



## **BARNES LAKE MANAGEMENT DISTRICT MEETING AGENDA**

**Online via Zoom**

**Wednesday, February 16, 2022  
6:00 PM**

1. Call to Order
2. 6 PM - Introductions and Agenda Review
3. Approval of Minutes
  - [a.](#) January 12, 2022 Steering Committee Meeting Minutes
4. Public Comment
5. Member Comment
6. Lake Management
  - [a.](#) NWAES 2022 Scope of Work and Contract (Smith)
  - [b.](#) Lake Access Agreement (Smith)
  - [c.](#) Lake Levels (Kangiser)
7. General Business
  - [a.](#) 2022 Work Plan (Smith)
  - [b.](#) 2022 Budget (Smith)
  - [c.](#) Member Outreach Newsletter Updates (Assigned Committee Members)
  - [d.](#) Listening Session Preparation (Bodeush/Smith)
5. Next Meeting Date - 03/09/2022
6. Adjourn

### **Remote Meeting Information**

To comply with Governor Inslee's Proclamation 20-28, the City of Tumwater meetings will be conducted remotely, not in-person, using a web-based platform. The public will have telephone and online access to all meetings.

#### **Watch Online - Join Zoom**

Meeting <https://us02web.zoom.us/j/85670164155?pwd=cURzNVFWRVBNSVFjQWZJSFNMWWt6Zz09>

Meeting ID: 856 7016 4155

Passcode: 714240

#### **Listen by Telephone**

Call (253) 215-8782, listen for the prompts and enter the Meeting ID 856 7016 4155 and Passcode 714240.

**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 Clerk by calling (360) 252-5488 or email [CityClerk@ci.tumwater.wa.us](mailto:CityClerk@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. To contact the City's ADA Coordinator directly, call (360) 754-4128 or email [ADACoordinator@ci.tumwater.wa.us](mailto:ADACoordinator@ci.tumwater.wa.us).



## BARNES LAKE MANAGEMENT DISTRICT MEETING MINUTES

Wednesday, January 12, 2022  
6:00 PM

### 1. Call to Order

*Committee Members: Gary Bodeutsch (Chair), Linnea Madison (Co-Chair), Lalani Shelton, Dana Day, Tom Sparks, Kathy Peterson, Judith Loft, Dave Kangiser (Water Resources Specialist), Dan Smith (Water Resources and Sustainability Director).*

*Guests: Tom Oliva, Doug Dorling (NWAES Consultant)*

### 2. 6 PM – Introductions and Agenda Review

*Member Peterson requested a footer (date and page number) included in future Minutes. She would also like to include the diagrams, figures, or images at the end of the minutes.*

### 3. Approval of Minutes

#### a. November 10, 2021 Steering Committee Meeting

*Member Shelton motioned to accept the minutes as written. Member Day seconded the motion and the vote to adopt the November 10, 2021 meeting minutes was unanimous.*

### 4. Public Comment

*LMD Member Tom Oliva suggested that the Board consider increasing its outreach to ratepayers, as popular support will be crucial for a rate increase and eventual renewal of the LMD. Even if members rarely respond to emails, they may very well follow Board member packets, minutes, reports and other documentation on the website, and eventually engage. The advertising industry understands that frequency is the key to marketing effectiveness. Tom agrees that the annual assessment is overdue for adjustment, as the dollar has lost more than a quarter of its buying power since 2006. Member Oliva also submitted suggested some edits to the proposed newsletter via email. This email is attached to the minutes.*

### 5. Member Comment

*Member Peterson encouraged public input through Constant Contact to participate in the BLMD meetings and help people understand about the lake and what rates go towards.*

*Member Madison thanked City Staff for checking the lake levels and drainage system. Specialist Kangiser explained that the lake drainage system was working properly, but at full capacity.*

*Thank you to Member Madison for putting together the Barnes Lake Illuminated Parade (BLIP).*

*Member Peterson asked Specialist Kangiser to send out a link to the meeting prior to the meeting. Specialist Kangiser will send out future meeting agendas and zoom links to the steering committee prior to the meeting.*

*Constant Contact question: Has anything been sent through Constant Contact? How many people have been signed up? More info is needed to trust this is a good source to receive information. Specialist Kangiser replied that the Barnes Lake Constant Contact email list serve is set up, and anyone can sign up for “eNotifications” at the link below:*

*<https://www.ci.tumwater.wa.us/departments/executive/stay-connected/e-notifications>*

*Member Shelton says she waded into the lake today and it was cold!!*

## 6. Lake Management

### a. 2021 Treatment Program Update (Dorling)

*2021 is the first year after fluridone treatment. Contractor Dorling concentrated efforts on spraying shorelines for lily pads. There was a late season lily pad growth in 2021, so the recommendation for 2022 is to launch smaller boat later in the season to get a treatment later in the season. Water levels are often limiting boat access for late season applications. The first application happened when lily pads are under the water, specifically brasenia.*

