



CITY OF
TUMWATER

**BARNES LAKE MANAGEMENT DISTRICT
MEETING AGENDA**

**Online via Zoom and In Person at South
Puget Sound Community College,
Watershed Room, 2011 Mottman Road
SW, Building 32, Olympia, WA 98512**

**Wednesday, April 09, 2025
6:00 PM**

1. Call to Order
2. Roll Call
3. Introduction and Agenda Review
4. Approval of Minutes
 - [a.](#) January 29, 2025 Steering Committee Meeting Minutes
 - [b.](#) February 19, 2025 Steering Committee Meeting Minutes
5. Public Comment
6. Member Comment
7. Lake Management
 - [a.](#) Aquatechnex 2025 Treatment Update (Conrade)
 - [b.](#) Water Levels and Temperature (Kangiser)
 - [c.](#) Boat Launch Permitting Update (Kangiser)
8. General Business
 - [a.](#) Draft Newsletter Review (Kangiser)
 - [b.](#) 2025 Work Plan (Soderberg/Kangiser)
 - [c.](#) 2025 Budget (Soderberg)
9. Future Agenda Items
10. Adjourn

Meeting Information

The public are welcome to attend in person, by telephone or online via Zoom.

Watch Online

<https://us02web.zoom.us/j/83476260182?pwd=25U99PdXC3U8zO6hyiUtTy2a0MgJ.1>

Listen by Telephone

Call (253) 215-8782, listen for the prompts and enter the Meeting ID 834 7626 0182 and Passcode 044953.

Post Meeting

Video of this meeting will be recorded and posted on our City Meeting page: <https://tumwater-wa.municodemeetings.com>.

Accommodations

The City of Tumwater takes pride in ensuring that people with disabilities are able to take part in, and benefit from, the range of public programs, services, and activities offered by the City. To request an accommodation or alternate format of communication, please contact the City's ADA Coordinator directly, call (360) 754-4129 or email ADACoordinator@ci.tumwater.wa.us. For vision or hearing impaired services, please contact the Washington State Relay Services at 7-1-1 or 1-(800)-833-6384.



BARNES LAKE MANAGEMENT DISTRICT MEETING MINUTES

Wednesday, January 29, 2025

Online via Zoom and in person at 2011 Mottman Rd. Olympia, WA
SPSCC Campus Building 32

1. Call to Order
2. Roll Call

Lennia Madison (Chair), Tom Sparks (Vice-Chair), Jody Keys, Kathy Peterson, Carissa Parvin, Scott Conrade (Aquatechnex), Patrick Soderberg (Water Resources Manager), Dave Kangiser (Water Resources Specialist)
3. Introductions and Agenda Review
4. Approval of Minutes
 - a. November 13, 2024 Steering Committee Meeting

Member Peterson motioned to accept the November 13, 2024 minutes as amended.

Member Keys seconded and the vote was unanimous.
5. Public Comment

There was no public comment.
6. Member Comment

There was no substantive member comment
7. Lake Management
 - a. Aquatechnex 2024 Annual Update (Conrade)

2025 Meeting Dates

January 29 April 9 May 14 Sept. 10 (5:00 walk about) October 8 November 12

Contractor Conrade and Manager Soderberg explained the benefits and drawbacks of Muckbiotic, a product designed to consume detritus on the lake bed to restore depth. The product would cause dissolved oxygen to drop, due to the increase bacteria that would consume the detritus. Aerating the lake could be a solution but would be logistically challenging. Other LMDs in the area have considered using the product.

The 2024 annual report was reviewed. Contractor Conrade recommended treating the lake with Sonar (active ingredient is fluridone) for bladderwort and Clearcast (active ingredient is Imazamox) for white water lily and water shield in 2025. Contractor Conrade will submit an estimate for the treatment. A vote for the amended scope of work will be held in February. Member Peterson motioned to amend the current scope of work as discussed, to include fluridone as well as treat nuisance native lilies with Clearcast. Member Parvin seconded the motion and the vote was unanimous.

b. Lake Levels and Temperature (Kangiser)

Specialist Kangiser collected data from the water level data logger but has not analyzed the data yet.

c. Boat Launch Permitting Update (Kangiser)

Permitting is still underway and a temporary solution for launching the boat might be needed for 2025.

