

Supplementary File 1. Example newsletter sent to participants presenting updates of Adopt a Lake.

Newsletter Adopt a lake - ATRAPP Project



An approach to preserve our lakes from blue-green algal blooms

In this newsletter you will find:

- Adopt a lake Campaign
- Relevant publications



Dear Nature Lovers,

As part of the [ATRAPP project](#), the “**Adopt a lake**” campaign was created to raise public awareness about the importance of water conservation. This campaign aims to encourage citizens to support research on blue-green algae (cyanobacteria) and toxins, while allowing them to get a scientific analysis of their lake sample. For the first year of the campaign (2018), 17 lakes were sampled in Quebec and Ontario and for the year 2019, we received 35 requests for lakes to be sampled. The results of the analyses were integrated into the ATRAPP project database. For the current year, we have received so far nine new lake registrations that are awaiting to be sampled. We would like to thank all the volunteers who sent us their lake samples as well as all the people who donated to "Adopt a lake" campaign.

* Campaign website: [Adopt a lake](#)

The received samples are analyzed in three phases described here below:

- **Toxin analysis** to confirm if toxins are present in the sample and to determine their concentration.
- **Genomic analysis** to confirm if cyanobacteria are present in the sample.
- **Physicochemical analysis** (pH, nitrogen phosphorus concentration, alkalinity, etc.) to determine the status of the lake at the place and time where the sampling took place.

The ATRAPP project (Algal Blooms, Treatment, Risk Assessment, Prediction and Prevention through Genomics) is a major research initiative worldwide on blue-green algae. Started in the fall of 2016, the project aims to improve our understanding of cyanobacteria, their identification and propagation methods. Its ultimate objective is to propose solutions for the strategic management of harmful proliferation episodes, as well as to determine the socio-economic impacts on the population. This will allow municipalities, citizens, and users to choose the practices that best meet their needs to reduce the negative impacts of algal bloom costs.

The Adopt a lake citizens' campaign is made possible thanks to the generosity of several donors. To continue to maintain the campaign and to allow all citizens that have registered for Adopt a lake and whose request is put on hold, you can make a donation here:

[I SUPPORT THIS CAMPAIGN](#)

Websites of interest

- * Site web du MELCC Québec (site web en français) : [Algues bleu-vert](#)
- * Site web Ontario (site web en français) : [Blue-green algae](#)
- * Site web Ontario (site web en anglais) : [Blue-green algae](#)
- * Site web USEPA (United State Environmental Protection Agency) (site web en anglais): [Cyanobacterial Harmful Algal Blooms in Water Bodies](#)
- * National Institute of Environmental Health Sciences (site web en anglais) [Harmful Algal Blooms](#)

Publications

- * Blanchette Pelletier, D. (2019). Les algues bleu-vert ont carte blanche au Québec. Environnement, Radio Canada. Publié le 11 septembre 2019. [Read article](#)
- * Kolinjivadi, V., Mendez, A. Z., & Dupras, J. (2019). Putting nature 'to work'through Payments for Ecosystem Services (PES): Tensions between autonomy, voluntary action and the political economy of agri-environmental practice. Land use policy, 81, 324-336. [Read article](#)
- * Kouakou, C. R., & Pöder, T. G. (2019). Economic impact of harmful algal blooms on human health: a systematic review. Journal of Water and Health. [Read article](#)

[ATRAPP project Publications](#)

For further information regarding this project, please visit the official [ATRAPP website](#) or email us at «atrapp@umontreal.ca».

Your support and collaboration are essential to the success of this project !

The ATRAPP management team

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