

Minutes April 17, 2018 Hayden Lake Watershed Improvement District Board Meeting

Meyer, Chairman; Harvey; Lund. Present: Leo Notar, Board Member Elect, Walker, Lake Manager; Stoll, Communication/ Public Outreach, Stephanie Mueller, Accounting and Billing Contractor, Darren Brandt Lake Monitoring Consultant, Kirby Koerner, Lake Management assistant monitoring.

Call to Order 6:35 PM

Additions to Agenda: Development of the 2020 FY Budget
Too many funds in one bank

Darren Brandt's Lake Monitoring Report: In 2018 changed laboratory analysis of nutrients from SVL to more sensitive analysis by AmTech. The down side of this change is the new data is not as comparable to the older data, but the more sensitive analysis provides numerical data rather than non-detects for many nutrient constituents. Nitrate-nitrite was lowest at the Gonzaga Sampling Station and highest at Bob's Bay (see attached graphs). The parameter did vary greatly over the testing season. Ammonia pattern was the same but was below detection until July. Increased ammonia may be due to herbicide treatment of aquatic plants which then decayed releasing ammonia. Total persulfate nitrogen (TPN) had the same pattern as the nitrate-nitrite and ammonia but went to below detection in the 8/8/18 sampling. This may also be the result of herbicide application. Total phosphorous was quite high at the Bob's Bay site early in the season likely due to sediment discharge into the very upper lake. Total phosphorous was high in Bob's Bay lower at Ross Point and typical of the wider lake at the Gonzaga Sampling Station. Ortho-phosphate generally followed the same pattern with high ortho-phosphate values at all three sites but progressively declining through the growing season. Chlorophyll a values (a measure of primary productivity) followed the same Bob's Bay highest, Ross Point lower and Gonzaga lowest pattern. Bob's Bay showed a large peak in mid-August, which may be an artifact or possible an impact of herbicide treatment release of nutrients. With this high chlorophyll a point excepted, comparison of 2017 and 2018 values are quite similar with a small increase in 2018 values.

Darren recommended starting monitoring in early April. Late April will be the best that can be done this year. Sampling every two weeks, which is the current monitoring pattern. Assure lowest detection analysis selected. Collection of physical data. This will be done now that the District has a new Manta measuring device.

Geoff Harvey suggested mid-lake restart since this has not been done for thirteen years. The TMDL is based on these mid lake values. Composite sample in epilimnion one grab from the hypolimnion was suggested by Darren Brandt.

Suggest fluorescence profiles. Be completed in North Arm. This too not completed in thirteen years. The District has all the equipment to do these profiles. Darren also suggested a formal monitoring plan and a Quality Assurance and Program Plan (QAPP) be developed.

Discussion of a field sampling plan and QAPP. Darren would also like to be informed of herbicide treatment dates as these seem to be affecting phytoplankton as well as aquatic emergent plants. Motion to add mid-lake station, monitoring plan and QAPP. Harvey, Second Lund. Approved.

Approval of Meeting Minutes of March 18, 2018 Board Meeting (**Action Item**) Move to approve Lund, Second, Harvey approved.

Treasurer's Report

- Review of March Financial Reports
- Approval of outstanding billings (Watershed Mgmt. (\$1,325); Public Comm. & Outreach (\$3,044.43); Practical Accounting (\$61.25), SVL (\$135); Cd'A Press (\$70.97) GoDaddy Debit (199.88) (**Action item**) Moved billings paid Lund, second Harvey. Approved
- Harvey will develop a draft FY2020 budget for the May Board meeting, budget should include line item for aquatic weed skim/harvest.
- Discussion of balance in bank well over FDIC insurance; Discussion of putting into state treasurer's portfolio. Moved to move \$250K to Treasurer's fund, Harvey, second Lund, Approved. Stephanie will start making arrangements.

Opportunity for Public Input: None

Lake Manager's Report

- March Activities: South Shore monitoring. Discussion of sediment flow from clear cuts and house construction sites. Todd will notify county of problem site on north end of lake.
- Dock collection time, so we plan to collect 7-8 docks. Mary Ann will announce program next week. The District will use the permit system. Take docks starting in May and aim at a getting out by mid to third week June.
- South Shore monitoring status: Two samplings done
- Lake monitoring start up: AS soon as possible in April with addition of mid-lake station: See above.