*Member Bodeutsch noticed the first part of August there was lily pad growth. The aerial survey in October revealed the late season growth.*

*In 2022, NWAES would need to concentrate on controlling submerged vegetation. The late spring survey will direct treatment strategies.*

### b. Floating Mats Management (Dorling)

*Contractor Dorling had seen photos of floating mats in the conservancy site. The LMD is not focused on mat removal, but Contractor Dorling can push them to property owners who want them. Mats break loose as water level rises. Nutria could be affecting mats by their burrowing nature and detach smaller floating mats from the larger floating islands. I*

*Member Madison posted photos of a mat but it most likely was a chunk of island. Two large beaver lodges are on the main part of island. Channels created by beavers could detach chunks of islands. Contractor Dorling stated that the budget cannot afford large scale mat removal. Mats that are currently on the lake seem denser than previous mats and may be more difficult to break up or remove. The difference could be the vegetation composition the mat is made of.*

### b. Lake Access Improvement Update (Dorling)

*Contractor Dorling has encountered problems with contractors soliciting bids. Small landscape companies don't have equipment to remove stumps and larger businesses don't want to manually install rocks for the access. Two different companies may have to be hired to remove stumps and install rocks at access. NWAES will attempt to improve access during Spring 2022.*

*Cost estimates are around \$2,000 - \$3,000.*

*Member Peterson asked if there could be an alternative launch site depending on the size of the boat for fall treatments. Contractor Dorling replied the boat is about 10 feet long and alternative access is not likely needed.*

### c. Lake Levels (Kangiser)

*Specialist Kangiser shared that lake levels highest they have been since 2017. Data has not been collected at the automated lake level gauge since October, but a visual gauge reading at the old site revealed lake levels at 155.61 ft. The berm and flexible leveler for beaver control is*

at 154.82 ft. Member Sparks invited Specialist Kangiser to download data from the Condo's shoreline. Specialist Kangiser will follow up with Member Sparks to complete the download.

Specialist Kangiser shared some photos of the recent storm event that caused flooding throughout the City.

Specialist Kangiser shared rainfall data from 2021 and 2022. Olympia has seen above normal rainfall for the 2021 2022 water year starting in October.

## 7. General Business

### a. 2021 Budget, Assessment and Work Plan (Smith)

<b>Expense Budget</b>		<b>Barnes Lake Management District 2022</b>			
		<b>PROJECT # 2022005</b>			
<b>Administrative</b>		<b>Budget</b>	<b>Actual</b>	<b>\$ Balance</b>	<b>%</b>
COT Admin	120.30.538.300.91.01	\$ 2,000	\$ -	\$ 2,000	100%
Printing / Supplies	120.30.538.300.31.00	\$ 500	\$ -	\$ 500	100%
Misc Admin	120.30.538.300.31.00	\$ 250	\$ -	\$ 250	
<b>Operating</b>		<b>Budget</b>	<b>Actual</b>	<b>\$ Balance</b>	<b>%</b>
Contract Services	120.30.538.300.41.08	\$ 11,055	\$ -	\$ 11,055	100%
Vegetation Survey & Mapping		\$ 2,155	\$ -		
Vegetation Treatment		\$ 6,500	\$ -		
Floating Mat Management		\$ -	\$ -		
Admin Services*		\$ 2,400	\$ -		
Public Outreach	120.30.538.300.33.00	\$ 500	\$ -		
Water Quality Monitoring	120.30.538.300.41.08	\$ 1,800	\$ -	\$ 1,800	
NPDES Permit Fee	120.30.538.300.49.18	\$ 700	\$ -	\$ 700	100%
Misc Operating	120.30.538.300.33.00	\$ 500	\$ -	\$ 500	100%
Operating Reserve		\$ -	\$ -	\$ -	
<b>Total Expenses</b>		<b>Budget</b>	<b>Actual</b>	<b>\$ Balance</b>	<b>%</b>
		\$ 17,305	\$ -	\$ 17,305	100%
<b>Total Income</b>		<b>Budget</b>	<b>Actual</b>		
Assessments		\$ 17,305	\$ -		
Misc Credits		\$ -	\$ -		
Fund Balance from Previous Year / Reserves		\$ 9,140	\$ 9,140		
<b>Total</b>		<b>\$ 26,445</b>	<b>\$ 9,140</b>		
<b>Fund Balance</b>		<b>\$ 9,140</b>	<b>\$ 9,140</b>		

The 2022 Work plan is in development and will be available for the next meeting.

The 2022 Work Plan will include:

- New contract with NWAES
- New budget
- Assessments including outreach strategies.
- Newsletter – Review with Communications Director Ann Cook and subcommittee to refine language. By end of January.

