BOARD MEETING PACKET

The quarterly meeting of the Silver Lake Management District Board of Commissioners, 6:30pm, Tuesday, September 16, 2024, at the Silver Lake Community Center, 113 S First Street, Silver Lake, WI.

1. **Call to Order**

2. **Roll Call**

   John Coffey
   Ron Gandt
   Larry Kohn
   Harry Laws
   Jim Purinton

   Guest attendees: Sign-up sheet.

3. **Open Meeting Law Compliance Check**
   The September 16 Board Meeting Notice was posted on the District website on September 9 and at Silver Lake Post Office, the Salem Lakes Village Hall, and the Community Library on ------.

4. **Citizen Comments (on items not on Agenda – limit 2 minutes)**

5. **Board Member Comments**

6. **Approval of Minutes of May 24, 2025 Annual Meeting and Minutes of the May 24, 2025 Board Meeting (Exhibit A)**

7. **Chairman's Report (Purinton)**

a. *Kenosha County Representative to SLMD Board*
    i. *Kenosha County has historically appointed local individuals as their representatives to lake district boards.*
    ii. *John Coffey was first appointed in 2021 and then reappointed in 2023. John's current term expires 12/31/25.*
    iii. *John is seeking re-appointment by the Kenosha County Board.*
    iv. *I have recommended John's re-appointment to County Executive Kerkman. County Commissioner Decker will support the re-appointment.*
b. *WDNR Panfish Study*
    i. *In April, SLMD Board recommended WDNR undertake a Silver Lake panfish study.*
    ii. *WDNR Fisheries Biologist, Travis Motl, agreed to do so.*
    iii. *WDNR will be finishing the study this fall when they also assess juvenile walleye population.*
    iv. *Might result in recommended panfish bag reduction.*
c. *Rock Lake (w of 83, s of Trevor) Again Trying to Form Lake District*
    i. *Rock Lake private lake protection group in process of updating its Aquatic Plant Management Plan and seeking to form lake district.*
    ii. *Attended Rock Lake Informational Meeting Sunday, July 25, at Salem Lakes Village Hall*
    iii. *I was on a panel with D Matuszak, SEWRPC; C Helker, WDNR; M Nordigian, Ken Co Bd and Powers Lake district; and D. Faber, SL Village Bd and Camp/Center lake district.*
    iv. *I said we formed our lake district in response to our lake's milfoil problems to provide a consistent funding source and continuous organizational structure, and I described our 10-year experience treating the milfoil in the lake and the costs of doing so. I also offered to testify at Kenosha County PDEEC hearing if they petition the County to form the lake district.*
d. *Website Updates*
    i. *Website is designed so that authorized persons can update/add material to the website without needing to engage the third-party consultant. Mailchimp email list can also be used without the third-party consultant being involved.*

ii. *Since Annual Meeting, I uploaded approved April 9 Board meeting minutes and pending minutes of May 24 Annual Meeting and May 24 Board Meeting.*

iii. *I updated the Chairman's Message with the Annual Meeting Recap and sent similar MailChimp email to our web list of about 275.*

iv. *I updated coming Events with Sept 16 Meeting Notice and Board Meeting Packet.*

v. ***Website Training This Fall– Need others to be able to access and update the website.*** *Larry Kohn, Board Secretary already signed up. Others?*

8. **Treasurer's Report (Laws) - Exhibit B**

9. **2025 Annual Meeting – Review and Discussion (Purinton) – Exhibit C**

10. **Invasive Species Report (Zyer/Purinton)**
    a. *Observations on Summer 2025 aquatic plant growth in lake?*
    b. *Fall 2025 HWM Survey was planned for 2nd week in September.*
    c. *Fall 2025 HWM Report to be reviewed and 2026 HWM Treatment/2026 Fall Survey to be authorized at December Board meeting.*

11. **Water Safety Patrols – Review 2025 Program (Andershock) – Exhibit D**

12. **Lake Levels / Outlet Dam Report–Summer Lake Levels and Dam Inquiries (Bell) – Exhibit E**

13. **Water Quality – Discussion and Possible Action Concerning SEWRPC Silver Lake Water Quality Study and WDNR Grant Application (Engels/Purinton) – Exhibit F**

14. Any Other Topics

15. Next Board Meeting*:*

a. *W Dec 17 or Th Dec 18?*
b. *Agenda to include approval of 2026 insurance & other annual admin costs as well as independent review of 2025 financials; approval of 2026 HWM Treatment Program; approval of 2026 Water Safety Patrol Program and contract with Kenosha County Sheriff; and approval of date, location, and planning for 2026 Annual Meeting.*

16.Adjournment

EXHIBIT A

MINUTES OF MAY 24, 2025 ANNUAL MEETING

MINUTES OF MAY 24, 2025 BOARD MEETING

2025 ANNUAL MEETING OF THE SILVER LAKE MANAGEMENT DISTRICT
MAY 24, 2025

1. Call to Order, Opening Statement, and Introductions

a. Chair Jim Purinton called the 2025 Annual Meeting of the Silver Lake Management District (the "District") to order at 10:03 a.m. Saturday, May 24, 2025, at the Copper Bottom Pavilion, 28836 Silver Lake Road, Salem, WI.
b. Purinton welcomed over 85 people to the meeting and read a statement that the meeting was properly noticed as required by Wisconsin statutes.
c. Purinton introduced the other Commissioners who served on the Board of Directors for the past year: Dee Andershock (Secretary), John Coffey (County Representative), and Harry Laws (Treasurer). Absent was Ron Gandt who was recently appointed to the Board as representative of the Village of Salem Lakes.

2. Resolution to Expand the Board By Two Elected Commissioners

a. Purinton read the resolution which the Board approved for a vote at the Annual Meeting: "Resolved that the electors of the Silver Lake Management District do hereby approve the expansion of the Board of Commissioners from five to seven members by adding two additional elected Commissioners pursuant to section 33.28.2m.a of the Wisconsin Statutes."
b. Purinton asked for a motion to approve the resolution. The motion was made by Harry Laws and seconded by Dee Andershock.
c. In the following open discussion, Byron Kozak, Chuck Higgins, Matt Rich, and Connie Zyer spoke against the resolution noting that a larger board could make it more difficult to make decisions, could become more political, and sometimes leads to expanding the activities of the

board unnecessarily. It was also noted that volunteers could assist with the District's programs. Patrick Lenihan, Francois Bertaud, and Tom McFarland were among those who spoke in favor of the resolution.

d. After discussion ended, the Chair called the question and a vote was taken. The resolution failed with a vote of 25 in favor and 52 against.

3. **Final Call for Nominations for Commissioner**
   a. Harry Laws and John Coffey served as Election Judges for the meeting.
   b. Laws said four candidates were on the ballot: Dee Andershock, Dave Engels, Larry Kohn, and Patrick Lenihan.
   c. Laws asked if there were any further nominations for Commissioner.
   d. No additional nominations were made.

4. **Candidate Statements**
   a. Laws asked all candidates to make a brief statement on why he or she was seeking to be elected Commissioner.
   b. Patrick Lenihan withdrew from the election, noting that he was interested only if the Board was to be expanded.

5. **In-Person, Secret Ballot Voting for Commissioner**
   a. Laws said that, since the resolution to expand the Board failed, one commissioner would be elected.
   b. He instructed electors to vote for only one candidate.
   c. Coffey and Laws collected the ballots and then tallied them for reporting later in the meeting.

6. **Invasive Species Report**
   a. Purinton asked for a volunteer to work with the Board on invasive species for the next year. Dave Zyer volunteered.
   b. Purinton then made a report on invasive species, noting that the lake district was originally formed to deal with the hybrid water milfoil (HWM) invasion of a decade ago.
   c. Purinton said that the Aquatic Plant Management Plan, required by the WDNR, was completed and approved last year to guide the management of invasive species going forward.
   d. HWM is the only invasive species the currently needs management, and the process is straightforward.
      i. The District's consultant undertakes a physical survey of the lake vegetation each fall and plots the location and density of HWM and other invasive species.

ii. The consultant then recommends areas of dense HWM growth for treatment in the following spring.
iii. The treatment plan is reviewed, approved, and funded by the Board, then permitted by the WDNR, and carried out in the spring.
iv. The fall survey/spring treatment process, undertaken since the whole-lake HWM treatment in 2015, has so far been successful in preventing HWM from overtaking the lake once again.

e. Purinton said the fall 2024 survey showed very little dense HWM growth, so this year's spring treatment, carried out in the first week of May, only covered about 1/3-acre in the southeast corner of the lake.
f. Purinton made two further comments:
   i. The Starry Stonewort, first discovered in the lake in 2023, was not found in the fall 2024 survey. It is probably still in the lake. If it becomes a problem in Silver Lake, as it has become in some other lakes, there is no recommended mitigation program to control this invasive plant species.
   ii. The quagga mussel, which made its way into the Great Lakes and then Lake Michigan some time ago, was found in Lake Geneva last year. It is larger than the zebra mussel and can be a bigger problem. The quagga mussel is likely to be found in Silver Lake sometime in the next few years. There is no recommended mitigation program for managing nuisance quagga mussel populations.

7. <u>Water Safety Patrols</u>

a. Purinton said boating safety and enforcement was the second highest concern raised in the lakefront property owner and lake user survey conducted in 2023.
b. Purinton said the District re-instituted police patrols on Silver Lake in 2024 after their absence since 2018. He said that all lake districts in Kenosha County need to fill the gap to sponsor police patrols for their lakes as neither the Village nor the County provide regular police patrols.
c. Dee Andershock said she would volunteer to continue to work on the water patrol program if not re-elected to the Board. Jesse Seidman, Matt Beck, and Byron Kozak also volunteered.
d. Andershock summarized the 2024 water safety patrol program.
   i. The Board contracted with the Kenosha County Sheriff's Department for a pilot program of one shift per weekend up to a

maximum cost of $10,000.

ii. The Sheriff's Department docked their boat at Andershock's pier which saved time getting onto the water and offered the opportunity for Andershock to interact with the deputies.

iii. Total cost was $5,000. $2,951 was reimbursed by the WDNR.

iv. Residents provided overwhelmingly positive reviews. The Sheriff's department made a few citations, gave many more warnings, and felt their role was to primarily provide a police presence and only go after flagrant violations.

e. Regarding the 2025 water safety patrol program, Andershock reported:

i. The Board reviewed the 2024 program and decided to double the patrols for 2025, requesting patrols on both Saturday and Sunday on most weekends from Memorial Day to Labor Day (weather, lake conditions, and Sheriff staffing permitting).

ii. The total cost is not to exceed $14,000 before partial reimbursement from WDNR.

iii. The contract was signed with the Kenosha County Sheriff's Department pursuant to the Board authorization.

f. Andershock then answered questions regarding the program.