8. General Business

a. Newsletter Article Assignments (Kangiser)

Tumwater’s Communication staff has been consulted for formatting the newsletter. The newsletter will include:

- Member Shelton’s photos
- A summary of the Aquatechnex 2024 annual report
- budget information update
- Lakeside perspectives - assigned to Member Weaver

2025 Meeting Dates

January 29 April 9 May 14 Sept. 10 (5:00 walk about) October 8 November 12

- Lake stewardship (consult Grant Gilmore)

Newsletter articles will be due March 1.

b. Steering Committee Vacancy Updates (Soderberg)

Sherri McAfferty from Daisy Lane has submitted an application for the Steering Committee member. Tumwater staff will invite her to the April 9 meeting.

c. 2025 Work Plan (Soderberg/Kangiser)

Tumwater staff reviewed the 2025 workplan. An IAVMP update needs to be included in the 2025 workplan. Tumwater staff will draft a Request for Qualifications for the IAVMP update. Chair Madison and Member Peterson volunteered to be in the interview panel for the consultant interviews. Member Peterson motioned to accept the 2025 workplan as amended to include the IAVMP process. Chair Madison seconded and the vote was unanimous.

d. 2024 Budget (Soderberg)

Manager Soderberg reviewed the budget with the proposed changes to reflect the amended scope of work. Vice-chair Sparks noted some discrepancies. Manager Soderberg will make the needed corrections.

9. Future Agenda Items

10. Adjourn

2025 Meeting Dates

January 29 April 9 May 14 Sept. 10 (5:00 walk about) October 8 November 12



BARNES LAKE MANAGEMENT DISTRICT MEETING MINUTES

Wednesday, February 19, 2025
6:00 PM

1. Call to Order

2. Roll Call:

Linnea Madison (Chair), Rusty Weaver, Jody Jeys, Dana Day, Carrisa Parvin, Troy Patience, Dave Kangiser (Water Resources Specialist), Patrick Soderberg (Water Resources Manager), Jerome, (Jolt News)

Excused: Kathy Peterson, Lalani Shelton, Tom Sparks (Vice Chair),

3. Introductions and Agenda Review

No changes to the agenda were noted.

4. Public Comment

No public comments were noted.

5. Member Comment

6. No member comments were noted.

7. Lake Management

a. Aqautechnex 2025 Treatment Proposal (Soderberg)

Manager Soderberg reviewed the Aquatechnex revised proposal to substitute fluridone for diquat treatment for bladderwort treatment in 2025. There is a significant cost increase for the fluridone treatment compared to the diquat treatment.

2025 Meeting Dates

January 29

April 9

May 14

Sept. 10 (5:00 walk about)

October 8

November 12

Member Weaver asked about the financial implications of the fluridone treatment. The fluridone treatment would leave a small balance in the budget for the LMD. Member Keys asked if the fluridone would substitute for the lily pad treatment. Manager Soderberg explained that the lily pad treatment is a separate treatment and would be concurrent with the fluridone treatment. Member Parvin asked about the cost of diquat. Manager Soderberg explained that diquat is less expensive than fluridone. Member Keys asked about a follow up fluridone treatment. Manager Soderberg explained that fluridone needs to maintain a certain concentration in the water column through at least 30 days to be effective. A second fluridone treatment will be required in 2025. Manager Soderberg explained the budget implications for this year and future years. Diquat will be used in the following years, allowing the budget to recover. An Integrated Aquatic Vegetation Management Plan (IAVMP) update is also planned for 2025. The IAVMP is projected to cost around \$15,000.00. The first fluridone treatment is tentatively scheduled for June or early July. Member Weaver motioned to accept Option B (fluridone treatment), Member Day seconded the motion and the vote was unanimous.

