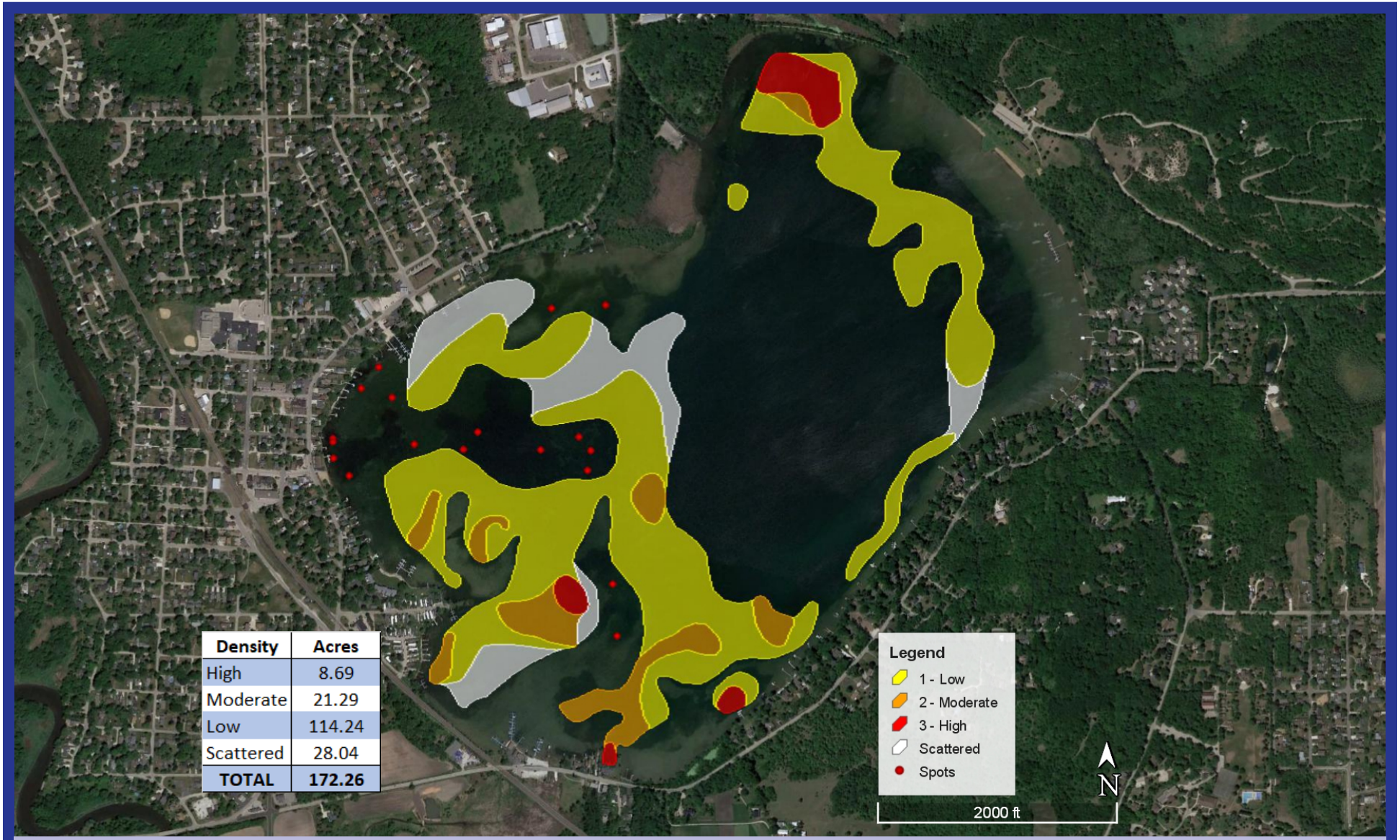
Silver Lake
Kenosha County, WI
Figure 2

Wisconsin Lake & Pond Resource LLC
"Providing Professional Resources for Management of Your Lake or Pond"
www.WisconsinLPR.com (920) 872-2032