8. <u>Lake Levels / Outlet Dam</u>

a. Purinton said that lake levels /outlet dam was the third-ranked concern in the 2023 lakefront property owner and lake user survey.

b. Jeff Bell and Kurt Ullmann volunteered to help the Board with the lake levels / outlet dam program.

c. Purinton said the Board started investigating lake levels in 2022 and discovered that there were no accurate records of lake levels. The Board began recording monthly lake levels on the Village gauge in September 2022 and publishes lake level information on its website.

d. Purinton emphasized four points:

i. Lake levels are most dependent on the amount of precipitation that falls within the small 4.2-acre lake watershed that largely lies north of the lake.

ii. Lake levels have multi-year cycles. The later 2010's had high water marked by the 2017 flood (up to the underside of the bridge in the outlet creek) and several Village no-wake rulings on lake activities. The 2020's have been much drier, with a low lake level in 2021 (dry creek) that was almost three feet lower than the 2017 high point.

iii. The data to date also shows the familiar yearly cycle of higher

lake levels in the spring followed by declining lake levels during the summer, with levels 10" to 12" lower in the fall. Evaporation is the primary cause and is highest in the summer heat when about 1" of rainfall per week is needed to maintain constant lake levels.

iv. The outlet dam has only a marginal effect on lake levels. The dam kept the lake approximately 6" higher than the outflow creek when the lake level was below the top of the dam during the summer of 2023. However, the dam does NOT prevent the decline of lake levels during dry summers when evaporation exceeds precipitation.

e. Purinton reported that, in response to a question at last year's Annual Meeting, the Board investigated the height of the dam in relation to the state-authorized lake levels.
   i. The investigation concluded that the top of the dam is within about 4" of the authorized summer level of the lake. A report on this investigation can be found on the District website.
   ii. The ensuing discussion raised other questions:
      1. How will repair or replacement be funded?
      2. Should the dam remain in private ownership if public funds are used for the repair or replacement?
      3. The dam authorization requires that the boards be put into place no earlier than April 1, taken out during high water periods, and then removed in the fall. Dams on other lakes have been made permanent. Should a permanent dam be constructed when a replacement is needed?
      4. The WDNR regulates the dam and WDNR views and procedures need to be further explored before recommending any changes to the dam.
   iii. The Board concluded that these issues should be further investigated and discussed prior to the required significant repair or replacement of the dam.

9. <u>Water Quality</u>

a. Purinton said that water quality was another top concern in the 2023 lakefront property owner and lake user survey. He said many other lake districts have also instituted efforts to understand what affects the lake's water quality and how to maintain or improve it.
b. Dave Engels, as a volunteer, has led the Board's efforts in 2024 and will commit to writing the grant for the water quality plan, along with

Patrick Lenihan. Paul and Joanne Maggio also volunteered to assist.

c. Engels gave the report on the water quality sampling and testing that was completed in the spring and fall of 2024. The results were not surprising -- Silver Lake, like other southeastern Wisconsin lakes, has relatively high salt content, including elevated levels of sodium, chloride, potassium, sulfate, and calcium. These levels have increased over the past decades. The results, along with a summary of causes, effects and solutions, can be found on a new webpage on the District's website.
d. Engels went on to say the next step is to further investigate possible water quality issues specific to Silver Lake. He said the Board just received a proposal from the Southeastern Wisconsin Regional Planning Commission (SEWRPC) to further investigate specific water quality issues in Silver Lake.
    i. The scope includes examining septic and stormwater outfalls, pollutant loading sources and loads, water quality and beach closures, shoreline condition grading, boating carrying capacity, and aquatic habitat.
    ii. The study has a cost, including lab testing, not to exceed $20,000, and will be conducted primarily in 2026, with the final report issued in early 2027. A WDNR grant could help defray the cost.
    iii. Purinton said the Board needed to review and approve the specific SEWRPC proposal, but he asked for a vote on whether or not the Board should pursue further investigation of Silver Lake water quality issues at a cost not to exceed $20,000 with the District seeking WDNR grant to help offset the cost. A motion was made by Dave Engels and seconded by Harry Laws. The motion passed.

10. <u>District Financials</u>

a. Treasurer Laws reported that the final 2024 budget was independently reviewed.
b. Laws said that, regarding the 2025 budget, milfoil lake treatment will be far below budget, resulting in an expected cash surplus at year-end of almost $25,000. Total Reserves for Future Projects at year-end will then be over $90,000. The Board has authorized $60,000 of the Reserve to be invested in Chase 1-yr certificates of deposit that mature during the year.
c. Laws said the proposed 2026 budget includes revenues from a $47,000 tax levy (down 10% from prior years) and an expected $10,500 WDNR

grant reimbursement for water safety patrols. Projected expenses include $14,000 for HWM Lake Treatment, $14,000 for Water Safety Patrols, $15,000 for Water Quality Studies, along with typical annual administrative costs.

11. Approval of 2025 Budget

a. Purinton asked for a motion to approve the proposed 2026 budget that includes a $47,000 tax levy, programs in excess of $10,000 for HWM lake treatment, water safety patrols, and water quality studies, and a projected approximate $90,000 year-end reserve for future projects. The motion was made by Laws and seconded by Jeff Bell. The motion carried.

12. **Results of the Election of Commissioner:**

a. Laws reported that Larry Kohn was the winner with 45 votes. Dave Engels received 23 votes, and Dee Andershock received 16 votes.
b. Larry Kohn was sworn in to a three-year term by taking the oath of office.

13. Other Business - Q&A

a. Panfish Study: Dave Engels reported that the WDNR will undertake a panfish study this summer as a result of the Board supporting the study earlier this year. He also mentioned that the WDNR is no longer stocking musky or northern pike in Silver Lake. Walleye will be stocked in even-numbered years, though the number stocked in 2024 was halved due to budget constraints. A question was asked about the cost of stocking additional walleye fingerlings if the WDNR continues to stock only half. Engels said it would cost about $18,000 for 5,000 fingerlings.
b. Purinton announced that the District Board of Commissioners, including new member Larry Kohn, would be meeting immediately after the Annual Meeting to elect officers for the next year and conduct other routine business. The meeting is open to the public.

14. Adjournment of meeting: Motion to adjourn the annual meeting was made by Laws and seconded by Andershock. Motion passed.

Respectfully submitted,
Jim Purinton, Chairman

MEETING MINUTES OF THE BOARD OF COMMISSIONERS

May 24, 2025

1. **Call to order**

The meeting of the Board of Commissioners of the Silver Lake Management District (the "District") was called to order at 11:55 a.m. May 24, 2025. The meeting was held in the pavilion at Copper Bottom Grill, 28836 Silver Lake Road, Salem, WI.

Roll Call
John Coffey
Ron Gandt (absent)
Harry Laws
Jim Purinton
Larry Kohn (newly elected)

2. **Newly Elected Commissioner Orientation**
   Purinton provided orientation materials to Larry Kohn

3. **Open Meeting Law Compliance Check**
   The Open Meeting Law requirement for 24-hour notice of the meeting was satisfied. The May 24, 2025, Board Meeting notice with agenda was posted on the district's website (www.silverlakemgmtdist.org) on May 1, and then posted on the Salem Lakes Community Library, the Silver Lake Post Office, and the Salem Lakes Village Hall on May 22.

4. **Election of Officers (through next Annual Meeting)**
   a. Motion to approve the election of Jim Purinton as Chair made by Laws, seconded by Coffey. Motion passed.
   b. Motion to approve the election of Harry Laws as Treasurer made by

Purinton, seconded by Coffey. Motion passed.

c. Motion to approve election of Larry Kohn as Secretary made by Laws, seconded by Coffey. Motion passed.

5. **Approval of Minutes for the April 9, 2025, Board meeting**
   a. Motion to approve minutes made by Laws, seconded by Coffey. Motion passed. Kohn abstained.

6. **Payment of Bills**
   a. Reimbursement of Annual Meeting Expenses: Dee Andershock ($206.55), Jim Purinton ($560.85), AIR Technology Services ($655.20)
   b. Other: Image Mgmt. ($166.25)
   c. Motion to approve reimbursement of $1588.85 total made by Laws, seconded by Coffey. Motion passed.

7. **Amendment to Board Rules and Regulations ONLY IF Resolution to Expand the Board to seven Commissioners Passed at Annual Meeting**
   Purinton said that, since the resolution failed to pass, this agenda item is not relevant.

8. **Next Board Meeting:**
   a. Tentatively scheduled for Tuesday, September 16, 2025, at 6:30 p.m. at the Silver Lake Community Center, 113 S. First Street.
   b. Possible agenda items: 2025 Water Safety Patrols, Silver Lake Water Quality Study, Board Member Assignments (Invasive Species (Purinton), Lake Levels/Outlet Dam (Purinton), Water Patrols (Laws), Water Quality (Kohn) Annual Meeting (TBD).

9. **Adjournment:** Motion to adjourn made by Laws, seconded by Kohn. Motion passed. The meeting was adjourned at 12:14 p.m.

Respectfully submitted,

Larry Kohn, Secretary

EXHIBIT B

TREASURER'S REPORT

Attached:

- **Treasurer's Report**
- **2025 YTD/Expected Year-End Financials**

Requested Board Actions:

- **Approve payment of invoices**
- **Approve the Treasurer's Report**

TREASURER'S REPORT

16 September 2025

Activity Since 9 April 2025 Board Meeting

	Beginning Bal	$ 71,061.79		
Revenues				
	$1,716.28	Village	Final tax reconciliation	
	$1,716.28	**TOTAL**		
Expenses				
	$ 249.45	Dave Engles	Water Analysis	
	$ 299.13	Lake&Pond	DNR permit	
	$ 1,948.13	Lake&Pond	Lake Treatment	
	$ 206.55	AGM	Dee's expenses	
	$ 560.85	AGM	Jim's exenses	
	$ 655.20	Air Tech	Email storage archiving	
	$ 166.25	Image Mgmt	website programming	
	$ 245.00	Air Tech	Email changes	
	$ 4,330.56	**TOTAL**		
	Ending Bal	$ 68,447.51		

NOTE: CDs that came due this summer resulted in interest income of $868.07 that was rolled over into new CDs of $7500 plus interest. CD maturities/interest earned:

12-mo # 7806 $345.97 Matured June

6 mo # 7804 $294.79 Matured July

3 mo # 7802 $227.31 Matured August

Requested Board Discussions/Actions

Approve above $166.25 Image Management and $245.00 Air Tech invoices. [all others previously approved or authorized]

Review of Investment in Chase Bank Certificate of Deposits

- Board authorized two $30,000 investments ($60,000 total) in Chase CD "Ladders" with the idea that one CD would become due each month throughout the year in case of need.
- Due to bank error int the first wave of $30,000, the first investments were $7,500 in 3-month, $7,500 in 6-month, $7,500 in 9-month, and $7,500 in 12-month CDs.
- The short term CDs were changed to 12 month CDs and total interest of $868.07 rolled into renewed annual CDs.
- Second Authorization: $30,000 in same ladder program was previously approved with modification to 12-month CD's at last meeting. Investment process will be completed January 2026.
- Result will be $60,000 + interest in CD's with the maturity dates of Jul, Aug, Sep, Nov, Dec, Jan for a total of $60,000 invested.
- Estimated monthly income when all is invested is $265/mo or $3177/year

RECOMMENDATION: If/when balance in checkbook allows, consider purchasing additional 12-month CDs for Feb, Mar, Apr, May.