8. General Business

a. 2025 Budget (Soderberg)

Manager Soderberg and Specialist Kangiser reviewed the budget.

b. Reallocation of duties (Kangiser)

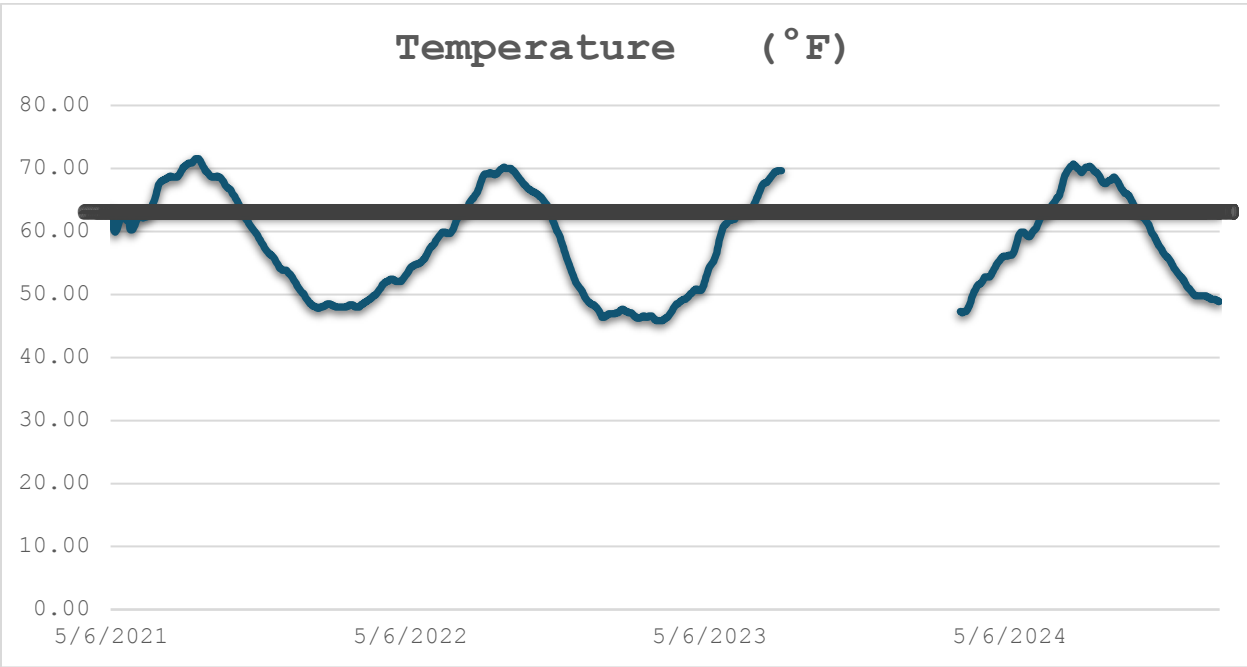
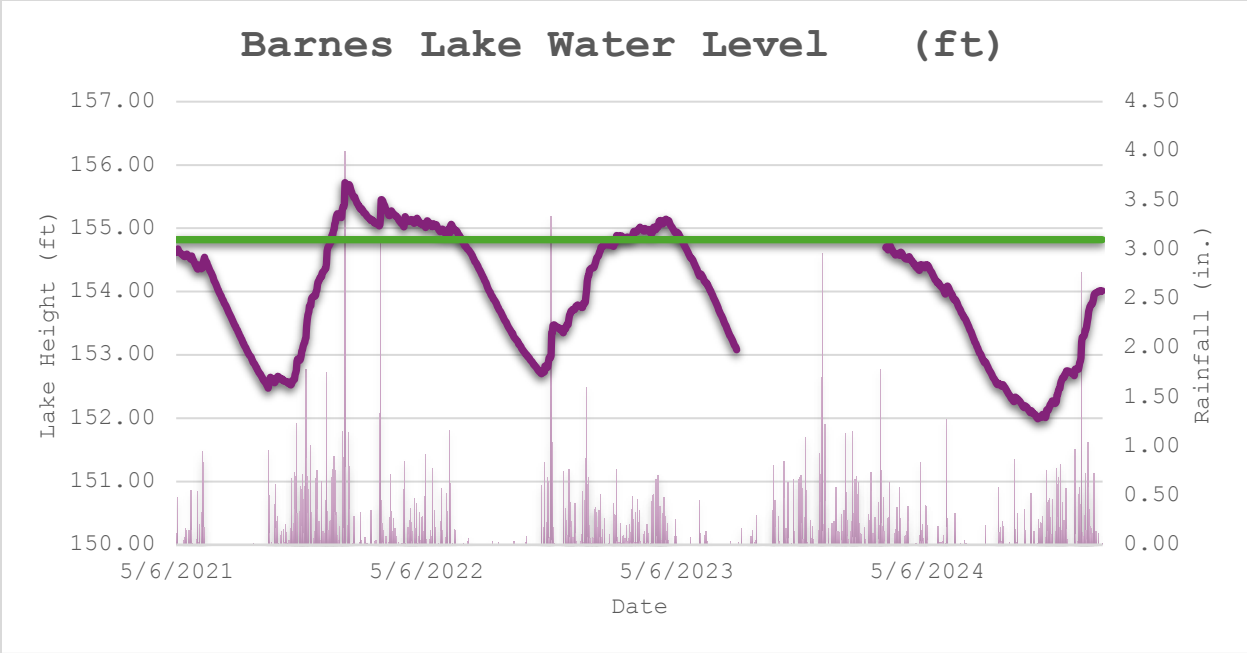
Manager Soderberg is reallocating Specialist Kangiser’s Recorder duties to focus more on regulatory requirements for the City of Tumwater. Specialist Kangiser explained the duties of the Recorder. A vote for Recorder will take place at the next steering committee meeting.

