

Christian Steinbrecher, Kevin Stenberg and Jim Stephen form the Breakwater Committee. Christian submitted the following questions for the Board's consideration. **TB responses and questions in bold. In general, I think the new or repaired breakwater should replicate the function of the existing one, without many big upgrades (unless specific improvements are deemed to be significant, feasible and affordable). This is going to be a very expensive project, even without upgrades.**

1. What should the breakwater do?
 1. Provide wave attenuation for moored boats in marina basin? **Yes**
 2. Provide wind screening? **No**
 3. Be a walkable promenade similar to the esplanade on the Willamette River? **Yes, similar to existing**
 4. Provide seating? **Yes, a few benches.**
 5. Be a race committee base for sailboat racing? **Yes**
 6. Have lighting for nighttime use? **What nighttime use? Probably want to run electricity to light the vertical RCYC sign if we mount it to one of the pilings. If we do that, might as well install safety lighting, at least.**
 7. Provide additional moorage for RCYC members or reciprocal moorage? **Yes, same as existing for reciprocal and temporary member moorage.**
 8. Have a fence on the river side meeting fence opening code criteria? **Yes, similar to existing**
 9. Have power outlets for moorage use? **Not necessary for moorage. Could add for reciprocal or work parties if feasible and affordable.**
 10. Have water outlets for moorage use? **Ditto**
 11. Provide wave attenuation for resident members? **How is that different from attenuation for boats?**
 12. Use concrete floats? **If feasible and affordable. Committee should recommend wood or concrete**
 13. Is wave attenuation limited to wind and small boat wakes? **Should at least match attenuation function of existing breakwater. More is always better, if feasible and affordable.**
 14. Should it include a wall such as used on walk one? **No, blocks line of sight**
2. Where should the breakwater be located? **Same place as existing, preferably re-using existing pilings, if still sound.**
3. Should the location be the same as current breakwater? **Yes**

4. Why replace the current breakwater? **Repair or replace, whichever is most functional and cost-efficient. The Committee should prepare and present a recommendation to repair or replace.**

4. How should the replacement be accomplished?
 1. Should an outside contractor be used? **As necessary**
 2. How much can be self performed by RCYC members? **Hopefully some.**

5. When should the work be performed?
 1. Does water level play a role? **Committee should determine.**
 2. What are the permitting requirements for various approaches? **Committee should determine.**

6. How much does the club want to spend? **Enough to restore existing breakwater to long-term designed function, or replace with new breakwater replicating existing designed function. Possibly more for upgrades if significant, feasible and affordable. My guess is that membership is more likely to accept cost if it does not significantly exceed the total or monthly amounts for the two current loans (dredge and walk 5), which will be paid off in 2025.**