

Chair:

Aisha Elmquist (2023)

Secretary:

Renee Marino (2023)

Board Members:

Linda Hansohn (2023)

Tony Peleska (2023)

Kathy Johnson (2024)

Susan Johnson (2025)

Gary Gerding (2025)

Staff Liaison:

David Swearingen



**Karth Lake Improvement
District Board
REGULAR MEETING**

**Tuesday
January 10, 2023**

1245 W. Highway 96
Arden Hills, MN 55112
651.792.7800
www.cityofardenhills.org

Agenda

Board Meeting Convenes at 6:30 PM

The public may access this meeting remotely by joining via Zoom
To join the Zoom Meeting, click this link (or copy and paste it into a new browser):
<https://us02web.zoom.us/j/84571653854>

1. CALL TO ORDER/ROLL CALL

2. APPROVAL OF THE AGENDA

3. APPROVAL OF MINUTES of the previous meeting October 11, 2022

4. PUBLIC INQUIRIES

5. OLD BUSINESS

5.1 Karth Lake water level modeling and management process progress report. Renee Marino

5.1.1 Background: Renee Marino's Hypothesis: a revision to the pump management policy can reduce water level bounce (i.e., range of high and low levels), which can improve lake quality and its environment while appropriately mitigating risk of damage to shoreline properties.

Action from 10/11/22 Meeting: Renee to continue working with RCWD to get hydrologist modeling launched. David Swearingen to check on constraints for DNR gauge repositioning. Renee to work with DNR to get the gauge relocated in the spring of 2023 and to include other volunteers in weekly gauge readings. Renee to ask RCWD and DNR for their response to Como lake level management article introduced by Susan Johnson.

5.2 Plan for 2023 removal of excess lake weeds and debris and control of invasive purple loosestrife. Susan Johnson and Board

5.2.1 Background: Holt has scheduled another lake weed removal day in 2023 for lake property owners interested in participating. After the Purple Loosestrife infestation event in 2022, it will be important to monitor and mitigate new growth in the near future, since seeds from the plants removed in 2022 will most likely continue to germinate for several years going forward.

Action: Discuss 2023 plan and identify volunteers for 2023 efforts.

5.3 Sediment Growth. David Swearingen

5.3.1 Background: Karth Lake's sediment levels have risen through the years. Several steps have reduced the rate of new sediment inflow including installation of grit chambers on all street sewer inflows including within the BMP#1 Phase I structure. Board members asked whether sediment growth could be measured going forward. David discussed how the city is measuring sediment growth in several filtration ponds in Arden Hills and suggested that a similar measurement system might be developed for Karth Lake.

Action: Continue to discuss the possibility of measuring and monitoring sediment growth going forward.

5.4 Open Meeting Policy. Susan Johnson and David Swearingen

5.4.1 Background: The City of Arden Hills' position as of the April 2022 meeting was that, going forward, all KLID board meeting should be in-person only and not offer a remote attendance option. The board was concerned that such a policy could prevent board members and the public with immuno-compromised health status from attending. Steve Scott presented this issue at the City Council meeting on October 10, 2022. The City Council allowed on October 11, 2022. The City Council agreed that Zoom attendance the October 11, 2022 meeting would be allowed. Longer term policy to be fully explained later. This issue is therefore not resolved.

5.5 Possibility of initiating a new study to identify status and refresh list of BMPs for future management of Karth Lake. KLIDB and David Swearingen

5.5.1 Background: The most recent Karth Lake study and BMP identification was performed in 2009. The board would like to identify a plan to be included in a follow-up assessment of Karth Lake's current health and opportunities for improvement (BMPs). David Swearingen suggested that current or future grants received by RCWD might be extended to include Karth Lake.

Action: Continue to discuss new lake study funding possibilities.

6. NEW BUSINESS

6.1 Planning process for next election of KLID Board Members and Officers whose terms have expired.

6.1.1 Background: The terms for four board members expire in 2023: those for Aisha Elmquist, Renee Marino, Linda Hansohn and Tony Peleska. The process for announcing the April 2023 election and requesting candidates to fill open positions involves the drafting of a letter to Karth Lake Improvement District members (which are, by definition, Karth Lake shoreline property owners). The City of Arden Hills then sends that letter to members by regular mail

Action: Agree on the process and general content for drafting this letter to KLID members.