9. Future Agenda Items

10. Adjourn

2025 Meeting Dates

January 29	April 9	May 14	Sept. 10 (5:00 walk about)	October 8	November 12
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Barnes Lake Management District 2025 Newsletter

For a Healthy Lake and Community

Barnes Lake Management District Steering Committee 2025 Meeting Schedule

- January 29
- April 9
- May 14
- September 10 (walk about)
- October 8
- November 12

Meetings are held at 6:00 pm at South Puget Sound Community College Building 32 in the Watershed Room or virtually on Zoom. Find the meeting agendas and Zoom link on the City of Tumwater's website: <https://tumwater-wa.municodemee tings.com/>

Aquatic Vegetation Management Update

In 2024, the Barnes Lake Management District ushered in a new contractor to conduct annual treatment on the lake to control invasive and nuisance aquatic plant species. Aquatechnex was offered a three year contract to continue the work of keeping Barnes Lake's health at a high level while balancing the recreational, wildlife, water quality, and aesthetic values of the lake. AquaTechnex has been at the forefront of lake restoration and management for over five decades, specializing in combating invasive aquatic plants and harmful algal blooms (HABs).

Plans for treatment in 2025 include targeted treatment for invasive fragrant water lily and bladderwort. Effort will also focus on nuisance water shield lily to allow access for recreation.



Budget Update

The 2025 budget will be impacted by the planned Integrated Aquatic Vegetation Management Plan (IAVMP) update as well as the fluridone treatment that was recently approved by the Barnes Lake Management District Steering Committee. An IAVMP is used to guide the direction of lake management to balance recreational and aesthetic uses with habitat and water quality goals. Fluridone is an aquatic vegetation treatment that targets the root of invasive species such as bladderwort. Both of these budgetary needs are only planned for 2025, making the impact only felt this year. Routine property assessments will help recover the budget in the coming years.

PROPERTY ASSESSMENT TYPE	TOTAL # OF UNITS	2025	2026	2027	2028	2029
Residential with Frontage	26	\$ 291.72	\$ 306.31	\$ 321.62	\$ 337.70	\$ 354.59
Undeveloped Residential w/ Frontage	3	\$ 145.86	\$ 153.15	\$ 160.81	\$ 168.85	\$ 177.29
Public / Commercial	3	\$ 583.44	\$ 612.62	\$ 643.25	\$ 675.41	\$ 709.18
Condominium w/ Frontage & View	21	\$ 233.38	\$ 245.05	\$ 257.30	\$ 270.16	\$ 283.67
Condominium w/ Frontage; No View	45	\$ 116.69	\$ 122.52	\$ 128.65	\$ 135.08	\$ 141.84
Residential w/ View Only	5	\$ 116.69	\$ 122.52	\$ 128.65	\$ 135.08	\$ 141.84
Undeveloped Residential w/ View Only	1	\$ 58.34	\$ 61.26	\$ 64.32	\$ 67.54	\$ 70.92
Condominium w/ View Only	5	\$ 93.59	\$ 98.27	\$ 103.19	\$ 108.35	\$ 113.76

Lakeside Perspectives (value of the LMD in the community, steering committee perspectives, etc.)

