

Sherbrooke Lake Stewardship Committee Meeting

Thursday, November 2, 2017

Bluenose Coastal Action Foundation Office

37 Tannery Road, Lunenburg

Those in attendance: Garth Bangay, Terry Matheson, Mat Whynott, Shanna Fredericks, Blake McDonald, Trudy Payne

Regrets: Robin McAdam and Chad Haughn

The meeting was called to order at 7 p.m.

Additions the Agenda

Update on Sherbrooke Lake Park Advisory Committee appointments. **Moved by Mr. Bangay and Mr. Matheson that the agenda be approved as amended.**

Approval of October 5, 2017 minutes

Moved by Mr. Matheson and Mr. McDonald that the October 5, 2017 minutes be approved as amended. Motion Carried

Appointments to the Sherbrooke Lake Park Advisory Committee

Ms. Payne informed the Committee that Larry Hagell and John Budden were appointed by MODL and Councillor Wade Carver would be the council representative for MODL. For MODC Hugh Harper and Heather Dymont were appointed and Councillor Tina Connors would serve as MODC's council representative.

The Committee continued to work its way through the "Guide to Writing a Water Quality Monitoring Program".

Some barriers were identified:

1. Ms. Fredericks stated that this summer Pine Lake Brook and Zwicker Brook were hard to get to because of gated roads. In future access, if these sites are identified as monitoring sites, they should be accessed from the lake via a boat as it best to get at the mouth of the streams. Biggest issue you face taking samples is the weather.
2. Another issue identified is lab deliveries because dealing with bacteria and the samples need to go to the lab in Bedford and needs to be done within 24 hours.
3. Event sampling on the Forties to sample bacteria and nutrient levels after heavy rainfall to investigate impact of agricultural runoff on the water quality of Forties River. Staff and volunteers need to be able to respond quickly when a rain event happens.
4. Equipment - right now borrowing St. Mary's University's Community-Based Environmental Monitoring Network (CBEMN). Coastal Action does not currently have a 30-metre YSI cable. If we borrow, options are CBEMN, Coastal Action or old DFO equipment. What do we do? - borrow or do we buy it? See what Kings County is doing, get pricing on YSI equipment.

5. Variety of sample sites: lake sampling, depth profiles, inlet streams, sediment sampling, public access site. These sites might have different parameters and sampling frequencies.

From a previous inlet/outlet stream map sites identified as Lake 2, 3, 4, and 5 have a set of data.

Discussion took place concerning tributaries. Except for the Forties River, it was agreed to conduct annual sampling of all and increase frequency of the ones with concerns. Could test all after rainfall? Should be event related for all samples. Zwicker Brook is of concern as the discharge is not far from the public access site.

Action from Discussion

Rainfall sampling at the streams – after a Spring rain event using YSI (grab bottle sampling). Easy to train someone to do. There used to be modules on how to use YSI. Shanna will check into this.

Pine Lake Brook and Zwicker Brook monthly sampling (for a six -month period May to October) and take over the Franey Corner site and do monthly sampling as well.

Four lake sites that are grab sites and YSI (lake 2,3,4, and 5) and public access site (once road developed take lake shore sample), thus there will be eight monthly sites. Frequency of depth profiles? (July or August) once picked must keep same month. Metre from the bottom, metre from the top – when site is stratified.

Mr. Whynott asked about the possibilities of the Committee partnering with Clean Foundation and the Church Camp (April to October) to take the samples.

Discussion took place as to whether to test for sediment and shoreline erosion. Shoreline erosion could be documented by taking pictures each year of the shoreline from the same places; use a drone to take pictures of shoreline around the lake; or use google maps to help track any shoreline erosion. It was agreed these three options with pros, cons and costs would be presented to Council to have them decide moving forward.

Sediment sampling – DP5, Forties, public access site (once a year). What do we want to analyze – nutrients, metal suite, E. coli.

Next Meeting

As it was 9 p.m. the next meeting date, time and place were selected. January 4th at 7pm at the Chester Municipal Office. Trudy will confirm/book the Chester Municipal Building.

Meeting was adjourned at 9 p.m.

Please note: At the meeting held January 11, 2018 it was decided to not do testing at the Franey Corner site but to do testing at the mouth of Sherbrooke River.