Public Outreach & Communications Manager's Report

- Web site update: Site re-designed awaiting input on new content. Vast improvement.
- Other activities: Another IDA meeting bring in Jeremy. Second IDA meeting in early to mid-July.

Old Business

- Election of Board Directors: Three candidates registered; no write in forms received. Therefore no election necessary. New directors to be seated after the election day (May 21st) at May 23rd Board meeting.
- Transition planning: Mary Ann would set up agendas and do the minutes. Stephanie will keep doing books and checks and reconciliations. Stephanie will supply balance sheets to Board members before each meeting. Geoff Harvey will advise Board on scientific issues. Pat is concerned we stay under the \$100,000 spending limit to avoid a unnecessary audit.
- Discussion of draft Memorandum of Agreement: District and Kootenai County on navigational buoy permitting, placement and maintenance. Some edits of the District's version will be made. Discussion of memorandum of agreement. Cost estimates provided (attached). Motion to support an MOA between Kootenai County and the District. Harvey, second Lund. Approved.

New Business

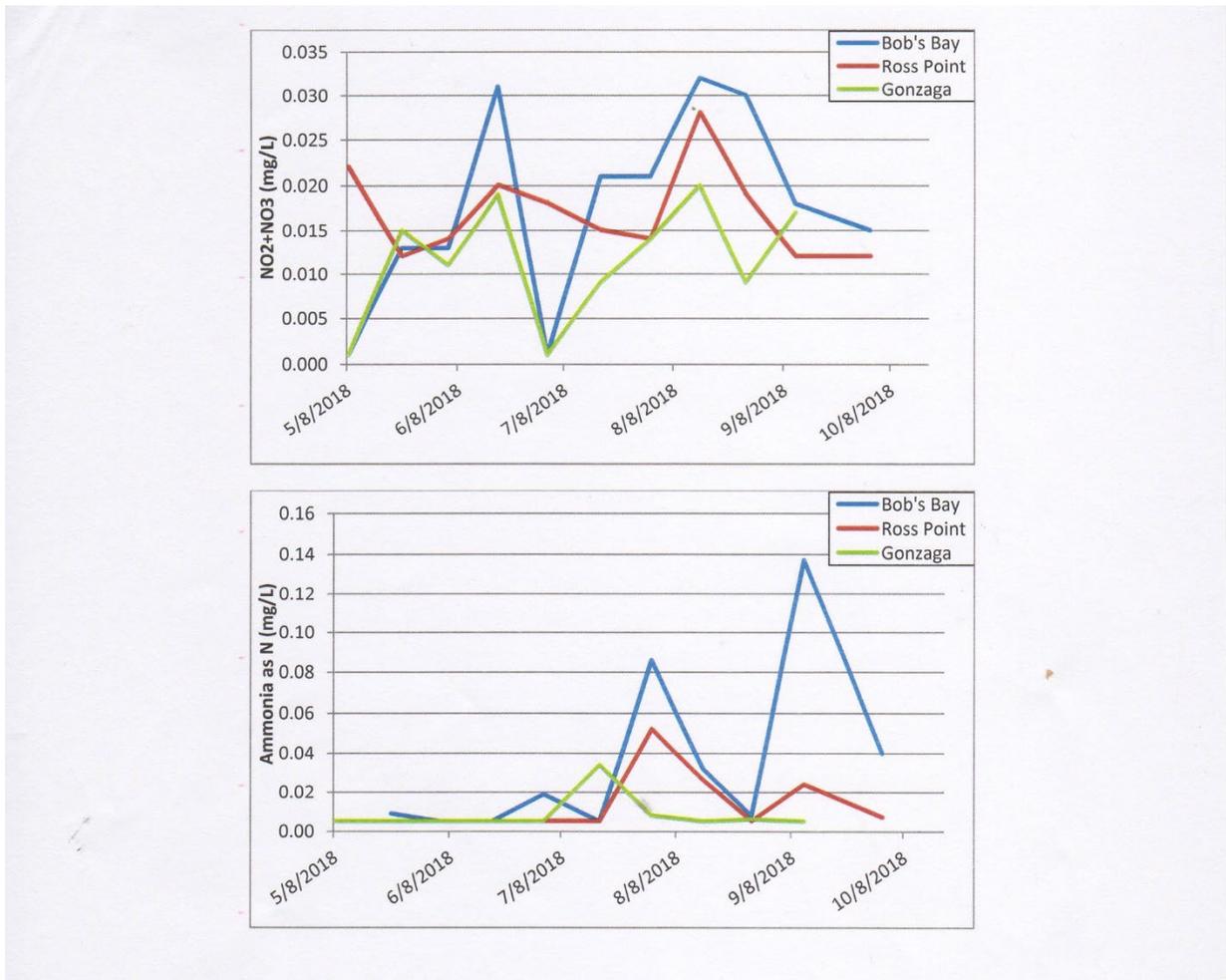
- Set next Board meeting date Thursday May 23rd

