

State of Wisconsin  
DEPARTMENT OF NATURAL RESOURCES  
2984 Shawano Avenue  
Green Bay WI 54313-6727

Scott Walker, Governor  
Daniel L. Meyer, Secretary  
Telephone 608-266-2621  
Toll Free 1-888-936-7463  
TTY Access via relay - 711



December 12, 2018

Richard Jens  
Sanitary District #1, Town of Schleswig, Manitowoc County  
18716 Twin Bay Lane  
Kiel WI 53042

Permit Number: NE-2018-36-0002M  
Permit fee: \$300.00

Subject: Cedar Lake Harvesting Permit

Dear Town of Schleswig Sanitary District #1:

I have received your application on behalf of the Town of Schleswig Sanitary District #1 for a permit to harvest aquatic plants by mechanical means on Cedar Lake in Manitowoc County.

Attached is your approved permit with conditions. Please read your permit carefully so that you are aware of what is expected of you. This permit will expire on **December 31, 2022**.

The permit is being issued in accordance with the Cedar Lake Aquatic Plant Management Plan dated July 5, 2017 and approved by the Department on July 13, 2017.

If you have any questions or concerns, I can be reached at (920) 662-5489 or e-mail at [mary.gansberg@wisconsin.gov](mailto:mary.gansberg@wisconsin.gov).

Sincerely,

Mary Gansberg  
Water Resources Management Specialist

Enclosures

C: Steve Hogler – Fisheries Biologist, Mishicot  
Scott Otterson – Sanitary District Commissioner



**STATE OF WISCONSIN  
DEPARTMENT OF NATURAL RESOURCES**

**Permit for Mechanical Harvesting of Aquatic Plants**

The Town of Schleswig Sanitary District No. 1 is hereby granted under Section 23.24, Wisconsin Statutes and Administrative Code NR 109, a permit to conduct mechanical harvesting of aquatic plants in Cedar Lake, Manitowoc County, subject to the following conditions. *This permit will expire on December 31, 2022.*

**PERMIT CONDITIONS**

1. You must provide a schedule of harvesting on request. The Water Resources Biologist may schedule and conduct an onsite supervision of harvesting.
2. Mechanical harvesting will only be allowed for submergent plants. No emergent plants (plants standing above the water level) can be harvested.
3. Mechanical harvesting will only be allowed in the areas specified on Figure 10. Avoid cutting in environmentally sensitive areas.
4. Only cut in depths of three feet or more and to a maximum depth of  $\frac{1}{2}$  the water column or 5 feet, whichever is shallower.
5. Mechanical harvesting for pier access shall be a maximum width of 30 feet.
6. All cut material should be inspected for fish and animals. Any organisms found should be immediately returned to the water.
7. A copy of the permit and maps shall be maintained onboard the harvester at all times harvesting operations are conducted. All operators must have read and fully understand the limitations or conditions of this permit before they can harvest aquatic plants.
8. All aquatic plants cut must be removed immediately from the water. Disposal of the harvested aquatic plants must be deposited in the area specified in the permit application and must be in accordance with any applicable county and local regulations.
9. All mechanical harvesting records must be maintained and made available to the Department upon request. An annual report summarizing harvesting activities shall be given to the Department by November 1<sup>st</sup> of each year. The annual report shall include a map showing the areas harvested, the total acres harvested, and the total amount of plant material removed from the body of water.

**FINDINGS OF FACT** (Facts which were considered in making this decision.)

1. The Town of Schleswig Sanitary District No. 1 has filed an application for a permit to conduct a mechanical harvesting operation in Cedar Lake, Manitowoc County.
2. The Town of Schleswig Sanitary District #1 has completed an updated Aquatic Plant Management Plan dated July 5, 2017 which details the Cedar Lake harvesting operation. This plan was approved by the Department on July 13, 2017.
3. The Department has determined the proposed mechanical harvesting will provide aquatic plant nuisance relief in the designated areas. The mechanical harvesting will allow for increased navigation and recreational opportunities.

**CONCLUSIONS OF LAW** (These are the legal reasons why the Department can make these decisions).

The Department has authority under the above indicated Statutes and Administrative Codes to issue a permit for mechanical harvesting of aquatic plants.