Anticipated Expenses 4Q 2025

Lake and Pond fall survey and report est $3600 (12/17/25 authorized max $6,000 for spring treatment and fall survey)

Post office box renewal budgeted $100

Kenosha County Sheriff payment (12/17/25 authorized max of $15,000)

Anticipated Expenses 1Q 2026 that may be considered at December meeting

Insurance $2600

Audit $700

Website Training $250

Website Annual Cost $700

Silver Lake Management District

2025 BUDGET / YEAR-TO-DATE

CASH BASIS

as of 9/16/2025

	2025 BUDGET	Actual Jan	Actual Feb-Mar	Actual Apr-May	Actual Jun-Aug	2025 YTD	Expected Rest of Yr	Expected 2025 Total	Budget v Expected	
CASH RECEIPTS										
Tax Levy	52,000	12,181	11,779		1,716	25,676	26,324	52,000	-	Note 1
Grants	-			2,951		2,951		2,951	2,951	Note 2
Donations	-					-				
Interest	-					-				
TOTAL RECEIPTS	**52,000**	**12,181**	**11,779**			**28,627**	**26,324**	**54,951**	2,951	
CASH EXPENSES										
HWM Treatment	25,000			2,247	1,948	4,195	6,000	10,195	14,805	Note 3
Water Safety Patrols	10,000					-	14,000	14,000	(4,000)	Note 4
Water Quality Studies				249		249	5,000	5,249	(5,249)	Note 5
Administration										
Website	1,000			821	245	1,066	500	1,566	(566)	
Insurance	2,600		2,025			2,025		2,025	575	
Legal	500					-	500	500	-	Note 6
Annual Meeting	700			767		767		767	(67)	
PO Box	100					-	85	85	15	
Banking	100					-	-	-	100	
Audit	700		391			391	-	391	309	
Contingency	1,300					-	-	-	1,300	
Reserve for Future Projects	10,000					-		-	10,000	
TOTAL CASH EXPENSES	**52,000**	**-**	**2,416**	**4,086**	**2,193**	**8,695**	**26,085**	**34,780**	**17,220**	
PROJECTED YR-END SURPLUS (DEFICIT)		12,181	9,363	(4,086)	(2,193)	19,932		**20,172**	**23,636**	
TOTAL CASH & INVESTMENTS										
Start of Year	**66,357**									
Projected End of Year								**86,529**		

Note 1: **Final disbursement coming in September**

Note 2: Unbudgeted WDNR reimbursement for 2024 Water Safety Patrols

Note 3: 2025 spring HWM treatment and fall 2025 lake survey max cost of $6,000

Note 4: 2025 water safety patrols contract not-to-exceed $14,000; **2024 actual was $5500**

Note 5: Estimated 2025 portion of proposed Silver Lake Water Quality Study; **probably less**

Note 6: **None expected at this time**

Silver Lake Management District

PROPOSED 2026 BUDGET

CASH BASIS

for the 5/24/2025 Annual Meeting

	2026 BUDGET		
CASH RECEIPTS			
Tax Levy	40,500	Note 1	
Grants	10,500	Note 2	10500
Donations	-		
Interest	-		
TOTAL RECEIPTS	**51,000**		
CASH EXPENSES			
HWM Treatment	15,000	Note 3	
Water Safety Patrols	14,000	Note 4	
Water Quality Studies	15,000	Note 5	
Administration			
Website	1,000		
Insurance	2,600		
Legal	500		
Annual Meeting	700		
PO Box	100		
Banking	100		
Audit	700		
Contingency	1,300		
Reserve for Future Projects	0		
TOTAL CASH EXPENSES	**51,000**		
CASH SURPLUS (DEFICIT)	**0**		
PROJECTED CASH & INVESTMENTS			
Start of Year	**92,592**		
End of Year	**92,592**		

Note 1: Tax levy reduced from $52,000 in 2023, 2024, & 2025
Note 2: Expected WDNR reimbursememnt for 2025 water safety patrols
Note 3: Budget for 2026 spring HWM treatment and fall survey
Note 4: Budget same as 2025 water safety patrols contract
Note 5: Expected 2026 cost of Silver Lake Water Quality Study

EXHIBIT C

2025 ANNUAL MEETING REVIEW AND FOLLOW-UP

Attachments:

- **Board Meeting Follow-Up - Chair Checklist**
- **SLMD Programs – Volunteers Contact List and Assignments**

Discussion:

- **Any Comments on 2025 Annual Meeting? Suggested Improvements?**
- **Check-In – Verified that one ineligible person signed up to vote. Want to prevent that from happening again.**
- **Reviewing list of Wisconsin registered voters residing in the lake district.**
- **2026 Board Member Election- Statutes require one Board Commissioner to be Wisconsin resident. Harry L will no longer be Wisconsin resident. Larry K -- permanent Wisconsin resident?**

Requested Board Actions: None at this time

Future Board Actions:

- **December Board Meeting: Determine 2026 Annual Meeting Date and Venue**
- **Spring 2026 Board Meeting: Approve 2026 Annual Meeting Agenda, Meeting Notice Materials, and 2027 Budget to be presented at Annual Meeting**

8/7/2025

SLMD 2025 ANNUAL MEETING/BD MTG FOLLOW-UP: WEBSITE CHECKLIST

Item	Status
Change Governance/Minutes: April 9 Minutes from pending to final	Done
Change Home/Announcements Box to *Sept Bd Mtg*	Done
Change Governance/Mtg Notice to *Sept Bd Mtg*	Done
Revise About/About the Mgmt Dist: Add *Larry Kohn, Secretary*	Done
Change Proposed 2026 Budget to *Approved 2026 Budget*	Done
Add *Appvd 2026 Budget* to Governance/Mtg Minutes	Done
Update Chmn Note in About/Message from Chairperson	Done
Add *Pending Annual Mtg Minutes* to Governance/Mtg Minutes	Done
Add P*ending 5-24 Bd Mtg Minutes* to Governance/Mtg Minutes	Done
Send MailChimp email re: *AM Mtg results*	Done

SLMD 2025 ANNUAL MEETING / BD MTG FOLLOW-UP: OTHER

Item	Status
AM Minutes: prepare, review. OK for posting	Done
AM Volunteers & Tasks: Prepare template for emailing to teams	Done
5-24-25 Bd Meeting Minutes: work w LK to prepare, review, OK for posting	Done
Chase Bank Acct: w HL, remove DA and add LK as signatory/Chmn Letter	Done
Chase CD's: HL to start monthly CD Purchase process in July (w/LK, JP)	Done
SLMD Email: Take off DA and add LK	Done
SLMD website: Training for LK (JB, anyone else?) for updates/additions	FALL
Invasive Species: Talk to Dave Zyer & Craig Halpert	Done
Invasive Species: Email w contacts and tasks for review	Done
WQ: DE inform SEWRPC that concept appvd and proposal disc/appvl at Sept Bd	Done
WQ: Email re: team contacts and tasks	Done
WQ: Talk to DE about WDNR applic process, WQ team, bidding/no-bid process	Done
WQ: Work with DE to prepare WDNR grant applic for submittal	Done
Lake Levels: Jeff Bell to start taking levels June 1.	Done
Lake Levels: Ask JB to chart monthly lake levels	Done
Lake Levels: Add Kurt Ullmann as volunteer	Done
Lake Levels: Meet with JB, KU re: dam investigation	Done
Water Patrols: Confirm DA will continue to lead, HL is Bd contact	Done
Water Patrols: Send Vol List & Tasks to HL, DA for review	Done
Distict Resident Voter List - Ask HL to pursue lead provided by R Gandt	Done
Stormy G lake level / dam info: find & return or apologize for losing if can't find	Done
Reserve the SL Community Center for Sept 16 Bd Mtg	Done

8/7/2025

SLMD 2025 ANNUAL MEETING FOLLOW-UP

SLMD PROGRAMS: BOARD & VOLUNTEERS CONTACT LIST, ASSIGNMENTS

INVASIVE SPECIES

	Name	Email	Phone
Board Member	Jim Purinton	[redacted]	
Volunteers	Dave Zyer		
	Craig Halpert		

Tasks
- Review 2025 fall survey & recommended 2026 treatment (December)
- Recommend December Board approval of 2026 treatment
- Follow other invasive species issues affecting Silver Lake
- 2026 Annual Meeting Invasive Species presentation

WATER SAFETY PATROLS

	Name	Email	Phone	
Board Member	Harry Laws	[redacted]		(copy Jim Purinton on corresp)
Volunteers	Dee Andershock			
	Jesse Siedman			
	Matt Beck			
	Byron Kozak			

Tasks
- Review summer 2025 Kenosha County Sheriff reports and public comments
- Present review of summer 2025 program at September Board meeting
- Recommend 2026 program for December Board meeting action
- Follow other boating safety /regulation issues (e.g., wave surfing, mooring buoys)
- Bring relevant issues to Board for discussion / action
- 2026 Annual Meeting Water Safety Patrols presentation

LAKE LEVELS / OUTLET DAM

	Name	Email	Phone
Board Member	Jim Purinton	[redacted]	
Volunteers	Jeff Bell		
	Kurt Ullmann		

Tasks
- Record monthly lake level measurements March-November
- Update the Lake Level Chart with new data
- Investigate questions concerning dam: WDNR, height, replacement, funding...
- Present/provide lake level & dam updates at Bd Mtgs
- 2026 Annual Meeting Lake Levels/ Dam presentation

WATER QUALITY

	Name	Email	Phone	
Board Member	Larry Kohn	[redacted]		(copy Jim Purinton on corresp)
Volunteers	Dave Engels			
	Corrine Kohn			
	Patrick Lenihan			
	P& J Maggio			

Tasks
- Prepare WDNR initial grant application during summer for submittal and Sept SLMD Board approval.
- Present SEWRPC study proposal for Sept SLMD Board approval.
- Prepare final WDNR grant applic for submittal by SLMD prior to Nov 15 deadline.
- WDNR grant award announcement Feb 2026.
- Work with SEWRPC on study in 2026 re: study set-up, field work, review of drafts, etc.
- 2026 Annual Meeting Water Quality Presentation: WDNR Grant & Study Status Report
- Present update /discuss next steps on SEWRPC study to Sept 2026 SLMD Bd Mtg
- Present/discuss SEWRPC study results / public review /next steps at SLMD Bd Mtg (Dec 2026?)
- 2027 Annual Meeting WQ Presentation -- Study Results / Next Steps

EXHIBIT D

2025 WATER SAFETY PATROLS

Review and Discussion of 2025 Water Safety Patrol Program.

