

City of Tumwater
Barnes Lake Management District
Steering Committee Meeting Minutes

April 9, 2008
6 p.m. – 8 p.m.

Tumwater City Hall
555 Israel Road SW
Tumwater, WA 98501

I. Call to order

Chair Peterson called to order the regular meeting of the Barnes Lake Steering Committee (BLMD-SC) at 6:00 p.m. on April 9, 2008 at the Tumwater City Hall.

II. Roll call

The following members were present: Chair Kathy Peterson, Vice-Chair Ron Lumaguip, Bill Baxter, Judith Loft, Bob Hayes, Rosemary Walsh and Staff Representative Smith. Gary Bodeutsch and John Swander were not present. Steven Morrison, Thurston Regional Planning Council was a guest attendee.

III. Additions to the Meeting Agenda: None

IV. Approval of minutes from last meeting

BLMD-SC members accepted the January 2008 meeting minutes previously via email.

V. Open Issues

a) Shoreline Management Plan Update

Steven Morrison, Thurston Regional Planning Council, presented on an update to the regional Shoreline Management Plan. Mr. Morrison stated that Barnes Lake was once a regulated lake under the plan at the onset of the program in the '70's, but somehow was taken off the list during a previous update. Since Barnes Lake fits the criteria for regulated waterways under the plan, the update will once again include the lake.

Mr. Morrison reported that TRPC completed a draft assessment of Barnes Lake. It is available on TRPC's website (see below for web links) and encourages everyone to take a look and provide any updates to him as needed.

In a nutshell, the Shoreline Management Plan regulates construction activities on and around the lake. Projects costing \$5,000 or more, new construction, activities needing a substantial development permit will be required to conform to the regulations cited in the plan.

Mr. Morrison provided some materials for the group to review. The following information was copied from TRPC's website for inclusion into the minutes:

What is happening?

The Cities of Lacey, Olympia, and Tumwater are in the midst of updating their policies and regulations for shorelines. This is required under the State’s Shoreline Management Act. The cities are doing this as a joint planning effort – coordinated by Thurston Regional Planning Council. They will also be working with Thurston County. They have received grant funding from the State Department of Ecology to assist them.

What is happening NOW?

The cities are completing Phase 1 and entering Phase 2 of their update.

Phase 1

- They have hired a consultant to help them determine what water bodies meet the criteria of shorelines to be regulated under the Shoreline Master Program
- They have completed a Preliminary Draft Inventory of Shorelines and have sent it out for review by a Scientific and Technical Advisory Group. The public is welcome to comment on this preliminary draft inventory – it can be downloaded from this site.
- They conducted the first round of Public Open Houses in February and March 2008.

Phase 2

- They have hired a consulting team to analyze and characterize shoreline conditions and functions

SMP Update Phases and Timeline for the Cities of Lacey, Olympia, and Tumwater

Phase	Plan Update Schedule	Timeline
1	<ul style="list-style-type: none"> • Determine what shorelines are regulated under the act • Conduct an inventory of all existing and available data for shorelines • Public Open Houses 	Winter 2008
2	<ul style="list-style-type: none"> • Analyze and characterize shoreline conditions 	Spring 2008
3	<ul style="list-style-type: none"> • Categorize each shoreline segment into a designation such as urban, suburban, or rural Each will have a different set of rules. • Develop draft rules and policies • Public meetings 	Fall 2008 Winter-Spring 2009
4	<ul style="list-style-type: none"> • Analyze the cumulative impacts of expected shoreline development or development • Develop a restoration (and preservation) plan, including public access 	Winter - Spring 2009
5	<ul style="list-style-type: none"> • Public hearings • Planning Commission recommendations • City Council approval • State approval 	Late 2009-2010

What is the Shoreline Management Act?

The Shoreline Management Act was adopted as a citizen referendum in 1972. It applies to all Shorelines of the State. The main goal of the act is to ensure that there is a balance in the uses of shorelines between reasonable development and economic activity, and preserving the public’s access and enjoyment of shorelines and water-related activities.

It does this by having local governments develop a Shoreline Master Program – a combined planning and regulatory document – that contains policies, goals, and specific land use regulations. The cities must have a new plan in place by 2011.

This update must also include policies that lead to no net loss of ecological function for shorelines and also restore degraded aquatic and marine habitat. Protecting water quality to ensure public safety is also a goal of the Shoreline Management Act.

Why are the updates happening now?