[Insert Photo]

Lake Stewardship – Fertilizer Best Practices

Contrary to popular belief, healthy lawns need only a small amount of nutrients. More importantly, they need healthy soils. Applying more fertilizer than what the label says will NOT make your grass healthier, but it will cost you more money and could result in excess nutrients washing down storm drains into streams, lakes, Puget Sound or even into our drinking water. Excess fertilizer can “burn” your lawn, lead to excess thatch build up and excess salts in your soil. Research shows that phosphorous is critical to root development and plays an important role when first establishing a lawn. Generally, our soils have enough phosphorus already. Too much phosphorous causes algae blooms, which can result in low dissolved oxygen levels and suffocation of fish and other aquatic organisms.

When choosing a fertilizer for your yard, make sure you are not adding too much unnecessary nutrients. A soil test can help determine the correct needs for your yard. Fertilizer bags will show three numbers that reflect the Nitrogen (N) – Phosphorous (P) – Potassium (K) ratio. In Western Washington, the optimal ratio of N-P-K is 3-0-2. In other words, 3 parts nitrogen to zero parts phosphorous to 2 parts potassium.

For more information, visit the Thurston County Healthy Gardening website:

<https://www.thurstoncountywa.gov/departments/public-health-and-social-services/community-wellness/healthy-home-yard/gardening>



Living with Beavers on Barnes Lake

Did you know that Barnes Lake is home to several beaver families? Beavers create their own habitat by building dams that also creates habitat for other wildlife. Weasels, raccoons, and herons hunt frogs and other prey along the marshy edges of the lake. Migratory waterbirds use lake as nesting areas and resting stops during migration. Ducks and geese often nest on top of beaver lodges since they offer warmth and protection, especially when lodges are formed in the middle of a pond. The trees that die as a result of rising water levels attract insects, which in turn feed woodpeckers, whose holes later provide homes for other wildlife.

If left unchecked, the beavers in Barnes Lake could flood waterfront property. The City of Tumwater installed a flexible leveler at the south end of the lake to help regulate the water level during the rainy season. A flexible leveler is a flexible piece of pipe that runs through the beaver dam allowing water to pass through it without compromising the beaver dam. Barnes Lake has had a flexible leveler in place for almost a decade!



Barnes Lake Management District Steering Committee Meetings

Do you have questions about the Barnes Lake Management District or want to get involved? Contact the Water Resources & Sustainability Department at waterresources@ci.tumwater.wa.us and find out how to participate in the lake management district! Find the meeting agendas and Zoom link on the City of Tumwater’s website: <https://tumwater-wa.municodemeetings.com/>

BLMD Steering Committee representatives:

Chair: Linnea Madison (Lake Park Drive)	Vice-Chair: Tom Sparks (Barnes Lake Condos)
Kathy Peterson (Lark Street)	Dana Day (Lark Street)
Rusty Weaver (Lake Terrace Drive)	Lalani Shelton (Lake Terrace Drive)
Jody Keys (Daisy Lane)	

City of Tumwater representatives:

Patrick Soderberg, Water Resources Program Manager: psoderberg@ci.tumwater.wa.us
 Dave Kangiser, Water Resources Specialist: dkangiser@ci.tumwater.wa.us



Barnes Lake Management District – 2025 Work Plan

**LMD
Officers:**

Chair: Linnea Madison

**Vice
Chair: Tom Sparks**

Recorder: Dave Kangiser

For more information, visit: www.ci.tumwater.wa.us/BLMD.htm

The following tasks are scheduled around regular Committee meetings.

Unforeseen circumstances may delay completion milestones.

January / February (Meeting date: January 29)

1. Submit 2025 Annual Work Plan & Operating Budget for Council review and approval.
2. Review Steering Committee Appointments; announce vacancies as necessary.
3. Distribute LMD Member Newsletter in March
4. Review SOP for volunteer monitoring program.