Attachment B: Figures

Toll Free: 866-208-0724
www.wisconsinlpr.com

N7828 Town Hall Rd.
Eldorado, WI 54932
Phone: (920) 872-2032
Fax: (920) 872-2036



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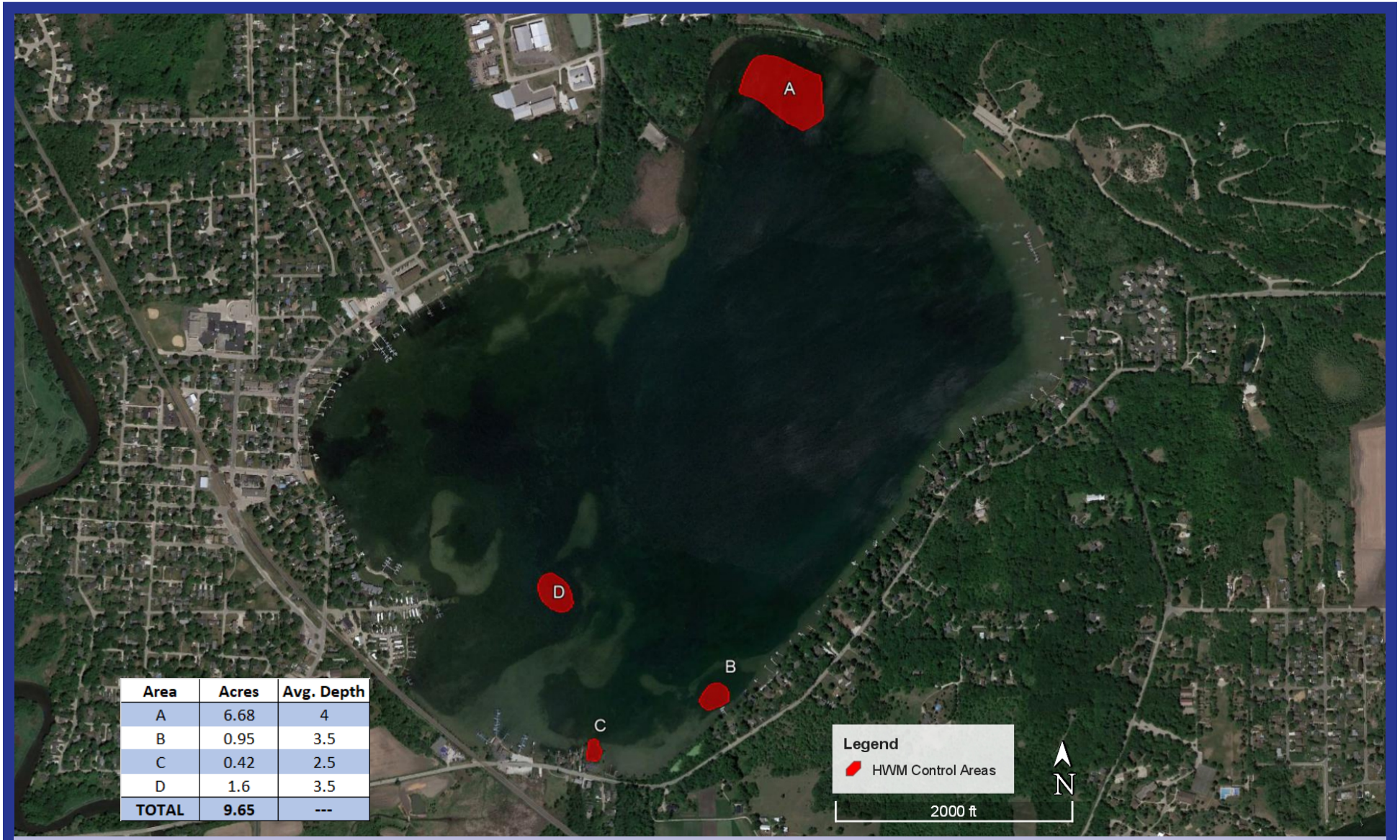
2021 HWM Locations

Figure 1

Silver Lake, Kenosha County

Surveyed: Sept. 14 & 16, 2021



Proposed 2022 HWM Management Locations

Figure 2
Silver Lake, Kenosha County
Surveyed: Sept. 14 & 16, 2021

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