- *Get ready for listening session on March 2. Develop talking points goals, forecasts, justifications*

b. Member Outreach Newsletter Assignment Updates (Assigned Committee Members)

*Communications Manager Cook will contact Subcommittee (Members Peterson, Sparks, Bodeutsch, Loft, and Madison) to refine newsletter language.*

*Member Peterson will post a summary of this Steering Committee meeting including consideration of a rate increase on the Barnes Lake Conservancy Facebook page.*

*Can we hide the Steering Committee's email addresses or have alternative contact info? Dan is currently Point of Contact for LMD inquiries. Committee Members shared concerns that not having direct contact to LMD Representatives could weaken relationships with neighbors.*

c. Rate Increase Subcommittee Update (Peterson)

*Member Peterson asked Committee members about any discussions they may have had with neighbors on the proposed assessment increase. Member Shelton noted those she spoke with expressed an interest in continuing to take care of the lake; however there is a general concern as property taxes continue to rise and the proposed assessment increase can create additional financial burdens for LMD members. Member Madison noted that she has heard both support and reluctance from her neighbors.*

*Member Peterson had a question about using the term "static" when describing rate increases. The term "Static" refers to the 5% rate increase. The rates will increase 5% a year. Committee Members wanted to be clear in communicating that 5% increase each year. There has been support for rate increases but not enthusiastic support.*

*Member Sparks noted that there is a need to include projection of costs in messaging to the LMD to justify rate increases. It is hard to ask for rate increase when there are budget surpluses.*

*Member Peterson motioned for the Feb. 16 meeting be used to prepare for listening session and March 2 be listening session. A vote was taken and was unanimous to carry the motion. The new tentative schedule for spring 2022 is as follows:*

*February 16 – Listening Session Preparation*

*March 2 – Listening Session*

*March 9 - regular meeting*

*March 17 – Public Works Committee meeting*

*April 5 - goal for presenting to Council*

d. South Neighborhood Committee Member Vacancy Update

*Committee members Eileen Sawyer and Bob Gillette have resigned from the BLMD Committee. Ms. Sawyer and Mr. Gillette both served the "South" neighborhood, with Member Gillette serving for over 10 years.*

*Member Sparks will discuss Committee Member Vacancy at the February 5<sup>th</sup> Condo Association meeting. There is a goal for the Condo Association to increase interest in condo owners in lake. Dock replacement could be catalyst for Condo residents to regain interest in the lake.*

*A Letter of Appreciation or some kind of recognition would be appreciated for Committee Members and might help recruit for vacancies.*

## e. Open Public Meetings Act Discussion

*Director Smith discussed Open Public Meetings Act (OPMA). Members Weaver and Shelton are only ones that do not have to renew certification. The state agency that regulates OPMA will provide training for OPMA Jan. 25 at 5:30 on Zoom. There is also a PowerPoint training. If Committee members opt to review the PowerPoint presentation, they will need to send Director Smith a statement saying they took the training for City records. Director Smith will send out invitation to the online training and PowerPoint to all Committee Members. It is a 2-year certification.*

## f. COVID-19 Vaccine Mandate Discussion

*Director Smith reviewed the City's new policy regarding a vaccine mandate for City volunteers and commissioners for in person meetings. A paper copy of vaccination status or vaccination cards must be mailed in or dropped off at City Hall before attending a LMD meeting in-person. Copies of vaccine cards may be mailed to Tumwater City Hall, attention James Trujillo, Administrative Services Director, 555 Israel Road SW, Tumwater, WA 98501.*

## 8. Adjourn

7:51 PM

Upcoming Meeting Dates	
February 16 – Listening Session preparation	March 2 – BLMD Listening Session
March 9 – Regular BLMD Meeting	March 17 – Public Works Subcommittee Meeting
April 5 – BLMD present rate increase to City Council	

Attachments: Tom Oliva Newsletter comments and suggestions

Photos and data of rain event from January 6, 2022

**From:** [jpeterso49@aol.com](mailto:jpeterso49@aol.com)  
**To:** [tom\\_oliva@hotmail.com](mailto:tom_oliva@hotmail.com)  
**Cc:** [countrylrs@gmail.com](mailto:countrylrs@gmail.com); [danad1945@gmail.com](mailto:danad1945@gmail.com); [Dan Smith](#); [David Kangiser](#); [gary\\_bodeutsch@hotmail.com](mailto:gary_bodeutsch@hotmail.com); [jpeterso49@aol.com](mailto:jpeterso49@aol.com); [jswander@aol.com](mailto:jswander@aol.com); [jude.loft@gmail.com](mailto:jude.loft@gmail.com); [linneamadison@comcast.net](mailto:linneamadison@comcast.net); [pondweeds@comcast.net](mailto:pondweeds@comcast.net); [rustyw087@gmail.com](mailto:rustyw087@gmail.com); [spoumit@gmail.com](mailto:spoumit@gmail.com)  
**Subject:** FWD: Tom Oliva comments on LMD issues  
**Date:** Tuesday, January 18, 2022 7:49:29 AM  
**Attachments:** [image.png](#)