Requested Board Actions: None

Future Board Actions:

- **December Board Meeting: Approve 2026 Water Safety Patrol Program and Contract Terms with Kenosha County Sheriff Dept.**

“Preliminary” Summer 2025 KCSD Summary Report

May

Date	Time of Day	Hours clocked	Citations	Warnings	Safety Compliance Check	Notes
24	8:00 - 12:00	8		0	0	
25	3:00 - 7:00	8	3	1	2	
Totals		*16 total	3 total	1 total	2 total	*16 hours patrol + 2 non-billable admin hours
						Patrol was also out on 26th (morning and afternoon) and 31st for additional almost 10 hours not listed on report.

June

Date	Time of Day	Hours clocked	Citations	Warnings	Safety Compliance Check	Notes
7	8:00 - 12:00	8	0	3		
8	2:00 - 4:30	5	1	3		Rained all day
14	10:00 - 2:00	8	0	0		
15	8:00 - 12:00	8	0	0		
21	10:00 - 2:00	8	0	0		
28	8:00 - 12:00	8	0	1		
29	10:00 - 2:00	8	1	2		Took boat out for repair
Totals		*53 total	2 total	9 total	17 total (no dates listed)	*53 patrol + 4 admin
						DNR out on 23rd

July

Date	Time of Day	Hours clocked	Citations	Warnings	Safety Compliance Check	Notes
4	10:00 - 2:00	8	2	2		
5	7:30 - 11:00	7	3	1		Saw the new boat at 2:00
12	8:00 -12:00 12:15 - 4:00	16	2	0		
26	2:00 - 6:00	8	0	0		
Totals		*39 total	7 total	3 total	12 total	*39 patrol + 3 exempt + 3 admin hours

108 hours thru July is approximately $8,220.96 ($76.12 per hour)

August

Date	Time of Day	Hours clocked	Citations	Warnings	Safety Compliance Check	Notes
2	5:30 - 8:00	7	0	0		
3	3:00 - 8:00	10	3	0		
9	1:30 - 6:30	10	0	0		
10	9:00 - 1:00	8	0	0		From here until end of Aug., black boat used more often
16	12:30 - 6:30	12	0	0		
17	9:00 - 1:00	8	1	1		
23	3:00 - 8:00	10	0	0		
24	12:00 - 9:00	18	1	1		
30	8:00 - 12:00	8	0	0		
		91 total hours	5 total	2 total	9 total	91 patrol + 4 admin hours
Total summer		199 hours total	17 total	15 total	40 total	

SLMD Water Patrol Committee
September 3, 2025
Meeting Notes

Committee members present: Dee Andershock, Matt Beck, Bryon Kozak, Jesse Siedman

1. Reviewed police reports through July
2. Discussed member observations of boater behavior
3. Our recommendations for 2026:
    a. Educate residents and visitors by reminding them of safety rules
        i. Staying 100’ from any other object
        ii. A certificate of boater safety for anyone after birthdate 01/1989
        iii. Going counter-clockwise and with traffic
    b. We would like to have an email sent out with these reminders to all SLMD members in April separate from the notice of May meeting
    c. Look into posting these reminders at launch locations on signage that gets attention.
    d. Keep the hours the same for next year as 2025.
4. B. Kozak will create a visual with the gentle reminders we can send and post. Perhaps even adding a QR code for the posted notices.
5. D. Andershock will ask Officer Waldrow for information on what the police see as most important to communicate. The reports just list “other” as the problems that cause tickets or warnings. We would like some more specific information.
6. Meeting ended with consensus that we need to keep reminding people of being safe while having fun.

EXHIBIT E

LAKE LEVELS / OUTLET DAM

Review and Discuss Updated Lake Levels Chart and Outlet Dam Report

Requested Board Actions: None

	2017	2021	2022	2023	2024	2025
March				7.90	7.58	7.10
April				7.92	8.16	7.52
May				7.62	7.68	7.80
June				7.48	7.95	7.60
July	9.5			7.14	7.80	7.48
Aug		6.5		7.00	7.84	7.38
Sept			6.82	6.80	7.50	7.15
Oct			7.06	6.78	7.40	
Nov			6.80	6.76	7.11	

VILLAGE NO WAKE: 8.23

HEIGHT OF DAM: ~7.60

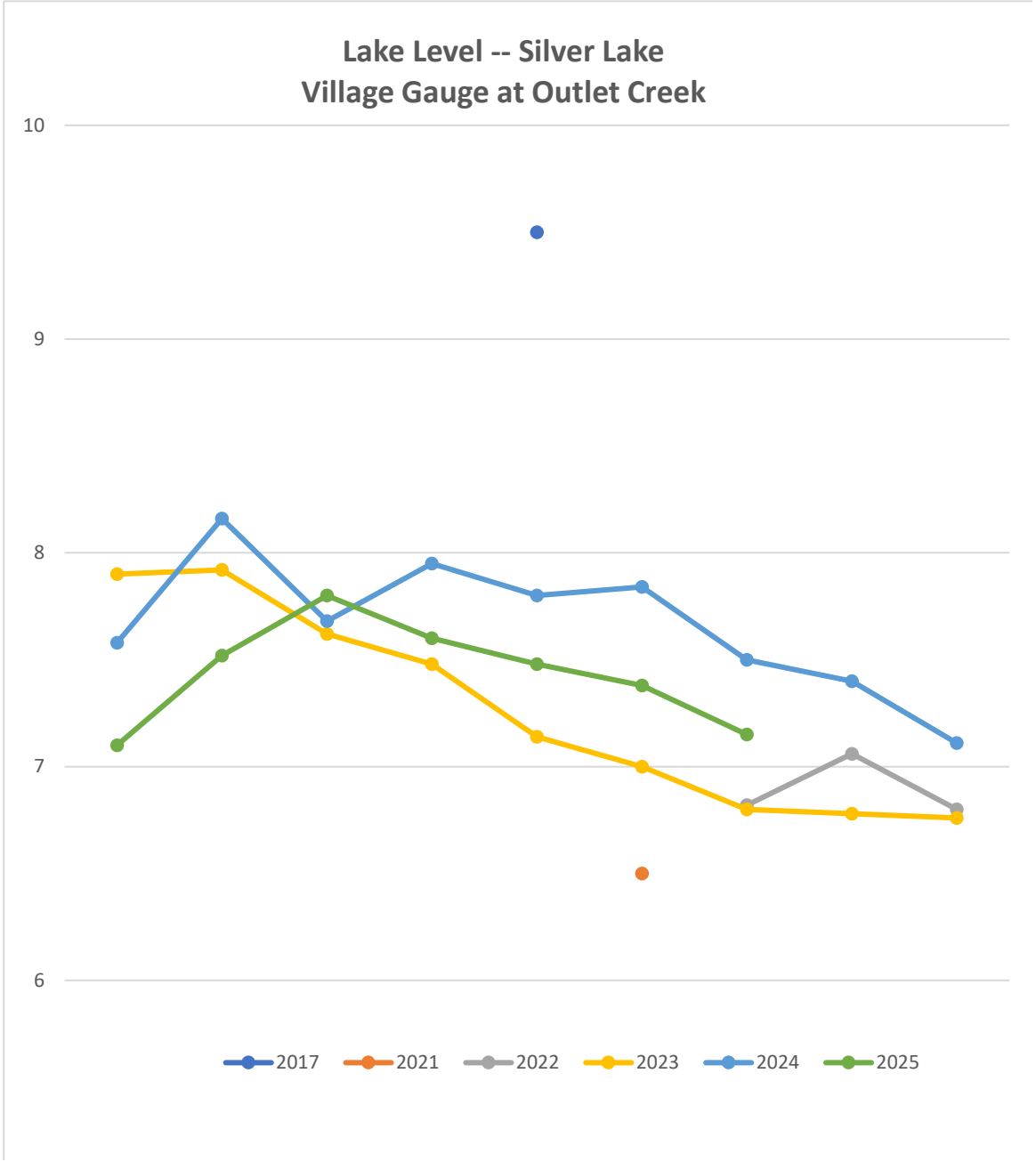

EXHIBIT F

WATER QUALITY

Intro: 2025 Annual Meeting Project Authorization

Annual Meeting vote authorized the expenditure of no more than $20,000 for a Silver Lake water quality study, subject to Board reviewing and approving SEWRPC proposal details, and applying for a WDNR grant to partially offset the cost.

Review Attached SEWRPC Silver Lake Water Quality Study Proposal

Requested Board Action: Approve proceeding with SEWRPC Study Proposal at a total cost not to exceed $20,000, subject to securing a grant from the WDNR to partially offset the cost.

Review the Attached Preliminary WDNR Grant Application

Requested Board Action: Approve the Submittal of a Final WDNR Grant Application by the November 15, 2025 deadline, authorizing Chair to work with SLMD Water Quality Group to revise and submit the final WDNR Grant Application.

Requested Board Action: Approve the attached Board Resolution to be included in the final WDNR Grant Application

SOUTHEASTERN WISCONSIN REGIONAL PLANNING COMMISSION
W239 N1812 ROCKWOOD DRIVE • PO BOX 1607 • WAUKESHA, WI 53187-1607• TELEPHONE (262) 547-6721
FAX (262) 547-1103

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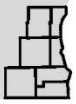

Preliminary Draft of Staff Memorandum

SCOPE OF WORK TO BE PERFORMED BY SEWRPC FOR A WATER QUALITY STUDY OF SILVER LAKE, KENOSHA COUNTY, WISCONSIN

May 16, 2024

As initially requested in an April 16, 2025, from the Silver Lake Management District (District), the Southeastern Wisconsin Regional Planning Commission (Commission) has prepared this scope of work examining a variety of management issues that the District believes are important to the continued health and vitality of Silver Lake (Lake) in Kenosha County. Commission staff worked with the District to develop a scope of work addressing shoreline, water quality, and pollutant loading conditions for the Lake. The District may elect to apply for a grant through the Wisconsin Department of Natural Resources (WDNR) Surface Water Grant program to help fund the proposed lake study.

BACKGROUND INFORMATION

Silver Lake ("Lake") is a 528-acre drainage lake located within the Village of Salem Lakes in Kenosha County. The Lake is impounded by a dam along its southwestern shore. Water leaving Silver Lake flows along an unnamed stream into the Fox River south of CTH F. The Lake attains a maximum depth of 44 feet with a mean depth of ten feet[1] The public can access the Lake through two boat launches off North Cogswell Drive on the west side of the Lake as well as a carry-in launch off of CTH F on the south side of the Lake. The Lake receives runoff from a 2,780-acre watershed; as of 2017, approximately 41 percent of the watershed was in agricultural uses while most of the remainder was in urban (19 percent), forest (18 percent), and wetland uses (12 percent)[2] Planned land use indicates that much of the remaining agricultural lands in the watershed are expected to be converted to residential areas in the coming decades.