**NOTICE OF APPEAL RIGHTS**

If you believe that you have a right to challenge this decision, you should know that the 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 sections 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 must name the Department of Natural Resources as the respondent.

To request a contested case hearing pursuant to section 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. All requests for contested case hearings must be made in accordance with section NR 2.05(5), Wis. Adm. Code, and served on the Secretary in accordance with section NR 2.03, Wis. Adm. Code. The filing of a request for a contested case hearing does not extend the 30 day period for filing a petition for judicial review.

Dated at Green Bay, WI December 12, 2018

STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES

For the Secretary

By Mary Gansberg  
Mary Gansberg  
Water Resources Management Specialist

Notice: Pursuant to s. 23.24, Wis. Stats., the information requested on this form is required by the Department of Natural Resources (DNR) to permit aquatic plant control mechanical and/or manual application. Failure to complete and submit this form will result in no permit being issued. Personally identifiable information collected will be used for program administration and may be made available to requesters to the extent required under Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

For DNR Use Only	
Date Received	ID Number
Fee Received \$300.00	NE-2018-36-0002M
Exp. Date 12/31/2023	County Code 36
	WBIC 54100

**Section I: Applicant Data**

Permit Applicant Name Sanitary District #1, Town of Schleswig, Manitowoc Cnty			Applicant is: <input type="checkbox"/> Private individual <input type="checkbox"/> Contractor <input checked="" type="checkbox"/> Lake Organization (Specify) <u>Sanitary District #1</u>		
Applicant Mailing Address 18716 Twin Bay Lane			Lake Property Address, City, State, Zip (if different)		
City Kiel	State WI	ZIP Code 53042			
Phone Number (include area code) (920) 286-2601	Email Address jensfam73@gmail.com	Phone Number (include area code)	Email Address		

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

Name	Address	Phone	Email Address
A. Sanitary District #1, Town of	c/o Richard Jens	(920) 286-2601	jensfam73@gmail.com
B. Schleswig, Manitowoc Cnty	18716 Twin Bay Lane		
C.	Kiel, WI 53042		
D.			

Has a Lake Management plan been provided to the DNR? <input checked="" type="radio"/> Yes <input type="radio"/> No	If Yes, date approved of most current copy 07/05/2017	Location of Applicant file copy Schleswig Town Hall
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Does the proposed plant removal agree with the approved plan?  
 If NO, explain. Attach additional sheets if necessary.  Yes  No

Is this area within or adjacent to a Sensitive Area designated by the Wisconsin Department of Natural Resources?

Yes  No  Don't Know If yes, list sites:

**Section II: Location of Aquatic Plant Removal and Disposal**

Waterbody of proposed plant removal Cedar Lake	Lake Surface Area (acres) 145	County Manitowoc	Town 17 N	Range 23	Section 23
Name of Firm (if sub-contracted) N/A	Phone Number (include area code)				
Street Address 14530 Louis Corners Road	City Kiel	State WI	ZIP Code 53042		
Name of 1st Plant Disposal Site (if applicable) Wagner Farm used for soil amendment	1/4 1/4 1/4	Section	Township 17 N	Range 23	County Manitowoc
Name of 2nd Plant Disposal Site (if applicable)	1/4 1/4 1/4	Section	Township N	Range OW	County Manitowoc

Area(s) Proposed for Plant Removal (Note details in permit cover letter for final permitted sizes). Please see attached sample drawing for guidance.

- Length from shore \_\_\_\_\_ ft. x Shoreline or area width \_\_\_\_\_ ft. / 43,560 = \_\_\_\_\_ Estimated Acreage Avg. Depth \_\_\_\_\_ ft.
- Length from shore \_\_\_\_\_ ft. x Shoreline or area width \_\_\_\_\_ ft. / 43,560 = \_\_\_\_\_ Estimated Acreage Avg. Depth \_\_\_\_\_ ft.
- Length from shore \_\_\_\_\_ ft. x Shoreline or area width \_\_\_\_\_ ft. / 43,560 = \_\_\_\_\_ Estimated Acreage Avg. Depth \_\_\_\_\_ ft.
- Offshore Control Site Length \_\_\_\_\_ ft. x Shoreline or area width \_\_\_\_\_ ft. / 43,560 = \_\_\_\_\_ Estimated Acreage Avg. Depth \_\_\_\_\_ ft.
- Offshore Control Site Length \_\_\_\_\_ ft. x Shoreline or area width \_\_\_\_\_ ft. / 43,560 = \_\_\_\_\_ Estimated Acreage Avg. Depth \_\_\_\_\_ ft.