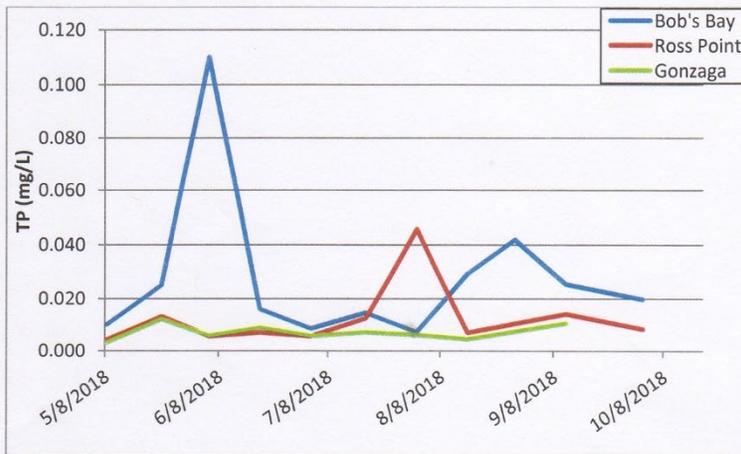
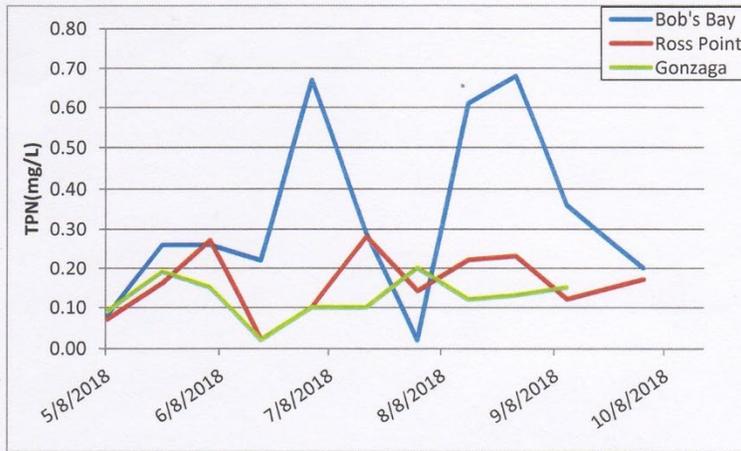
Adjourn

