

Successful Lake Management & The Feasibility of Alum to Improve Water Quality

April 28th, 2:00 – 4:00 PM CST

A Webinar Presented By:

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& William James - [University of Wisconsin – Stout](#)



Registration:

Join [HAB Aquatic Solutions](#), [Lake County Health Department](#) and the [Illinois Lakes Management Association](#) for an informative webinar on water quality. This event is **FREE** but requires registration. Please register for the webinar on Eventbrite.

<https://www.eventbrite.com/e/successful-lake-management-feasibility-of-alum-to-improve-water-quality-tickets-148336603775>

Event Description:

Poor water quality in lakes has many symptoms and most of them are caused by having too much algae in your lake. Such symptoms include scums, low clarity, odors, algal toxins, low oxygen levels, poor fishing, fish kills and reduced recreational and property values. What's the cause of nuisance levels of algae? Too much phosphorus (P). Phosphorus is generally the nutrient that controls algal growth in lakes and lower amounts of P lead to lower amounts of algae and associated poor water quality symptoms. That's why the main focus of appropriate and successful lake management is directed at P management.

So, how is P in your lake best reduced and controlled? Well, that really depends on where is the P coming from. Too often we want to rush into trying a solution, while skipping the mundane steps of determining the sources and amounts of P entering the lake. This valuable diagnostic information is needed to design the appropriate solution (or solutions) and ensuring that the management plan will work. You are probably most familiar with P sources that originate from outside of the lake (external sources from the watershed) but recycling of P that has accumulated in the lakebed (internal sources) can be a primary and overlooked source. The solutions for these categories of sources are usually quite different and specific. For example, watershed best management practices are appropriate for external sources, while addressing lakebed P recycling with inactivants such as alum are best for internal sources.

Please join us for a webinar discussion why P management is important for your lake, with specific topics to include:

- 1) A successful approach to lake management (The 7 Key Steps)
- 2) Impacts of P on water quality and property values
- 3) Determining external vs. internal P sources
- 4) Cost-effect solutions
- 5) Use of alum to improve water quality when sediment P recycling is high

Questions? Contact Alana Bartolai at abartolai2@lakecountyil.gov or 847-377-8009

PARTICIPATION PLAN

PROJECT: BRISTOL & MAVELLE PARK / LYNMAR BASIN JOINT PLANNING WITH NINE MILE CREEK WATERSHED DISTRICT (NMCWD)

DECISION TO BE MADE

- Decide whether to proceed with project and select design concept for the open space that provides clean water, flood risk reduction, and natural resource benefits, while keeping a portion of the space open for passive recreation.
- Project Decision: Staff will make a recommendation to City Council.

DECISIONS ALREADY MADE

- The primary purpose of the space is and will remain flood protection and stormwater management.
- The primary purpose of the planning is to review concepts to enhance the flood and stormwater management.
- The secondary purpose of the space is to provide informal recreational use.
- The secondary purpose of the planning is to review ways to enhance or provide some passive park opportunity and open space value, while accomplishing the primary purpose.

PROJECT TIMELINE

- April 2021 through July 2021 for engagement and concept design decisions.
- Decision(s) would be made in Summer 2021 regarding whether to proceed with project and preferred design concept.

STAKEHOLDERS

- Properties in the South Cornelia Neighborhood within 500' of the property
- South Cornelia Neighborhood group
- Parks and Recreation Commission

PARTICIPATION LEVEL

CONSULT

- Goal: To obtain public feedback on current uses of the park, project analysis, alternatives, and/or decisions. Engagement strategy will include informing residents on the proposed clean water, flood risk reduction, and natural resource benefits.
- Promise: We will keep you informed, listen to and acknowledge concerns and aspirations and provide feedback on how the public input influenced the decision.

DECISION CRITERIA

IN SCOPE

- | | | |
|----------|---------------------------------|----------------------------|
| - Trails | - Natural Resource Improvements | - Flooding Improvements |
| - Style | | - Clean Water Improvements |
| | | - Informal open space |

OUT OF SCOPE

- Primary and secondary park purposes
- No additional structures added to the property
- Programmed park activities

OTHER CONSIDERATIONS

- Cost
- Cost/benefit
- Public awareness
- Sustainability goals

LEGAL OR TECHNICAL REQUIREMENTS

- MPCA Permit

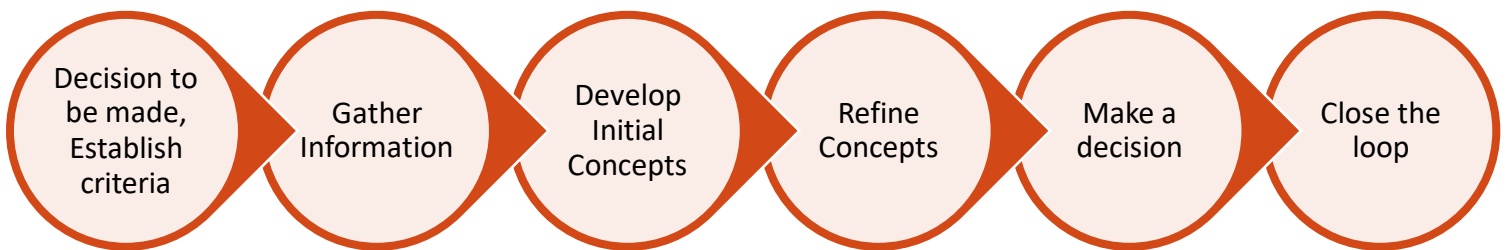
PUBLIC PARTICIPATION

Level: Consult (see PARTICIPATION LEVEL above)

TECHNIQUES

- Better Together Edina platform
- Initial letter
- Online Feedback Survey
- Physically-distanced, masked, outdoor open house
- Virtual Community meeting(s)

DECISION PROCESS



Objective	The City and NMCWD will seek input on current open space use and initial design concepts of the stormwater control measures.	The City and NMCWD will develop concepts based on the information obtained, share concepts with residents, and let stakeholders know how their feedback influenced the design concepts.	The City and NMCWD will incorporate input received from stakeholders on concepts and refine concept design option(s).	Objective: City and NMCWD staff will make a recommendation to Council and NMCWD Board. Council decides and NMCWD Board authorizes staff to undertake a feasibility study to be considered to order project.	Contact individuals who participated and let them know the decision that was made, how their feedback was used (or not used).
Immediately adjacent neighbors and	Send an informational letter via mail,	Hold a virtual community meeting to share concepts,	Keep record of input and how input influenced	Send notice of meeting via mail and email update list.	Reach out specifically to

others that show interest	with request to take online survey, sign up to be on email update list, track on project website, or contact project team with questions or ideas. Invite to open house.	make information available via project website, send via mail to anyone not able to attend.	concept design(s). Post updated information on project website.		individuals that took part.
Properties in the South Cornelia Neighborhood within 500' for Lynmar Park	Send an informational letter via mail, with request to take online survey, sign up to be on email update list, track on project website, or contact project team with questions or ideas. Invite to open house.	Post information on project website, invite interested people to sign up to be on email update list or contact project team with questions or comments.	Keep record of input and how input influenced conceptual design(s).	Post notice of meeting on project website and send notice of meeting via email update list.	Post on project website.
Parks and Recreation Commission update	To be completed by City.	To be completed by City.	To be completed by City.	To be completed by City.	To be completed by City.
Timeline	April 2021	May - June 2021	June - July 2021	July 2021	Late-July and August 2021