The Commission sponsored the development of *Lake Use Report No. FX-11, Silver Lake, Kenosha County, Wisconsin* by the WDNR in 1968 and prepared the *Silver Lake Use Report Update LR-11* in 2017[3] These reports provide summaries of the lake and watershed conditions, including water quality, aquatic plants,

[1] *See https://apps.dnr.wi.gov/lakes/lakepages/LakeDetail.aspx?wbic=747900&page=facts*.
[2] *SEWRPC* Silver Lake Use Report Update LR-11, *October 2017*.
https://www.sewrpc.org/SEWRPCFiles/Publications/lkur/lr-11-lake-use-report-silver-lake-update.pdf
[3] *Ibid*.
[4] Wisconsin Department of Natural Resources, *Silver Lake Kenosha County, Wisconsin, Lake Use Report No. FX-11*, 1968. https://www.sewrpc.org/SEWRPCFiles/Publications/lkur/fx-11-silver-lake-kenosha-county-fox-river-watershed.pdf
[5] *SEWRPC, 2017,* op. cit.

shorelines, fisheries, and recreational use, but do not provide the detailed management recommendations of a lake management plan.

The District requested the assistance of the Commission in studying several factors on the Lake, including shoreline conditions, water quality concerns, pollutant sources and loads, and aquatic habitat enhancement projects. Techniques, budgets, schedules, and intended deliverables associated with completing this lake study are presented in the following sections. This memorandum serves as the foundation of a contractual working relationship between the District and the Commission. The District may work with the WDNR and the Commission to prepare a Wisconsin Administrative Code NR 193 *Surface Water Grant Program* application to fund a portion of the lake study.

PROPOSED SCOPE OF WORK

The proposed study is designed to provide the District with an array of technical information that helps improve its understanding of factors affecting the Lake's water quality, shorelines, and aquatic habitat. Commission staff will examine this information and will provide interpretations, context, suggestions, and concepts for management action. Furthermore, the Commission may include a few examples of where and how these management actions could be employed.

The major factors proposed to be examined as part of the study are listed below.

- Shoreline condition
- Septic and stormwater outflows
- Water quality and beach closures
- Aquatic habitat enhancement

It should be noted that while some tasks are best performed sequentially, we anticipate that work on several tasks will occur simultaneously. Some of these elements require active cooperation and participation by District volunteers as well as contributions from Kenosha County and WDNR staff. Highlights of each element are summarized below.

Septic and Stormwater Outflows
Activity: The District has requested the assistance of the Commission in evaluating potential sources of pollutants to Silver Lake, including storm sewer drainage and sewage disposal, and their impact on water quality. Nearly all households and other buildings immediately adjacent to Silver Lake are within the sanitary sewer district and thus likely have limited effect on water quality in the Lake. However, a few housing developments along the Lake currently use private onsite septic systems. When properly inspected and maintained, these systems are generally protective of surface-water quality, but septic systems do have set lifespans, and all systems fail over time. Kenosha County requires that septic systems be inspected every three years.

Stormwater runoff can be a major pollutant source to surface waters, particularly in watersheds with no point sources. Nearly all the Lake's watershed is within the Village of Salem Lakes, a Municipal Separate Storm Sewer System (MS4) community. Kenosha County, another MS4 community, permits and enforces proper operation of stormwater infrastructure within the watershed. The District has identified at least six stormwater outfalls contributing drainage to the Lake. Consequently, working with the Village, County, and WDNR would be essential for addressing any stormwater management elements within the comprehensive plan.

Method or Data Collected: The Commission will confirm the sewage disposal status of riparian parcels along the Lake. For those parcels identified as using septic systems, Commission staff would review Kenosha

County septic permit records (in cooperation with County staff) to estimate the number of potentially failing or otherwise unmaintained septic systems in the Silver Lake watershed.

Commission staff would review MS4 records from the Village of Salem Lakes and Kenosha County, discuss stormwater management planning with these entities, and provide an inventory of recorded stormwater infrastructure within the Lake's watershed and, as possible, quantify the ongoing maintenance and utility of these structures. To the extent possible, Commission staff would examine the drainages for each of the major stormwater outfalls contributing to the Lake to better understand the areas and potential pollutants from each of these outfalls.

Deliverables: The Commission will provide inventories of the sewage disposal records and storm drainage systems. This information would be used to inform a pollutant loading model for the Lake that will examine the pollutant sources as well as the relative and total amounts of pollutants they contribute to the Lake (see "Pollutant Loading Sources and Loads" below). These estimates would be compared with other non-point sources to provide context on pollutants and pollutant sources that are affecting the Lake's water quality.

Pollutant Loading Sources and Loads

Activity: The information gathered in previous tasks will be used to model the amount of sediment, nitrogen, and phosphorus reaching the Lake each year. The activities and geographical areas that contribute higher loads will be identified.

Commission staff will also compile information regarding potential chloride loading to the Lake, including road de-icing methods utilized by the Village and Kenosha County as well as other sources, such as agricultural fertilizers, private salting on parking lots, and contributions from septic systems.

Methods and Data Collected: Commission staff will use the sewage disposal and stormwater data along with watershed land use information to inform model (e.g., Pollutant Load Estimation Tool) that estimate sediments, nitrogen, and phosphorus loads to the Lake. Commission staff will use this information to identify land uses, watersheds, and areas contributing excessive nutrient or sediment loads to the Lake and its tributaries and that may be important to address as part of Lake management plans.

Deliverables: Commission staff will prepare maps and tables displaying pollutant loading loads, sources, and areas to the Lake. The Commission will also examine how different land management scenarios could mitigate pollutant loads.

Water Quality and Beach Closures

Activity: The District has expressed concern over recent beach closures, particularly around DeWitt and Silver Lake County Parks, due to high coliform counts. Several potential sources of coliform have been proposed, and this study would examine those sources as well as provide recommendations to mitigate them.

Method or Data Collected: Commission staff would assist the District in logistics to collect and analyze water quality samples to examine the sources and amounts of fecal coliform affecting park beaches. Water quality laboratories, such as the State Laboratory of Hygiene, can analyze samples for coliform amounts (e.g., most probable number) as well as conduct quantitative polymerase chain reaction (qPCR) on DNA or RNA biomarkers to help evaluate potential sources, e.g., human, bovine, and waterfowl.

Deliverable: The Commission would assist the District in designing and executing a study of the sources of coliform contamination, including identifying sampling locations, appropriate numbers of samples, potential laboratories for sample analysis, and interpretation of results. With these results, Commission staff would also recommend practices that would help reduce coliform contamination on the Lake.

Shoreline Condition and Aquatic Habitat

Activity: The District has requested the assistance of the Commission in inventorying the lake shoreline conditions as well as providing recommendations to enhance aquatic habitat in protected areas.

Method or Data Collected: Commission staff will complete an on-the-water shoreline condition inventory utilizing the standard WDNR protocol[6] With the assistance of a City volunteer, Commission staff will take notes and photographs of the shoreline and record locations of erosion, shoreline protection, and other features. The inventory will examine the type and quality of terrestrial and emergent vegetation present, the numbers and types of human structures in the nearshore and shoreline areas around the lake, the number of moored boats, the presence or absence of active erosion, the type and condition of artificial shoreline protection, the presence of buffer areas in the nearby uplands, and other features such as springs, coarse woody habitat, tributaries, and/or stormwater outfalls.

During the shoreline survey, Commission staff will examine protected areas of the lake and note aquatic organisms, and current habitat features in these areas. The Commission will also consult WDNR biologists on the lake's fishery status and goals.

Deliverable: The Commission will map shoreline conditions as well as recommend how to enhance shoreline and near-shore habitat and protect against erosion. Commission staff will also provide types and potential locations of aquatic habitat enhancement features, such as fish sticks and shoreline native plantings. The water quality study will discuss opportunities to fund shoreline restoration projects and installation of habitat enhancement features through the WDNR Surface Water Grant program, the WDNR Healthy Lakes & Rivers program, and other programs.

Publish Lake Study

Activity: Share general information, technical data, interpretations, and recommendations generated as part of the lake management planning process and provide recommendations. Prepare and publish a written Lake management plan.

Methods and Data Collected: The Commission will present resultant data, interpretations, management implications, and recommendations as part of a written comprehensive management plan at project conclusion. The Commission will suggest management concepts addressing past practices, current conditions, and impending threats. Commission staff may develop interactive tools to display inventory data and recommendations to encourage and facilitate use of the plan.

The Commission will generate a draft plan that will first be reviewed by the District. Comments and suggestions will be discussed with the Commission and a final draft will subsequently be submitted to the WDNR for review. After incorporating WDNR comments and edits, Commission staff may present report findings and recommendations at an event hosted by the District and could host the draft plan on the Commission website for at least 30 days to allow for public comments. Following the incorporation of public comments as feasible, a final plan will be published.

Deliverables: The plan will be readily available to the public through posting a digital copy for free download on various websites and by distributing a limited number (i.e., up to 10) printed copies. The District or its partners may host a public presentation where the Commission will present a summary of plan content and will answer questions. Commission staff will incorporate comments received during the presentation or via the website into the plan as feasible.

[6] *Hein et al.,* Lake Shoreland and Shallows Habitat Monitoring Field Protocol*, Wisconsin Department of Natural Resources EGAD # 3400-2020-19, July 2020.*

DELIVERABLES

A comprehensive report will be prepared that summarizes the data, conclusions, and recommendations generated as part of this study. The report will convey the key findings and recommendations in a format useful to the District, WDNR, and the average Lake user. The report will discuss methods used to complete project work; will present data using tables, figures, and maps; will interpret the meaning and implications of the data; will describe concepts to address critical management issues; and may suggest well-targeted additional study that helps resolve unanswered questions. The Commission will provide the District, WDNR, and the public with an opportunity to review and comment on the draft report and will incorporate mutually agreed revisions into the final report. This report will then be published on the Commission's website and digital and bound copies will be provided to interested parties[7]. If the District desires, Commission staff will also present the findings at a public meeting arranged by the District[8].

PROBABLE SCHEDULE

The Commission will initiate work on this project as soon as the District authorizes work to proceed. Based on previous discussion, Commission staff anticipate that the District would like to apply for a WDNR Surface Water Grant to partially fund this study. The Commission could help the District apply in fall 2025 with an anticipated grant award in early 2026. Any work elements funded by the grant cannot occur until the grant award is received. Given the field data collection effort in this scope of work, the project is anticipated to require one year to complete following the grant award. The results and findings will be shared with the District and the WDNR. The Commission will periodically update the District regarding new data and findings. The project report will need to be reviewed by the WDNR and the District, and time needs to be allowed for discussion, revision, and public comments. Draft copies of the report may be provided to the WDNR and the District as early as winter 2026. Assuming prompt review, the final report would normally be available for public distribution by early 2027.