6.2 Identification and onboarding of new City Council liaison and other communications with City Council.

6.2.1 Background: Several new members were elected to Arden Hills' City Council in November 2022. A new liaison will likely be appointed by Mayor David Grant to the KLID board. Last year's onboarding of liaison Steve Scott included a walking tour around the lake. At the last board meeting, the idea of an annual tour of the lake was discussed and broadly supported.

Action: Discuss possible ways to educate new City Council members and the new liaison about Karth Lake and the history and prospects for its management. Discuss the possibility of a 2023 walking tour of the lake, including when, for what audience and by whom.

6.3 Education of lakeshore owners about disposal of leaves into the lake.

7. NEXT MEETING

8. ADJOURN

**Draft Minutes for Karth Lake Improvement District Board
Regular Meeting 6:30 PM, Tuesday, October 11, 2022**

1. CALL TO ORDER/ROLL CALL

The meeting convened at: 6:30 PM.

Present:

Board Members: Aisha Elmquist, Chair; Renée Marino, Secretary; Gary Gerding; Kathy Johnson; Linda Hansohn (via conference call); Susan Johnson
Staff Liaisons: David Swearingen, Public Works Director
City Council Liaison: Steve Scott, City Council Member

2. APPROVAL OF AGENDA: The agenda was approved as written.

3. APPROVAL OF MINUTES: The minutes of the previous meeting on April 12, 2022 were approved as written.

4. PUBLIC INQUIRIES: None.

5. OLD BUSINESS

5.1 Remediation of BMP #1 Site, Meeting with Kyle Axtell of Rice Creek

Watershed: Kathy Johnson and Board

5.1.1 Background: In 2021 the city completed installation of a storm drain at the BMP #1 site that transports the runoff from parking lots and roads south of Karth Lake down a drain pipe that goes under the Cummings Park walking path. This eliminates the source of silt into Karth Lake from the former above-ground flow. That project did not address the flow of water from the walking path to the lake.
Action from 4/12/22 Meeting: Sue Johnson agreed to capture video of the water flow in Downstream BMP #1. Kathy Johnson agreed to set up a meeting at the BMP #1 site with Kyle Axtell from RCWD and any board members that could attend for his thoughts on Downstream BMP #1 mitigation.

Discussion: Susan Johnson did capture video. Susan Johnson, Kathy Johnson and Renée Marino met with Kyle Axtell at the site on May 9, 2022. Kyle had said that the site appeared to operating as designed. The design had not included the last segment of drainage between the path and the lake (the “Downstream BMP #1” segment). Susan’s video showed significant water flow in this segment during a rain. On the day of Kyle’s visit, although dry, this segment appeared to have suffered significant erosion. Kyle suggested that the city could pour gravel along at least some of that segment to reduce the volume of silt carried into the lake.

David Swearingen reported that said the catch basin in the BMP#1 site had filled up with debris in 2022. After the city had removed the debris, it again operated as designed. He also said that the city did not have the resources to pour gravel along the Downstream BMP#1 segment, but will address that area in 2026 (as discussed below).

Gary Gelding noted that the BMP#1 design still offered no filtering of oil and other pollutants. Several reiterated that the design was a misnomer and addressed

BMP#5 (drainage from parking lots and road), but not the BMP#1 goal of filtration. David Swearingen reiterated that the filtration goal would need to be addressed in the future as BMP#1 Phase II. Specifically, the city will address both the BMP#1 Phase II and the Karth Lake pump site retaining wall replacement as part of the 2026 Pavement Management Program to repave Amble Drive and other streets around Karth Lake. Furthermore, the budgeted money for replacing the retaining wall replacement in 2023 has been moved to the 2026 effort, but will not be forfeited. This issue is on hold for now.

5.2. Add Grit Chambers to storm drains that empty into Karth Lake and do not have Grit Chambers now. Next Steps: Show map of existing storm drains and grit chambers that empty into Karth Lake. David Swearingen

5.2.1 Background: This item was mostly resolved on 4/12/22 except David said he would obtain a map of the storm drains and grit chambers to share.