TOTAL ESTIMATED ACREAGE 50.25

SEE ATTACHED AQUATIC PLANT HARVESTING AREAS Fig 1 & 2  
 Figure 10. REV 4/21/23 MG



**Section II: Location of Aquatic Plant Removal (cont.)**

What type of aquatic plants below the Ordinary High Water Mark are proposed to be removed? (check all that apply)

- Emergent (above water level)    
  Submergent (below water level)    
  Floating Leaf (at the surface i.e. lily pads)

**Section III: Map & Property Ownership**

Attach a copy of a lake map that includes the property(s) to be harvested. If no printed map is available, provide a sketch of the site at the bottom of this page. On the map, identify the following required information.

- Area and dimensions of each proposed plant removal area.
- Location of all riparian neighbors (property owners riparian to and adjacent to the proposed removal area) including project participants and non-participants. Consecutively number each riparian neighbor (both project participants and non-participants). In the space below:
- Name all riparian owners, including project participants & non-participants. The number should correspond with the numbered properties on the map. Attach additional sheets if necessary.
- Check Yes box to indicate project participants and No box for non-participants.

No.	Name of Riparian Neighbor	Project Participant	Control dimensions (calculated acreage)
1.	_____	<input type="radio"/> Yes <input type="radio"/> No	_____
2.	_____	<input type="radio"/> Yes <input type="radio"/> No	_____
3.	_____	<input type="radio"/> Yes <input type="radio"/> No	_____
4.	_____	<input type="radio"/> Yes <input type="radio"/> No	_____
5.	_____	<input type="radio"/> Yes <input type="radio"/> No	_____
6.	_____	<input type="radio"/> Yes <input type="radio"/> No	_____

- Check here if separate sheets are attached identifying additional neighbor riparian owners. Indicate project participants and/or non-participants.  
 Check here if printed map attached. If no printed map, use this space to sketch the site and provide required information.

**Map**

*SEE 2018 CHA MAP ATTACHED*





**Section IV: Methods**

What mechanical or manual methods to remove plants are proposed? (check all that apply)

- Mechanical harvesting     Raking     Other Specify Other:
- Hand Pulling     Cutting     Alum

If alum treatment is proposed, has a plan been developed?     Yes     No    If yes, please include the plan with this application. Please explain why you selected the proposed cutting method(s).

**Note:** Other control methods (i.e. bottom barriers, weed rollers, herbicides) also need DNR permits. Contact this office for more details.

**Section V: Fees**

Fees are not refundable and are calculated as follows:

Check box for type of project:

1.  single riparian area, one property owner, less than one acre ..... **\$30.00**
2.  multiple riparian areas, offshore control areas, multiple riparian properties, one acre or greater \$30.00/acre (round up to the nearest whole acre)  
If proposed removal is greater than 10 acres fee caps at \$300.00

\_\_\_\_\_ acres x \$30.00 per acre = \_\_\_\_\_  
Total non-refundable fee enclosed (max \$300.00) ..... \$300.00

**Section VI: Reasons for Aquatic Plant Removal**

Purpose of Aquatic Plant Removal

- Maintain navigational channel for common use
- Maintain private access for boating
- Maintain private access for fishing
- Improve swimming
- Other \_\_\_\_\_

Nuisance Caused by

- Emergent water plants
- Submergent water plants
- Floating water plants
- Other \_\_\_\_\_

Name of plants, if known \_\_\_\_\_

**Section VII: Integrated Pest Management (Alternatives Considered)**

	A. Previously Done?	B. Presently Proposed?
1. Chemical	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No
2. Dredging	<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No
3. Drawdown	<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No
4. Nutrient controls in watershed	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No
5. Nutrient controls on property	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No
6. Other	<input checked="" type="radio"/> Yes <input type="radio"/> No	<input type="radio"/> Yes <input checked="" type="radio"/> No

**Note:** Consider feasibility of alternatives for each control site. This information not only helps the department make a decision on this application but also helps you evaluate your investment in aquatic plant management.