PROPOSED PROJECT BUDGET

Category	Activity	Cash Outlays (Commission Services)	
		Labor (Hours)	Estimated Cost ($)
Septic and Stormwater Outflows	Use available records to estimate the number of failing septic systems. Model potential septic discharge to Lake. Summarize and map recorded stormwater infrastructure within the watershed. Provide recommendations on location and type stormwater management practices to enhance water quality.	32	$2,560
Pollutant Sources and Loads	Model pollutant sources and loads to Lake utilizing information gathered about septic systems, stormwater management, and watershed land use. Examine land use management scenarios that mitigate non-point source pollutant loading.	24	$1,920
Water Quality and Beach Closures	Assist the District with water quality sampling logistics and data interpretation to understand sources of coliform contamination.	16	$1,280

[7]The Commission will provide a digital copy of the final report to the District and WDNR. Additionally, the Commission will provide up to twenty print copies of the final report to the District and one bound copy to the WDNR. Draft versions of the report are typically provided digitally.

[8]The District would be responsible for informing interested parties of the public meeting, arranging meeting space, and hosting the meeting. Commission staff would use visual aids to convey the highlights of the report and answer salient questions. Such presentations commonly require a half hour and are followed by at least a half hour of questions or general discussion. The District should record the questions and input provided by meeting attendees for consideration in future management actions.

Shoreline Condition and Aquatic Habitat	Conduct a field inventory of the Lake's shorelines. Quantify the effect of nearshore areas on Lake water quality and habitat value.	20	$1,200
Communication and Study Publication	Attend select meetings, provide updates on plan progress, and give presentation on completed lake management plan. Prepare comprehensive report, develop management recommendations, and publish report.	120	$9,600
	Total	**212**	**$16,560**

The Commission can supply additional budget details as may be required for the grant application and/or District interest.

As noted in the scope section of this document, this budget assumes that the District will acquire and make available certain pieces of equipment (e.g., boats, incidental gear, water testing equipment), will provide volunteer labor, and will be responsible for contractor fees (e.g., analytical laboratories).

Following District review and acceptance of this scope of work, an agreement would be executed between the District and the Commission. Under that agreement, the District would be responsible for the entire $16,650 project cost. If a WDNR Surface Water Planning Grant were received, grant proceeds would cover a portion of the District's cost.

#277223 - SILVER LAKE 2025 WATER QUALITY STUDY
300-1000
JPP/TMS
04/28/2025, 5/16/2025

Surface Water Grant Application

State of Wisconsin
Department of Natural Resources
Bureau of Community Financial Assistance (CF/2)
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Notice: Use of this form is required by the Department of Natural Resources for any application filed pursuant to ch. NR 193, Wis. Adm. Code. Personal information collected on this form will be used for administrative purpose and may be provided to requesters to the extent required by Wisconsin's Public Records Laws [ss.19.31–19.39 Wis. Stats.] **To be considered, applications must either be submitted electronically or postmarked by November 15.** The preferred method of application submittal is via email to DNRSurfaceWaterGrants@wisconsin.gov using the **Submit by Email** button on this form.

Section 1: Ecosystem Type

Pre-application

This project primarily focuses on (select one):

(●) Lakes ( ) Rivers ( ) AIS

Section 2a: Application Type (select one)

Pre-application

Education and Planning Grants:

- ( ) **Surface Water Education**
- ( ) **Surface Water Planning**
- (●) **Comprehensive Planning for Lakes & Watersheds**
- ( ) **County Lake**

Aquatic Invasive Species (AIS) Grants

- ( ) **AIS Prevention**
- ( ) **AIS Population Management**
  - ( ) Large-scale ( ) Small-scale
- ( ) **AIS Early Detection & Response**

Surface Water Management Grants:

- ( ) **Surface Water Restoration**
- ( ) **Management Plan Implementation**
- ( ) **Ordinance Development**
- ( ) **Fee Simple Land Easement & Acquisition**
- ( ) **Wetland Restoration Incentive**

Note: For Clean Boats, Clean Waters Grants use Form 8700-337
Lake Monitoring and Protection Network use Form 8700-284L
Healthy Lakes and Rivers Grants use Form 8700-035
AIS Planning Grants use Form 8700-284P

Section 2b: Applicant Information

Pre-application

Project Title

Silver Lake - Surface Water Quality Management Plan (WQMP)

Applicant Name (Organization)		Organization Type		
Silver Lake Management District (SLMD)				
Organization Address–Where to Send Check		**City**	**State**	**ZIP Code**
P.O. Box 294		Silver Lake	WI	53170
Authorized Representative (AR) Name		**AR Title**		
James H, Purinton		Chariman		
AR Phone Number (include area code)	**Ext.**	**AR E-mail Address**		
(312) 315-5031		jim.purinton@silverlakemgmtdist.org		
Contact Representative (CR) Name (if different from AR)		**CR Title**		
CR Phone Number (include area code)	**Ext.**	**CR E-mail Address**		

Has your organization been approved as an eligible applicant within the past 10 years?

(●) Not applicable. *(eg., Counties, Local Units of Government, Lake Districts, Town Sanitary Districts, Tribes, or Accredited Universities.)*

( ) No. *Submit Form 8700-380 and required supporting documentation to your Environmental Grant Specialist 6 months prior to the grant application deadline. Your organization must be deemed eligible prior to the grant application deadline.*

( ) Yes.

Please refer to the application instructions to ensure you are completing the application correctly.

Surface Water Grant Application

Section 3: Project Information

Pre-application

Project Location

Proposed Start Date		Proposed End Date	
March 15 (Start Date)	2026 (Year)	December 31 (End Date)	2027 (Year)

Waterbody Name(s)	Waterbody ID(s) Look it up here! (WBIC)	Lake Acreage (if applicable)	Is there public access?	No. of Public Access Sites Incl. Boat Launches & walk-ins	No. of Public Vehicle-Trailer Parking Spaces Available at Public Access Sites
Silver Lake	747900	528.00	(•) Yes ( ) No	3	25

- [ ] Project to be implemented on state land
- [ ] Project to be implemented on land not owned by the applicant
- [ ] Regional project serving multiple waterbodies

County(ies)

Kenosha

State Senate District No.(s)	State Assembly District No.(s)
21	61

Management Plan(s)

Name of Plan	Publication Year
None	

Laboratory Analysis

Does this project include laboratory sample analysis? (•) Yes ( ) No

If yes, then complete Form 8700-360 and indicate the lab service provider:

(•) State Lab of Hygiene

( ) Other:

Permitting

Are state, local and/or federal permits required for this project? ( ) Yes (•) No ( ) Unknown

Permit Name	Agency	Status (i.e., to be submitted, submitted, approved)	Agency Contact

Pre-application Meeting

Wisconsin DNR Staff Name(s)	Date
Heidi Bunk	
Craig Helker	

Section 4: External Financial Support

List organizations (e.g., school, town, county, nonprofit organization, etc.) other than the applicant and their subcontractors that are providing financial support in the project. Identify the type of financial support (cash, volunteer hours, equipment, etc) and attach a copy of the organizations letter of financial commitment. Do not list Wisconsin Department of Natural Resources funds or resources.

Organization Name	Type of Support	Amount of Support
Silver Lake Protection Association	Financial Support	

Please refer to the application instructions to ensure you are completing the application correctly.

Surface Water Grant Application

Section 5. Project Budget

Pre-application

Part A. Provide a detailed budget of eligible costs including all wages, services, supplies and equipment necessary to accomplish the project. List each item, the activities it is related to in Section 8 of the application, the budget category it best fits, number of units (e.g. hours, plants, square feet, days, miles) and unit cost. Note whether the item is related to administration of the project. See guidance for more information.

	Item Description	Activity in Section 8 (ex. 1.a.)	Budget Category	Cash or Donation/ Match	Unit	# of Units	Unit Cost	Subtotal	Admin. Cost?
1.	Septic and Stormwater Outflows	1.a1 - a3	Consultants/Contractual	cash	ea	1	$ 2,560.00	$ 2,560.00	☐
2.	Pollutant Loading - Sources & Loads	2.a1 - a3	Consultants/Contractual	cash	ea	1	$ 1,920.00	$ 1,920.00	☐
3.	Water Quality & Beach Closures	3.a1 - a3	Consultants/Contractual	cash	ea	1	$ 1,280.00	$ 1,280.00	☐
4.	Shoreline Conditions & Aquatic Habitat	4.a1 - a2	Consultants/Contractual	cash	ea	1	$ 1,200.00	$ 1,200.00	☐
5.	Communication & Study Publication	5.a1 - a3	Consultants/Contractual	cash	ea	1	$ 9,600.00	$ 9,600.00	☐
6.	Laboratory Tests and Analysis	6.a1	Supplies & Operating Expenses	cash	ea	1	$ 3,440.00	$ 3,440.00	☐
1.							$	$	☐
							Subtotal	$ 20,000.00	
							Total Project Cost Estimate	$ 20,000.00	
	State Share Requested cannot exceed Cash Cost Subtotal						Eligible State Share	$ **13,400.00**	
							Grant Award Request	$ 13,400.00	

Part B – Cost Estimate Summary. Summary of all costs from Part A.

Cost Category	A. Cash Costs	B. Donated Value
1. Personnel	$	$
2. Employee Benefits	$	$
3. Travel	$	$
4. Equipment	$	$
5. Supplies/Operating Expenses	$ 3,440.00	$
6. Consultant/Contractual	$ 16,560.00	$
7. Construction	$	$
8. Other (ex. Acquisition)	$	$
Subtotals	$ 20,000.00	$
Total Project Cost Estimate	$ **20,000.00**	
Grant Award Request	$ **13,400.00**	
Grantee Share	$ **6,600.00**	**Grantee Share Percent:** 33%

Please refer to the application instructions to ensure you are completing the application correctly.

Part C – Cost Containment and Professional Service Agreements.

☒ I acknowledge that a professional service agreement is required if the grantee subcontracts or hires an agent to undertake any portion of this project requiring more than $5000 of grant funding prior to the commencement of any contracted work. (Does not apply to counties, cities, towns, villages or Wisconsin tribes).

☒ I acknowledge that cost containment measures must be implemented per NR 193.08 for all capital assets and any supply, service or equipment item purchased by the grantee if the cost exceeds $2,500.

Budget Items > $2,500	Cost-Containment Methods	Description of Method
Septic and Stormwater Outflow study	Flat Rate	SEWRPC contract with some volunteer services
Communication and Study Publication	Flat Rate	SEWRPC contract with some volunteer services
Laboratory Tests and Analysis	Flat Rate	Using State designated "State Lab of Hygiene"

Please refer to the application instructions to ensure you are completing the application correctly.

Section 6: Attachments (check all that are included)

- ☐ Authorizing resolution (required).
- ☐ Documentation of external financial support and/or letters of support.
- ☒ Map of project location, public access, public land and other use and access features (required).
- ☐ Surface Water Grant Project Lab Costs, Form 8700-360 (required).

Section 7: Certification

Signature: James H, Purinton

Date Signed

Please refer to the application instructions to ensure you are completing the application correctly.