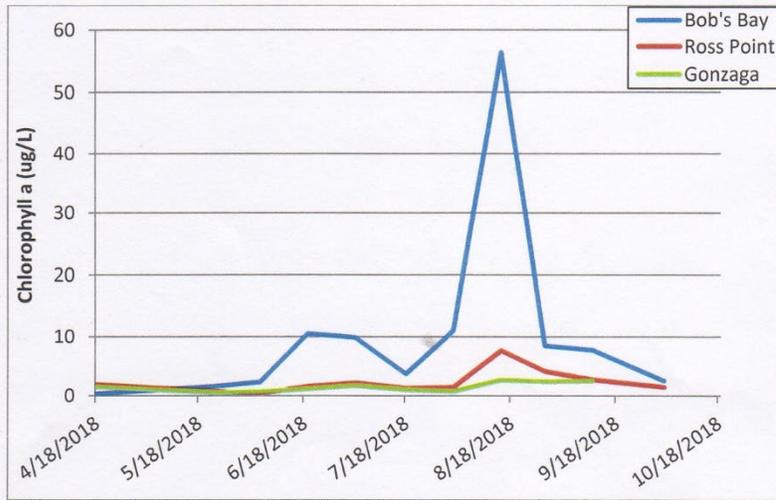
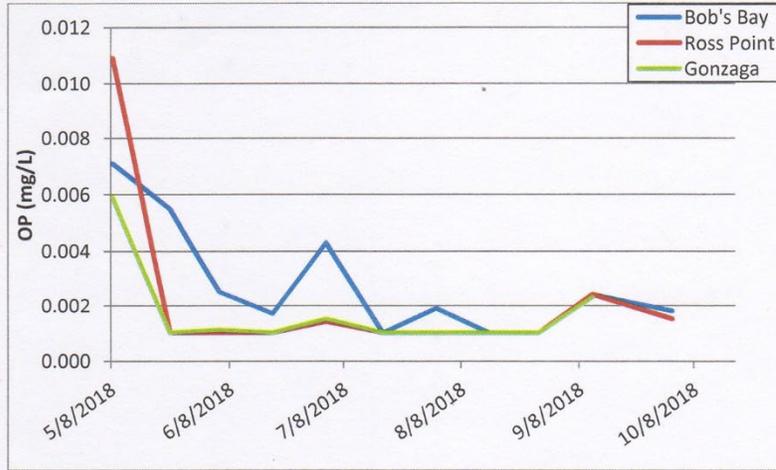
Motion to adjourn Harvey, second Lund. Approved. Adjourned 9:30 PM

Adjourn

Appendix: Darren Brandt's 2018 Lake Monitoring Report

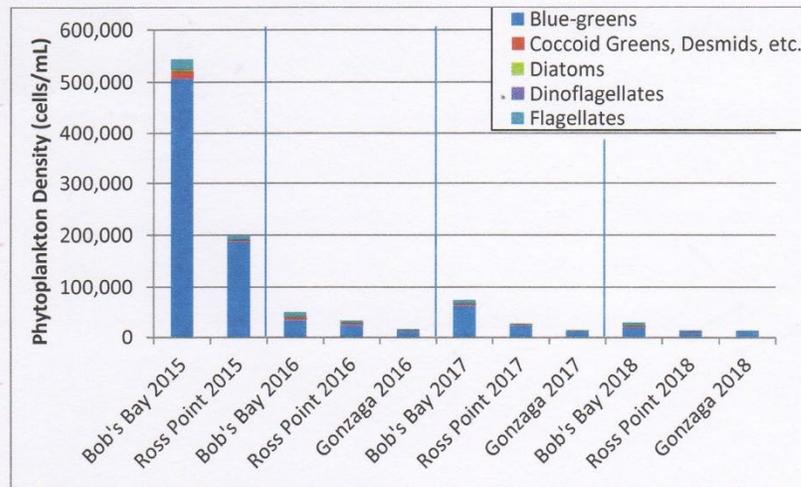






Station	2017	2018
Bob's Bay	7.20 (ug/L)	17.16 (7.4) (ug/L)
Ross Point	2.02 (ug/L)	3.37 (ug/L)
Gonzaga	1.34 (ug/L)	2.07 (ug/L)

Only includes August –October data due to limited sampling in 2017



Recommendations for 2019

- Commence sampling in early April
- Sample every 2 weeks for all parameters
- Make sure to request low reporting limits when submitting samples
- When collecting physical data, take measurements every meter at Gonzaga, and every ½ meter at Ross Point and Bob's Bay. A near bottom but not resting on the bottom measurement at Bob's Bay is very important. If Quanta is not working take water temperature at 0.5 M depth with a thermometer from same water used for water chemistry.