Discussion: David did bring copies of a map of grit chambers around Karth Lake, attached. He concluded that all storm drain inputs to Karth Lake have grit chambers. The map below shows grit chambers on 5 of 6 inputs. Although the Lexington input does not show a grit chamber, David displayed an online map of drainage on the east side of Lexington that has the effect of a grit chamber via ponds and a control structure that limits the rate of water flow. Note that the yellow line from the pump site Cummings Park Drive is the outward flow of water when the pump is operating, so is not an input. This issue is resolved.

5.3. Karth Lake water level modeling and management process progress report. Renee Marino

5.3.1 Background: Renee Marino's Hypothesis: a revision to the pump management policy can reduce water level bounce (i.e., range of high and low levels), which can improve lake quality and its environment while appropriately mitigating risk of damage to shoreline properties.

Action from 4/12/22 Meeting: Renee to coordinate launching the modeling effort with Rice Creek Watershed and work with the DNR to get a lake gauge installed and begin taking measurements. Measurements are now posted here:

www.dnr.state.mn.us/lakefind/showlevel.html?downum=62007200

Discussion: Renée Marino reported that Matt Kocian from Rice Creek Watershed District said he would launch the modeling effort with their hydrologist before agreeing to a meeting with the city and board members. Although they had spoken during the summer of 2022, she was unable to get an update on the status prior to this meeting.

With regards to the DNR gauge reading volunteer program, Renée Marino and Jim Elliott took all readings in 2022. Renée has asked the DNR if they could relocate the gauge to the end of the path west of the pump. Its current location next to the old gauges at pump site has required stepping down the retaining wall to the shore in order to read the gauge with the accuracy required by the DNR.

Renée Marino asked David Swearingen if there are constraints about gauge positioning so as not to interfere with the city's installation of the pump. David said he did not think there are constraints but would follow up with his staff.

Susan Johnson brought an article written by Dick Osgood discussing Como Lake's health asserting that large changes in lake levels and fish kills can be good for a lake, contrary to other opinions. Renée agreed to share this with the people at the Rice Creek Watershed and DNR involved with this lake level monitoring and management project to get their reaction to the article. Action: Renée Marino.

5.4. Plan for 2022 removal of excess lake weeds and debris and control of invasive purple loosestrife. Update: Susan Johnson, Renee Marino and Kathy Johnson

5.4.1 Background: Susan agreed to again manage lake weed removal efforts in 2022. Susan agreed to coordinate on notifying lakeshore owners about Purple Loosestrife and Renee agreed to work with the City of Arden Hills to post information on the city's website. There were 21 locations on Karth Lake with Purple Loosestrife in 2022. Because this could not wait until after the October meeting to address, the board was notified by email in August of the combined efforts of Susan, Renee, Kathy and others to address this issue.

Discussion: Susan Johnson shared that the 2022 removal of excess lake weed effort had involved 21 households. The total cost was \$7,420. The fund has \$1,270 remaining for future efforts. This year, only lake weeds were removed, not other debris. Some property owners wanted water lilies removed, others did not. Only one property owner had a complaint about an aspect of the work. The weed removal contractor, Holt, has scheduled another Karth Lake day in 2023.

Renée Marino shared a map of the 21 properties with Purple Loosestrife sightings in 2022 (attached). Several members discussed the coordination and quick response in identifying and removing most plants in 2022. It will be important to monitor and respond to new plants in the near future, since seeds from the plants removed in 2022 will most likely continue to germinate for several years going forward.

5.5. Open Meeting Policy: Susan Johnson, Steve Scott

5.5.1 Background: The City of Arden Hills' position as of the April 2022 meeting was that, going forward, all KLID board meeting should be in-person only and not offer a remote attendance option. The board was concerned that such a policy could prevent board members and the public with immuno-compromised health status from attending. Susan Johnson offered to prepare a brief written summary of open meeting laws and their relevance to KLID board meetings. She will provide that write-up to Steve Scott before the next board meeting.

Discussion: Steve Scott presented this issue at the City Council meeting on October 10, 2022. The City Council agreed that Zoom attendance at meetings

would be allowed on October 11, 2022. Longer term policy to be fully explained later. This issue is therefore not resolved.

5.6. Sediment Growth: David Swearingen

5.6.1 Background: Board members noted that sediment levels around street sewer outlets into Karth Lake have risen in at least the past two decades. While past KLID board and City of Arden Hills efforts should have reduced the rate of new sediment inflow, David noted that the City of Shoreview and Ramsey County manage drainage into Karth Lake from Lexington. To begin addressing these sources, David agreed to share a map of that drainage system at the next meeting.