In 2003 the Washington State Department of Ecology (Ecology) adopted [guidelines](#) which required a new generation of shoreline planning. The guidelines required that all local jurisdictions in the state update their Shoreline Master Programs (SMP). Ecology sequenced the adoption of the SMPs to fit the seven year comprehensive plan update cycle required by the state Growth Management Act. The deadline for all local jurisdictions within the Thurston Region to update their SMPs is December 2011.

What are Shorelines of the State?

Shorelines include:

- All marine waters, as well as tidelands
- Lakes that are 20 acres or greater in size
- Streams and rivers with a mean annual flow of greater than 20 cubic feet per second
- Wetlands associated with the waters above
- Upland area stretching 200 feet from the water's edge
- Floodplains that extend more than 200 feet beyond the water's edge

The cities have the option to regulate wetland buffers and other critical area buffers under the plan.

What are the main benefits of the Shoreline Master Program?

- Planning for the future will help preserve our shoreline areas for future generations to enjoy. Preserving essential habitat and protecting water quality will keep local wildlife and fish healthy.
- Strategic development can enhance the local economy and increase the public enjoyment of our area's water resources.
- Careful planning will ensure an adequate supply of land for water-dependent uses such as ports and marinas.
- Careful planning will lead to fewer impacts from natural hazards such as floods.

Why should you get involved?

Whether you own a home or business on the shoreline, or enjoy the waters of the Puget Sound, how the cities manage our shorelines is important to you. You are encouraged to get on our mailing list, attend our workshops, and review and comment on each element of the plan as work progresses.

What rules are in place for shorelines now, before the update is complete?

All seven jurisdictions with shorelines in Thurston County have individually adopted a single regulatory and policy document. The existing [Shoreline Master Program for the Thurston Region](#) was adopted in 1976 and was comprehensively updated in 1984 and 1990.

b) Work Plan Update

Staff Rep Smith reviewed work completed to date under the 2008 Work Plan. Smith reported that the City Council reviewed and accepted the annual work plan and budget over the last month. To date, all elements of the work plan have been completed with the exception of the lake gauge installation. For that project, all the necessary survey information has been gathered and the actual gauge itself is on order. Smith will install the gauge when it arrives.

There was some discussion on moving some of the projects to different months to better coordinate with other events and Steering Committee preparedness. Smith will update and resend the revised work plan to the group.

c) **Weed Rake Purchased**

Staff Rep Smith stated that both a lake rake and weed cutter were purchased for use by LMD members. The equipment will be stored by the City and any Barnes Lake LMD member may request use of them. The equipment is to be owned and maintained by the Barnes Lake Management District. The City will provide storage and check-out authorization to any adult part of the LMD. Staff Rep Smith stated that the equipment will be available upon request by an LMD member to Public Works, although pre-arrangement with Staff Rep Smith or Chair Peterson is preferred.

Staff Rep Smith will prepare a check-out form and liability waivers to be signed by any user of the equipment. This equipment will not be provided to minors.

The cost of both units was \$182, paid for by the LMD.

d) **NWA Treatment Scope and Budget Review**

Smith confirmed the final scope and budget for the 2008 treatment season. Similar to last year, a conservative treatment approach will be undertaken to minimize the risk for upheaval of floating mats.

Earlier this year, Smith noted what appears to be some floating debris/mats that may have been a consequence of the 2007 treatments. Smith requested NWA evaluate the issue. Smith received a letter report from NWA on April 7, 2008 stating that NWA is unable to determine if the mats are solely related to the treatments. Regardless, NWA has recommended a pilot removal strategy that will be tested this year. Consensus from the Steering Committee was that the removal tests should happen earlier, rather than the late season removal suggested by NWA. The letter from NWA is posted on the Barnes Lake Website.

e) **Lake Level Gauge Installation Update**

Smith reported that the gauge installation is underway. The City surveyed a location on Bill Baxter's dock, the only location that actually extends into the water year-round. The Committee extended thanks to Mr. Baxter for his willingness to provide a location for the gauge.

Smith stated that the gauge itself is on order and will arrive in approximately two weeks.

f) **Budget and Assessment Update**

Smith provided the following update, as reported by the Finance Department. There are several properties that have not yet paid the assessments for 2008. Approximately 50% of the outstanding properties are those still owing for previous years. To date, \$13,964 has been collected, with \$3,341 outstanding.

Smith reported that the 2008 Barnes LMD Operating Budget was approved and adopted by the Tumwater City Council on April 1, 2008.

g) **LMD Support of City-sponsored Hydrologic Evaluation**

Staff Rep Smith provided an update of the Golder Assessment project. Smith spent the day in the field with a Golder team from Canada to conduct a bathymetric survey of Barnes Lake and collect sediment samples from varied locations around the lake.