---

Tom, your comments on the proposed rate increase and Newsletter are much appreciated, I'll share them the BLMD Steering Committee. It's always good to have input from the Founder of the Conservancy that got this whole LMD started! I can't believe how long it's been since we've been at this. Kathy Peterson

-----Original Message-----

From: Tom Oliva <[tom\\_oliva@hotmail.com](mailto:tom_oliva@hotmail.com)>  
 To: Kathy & Jim <[jpeterso49@aol.com](mailto:jpeterso49@aol.com)>  
 Sent: Sun, Jan 16, 2022 10:39 pm  
 Subject: LMD issues

Hi Kathy -

It was great to catch up with you today on Barnes Lake issues.

My public comment at the Wednesday BLMD meeting was something to the effect of the following:

"Tom Oliva suggested that the Board consider increasing its outreach to ratepayers, as popular support will be crucial for a rate increase and eventual renewal of the LMD. Even if members rarely respond to emails, they may very well follow Board member packets, minutes, reports and other documentation on the website, and eventually engage. The advertising industry understands that frequency is the key to marketing effectiveness. Tom agrees that the annual assessment is overdue for adjustment, as the dollar has lost more than a quarter of its buying power since 2006."

(Here is a link to that last note about the loss of buying power: <https://www.in2013dollars.com/us/inflation/2006>)

I reviewed the draft newsletter you sent me Wednesday afternoon, and have the following notes and potential edits for your consideration:

1. Page 1 says that the LMD became official in 2005, but it was actually adopted by City Council on Dec 7, 2004, with Ordinance O2004-41.
2. The reader may be interested to know that the annual assessment has not increased since collections originally began. Meanwhile, inflation has reduced the buying power of the dollar by more than 25%.



3. People might also be interested to know that total assessments are only about \$18,000. That does not buy very much in the way of products and services.
4. On page 2, the "5% increase in yearly fees" was not clear that that would be a "5% annual increase in yearly fees."
5. It was not clear in the draft who approves a revision in the LMD rates, leaving some readers to assume that they vote on it. I believe it's up to the City Council.
6. On page 3 there is a reference to the 'Barnes Lake Condos.' Please revise that to 'Barnes Lake Park Condos,' as there are also condos on Lark Street (known as 'Barnes Lake East').

For your information, below is the detail of rates and charges. This was the original proposal (per my files), and it may have changed slightly with adoption but it's close enough for modeling. Attached to this message is a spreadsheet showing the effect of a 5%, 4% and 3% annual increase in rates. At 5%, the assessment just about doubles by the end of the LMD term. That may be a lot to ask, although we should be clear that there are discounts for eligible low-income seniors.

I'd also suggest that it's a little unusual to increase a fee and then immediately begin charging it. Typically, governments provide a short courtesy period to allow households to adjust their budgets for new taxes or charges. It might be more politic to propose a 4% annual increase, starting in 2023. That would also allow the city to send out 2022 invoices immediately, which would be good in case the rate revision process drags out (which would not surprise me given staff and council workloads).

Just my two cents. Please share as appropriate.

-Tom

<b>Property Classification, Rates and Charges</b>				
	<b>Rate</b>	<b>Weighting</b>	<b>Est. Charge/ Year</b>	<b>Est. Total # Units      Estimated Revenue</b>
1	Residential with private frontage	1.0	\$243.00	26      \$6,318
2	Undeveloped residential with frontage	0.5	\$121.50	2      \$243
3	Public or Commercial	2.0	\$486.00	3      \$1,458
4	Condominium with lake view	0.8	\$194.40	26      \$5,054
5	Condominium without lake view	0.4	\$97.20	45      \$4,374
6	Residential with lake view, no frontage	0.4	\$97.20	<u>6</u> <u>\$583</u>
	<b>Totals</b>			108      \$18,031



# Rain on Snow Event January 6-7, 2022





# How wet has it been?

Rainfall Totals	2022	normal	departure from normal	2021
Month to date (1/11/2022)	7.76"	2.6"	5.16"	5.6"
since October 1, 2021	34.14"	23.73"	10.41"	26.03"

Date	rainfall amount	high temp	low temp
January 1, 2022	0	36 F	7 F
January 2, 2022	1.15"	44 F	35 F
January 3, 2022	.89"	44 F	30 F
January 4, 2022	.17"	41 F	33 F
January 5, 2022	.58"	40 F	34 F
January 6, 2022	<b>3.99"</b>	<b>53 F</b>	34 F
January 7, 2022	.78"	50 F	37 F