Describe the level of success for alternative methods previously used:

1. Chemical    Have contained areas but has allowed other areas to emerge
2. Dredging    N/A
3. Drawdown    N/A
4. Nutrient controls in watershed    Had phosphorous fertilizer ban enacted. Went into effect on January 1, 2008
5. Nutrient controls on property    Same as #4
6. Other    Did Dash treatment in 2017 that eliminated almost 5000 pounds of EWM



**Section VIII: Applicants Responsibilities**

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.
2. The applicant understands that the Department of Natural Resources may require supervision of any aquatic plant management project involving removal. Supervision may include inspection of the proposed treatment area and/or equipment, before, during, or after removal. The applicant is required to notify the regional office 4 working days in advance of each anticipated date of plant removal with the date, time, location and size of plant removal unless the Department waives this requirement. The advance notification may be specified in your permit.
3. The applicant agrees to inform all operators of harvesting equipment of the conditions and terms of this permit and to insure that all operators understand and abide by those terms and conditions.
4. The applicant agrees to comply with all terms and conditions of this permit, if used, as well as applicable Wisconsin Administrative Rules. The required fee is attached.
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>

I hereby certify that the above information is true and correct and that copies of the application have been provided to the appropriate parties name in Section II 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.

*[Signature]*  
Applicant's Signature

11/20/18  
Date Signed

**DNR Use Only**

Review Notes:

National Heritage Inventory Review

**Section IX: Permit to Carry Out Mechanical or Manual Removal of Aquatic Plants**

The foregoing application is approved. Permission is hereby granted to the applicant to mechanically or manually remove aquatic plants described in the application during the season. The approval of an aquatic plant management permit may not represent an endorsement of the permitted activity, but represents that the applicant has complied with Wisconsin Administrative Rules.

Season Year(s)  
2018-2022

Application fee if received?  
 Yes     No

State of Wisconsin  
Department of Natural Resources For the Secretary

By *Mary Gansberg*  
Regional Director/Designee

12/12/2018  
Date Signed

E-Mail 12-12-2018  
Date Mailed

If you believe that you have a right to challenge this decision, you should know that Wisconsin statutes and administrative rule establish time periods within which requests to review Department decisions must be filed.



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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.

This notice is provided pursuant to s. 227.48(2), Wis. Stats.