March / April (Meeting date: April 9)

1. Update/acquire supplies for water quality monitoring program.
2. Complete training of volunteers for summer water quality monitoring program.
3. Submit a revised roll of rates and charges to Tumwater Finance Department, as necessary.

May / June (Meeting date: May 14)

1. Conduct chemical treatment(s) on lake if possible (dependent on growth & water levels.)
2. Contractor to provide floating mats management as necessary.
3. Conduct an aerial photo assessment of the lake, as conditions permit.
4. Draft RFQ for IAVMP Update
5. Conduct May round of water quality monitoring.
6. Conduct June round of water quality monitoring.

July / August (No meeting)

1. Conduct shoreline treatment(s) as needed
2. Conduct chemical treatment(s) on lake as needed
3. Issue RFQ for IAVMP Update/Interview consultants
4. Conduct July round of water quality monitoring.
5. Conduct August round of water quality monitoring.

September / October (Meeting date: October 8)

1. Conduct follow-up aerial photo assessment of lake, as conditions permit.
2. Conduct September round of water quality monitoring
3. Conduct final round of water quality monitoring.
4. Issue contract to IAVMP contractor
5. Review permit compliance needs and requirements for 2026.
7. Review budgetary needs for 2026.
8. Steering Committee's Annual Lake "Walk About" **(September 10)**

November / December (Meeting date: November 12)

1. Develop 2026 Work Plan based on 2025 needs and available budget.
2. Develop draft Operational Budget for 2025.
3. Finalize meeting schedule for 2026.
4. Annual election of Steering Committee officers – Chair, Vice-Chair, Recorder.
5. Update water quality summary report with 2025 data.

2025 Budget

2025							
ACCOUNT DESCRIPTION	BUDGET	TRANFRS/ ADJSMTS	REVISED BUDGET	YTD ACTUAL	AVAILABLE BUDGET	%	USED
SPECIAL ASSESSMENTS	\$ 292	\$ -	\$ 292	\$ -	\$ 292	0%	
OFFICE SUPPLIES	\$ 350	\$ -	\$ 350	\$ -	\$ 350	0%	
OPERATING SUPPLIES	\$ 1,500	\$ -	\$ 1,500	\$ -	\$ 1,500	0%	
PROFESSIONAL SERVICES*	\$ 39,500	\$ -	\$ 39,500	\$ -	\$ 39,500	0%	
<i>AquaTechnex</i>	\$ 17,000	\$ -	\$ 17,000	\$ -	\$ 17,000	0%	
<i>IAVMP Update</i>	\$ 15,000	\$ -	\$ 15,000	\$ -	\$ 15,000	0%	
<i>Laboratory Services</i>	\$ 7,500	\$ -	\$ 7,500	\$ -	\$ 7,500	0%	
MISC - LICENSES PERMITS & FEES	\$ 750	\$ -	\$ 750	\$ 1,080	\$ (330)	144%	
FINANCE / RECORDS MGMT SVCS	\$ 2,040	\$ -	\$ 2,040	\$ -	\$ 2,040	0%	
LMD OPERATING RESERVE	\$ -	\$ -	\$ -	\$ -	\$ -	0%	
TOTAL EXP	\$ 44,432	\$ -	\$ 44,432	\$ 1,080	\$ 82,560	2%	
BEGINNING FUND BALANCE	\$ 58,000	\$ -	\$ 58,000	\$ 58,000			
MISC CREDITS	\$ -	\$ -	\$ -	\$ -			
ASSESSMENTS	\$ 21,034	\$ -	\$ 21,034	\$ -			
TOTAL REV	\$ 79,034	\$ -	\$ 79,034	\$ 58,000			
FUND BALANCE	\$ 34,602		\$ 34,602	\$ 56,920			

* Professional Services include contract services, community outreach, and water quality monitoring.

2025 EXPENSE DETAIL			
VENDOR	ACCOUNT	DATE	EXPENSE
City of Tumwater - SEPA	MISC - LICENSES PERMITS & FEES		\$ 880.00
City of Tumwater - JARPA Review	MISC - LICENSES PERMITS & FEES		\$ 200.00
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TOTAL			\$ 1,080.00