Section 8: Project Description

Pre-application

A. Brief Project Summary (1000-characters, with spaces maximum)

Enter text below using the following sentence structure: *The [applicant] is sponsoring a project to conduct AIS Planning activities on [waterbody]. Activities and deliverables include 1) [Concise description of activity and deliverable(s)], 2) [Concise description of activity and deliverable(s)], 3) [Concise description of activity and deliverable(s)], ...*

Note, this text will be used as a standalone scope statement in program and promotional materials, the SWIMS database, and on DNR Lakes webpages if the grant is awarded.

Silver Lake (528-acre drainage lake in Kenosha County) and its 2,780-acre watershed face storm-driven nutrient, sediment, bacteria, and chloride pulses that cause episodic beach advisories and stress near-shore habitat. The SLMD, with SEWRPC and local Municipal Separate Storm Sewer System (MS4) partners, will complete a one-season planning study to quantify sources and prioritize fixes. 2026 tasks include: map and screen all stormwater outfalls and verify riparian wastewater service; lake/tributary/beach monitoring under a WDNR-approved Quality Assurance Project Plan (QAPP); watershed loading estimates and scenario testing; and a shoreline and aquatic-habitat inventory. The WQMP report is to be completed by Dec. 2026 followed by agency and public review process. WDNR and SLMD report approval in spring 2027 and presentation to 2027 SLMD annual meeting.

B. Project Area and Public Access/Use

Describe where the project is located, including information on the waterbody or community served. For projects addressing waterbodies or watersheds, include physical characteristics like size, depth, hydrological type and land use. Describe public use and access features.

Silver Lake is a 528-acre drainage lake within the Village of Salem Lakes, Kenosha County. It receives most water from surface runoff and discharges via a small dam at the south end to the Fox River, with additional input from groundwater and small tributaries that drain wetlands north of the lake. The contributing watershed is about 2,780 acres-modest for a lake this size-and lies primarily to the north and northeast. Land use remains a mix of residential, agriculture, wetlands and woodlands; forecasts indicate continued conversion of cropland to urban uses. Primary environmental corridors occur near the lake, including the 100-acre Silver Wetlands tract on the north shore. Silver Lake supports sensitive fish and wildlife; WDNR/SEWRPC identify Pugnose shiner (threatened) and several special-concern species.

Public Access & Use: The lake has robust public access. Two public boat launches serve the lake-one on the northwestern shore managed by the Village and one on the north shore managed by WDNR. A private marina on the south shore also operates a public launch. In addition, DNR and County ownership along much of the north shore provides continuous walk-in access. DeWitt Park on the west shore provides a designated public beach; Kenosha County park lands on the north shore offer shore fishing and wildlife viewing. Recreation is diverse and year-round: summer activities include high-speed cruising, a large and very popular public beech, water-skiing/tubing, angling, canoeing/kayaking and swimming; winter use features ice fishing and, when conditions allow, snowmobiling. Given the lake's proximity to southeastern Wisconsin and northern Illinois population centers, demand for boating and fishing is consistently high, underscoring the need to manage water quality, protect shoreline buffers, and maintain safe, equitable access for residents and visitors.

C. Problem Statement

Provide a clear and concise description of the problem that this project will address. What is the purpose of the project?

Silver Lake's beneficial uses-swimming, boating, and a valued fishery-are threatened by storm-driven pollutant pulses and shoreline stress. Episodic beach advisories at DeWitt Park and Silver Lake County Park point to bacteria loading that varies with rainfall, runoff pathways, and near-shore conditions. Observed increases in specific conductance and chloride in regional lakes, coupled with winter maintenance practices and roadway density in the local MS4s, suggest a growing salinity risk to aquatic life. Development pressure around remaining riparian parcels continues to replace vegetated buffers with turf and hardened shorelines, amplifying wave-driven erosion and reducing habitat complexity. Within the watershed, conversion of agricultural lands to residential neighborhoods will increase impervious cover and alter drainage patterns unless retrofits and infiltration are planned. At the same time, the Village map has 2 major stormwater outfalls and 11 subbasins for Silver Lake that convey untreated runoff to the lake; the relative contributions of these sources versus diffuse shoreline inputs remain unquantified. Historic monitoring and the 2017 use report provide valuable context, but data are dispersed, and no lake management plan sets numeric load reduction targets, implementation priorities, or a shared beach-risk protocol. Critical gaps include: (1) a full inventory and screening of outfalls tied to sub-basin source areas; (2) calibrated watershed loading estimates with cost-effective reduction scenarios; (3) an updated shoreline and near-shore habitat inventory with grant-ready concept designs; and (4) a communications framework that translates findings into timely advisories and community actions. This project addresses those gaps in a single field season, producing an NR 193-compliant plan (early 2027) with open data, prioritized projects, and a five-year implementation roadmap aligned with Village and County programs and feasible funding sources.

D. Phased Projects:

Is this project being completed in Phases? ○ Yes ◉ No

E. Project Description and Timeline

Please refer to the application instructions to ensure you are completing the application correctly.

1. Goals and Objectives

Septic Systems & Stormwater Outfalls -- Goal: By Nov 30, 2026, locate and assess 100% of stormwater outfalls discharging to Silver Lake/tributaries and verify 100% of riparian parcel wastewater service to identify illicit discharges and high risk sources; develop a prioritized corrective action list for ≥5 sites with concept costs and expected load/pathogen reductions.

1.a. Activity
Riparian Wastewater Status & Risk Screening

Method and Data Collected

Compile parcel/sanitary utility records for all riparian parcels; verify service (public sewer vs. onsite) and inspection cadence; map parcels within 300 ft of shore and near tributaries; apply a desktop risk screen (age, proximity to water, soils/groundwater).

Deliverable and Outcomes

Deliverables: GIS layer and table of all riparian parcels (100%) with wastewater status; risk screen memo; list of parcels recommended for inspection or maintenance.
Outcomes: Prepare the wastewater status map and a list of all parcels with recommended actions.

1.b. Activity
Outfall Inventory, Dry Weather Screening & Wet Weather Sampling

Method and Data Collected

Field locate and GPS all mapped outfalls (at least six (6) identified by the District); dry weather screening once per outfall (presence of flow, ammonia, surfactants, conductivity, temperature); sample priority outfalls (≥4) during ≥2 qualifying storms (≥0.25 in/24 hr) for E. coli, TP, TSS, chloride.

Deliverable and Outcomes

Deliverables: Geodatabase with points/photos/attributes; screening dataset; lab results; hotspot map.
Outcomes: Complete mapping and dry weather screening for 100% of outfalls; and complete storm sampling at ≥2 events for each priority outfall with recommended priorities ans sequencing.

1.c. Activity
Corrective Action Concepts & Costing

Method and Data Collected

For ≥5 highest priority sites, develop best managment practices (BMP) concepts (e.g., biofilters/rain gardens, infiltration retrofits, separators, shoreline buffers) with planning level costs and modeled reductions (Total Potassium(TP)/Total Suspended Solids(TSS)/pathogens/chloride as applicable).

Deliverable and Outcomes

Deliverables: Prioritized project list with concept sketches, costs, feasibility/readiness, permitting notes.
Outcomes: Prepare a grant ready pipeline including ≥5 concept sheets; and include final selection and sequencing in the adopted plan with recommended priorities and sequencing.

2. Goals and Objectives

Pollutant Loading - Sources & Loads -- Goal: Quantify annual and growing season loads (TP, TSS, nitrogen; chloride screening) by subbasin and land use, and set numeric 5 year reduction targets and a cost effective action bundle to achieve them.

2.a. Activity
Watershed Delineation & Land Use Update

Method and Data Collected

Geographic Information Systems(GIS) delineation of subbasins; update current land use/cover, soils/ Hydrologic Soil Group(HSG), imperviousness.

Deliverable and Outcomes

Deliverables: GIS datasets and maps; methods memo.
Outcomes: Prepare subbasin and land use maps for the entire 2,780 acre watershed.

2.b. Activity
Loading Estimates & Mass Balance

Method and Data Collected

Apply screening models consistent with WDNR/SEWRPC practice (e.g., export coefficient or Pollutant Load Estimation Tool; WiLMS for lake mass balance; Simple Method/WinSLAMM for urban catchments). Use rainfall, runoff coefficients, land use, soils; calibrate to observed lake Secchi/TP/ Chlorophyll a where feasible.

Deliverable and Outcomes

Deliverables: Tables of annual and seasonal loads by subbasin and sector (urban/residential, streets, agriculture/open, shoreline); chloride load screening from winter maintenance and other sources.
Outcomes: Produce baseline loads and identify the top 20% sub-basins that contribute ≥50% of TP/TSS loads.

2.c. Activity
Scenario Testing & Prioritization

Method and Data Collected

Model ≥3 action bundles (urban retrofits, shoreline buffers/Course Woody Habitat(CWH), nutrient management/cover crops, increased sweeping, winter salt optimizations) and estimate cost per pound removed.

Deliverable and Outcomes

Deliverables: Prioritization matrix (benefit, cost, feasibility, co benefits); maps of priority sites.
Outcomes: Set 5 year targets (e.g., 10–20% TP and 15–25% TSS reduction from 2026 baseline in top priority subbasins) and prepare a sequenced action list with responsible parties.

3. Goals and Objectives

Water Quality & Beach Closures -- Goal: Generate a defensible 2026 monitoring dataset and a risk based beach management framework so the WQMP includes advisory triggers and practices predicted to reduce advisory days in 2027 by ≥10% versus the 2024-2025 average (contingent on implementing priority actions and communications).

3.a. Activity
Monitoring Plan & Field Sampling (May–Oct 2026)

Method and Data Collected

WDNR approved Quality Assurance Project Plan(QAPP); monthly profiles at deep hole (temp/DO, pH, conductivity), Secchi, TP, TN, chlorophyll a; chloride/alkalinity ≥2× per season; weekly E. coli at DeWitt and Silver Lake County Park beaches Memorial Day–Labor Day, plus ≥2 storm event E. coli samples per beach/outfall; necessary qPCR source ID ≥1 sample per beach in peak season during high-level spikes due to normal weekly testing done by Kenosha County.

Deliverable and Outcomes

Deliverables: Station map; QAPP; field/lab results; photo log.
Outcomes: Submit all datasets to WDNR SWIMS and include a 2026 seasonal summary.

3.b. Activity
Trends & Beach Risk Analysis

Method and Data Collected

Time series/percentile analysis; correlations with rainfall and antecedent dry days; regression/threshold analysis for E. coli triggers; comparison to WisCALM (Wisconsin Consolidated Assessment and Listing Plan) and historical context.

Deliverable and Outcomes

Deliverables: Technical memo with graphics for public use; identify from a list of likely sources/triggers and targeted fixes (e.g., pet waste stations, outfall retrofits, buffers).
Outcomes: Identify risk thresholds (e.g., rainfall, wind, waterfowl presence) and recommended advisory protocol and signage.