**Legend**

-  Environmentally Sensitive No-Harvest Areas
-  Mechanical Harvest Areas

Area	Acres
A	2.41
B	1.1
C	9.13
D	14.6
E	15.7
F	7.31
<b>TOTAL</b>	<b>50.25</b>

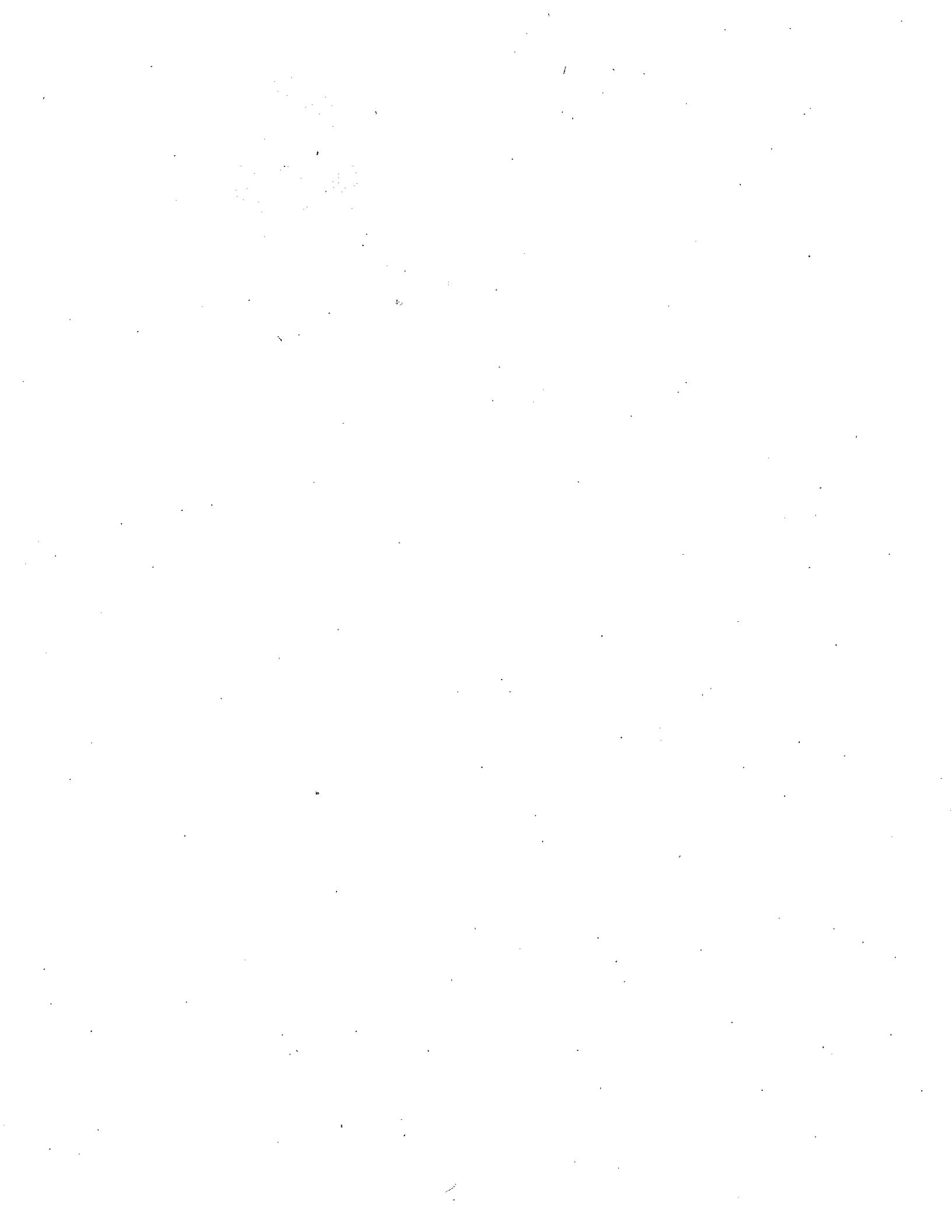


**Lake & Pond Resource LLC**  
"Providing Professional Resources for Management of Your Lake or Pond"  
www.WisconsinLPR.com  
(920) 872-2032

## Mechanical Harvesting Areas

Cedar Lake, Manitowoc County  
Figure 10

**NOTE:** The District may only harvest within the **yellow** shaded areas for pier, swimming, or boat access.







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Pond Design and Development

## Cedar Lake - Aquatic Plant Management Plan

Town of Schleswig  
Sanitary District #1

WDNR Lake Planning Grant  
LPL-1583-16

Prepared by:  
Wisconsin Lake and Pond Resource

A handwritten signature in black ink, appearing to read 'James Scharl', with a long horizontal flourish extending to the right.

James Scharl

July 5, 2017





## **8.0 OVERALL LAKE MANAGEMENT GOALS**

Cedar Lake is a natural seepage lake with very good water quality, an excellent aquatic plant community and high recreational use. Management actions recommended below are based on the findings of this APM plan and chosen to protect and enhance the conditions present:

- User of the lake enjoy their time on the water with over 26 average years of experience, indicating a longevity that is important to generations of families and an increased importance on maintaining conditions for future generations (Section 2.0, pg 2.3)
- Water quality is excellent, with clarity averaging 14.0 ft and low nutrients to fuel algae blooms (Section 3.1, pg 3.6)
- Good water clarity allows for aquatic plants to thrive, even in up to 22 feet of water. Largely, the aquatic plant community of Cedar Lake is of high quality with great diversity and includes 24 native species (Section 4.1, pg 4.13, & Figures 2-7)
- Though of high quality, aquatic plants can and do grow to nuisance levels, requiring active management through mechanical harvesting since 1950 (Section 3.0, pg 3.5)
- Aquatic invasive species are a constant threat to the quality of the lake and are present in low numbers (Section 4.1, pg 4.14, & Figure 1a-1b)
- A public user survey was conducted to gauge the perception of the lake and formulate aquatic plant management options that are not only viable for Cedar Lake, but also desired by its users and able to be successful (Appendix A)
- Current management actions have shown to have no negative impact to the aquatic plant over time (Section 4.3, pg 4.16) and are the most accepted and recommended by lake users (Appendix A)