Discussion: David Swearingen did share an online map of drainage on the east side of Lexington, as well as the grit chamber map discussed above. He also shared that his team is studying its management of multiple filtration ponds throughout Arden Hills. They currently measure depth of storm ponds during the winter by drilling holes in ice and dropping a pole. This study will address whether and how sediment should be removed from those ponds. He will include consideration of Karth Lake in that study. Using a similar method to measure sediment grown in Karth Lake might be possible, but more difficult.

5.7. Tour for new attendees: Steve Scott

5.7.1 Background: At his request, the new City Council Liaison, Steve Scott, was given a tour of Karth Lake. We welcome his observations and follow-up questions to the board.

Discussion: Steve thanked the board for the tour and found it to be both enjoyable and helpful in understanding the issues addressed by the board. He suggested that a group walk around the lake would be a valuable and fun annual event. Many in attendance agreed.

6. NEW BUSINESS

6.1. Planning process for replacing retaining wall on Karth Lake. David Swearingen

6.1.1 Background: The City of Arden Hills' budget for next year includes funding to replace the Karth Lake retaining wall at the pump site. Kyle Axtell told board members in May 2022 that there would be many options to the design of such a retaining wall. The KLID board would like to understand the city's plans for the design process and assure that the KLIDB and the public has input within that process.

Discussion: As discussed in item 5.1 above, David Swearingen said the budget for the retaining wall replacement has been moved to 2026 and will be addressed as a part of the 2026 Pavement Management Program project for the streets around Karth Lake.

6.2. Boston Scientific Lexington Parking Expansion. David Swearingen, Steve Scott

6.2.1 Background: In August 2022, Boston Scientific removed trees along its Lexington boundary and is expanding its parking lots into areas where there were previously trees. Some of the affected area is within the Karth Lake watershed. David Swearingen responded to an inquiry about this work to say that Boston Scientific received approval for that work in 2019 and that it addressed impacts upon the affected watersheds. The KLID board would like a description of this project and likely impacts from the City of Arden Hills.

Discussion: David Swearingen brought copies of the Boston Scientific Arden Hills Campus Parking Expansion plans approved in 2019. There was a general discussion of the extensive water management structure being built underneath the south end of the expanded parking lot. Drainage from the affected land into Karth Lake appears to be unchanged or reduced compared to the previous land use. Regarding concerns about the number of trees that were removed, Steve Scott and David Swearingen discussed Boston Scientific's requirement to plant or fund planting of trees on its land or other land in Arden Hills. Steve pointed out that a recent Arden Hills ordinance amendment allows replanting credit after tree removal to include the planting of landscaping elements other than trees. This issue is resolved.

6.3. Possibility of initiating a new study to identify status and refresh list of BMPs for future management of Karth Lake. KLIDB and David Swearingen

6.3.1 Background: The most recent Karth Lake study and BMP identification was performed in 2009. It would be helpful to get an update reflecting the current state of the lake.

Discussion: David Swearingen said future Karth Lake BMP development might be included in a couple of other efforts. For example, Rice Creek Watershed District recently obtained a grant from the Minnesota Pollution Control Agency to study storm water resilience and might address Karth Lake's role in the District's resilience. That study addresses flood susceptible areas after large rain events. Kyle Axtell will be managing the study and David hopes to contribute to Karth Lake involvement, possibly even to address the BMP#1 Phase II project.

7. Next Meeting: Tuesday, January 10, 2022 at 6:30 PM at City Hall.

8. Adjourn

**Respectfully Submitted,
Renée Marino**

**Minutes of Karth Lake Improvement District Board
Regular Meeting 6:30 PM, Tuesday, April 12, 2022
Approved October 11, 2022**

Call to Order/Roll Call

The meeting convened at: 6:30 PM.

Present:

Board Members: Tony Peleska, Chair; Gary Gerding, Secretary; Aisha Elmquist; Kathy Johnson; Renée Marino, Linda Hansohn (via conference call); Susan Johnson (via conference call);

Staff Liaisons: David Swearingen, Public Works Director; Lucas Miller, Assistant Public Works Director.