# More water than we have seen in a while...



Linwood Regional Pond  
built for a 100 year storm



## Tumwater Valley Golf Course





## Tumwater Valley Golf Course and Pioneer Park







River's Edge and Tumwater  
Valley Athletic Club



# Pioneer Park





## Tumwater Falls





Flexible Leveler and the berm  
were under water

Highest lake levels since 2017:  
155.61'

Berm Height :  
154.82



## EXHIBIT A

### DRAFT 2022-2023 Scope of Work

#### City of Tumwater & Barnes Lake Management District

#### Vegetation Management & Control Program

Northwest Aquatic Eco-Systems  
855 Trosper Road SW 108 -#313  
Tumwater, WA 98512  
360-357-3285

### Introduction

The program presented herein by Northwest Aquatic Eco-Systems (NWAES) represents the most up to date methods for aquatic plant control associated with nuisance vegetation. The key elements of this program include the following:

- Aquatic Vegetation Survey & Mapping
- Drone Video Survey
- Vegetation Treatment
- Debris Removal Project Planning, Permitting & Implementation
- Reporting

Additional work, as either requested by individual members of the Barnes Lake Management District (LMD) or by the City of Tumwater (CITY), shall be invoiced per the costs and terms outlined herein. This scope of work expires on January 31, 2024.

*NWAES is not a registered agent for any materials that have been selected to treat nuisance vegetation.*

### Aquatic Vegetation Survey & Mapping

This task includes both field sampling and digital vegetation surveys and mapping.

#### *Field Sampling*

The spring 2022 survey will incorporate the same protocol and equipment utilized during past surveys. Survey locations will first be established at various locations throughout the lake. At each point a rake will be dragged across the lake bottom and all plants collected on the rake will be identified and documented. Additional surveys will be conducted at these same locations to help the LMD understand trends in the macrophyte composition. A shift in the composition may prompt additional control activities.

#### *Digital Vegetation Survey & Mapping*

During the field sampling component described above, NWAES will employ sonar technology and BioBase software to generate the following:

- Weed density map
- Bathymetric contours map
- Sediment composition map
- Vegetative report identifying weed density at different depths

Sonar transects will be spaced approximately 50 feet apart to ensure accurate mapping. Maps produced will be similar in terms of extent and appearance to maps generated in previous years. Spatial data (compatible with ArcGIS) resulting from the surveys will be made available to the city. Optimum performance from the sonar logs occurs in water depths three feet and greater. For this reason, surveys should be performed during high water when the greatest lake access is available.

Digital surveys will be complete by June 30<sup>th</sup> each year. Digital maps and hard copies will be provided to the CITY no later than July 31<sup>st</sup> to ensure data is available for other LMD uses.

### **Drone Video Survey**

The most efficient way to evaluate the long term progress of this project is through a video survey. A video survey of the lake will be conducted, via drone, a minimum of two times annually— once generally between mid-May and mid-June, and before chemical treatments (if any) are applied, and once following all applications in early October or when best determined by professional judgement to demonstrate results of the treatment or seasonal progression. NWAES will make the appropriate arrangements to complete this task and present results to the CITY and LMD.

### **Vegetation Treatment**

2022 will be the second year following the 2020 lake-wide fluridone application. It is anticipated that only limited spraying will be required. One shoreline spraying for residual floating plants along residential shoreline areas is scheduled. This application will consist of a 1% solution of imazapyr, applied during late June or early July just prior to the time when boat access is no longer available. No submersed weed control is anticipated for 2022.

2023 will be the third year following the 2020 fluridone application. Once again a mid-season floating plant spray similar to the 2022 campaign likely will need to occur. The goal is to target limited minor infestations in an effort to avoid explosive growth noted during the 2020 season. 2023 may also produce isolated areas of submersed weed growth resulting from seeds deposited into the lake via waterfowl. Not all areas of the lake would be targeted just those that hinder access out into the main water body. Aquathol K may be applied at a 3.0 ppm rate to address submersed weed growth as necessary. Costs associated with floating plant control would be similar to the 2022 expenses noted above. Material costs for submersed weed control with Aquathol K, \$700.00/acre.

## Reporting

Following each treatment season, a draft final report (1 copy) will be submitted to the CITY for review by the CITY and the LMD. The draft will be received by **November 30** each year and shall summarize each year's program. The draft final report shall address the following elements:

- Detailed maps reflecting treatment activities and locations.
- Detailed description of the equipment and methods used for all treatment activities.
- Estimated acres of each type of aquatic weed removed.
- Estimated acres of each type of aquatic weed undergoing herbicide treatment.
- An estimate of the total percentage of the lake bed covered by native aquatic vegetation.
- A copy of the NPDES permit, copies of public notification and notification dates, and Pesticide Application Records.
- A summary of the current vegetation management program and recommendations for management actions in future years.

