

From: Shalom Mandaville

Sent: March 11, 2022 2:07 PM

To: Halifax-Municipal Clerks (Clerks@halifax.ca) <clerks@halifax.ca>; mcgillj@halifax.ca

Cc: NSE-Cameron Deacoff (Surface Water Quality Specialist, Nova Scotia Environment and Climate Change) [REDACTED]; Emma Wattie MSc (Water Resource Specialist-HRM) (wattiee@halifax.ca) <wattiee@halifax.ca>; Councillor Cathy Deagle-Gammon (Dt. 1: Waverley-Fall River-Musquodoboit Valley) (cathy.deagle-gammon@halifax.ca) <cathy.deagle-gammon@halifax.ca>

Subject: RWAB, HRM-Direct discharge of WWTP effluents into freshwater lakes, and a proposed discharge into Lake Thomas (Fall River)

Dear Chairman and members of the Regional Watersheds Advisory Board-RWAB (web links are incorporated when necessary; also Cc'd Dt#1 Councillor, Cathy Deagle Gammon; Emma Wattie of HRM's ECC; and Cameron Deacoff of the NSECC as a professional courtesy),

Please pardon any typos/grammar/omissions. I will make this email a maximum of 3 pages in line with the past policy of the Municipal Clerk's office.

I am writing to you since a former Chair of the ESSC had suggested to me a couple of years ago that I approach the RWAB on scientific issues relating to cultural eutrophication and other specialized aspects (e.g., biodiversity).

If you are willing to take up the issue of direct discharge of WWTP effluents (no matter how well treated) into our sensitive freshwater lakes, I would like an opportunity to make a 10 (or a 5) minute presentation in person, especially since the provincial health emergency is being lifted effective March 21, 2022.

I will also invite the renown **Dr. Joe Kerekes Ph.D.** (formerly of Environment Canada/CWS) of the [OECD \(Organization for Economic Co-Operation and Development\) repute](#), and who has advised me over a long period.

This specific email is generated as a result of a proposed WWTP for a significant seniors housing complex discharging the effluent directly into Lake Thomas. I am unsure if it is Upper or Lower Lake Thomas. I ardently hope it is not too late for the RWAB to discuss 'policies', if not for this project, perhaps for future projects.

I am especially concerned about the discharge during the summer months when lakes do not flush as much.

➔ In this regard, kindly peruse the classic published paper of Dr. Kerekes re a proposed package plant designed to be discharged into 'Freshwater Lake' within the Cape Breton Highlands National Park. He recommended against it when he was still employed with the Canadian Wildlife Service (CWS). I am unaware if the Province acquiesced with his recommendation though.

You can study the paper in our website with the URL, http://lakes.chebucto.org/TPMODELS/NOTES/kerekes_1983.html (our website has recently been down for 2 months due to a major disk failure, but it is fixed now).

On request, I can supply the entire PDF copy to the municipal clerk for distribution which is in our publicly available OneDrive.

I am totally aware that WWTP approvals are a responsibility of the Province, and perhaps of the Feds as well. But I don't see why a municipality cannot take leadership and look for alternatives.

Last but not least, kindly view one example of the comparative 80-lake Total Phosphorus data (including the modelled 'pre-cultural' TP values) in our MS Excel file with the URL of https://1drv.ms/x/s%21Au0xeIA-MCofiTqhH_HmNC5EW7Oe (from our OneDrive).

Thanking you for your consideration,

Shalom Mandaville Post-Grad Dips.
Soil & Water Conservation Society of Metro Halifax (SWCSMH)