Even with AIS present in Cedar Lake their impact to the system are minimal and are not currently at levels that require aggressive large-scale management. Though the aquatic plant community in Cedar Lake is healthy, it can grow dense and impact recreational use on the water. Dense aquatic plant growth only worsens navigational issues throughout the lake and negatively impacted users of the lake 82.7% of the time, with the same amount of users wanting management action to reduce aquatic plant issues.

Only those options that will be supported by the users, TSSD, and CLIA with high likelihood of subsequent approval from the WDNR will be selected to help accomplish management goals. However, not all desired management options are viable or feasible for each situation. All options are discussed further in Appendix C. Based on the above, the following recommended action plan includes a combination of management actions to achieve desired results.

**Goal:** Renew the mechanical harvesting permit

**Primary Action:** The current permit expires in 2017 and was issued using the 2005 APM plan. Use the contents of this plan, including Figure 10, to update the harvesting permit based on current conditions.

**CEDAR LAKE -  
AQUATIC PLANT MANAGEMENT PLAN**  
Overall Lake Management Goals  
July 5, 2017

**Goal:** Reduce Nuisance Aquatic Plant Growth Hampering Navigation

**Primary Action:** Mechanically harvest common navigational channels to a depth of 5' for riparian boat access, increase recreational potential for fishing, and maintain boating, swimming, and pier access. See figure 10 for recommended harvest areas. The following guideline should be used for all mechanical plant harvesting activities:

- Only cut in depths of three feet or more
- Only cut to a maximum depth of ½ the water column or 5', whichever is shallower
- Avoid cutting in environmentally sensitive areas
- All cut material should be inspected for fish and animals. Any organisms found should be immediately returned to the water
- All cut materials should be collected and deposited at the designated disposal site as indicated on the permit
- Free floating plants uprooted by wave and boating action may be surface skimmed without use of the cutting head if outside of designated harvest areas

**Goal:** Obtain financial assistance for AIS management activities.

**Primary Action:** Apply for an AIS Established Population Control Grant through the WDNR's Surface Water Grant program to manual harvesting of EWM through hand and SCUBA control methods. The deadline for application is February 1 and can fund up to 75% of eligible project costs.

**Goal:** Manage AIS to improve recreation, increase use opportunities, and rehabilitate native plants by reducing AIS abundance and frequency within the littoral zone. If active AIS management is pursued, the goal should be to maintain the presence of the target species to 5% frequencies of occurrence or less within the littoral zone over a 3 – 5 year active management window. Current populations are low and require minimal action.

**Primary Action:** Hand harvest areas of EWM in shallow, near shore areas and using SCUBA in areas of greater depth (> 5.0 ft).

**Primary Action:** Continue monitoring for, and citizen mapping of, EWM and other AIS.

**Possible Action:** If populations of AIS increase above 5.0% of littoral zone or 5.0 acres in size, use fast-acting contact herbicides for submersed plants.

**Possible Action:** Each year direct AIS management is to take place, continue to complete aquatic plant surveys to monitor AIS and native plant responses to the management and plan for the future. AIS should be surveyed and mapped before and after treatment according to DNR protocol to evaluate effectiveness, or at least post-treatment each year following management activities. Comparison of data between years allows calculating reduction of targeted species in relation to project goals.

**Goal:** Continue comprehensive water quality monitoring within Cedar Lake through the WDNR Citizen Lake Monitoring Network and support CB/CW efforts.

**Primary Action:** Continue monitoring in 2017 and beyond for water quality through secchi readings, chlorophyll-a, and total phosphorus. Samples should be taken once monthly between May – September or at least 3 times a year spaced 30 days apart, or at a bare minimum once a year mid-summer.

**Primary Action:** Continue participation in the Clean Boats / Clean waters program and commit to a minimum of 50 hours of monitoring per year.