The good weather permitted Smith and the Golder team to spend the entire day on the lake gathering the data. The sediment samples were collected near the shoreline of the Barnes Lake Condo Assn and WSDOT Materials Lab, the center of the lake and within 10-15 meters of the approximate stormwater outfalls. Smith stated the outfall locations are only approximately known since they are submerged. Golder recommended conducting a dye tracer survey to determine the actual location of the stormwater outfalls into the lake for future study efforts.

The bathymetric survey was conducted across the lake along varied transects using GPS and sonar technologies. The data immediately available revealed a very flat primary basin in the middle of the lake at a depth of 9-12 feet, coinciding with the open water areas known to not support vegetative growth. The near-shore areas depth varied, but on average was approximately 1-3 feet deep. In the channel near Daisy Lane, the average depth was very shallow, in some cases less than 1 foot. The shallow nature of the lake in this area presented a few challenges for access in the row boat during this high water period of the lake.

During the previous week, Smith and Golder collected water levels from the area's private wells. This data will be compared to an additional set of data collected in the September/October timeframe to provide information on the hydrologic connectivity of the sub-surface aquifers and lake levels.

Staff Rep Smith and the Committee thanked Member Baxter for allowing access to the lake and the use of this row boat. Chair Peterson was also acknowledged for providing life jackets for the work on the lake.

VI. New Issues

a) Dana Day Alternate Consideration

Chair Peterson provided copies of an application from LMD member Dana Day. Ms. Day resides in the "East" neighborhood and would like to become a member of the Steering Committee. The East neighborhood is permitted a maximum of 2 voting representatives on the Steering Committee. Currently, Chair Peterson is the only representative from that neighborhood.

The Committee reviewed Ms. Day's application. There was some discussion on the attendance requirements for the position, as Ms. Day's application was being considered as an alternate. Member Baxter stated that the same attendance requirements should be met by alternatives as they are by regular members to avoid excessive back-tracking in the limited time the Committee has to meet and discuss items. Steering Committee members are required to attend all meetings; three consecutive meetings without notice to the Steering Committee will result in the voluntary resignation of that Committee member.

All Steering Committee members accepted Ms. Day's application and expressed excitement for the new addition. Staff Rep Smith stated that he will process the application with Administration. Ms. Day will receive official notification once the Mayor and City Council has an opportunity to accept the nomination.

b) Treatment Options for Bladderwort

Staff Rep Smith reported feedback from Doug Dorling on the potential treatment options for Bladderwort.

Bladderwort last year infested all of the areas that were treated. It is the dominant sub surface species in the lake. Bladderwort can be controlled with sonar (fluridone), 2,4-D, or diquat. NWA's preference would be for either the 2,4-D or fluridone. These products are systemic and are absorbed into the plant. Diquat is only a contact killer. The other problem with diquat is that neutralizes itself upon contact with muddy water. Considering the shallow nature of Barnes Lake use of diquat would only work out in the open water segment of the lake. Fluridone and 2,4-D will also impact the lily pads.

If the decision to attack the problem with 2,4-D was made, NWA recommends waiting until next year when more water is opened up so the chemical could disperse better. Fluridone disperses well in areas clogged with lily pads. An initial treatment of 1.5 gallons of material and two booster applications about three weeks apart of about 1 gallon. Fluridone is expensive, running about \$1,700.00 / gallon. Material costs would be about \$3,500.00 (less tax), labor of about \$750.00 per application and posting of \$150.00/ treatment

Fluridone is the safest material on the market and monitoring is relatively inexpensive at about \$150.00 - \$175.00 per sample. One sample would be needed following the initial application and boosters. There are no water use restrictions associated with the product except for irrigation. No irrigation is permitted unless concentrations are below 10 ppb. We would be exceeding this limit for short periods of time. 2,4-D carries the agent orange argument and could be a contentious product to use, as it is the most controversial product. However, NWA used it at Chambers Lake last year and no problems came up.

c) Steering Committee Meeting Schedule Revision

Chair Peterson acknowledged that there may be a potential conflict for some members with the meeting schedule as currently planned. The committee reviewed the dates and agreed that all dates should work ok, with the exception of some planned vacations and the May meeting. The May meeting was rescheduled to May 7th.

VII. Adjourn

Chair Peterson adjourned the meeting at 8:00 p.m. The next steering committee meeting will be held on May 7, 2008, at the Tumwater City Hall.

Minutes submitted by: Dan Smith, Staff Representative

Minutes approved by: Barnes Lake Management District Steering Committee