The CITY and LMD will return comments following review by the LMD Steering Committee. NWAES will incorporate comments, if any, and provide three (3) bound copies of the final report to the CITY by **December 31** of each year.

## As-Needed Shoreline Treatment

Thanks to the effectiveness of the past Fluridone treatment there are no specific lake-wide vegetation treatments prescribed for this contract; the next anticipated application of Fluridone is 2024. However, the LMD is prepared to engage NWAES in as-needed shoreline treatments. The costs for one day of submersed vs. emergent weed control activities are shown below. The feasibility of these treatments are dependent on lake water levels and accessibility. The CITY and LMD reserve the right to modify the type and quantity of vegetation treatments to ensure funds exist to achieve higher priority goals for lake management.

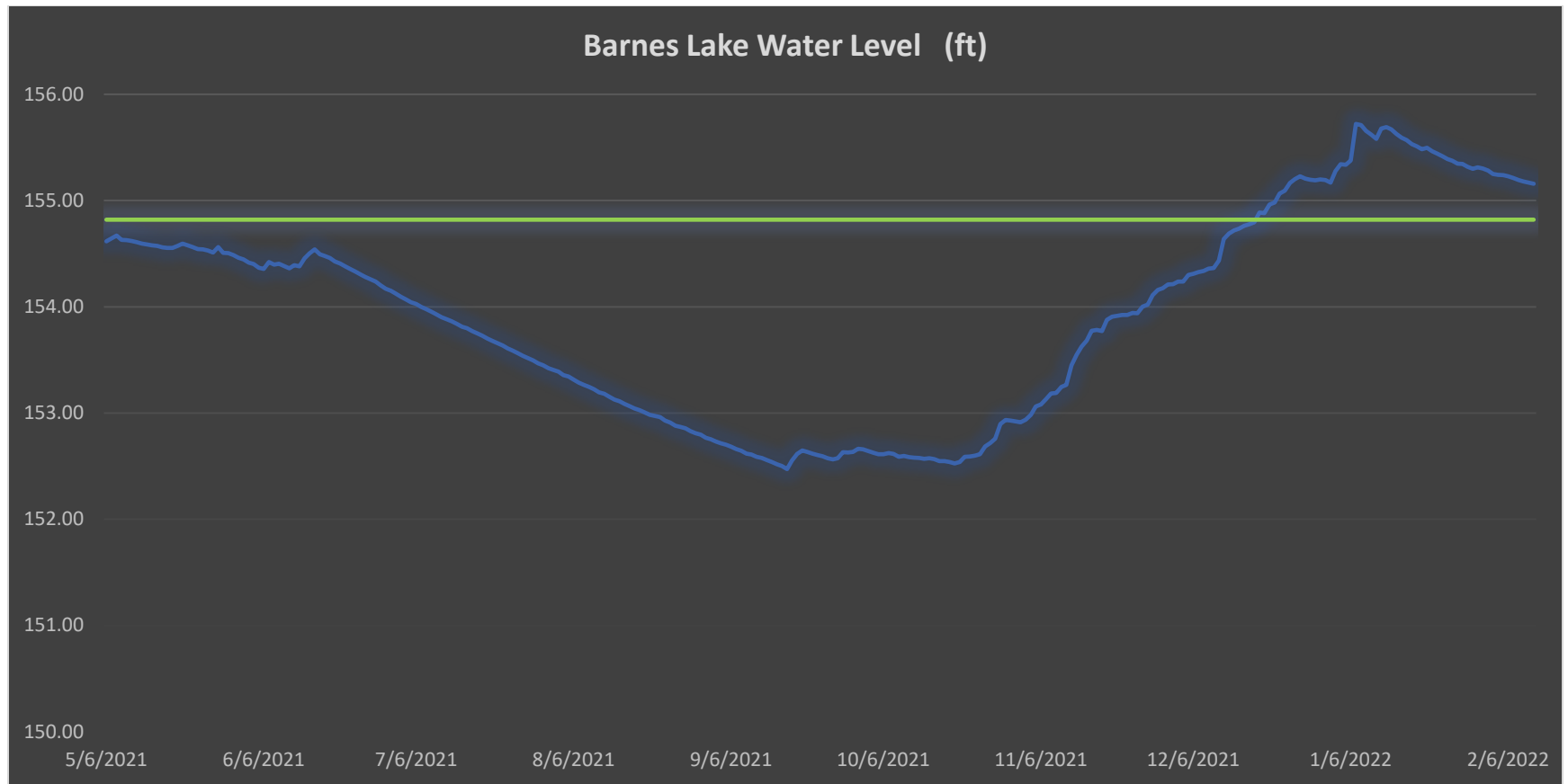
Treatments will be conducted by a Washington Department of Ecology (DOE) licensed applicator using equipment licensed by the Washington State Department of Agriculture. All equipment will be "sea-worthy" meeting all of the standards established for boating vehicles. A CITY and/or LMD representative is encouraged to monitor the treatment and confirm that appropriate equipment and materials are being utilized at the site.