City Council Liaison: Steve Scott, City Council Member

Resident: Jim Elliott

- 1. Approval of Agenda:** The agenda was approved as written.
- 2. Approval of Minutes:** The minutes of the previous meeting on October 26, 2021 were approved as written
- 3. Board Member Elections:** No new candidates for board membership had responded to the KLID Board's letter to Karth Lake Neighbors sent via regular mail by the City of Arden Hills on March 29, 2022. Both board members with expiring terms agreed to serve for another term. The results were as follows. All votes were unanimous:

Gary Gerding: Term Expiration April 2025

Susan Johnson: Term Expiration April 2025

- 4. Election of Chair and Secretary:** Aisha Elmquist was unanimously elected as Chair, Renee Marino was unanimously elected as Secretary. Terms are through April 2023.

5. Public Inquiries: None

6. Old Business

6.1 Remediation of BMP #1 Site, Plan Next Steps: David Swearingen and Board

6.1.1. Background: In 2021 the city completed installation of a drain that brings the runoff from the parking lots and roads south of Karth Lake down to the walking path in Cummings Park. This eliminates the erosion that took place as the runoff flowed down the hill and, ultimately, into the lake. It does not filter the water, nor address the flow of water from the walking path to the lake. A possible next step is to divert water to empty into a ponding area to filter out the nutrients, oils, organic compounds, and soils in the runoff.

Further background from prior board meeting minutes and plans: The 2009 Southwest Urban Lakes Study's Karth Lake Management Action Plan's (posted on the City of Arden Hills KLID website) BMP #1 identified the low wooded area further along the path beyond the park bench on the Cummings Park trail from

Lexington as an area that could be used to treat (via ponding and infiltration) the water to remove pollutants from the water run-off from the impervious surfaces in the adjacent businesses. Karth Lake BMP #5 addressed pavement retrofits to storm water runoff from those same surfaces.

In December 11, 2019, in response to requests from KLIDB to address the BMP #1 site, Todd Blomstrom, Public Works Director, said the city planned to apply for a cost sharing grant on a new BMP #1-focused project from the Rice Creek Watershed District (RCWD).

On January 15, 2020, Todd Blomstrom said the city had submitted a grant application to the RCWD.

At the next meeting, January 12, 2021, (which didn't happen until a year later because of COVID), Todd Blomstrom presented a nearly completed project plan for BMP #1 remediation, but there was no time at that meeting for the board to ask questions.

At the February 9, 2021 meeting, David Swearingen, newly appointed as the Interim Public Works Director, answered board questions regarding the project plan. To the question of whether there would be a mechanism to capture solids such as a grit chamber, he said that the plan would be amended to add a grit chamber. To the question of whether there would be a mechanism to filter out oil products and other polluting run-off from the pavement, he said no, but that he planned to apply for another grant in the future that would divert water into a holding pond so it is filtered before it empties into the lake.

Accordingly, the Remediation of BMP #1 Site Plan completed in 2021 addressed BMP #5 from the 2009 Management Plan (street/sewer improvements to the run-off from business impervious surfaces) but not BMP #1, treatment of the water to remove pollutants.

According to David, the 2021 project carries a greater volume of water into the lake than the previous system since the water is no longer absorbed by the hillside between the parking lot and the walking path. However, it avoids collecting silt from erosion of that hillside and also removes grit from the parking lot run-off in its grit chamber.

Discussion: Regarding next steps to filter pollutants from the run-off, David Swearingen said that Arden Hills' five year plan excludes any further work on BMP #1. Next steps, if any, would have to be addressed in subsequent planning periods.

Kathy Johnson and Susan Johnson noted that there appears to be significant erosion between the path and the lake ("Downstream BMP #1"). Susan asked if fund raising could be done to address the Downstream BMP #1 area. David said

any funding would first have be used to hire a consultant to develop a solution. Kathy asked if adding native plants could help address the Downstream BMP #1 area. She offered to reach out to RCWD and Blue Thumb for assistance.

Action: Sue Johnson agreed to capture video of the water flow in Downstream BMP #1. Kathy Johnson agreed to set up a meeting at the BMP #1 site with Kyle Axtell from RCWD and any board members that could attend for his thoughts on Downstream BMP #1 mitigation.