3.c. Activity
Management Recommendations

Method and Data Collected

Integrate sources/loads with beach risk; identify near term measures and monitoring to verify benefits.

Deliverable and Outcomes

Deliverables: Action list with lead entity, schedule, monitoring metric and estimated costs.
Outcomes: Identify a beach management framework and tracking dashboard for the 2027 season.

4. Goals and Objectives

Shoreline Conditions & Aquatic Habitat -- Goal: complete a shoreline condition inventory for 100% of the perimeter using WDNR protocol; identify ≥5restoration reaches and ≥3 feasible aquatic habitat enhancements (e.g., CWH/Fish Sticks), with concept designs and costs for grant ready implementation.

4.a. Activity
Shoreline Condition Survey

Method and Data Collected

Boat based survey per WDNR protocol with GPS/photo points noting erosion, protection type, buffer width, imperviousness, structures, springs/tributaries/outfalls.

Deliverable and Outcomes

Deliverables: Shoreline condition map and database; ranked list of priority restoration reaches with concept treatments.
Outcomes: Prepare the map/database; and deliver concept sheets with costs.

4.b. Activity
Aquatic Habitat Inventory

Method and Data Collected

Map coarse woody habitat (CWH), substrate types, and potential spawning areas in protected reaches; consult WDNR fisheries staff.

Deliverable and Outcomes

Deliverables: Habitat inventory map; feasibility notes and layouts for ≥3 CWH placements/ enhancements.
Outcomes: Prepare concept designs and siting, with permitting/ownership notes and candidate funding programs (e.g., Healthy Lakes & Rivers).

5. Goals and Objectives

Communications & WQMP Publication -- Goal: Engage residents and partners and publish an accessible plan that meets NR 193 standards. Identify a plan and provide open data/maps to the public.

5.a. Activity
Engagement & Meetings

Method and Data Collected

Host 3 public meetings (kickoff May 2026, mid project Sept. 2026, draft plan Q1, 2027) which coincide with SLMD Annual/Board Meetings; convene advisory check-ins quarterly; maintain comment log.

Deliverable and Outcomes

Deliverables: Agendas, slide decks, attendance summaries; comment/response log.
Outcomes: Reach ≥200 stakeholders via email/web and ≥75 total meeting attendees across events.

5.b. Activity
Web & Print Communications

Method and Data Collected

Project webpage on SLMD site; quarterly one page updates; FAQs; optional interactive web map/ dashboard (ArcGIS Online) showing monitoring and candidate projects.

Deliverable and Outcomes

Deliverables: Live webpage; 4 one pagers; dashboard link; graphics.
Outcomes: Post the first update and maintain quarterly cadence.

5.c. Activity
Prepare a WQMP Study

Method and Data Collected

Compile a comprehensive management plan with executive summary, baseline conditions, sources/loads, monitoring results, prioritized projects with costs/timelines, and an implementation matrix; 30 day public comment period hosted on Commission website; incorporate WDNR/District comments.

Deliverable and Outcomes

Deliverables: Digital plan (free download) plus ≤20 printed copies; SWIMS confirmation; GIS package (FGDB/GeoPackage); public presentation.
Outcomes: Draft to WDNR/SLMD by Dec 2026; launch the agency and public review process Q1 2027 with late spring adoption.

F. Appropriateness and Need

Provide reasoning for why the project is appropriate and necessary. Include information on how the project was scaled and scoped to effectively address the management challenge. Make a case for why the work is unique and how the project is connected to and/or complements other management and/or planning efforts (e.g., County Land & Water Plans, 9 Key Element plans, TMDL implementation plans, protection plans, etc.).

Why this project, why now? Silver Lake/watershed experiences storm driven pollutant pulses, episodic beach advisories, shoreline stress, and emerging chloride concerns. Existing information (historic monitoring, 2017 use report, and local observations) is not yet integrated into a grant ready implementation roadmap. The proposed planning effort is appropriate because it: (1) focuses on pollutant pathways most likely to affect recreation and habitat (stormwater outfalls, near shore bacteria dynamics, shoreline condition), (2) uses WDNR accepted tools and protocols to produce defensible loads, targets, and projects, and (3) directly aligns with NR 193 planning outcomes (adopted plan, open data, prioritized projects).
The scope is scaled to one field season and a finite set of decisions: map/screen 100% of outfalls, verify riparian wastewater service, produce baseline loads and top contributor subbasins, complete a shoreline/habitat inventory, and deliver concept level designs/costs for a first tranche of projects (≥5 water quality BMPs; ≥3 habitat projects). Modeling emphasizes actionable screening (WiLMS/SLAMM/simple export) sufficient for prioritization.
The project integrates beach risk analytics (linking rainfall/antecedent conditions to advisories) with classic sources and loads and shoreline/habitat assessments-yielding a single implementation pipeline that serves public health,

recreation, and habitat goals. Results will be published with open data/GIS and a concise one page summary.
The plan is designed to:
* Complement the County Land & Water Resource Management Plan (runoff/shoreland priorities and citizen engagement).
* Support municipal MS4 goals for Village of Salem Lakes and Kenosha County (illicit discharge screening, chloride awareness, and retrofit concepts).
* Align with SEWRPC regional water quality management planning and lake/stream inventories.
* Be compatible with future or existing 9 Key Element or TMDL implementation frameworks

G. Connection to Implementation

Detail commitment and capacity to implement. Include description of how critical implementation partners will support efforts. Discuss projected costs, timelines, and technical needs prior to implementation.

SLMD will work with the Village of Salem Lakes (MS4) and Kenosha County(Parks/MS4), SEWRPC, WDNR and private groups /individuals to prepare WQMP and to assist with the WQMP recommendations.
Near term implementation pathway (post adoption).
* 0-3 months post adoption: Propose 2-3 highest ranked BMP/habitat concepts; initiate site access discussions; prepare possible implementation grant preps (e.g., NR 193 design/implementation, Healthy Lakes & Rivers, county cost share).
* 3-12 months: Complete survey/soil infiltration testing as needed; advance design & permitting (NRCS/ATCP 50 standards where applicable); finalize maintenance agreements; secure match commitments.
* 12-24 months: Construct at least one retrofit/habitat project; launch monitoring to verify performance.

Projected costs & prerequisites. Concept sheets will provide planning level cost ranges and expected load/pathogen reductions for each site. Pre-implementation needs include: site control/permissions, topographic survey, utility locates, soil borings/infiltration tests (where infiltration is proposed), and regulatory review (WDNR waterway/ erosion control, county shoreland zoning, MS4 permits). Typical design/permitting takes 6-12 months, with construction feasible in a single dry season once permits and easements are in hand.
Technical needs to include: hydrologic sizing for small catchment retrofits, IDDE follow up at suspect outfalls, chloride source assessment at key subbasins, and habitat siting consistent with fisheries guidance. Where modeling indicates concentrated benefits, the District will pursue bundled actions (coordinate street sweeping/infiltration retrofits with shoreline buffer restorations) to maximize cost effectiveness.

H. External Support

Describe collaboration with other organizations that will be providing financial or other support along with the expected benefits of collaboration. Document support with letters and submit with this application. Be sure to highlight support from partners that are critical to implementation.

The SLMD will first start with securing a donation from the SLPA. Then SLMD and contractor SEWRPC will seek the support and participation of relevant state and local authorities in the preparation and implementation of the WQMP, including the following: :
* Village of Salem Lakes (MS4): access to outfalls and support for screening/retrofit evaluation; coordination on possible ordinance and operations and maintenance commitments.
* Kenosha County (Parks/MS4): beach operations data and participation in beach risk protocol; possible coordination on shoreline restoration opportunities at public frontage.
* SEWRPC: technical execution and publication/hosting of draft/final materials.
* WDNR (Lakes/Fisheries/Stormwater): technical input, QAPP review, and guidance on habitat placements and permits.
* SLMD will also work with lakefront property owners, lake users, citizen groups in the preparation, review and implementation of the WQMP
Benefits of collaboration. These partners provide key data (sanitary records, MS4 maps, beach logs), technical review, implementation authority (permits/ordinances), and maintenance capacity-directly increasing the likelihood of timely construction and sustained performance.

I. Other

The preparation of the WQMP represents a second multi-year study undertaken by the Silver Lake Management District in its mission to maintain the significant environmental and recreational resources of Silver Lake. The WQMP will provide a focused, data-driven analysis of Silver Lake's major surface water quality issues and will identify suggested solutions and implementation strategies to address the problems to both prevent further degradation and improve the water quality in Silver Lake.

In 2022, at its first Annual Meeting, the SLMD electors authorized the preparation of and updated Aquatic Plant Management Plan (APMP), the cost of which was supported by a WDNR surface water grant and a donation from the

Silver Lake Protection Association. The APMP was approved by the WDNR and the SLMD in early 2024 and serves as the basis for the district's management of invasive species, particularly hybrid water milfoil for the near-term future.

The SLMD was formed in 2021 as a successor to the Silver Lake Protection Association to provide consistent funding and continuity of leadership to address and treat the lake's invasive species, particularly hybrid water milfoil. Since its formation, SLMD has taken on additional efforts including sponsoring water safety patrols, lake level measurements and outlet dam studies, and water quality baseline studies designed to enhance the lake's resources and safe recreational pursuits.

AUTHORIZING RESOLUTION
WDNR SURFACE WATER GRANT APPLICATION
SILVER LAKE MANAGEMENT DISTRICT

WHEREAS, the *Silver Lake Management District* ("Applicant") is interested in obtaining a cost-share grant from the Wisconsin Department of Natural Resources for the purpose of investigating various issues affecting the water quality of Silver Lake (as described in the application).

WHEREAS, the applicant attests to the validity and veracity of the statements and representations contained in the grant application;

WHEREAS, a grant agreement is requested to carry out the project; and

NOW, THEREFORE, BE IT RESOLVED, that the *Silver Lake Management District* will meet the financial obligations necessary to fully and satisfactorily complete the project and hereby authorizes and empowers the following officials or employees to submit the following documents to the Wisconsin Department of Natural Resources for financial assistance that may be available:

Task	Title of Authorized Representative	Email address and Phone Number if alternative is used
Sign and submit a grant application	Chairman	
Enter into a grant agreement with the DNR	Chairman	
Submit quarterly and/or final reports to the DNR to satisfy the grant agreement, as appropriate	Chairman	
Submit reimbursement request(s) to the DNR no later than the date specified in the grant agreement	Chairman	
Sign and submit Admin Forms, etc.	Chairman	

BE IT FURTHER RESOLVED that Applicant will comply with all local, state and federal rules, regulations and ordinances relating to this project and the cost-share agreement.

Adopted on 19th day of September 2025.

I hereby certify that the foregoing resolution was duly adopted by the Board of Commissioners of the Silver Lake Management District at a legal meeting held on September 19, 2025.

Lawrence F Kohn **Board Secretary**	**Date Certified ⇧**