NWAES will coordinate treatment dates with the CITY to minimize any potential disturbance to the surrounding residents or use of the waterbody and to ensure all residents receive proper notification. NWAES will complete all public notification as required by CITYs Aquatic Vegetation Management Permit, issued by DOE.

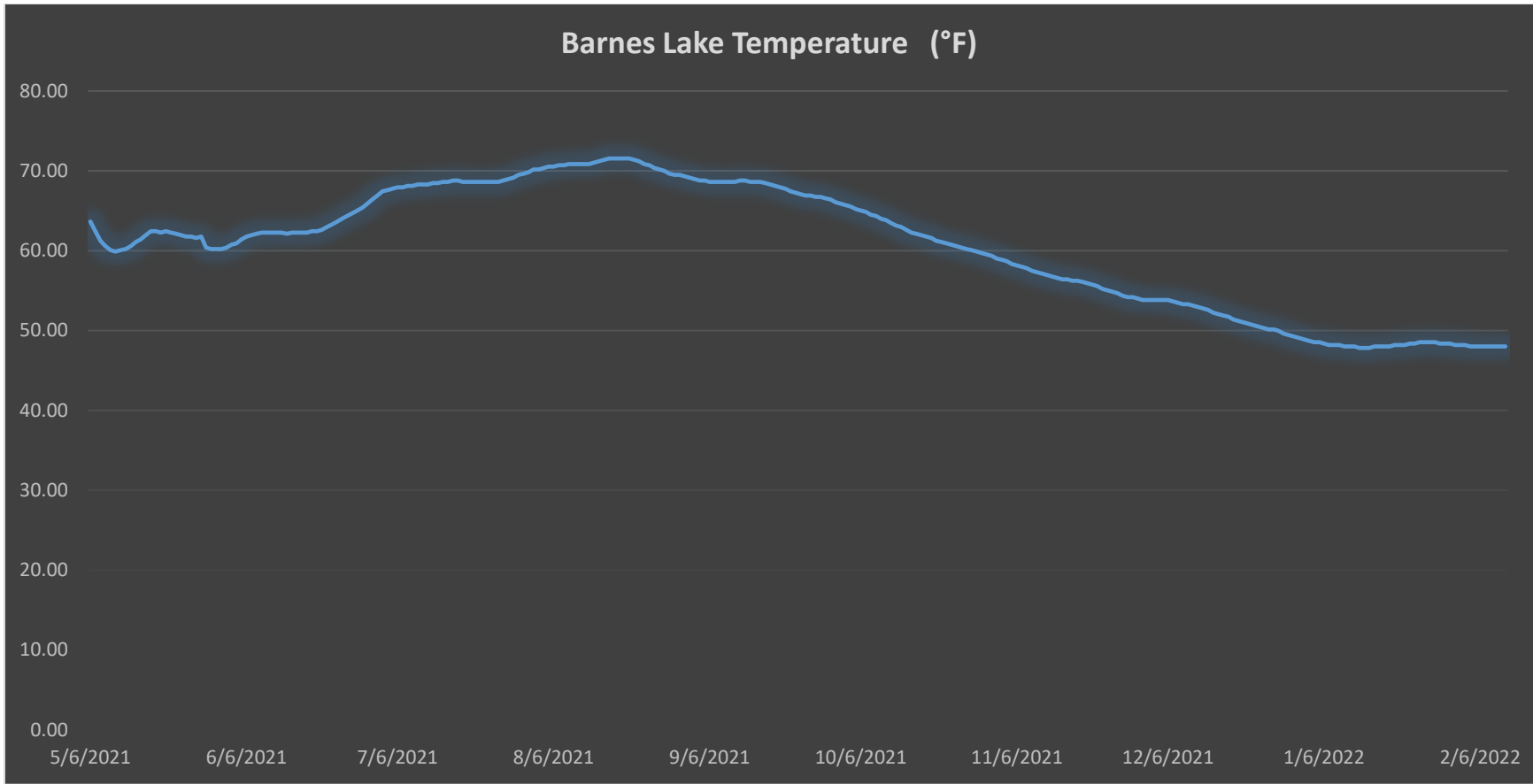
**Aquatic weed control is a biological science that produces variable results. When dealing with noxious species eradication is often difficult to quantify results due to the possibility of re-introduction of the targeted plant back into the system while treatments are not conducted.**

NWAES will guarantee that all treatment dates as specified and transmitted to the local residents will be met. NWAES will forfeit to the LMD/CITY \$500.00 per missed treatment event or reporting deadline.

NWAES shall submit invoices for services regularly – no more frequently than once per month. All invoices for the calendar year shall be submitted no later than December 31.