6.2 Progress Report on No-Trespassing sign: David Swearingen

6.2.1. Background: The Board requested replacement of the No-Trespassing Sign to warn the public not to cross the land bridge from Cummings Park to the residential area to the north. Renee M. noted that the sign was agreed to and authorized in the July 14, 2009, KLIDB Meeting. **Action from 10/26/22**

Meeting: David S. and Mayor Grant will review this history and decide what to do.

Discussion: David reported that a new sign has been installed that says “City Property Ends Here.”

Action: None. Resolved.

6.3. Add Grit Chambers to storm drains that empty into Karth Lake and do not have Grit Chambers now. Next Steps: Show map of existing storm drains and grit chambers that empty into Karth Lake. David Swearingen.

6.3.1 Background: There is only one storm drain inlet to Karth Lake that does not have a grit chamber: the one on Karth Lake Circle. This will be corrected when that road is repaved in about 2026.

Discussion: David said street sweeping will be soon to remove grit in the streets around Karth Lake. The city has already cleaned out the new BMP #1 grit chamber. The final grit chamber will be added during the repaving project in 2026.

Linda says there is also a man hole on Amble Drive that has sunk several inches. David said that will be addressed in the repaving project in 2026.

Action: David Swearingen agreed to show map of existing storm drains and grit chambers that empty into Karth Lake.

6.4. Karth Lake water level modeling and management process progress report. Renee Marino

6.4.1 Background: Renee Marino’s Hypothesis: a revision to the pump management policy can reduce water level bounce (i.e., range of high and low levels), which can improve lake quality and its environment while appropriately mitigating risk of damage to shoreline properties. For more background on this topic please read pdf attached to tis email and the following link in advance of the meeting:

<https://www.dnr.state.mn.us/climate/waterlevels/lakes/volunteering.html>

Discussion: Renee reported that the DNR had applied for a new gauge to be funded, installed and calibrated in Karth Lake. If approved, it would likely be installed within a couple of weeks. Volunteers would be needed to record and upload lake levels weekly when there is open water. She and Jim Elliott have volunteered to take readings in 2022 and others said they could fill-in, if needed.

Renee also reported that Matt Kocian of RCWD will provide funding for its hydrologist consultant, Chris Otterness, to develop a model of Karth Lake lake levels and develop an improved pumping strategy to reduce lake level bounce. They have offered an option of deliverables: (1) a spreadsheet tool for our use or (2) a pumping strategy designed to meet a set of written goals / criteria.

Tony asked if we could have both: a pumping strategy and a tool that we could use after the analysis is completed. The board agreed and, as a whole, expressed a desire to receive the full benefit of Chris' know-how through delivering a pumping strategy.

With regards to the task of developing a written set of goals and criteria, Renee suggested it would be helpful to have a meeting up front with Matt and Chris, with people at the city that will be responsible for implementing a revised strategy, and with board representatives, myself and Gary Gerding. Specifically, implementation constraints and alternative could impact the strategy recommendation. All in attendance agreed. David and Lucas said they would be happy to participate in such a meeting.

Action: Renee will set up a meeting with Matt, Chris, David, Lucas, Gary and myself to launch the modeling effort. Renee will follow up on gauge status and begin lake level measurements once available.

7. New Business

7.1 Plan for 2022 removal of excess lake weeds and debris and control of invasive purple loosestrife.

Discussion: Susan agreed to manage this effort again in 2022. The board requested that the city's KLID web page include information about purple loosestrife. David said there is a new communications director.

Action: Susan will send a flyer about weed removal and include a note and photos about purple loosestrife.

David will send the new communications director's contact information to Renee. Renee will provide content to the city to add information to the website.

7.2 Report results of 2021 water quality monitoring for Karth Lake – Gary Gerding

Discussion: Gary shared charts provided by Matt Kocian of RCWD (shown below) and the following observations:

- Over the past 10 years, water quality has been generally stable. I.e., there have been no statistically significant trends in total phosphorus nor chl-a averages. Total phosphorus and chl-a levels in 2021 were 7% and 17% higher than their 10-year averages, respectively, but the magnitudes of these changes are consistent

with past variability and are not by themselves indicative of negative trends in water quality.

- There were some moderate algae blooms in late 2021, but not much worse than blooms in 2017, and much better than blooms in 2008-2010
- Karth Lake continues to meet State Water Quality standards for all parameters (phosphorus, chl-a, and clarity). For a suburban shallow lake, water quality in Karth Lake is good. Based on Met Council's grading system, Karth Lake gets a "B-"

Action: Gary will continue to be the lead for water quality monitoring in 2022. The sampling in 2022 will be the same as in 2021: Andrew Elmquist will cover first and last thirds of the sampling season and Renee Marino and Jim Elliott will do the middle third.

7.3 Open Meeting Policy – New Topic

Background: The City of Arden Hills set up this board meeting as in-person only. Although they allowed board members Linda Hansohn and Susan Johnson to attend remotely via a conference call, the city did not count them as contributing to the quorum required to hold the meeting. Although a quorum was obtained in this meeting, it is a problem for future meetings. Specifically, COVID continues to be a potentially life-threatening risk for those with auto-immune deficiencies.

Discussion: Susan Johnson, an attorney, expressed a concern that requiring in-person attendance violates current open meeting laws in Minnesota.

Action: Susan offered to prepare a brief written summary of open meeting laws and their relevance to KLID board meetings. She will provide that write-up to Steve Scott before the next board meeting.

7.4 Sediment Growth – New Topic

Background: Gary expressed concern that the level of sediment at a street sewer by his house is approximately three feet higher than it was when he moved in.

Discussion: Kathy said she has observed a similar rise in an outlet by per property. Tony said he has observed an "alluvial fan" of sediment extending from the street sewer outlet on the south end of the lake by his property. David suggested that the rate of new sediment entering the lake should be greatly diminished going forward for those that have been retrofitted with grit chambers. Street sweeping soon after snow melt can remove grit left over from snow removal efforts before they enter the street sewers. He also said that storm sewers draining from Shoreview properties and Lexington Avenue are managed by Ramsey County, not Arden Hills. Gary suggested that sediment removal should be reconsidered once the last grit chamber is installed.

Action: David agreed to bring the Ramsey County and Lexington drainage maps to the next meeting so we can assess next steps, if any, to address those sources.

7.5 Tour for new attendees – New Topic

Background: New attendees to KLID meetings requested a tour of Karth Lake. Specifically, City Council Member Steve Scott has been newly appointed by

Mayor Grant as the City Council Liaison to the KLIDB; Lucas Miller has been recently hired as Assistant Public Works Director.

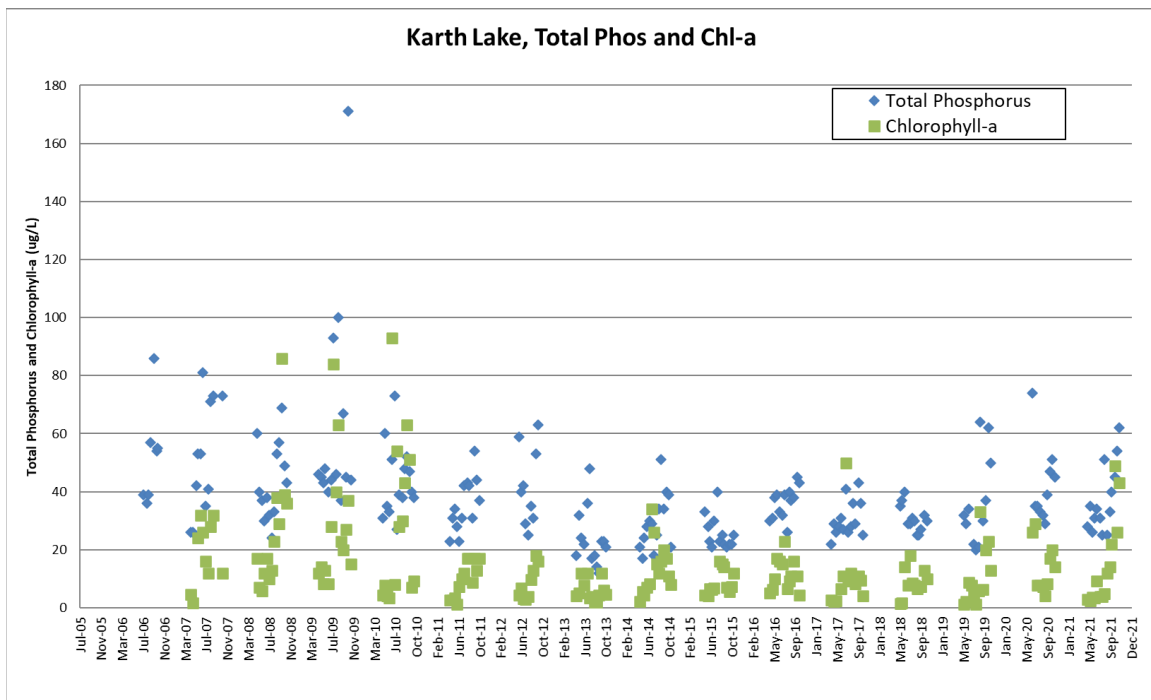
Discussion: Steve Scott requested a tour of Karth Lake and Lucas Miller said he would try to join the tour if his schedule permitted. Renée Marino and Kathy Johnson agreed to conduct the tour.