## Barnes Lake Management District – 2022 Work Plan

For more information, visit: [www.ci.tumwater.wa.us/BLMD.htm](http://www.ci.tumwater.wa.us/BLMD.htm)

The following tasks are outlined by month. Unforeseen circumstances may delay completion as expected.

### January / February

1. ☐ Review 2021 Treatment Summary Report and update IAVMP and work plan as needed
2. ☐ Submit 2022 Annual Work Plan & Operating Budget for Council review and approval
3. ☐ Prepare, review and distribute Member Outreach materials to be distributed in March
4. ☐ Update and execute vegetation treatment contract for Northwest Aquatic Eco-Systems
5. ☐ Review SOP for volunteer monitoring program

### March / April

1. ☐ Host listening session for LMD membership to discuss proposed fee increase
2. ☐ Distribute outreach materials to LMD members relating to 2022 work plan, budget, schedule, and 2021 Treatment Summary Report.
3. ☐ Update/acquire supplies for water quality monitoring program
4. ☐ Complete training of volunteers for summer water quality monitoring program
5. ☐ Begin "Private Lake Treatment" opportunity outreach efforts
1. ☐ Conduct City Council reviews of proposed assessment increase.
2. ☐ Submit revised roll of rates and charges to Tumwater Finance Department, as needed
6. ☐ Communicate updates to finance for distribution of revised assessment letters.

### May / June

1. ☐ Conduct chemical treatment(s) on lake if possible (dependent on growth & water levels)
2. ☐ Contractor to provide floating mats to volunteer property owners for removal, as available.
3. ☐ Conduct aerial photo assessment of lake, as conditions permit
4. ☐ Review Steering Committee Appointments; announce vacancies as needed
5. ☐ Conduct May round of water quality monitoring
6. ☐ Conduct June round of water quality monitoring
7. ☐ Steering Committee's Annual Lake "Walk About"

### July / August

1. ☐ Conduct shoreline treatment(s) on lake if possible (dependent on growth & water levels)
2. ☐ Conduct chemical treatment(s) on lake if possible (dependent on growth & water levels)
3. ☐ Conduct July round of water quality monitoring
4. ☐ Conduct August round of water quality monitoring

### September / October

3. ☐ Conduct follow-up aerial photo assessment of lake, as conditions permit
4. ☐ Deliver "End-of-Season" update outreach materials for LMD Stakeholders via web and US Mail
5. ☐ Conduct September round of water quality monitoring
6. ☐ Conduct final round of water quality monitoring
7. ☐ Update water quality summary report with 2022 data
8. ☐ Review permit compliance needs and requirements for 2023
9. ☐ Review budgetary needs for 2023

### November / December

1. ☐ Develop 2023 work plan based on 2022 activities, LMD needs and available budget
2. ☐ Develop draft Operational budget for 2023
3. ☐ Finalize meeting schedule for 2023
4. ☐ Annual election of Steering Committee officers – Chair, Vice-Chair, Recorder

**Expense Budget**Barnes Lake Management District **2022**

PROJECT # 2022005

Administrative		Budget	Actual	\$ Balance	%
COT Admin	120.30.538.300.91.01	\$ 2,000	\$ -	\$ 2,000	100%
Printing / Supplies	120.30.538.300.31.00	\$ 500	\$ -	\$ 500	100%
Misc Admin	120.30.538.300.31.00	\$ 250	\$ -	\$ 250	
Operating		Budget	Actual	\$ Balance	%
Contract Services	120.30.538.300.41.08	\$ 11,055	\$ -	\$ 11,055	100%
Vegetation Survey & Mapping		\$ 2,155	\$ -		
Vegetation Treatment		\$ 6,500	\$ -		
Floating Mat Management		\$ -	\$ -		
Admin Services*		\$ 2,400	\$ -		
Public Outreach	120.30.538.300.33.00	\$ 500	\$ -		
Water Quality Monitoring	120.30.538.300.41.08	\$ 1,800	\$ -	\$ 1,800	
NPDES Permit Fee	120.30.538.300.49.18	\$ 700	\$ -	\$ 700	100%
Misc Operating	120.30.538.300.33.00	\$ 500	\$ -	\$ 500	100%
Operating Reserve		\$ -	\$ -	\$ -	
Total Expenses		Budget	Actual	\$ Balance	%
		\$ 17,305	\$ -	\$ 17,305	100%
Total Income		Budget	Actual		
Assessments		\$ 17,305	\$ -		
Misc Credits		\$ -	\$ -		
Fund Balance from Previous Year / Reserves		\$ 9,140	\$ 9,140		
<b>Total</b>		<b>\$ 26,445</b>	<b>\$ 9,140</b>		
<b>Fund Balance</b>		<b>\$ 9,140</b>	<b>\$ 9,140</b>		