Action: Renée Marino agreed to schedule the tour.

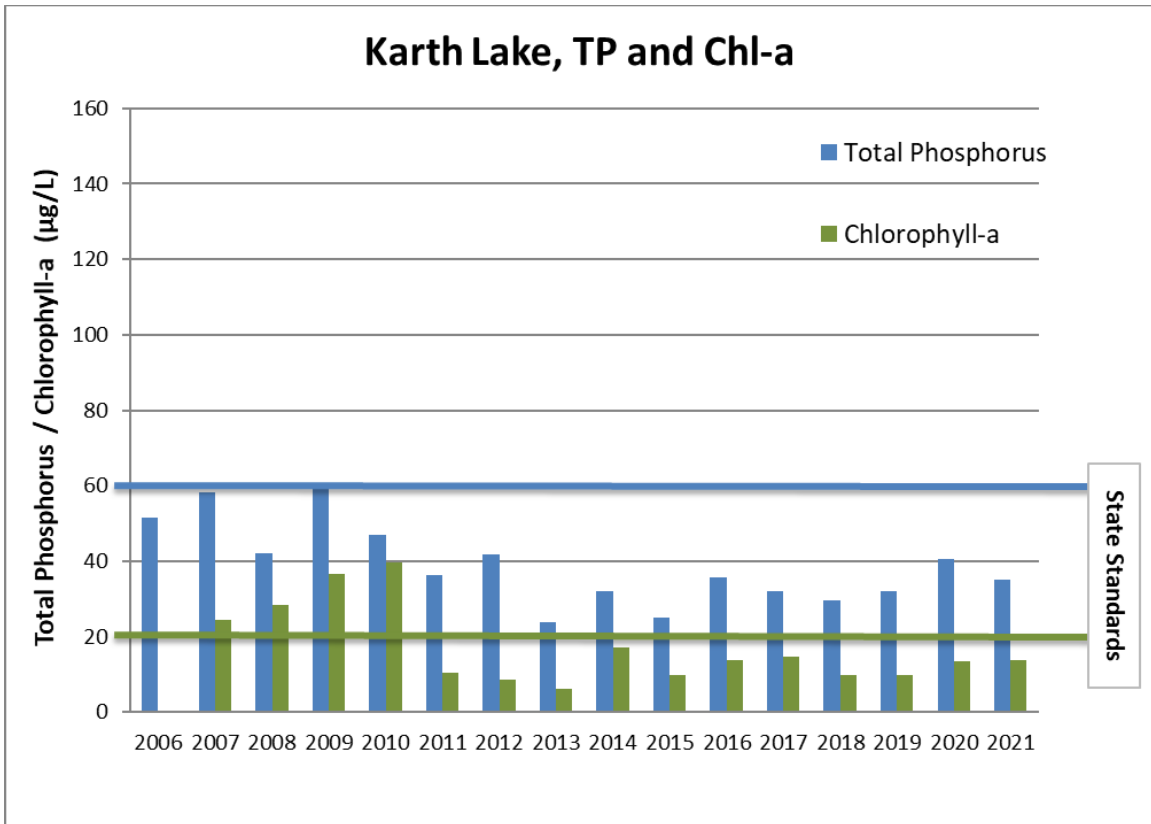
8. Next Meeting: Informal meeting tentatively planned for August 10, 2022 at Kathy Johnson's house. Next official meeting planned for October 11, 2022 at City Hall.

9. Adjourn

Respectfully Submitted,
Renée Marino



Raw data, total phosphorus and chl-a



Average total phosphorus and chl-a

