

Lac (Lake) Bromont, Quebec, Canada

Application date: October/November 2017

Summary

Aim: To significantly reduce the incidence of cyanobacteria blooms and improve the ecological condition of the lake.

Description: Natural Lake

Size (ha): 45

Max. depth (m): 7.2

Average depth (m): 4

Dosage (tonnes): 174

The Lake



Figure 1: Aerial view of Lac Bromont, Quebec, Canada (Google Earth Pro).

Lac (Lake) Bromont is a 45 ha lake located about 85km to the east of Montreal. The lake is a popular recreational destination for both Bromont residents and visitors from surrounding areas. In recent years, the lake has experienced frequent cyanobacterial blooms during the summer and the Lake Stakeholders Association and the Town of Bromont (la Ville de Bromont) were keen to undertake measures to improve water quality in the lake and reduce the incidence and severity of the blooms.

The Treatment

At the end of October/early November 2017, 174 tonnes of Phoslock were applied to Lac Bromont, Canada (Figure 2). This Phoslock application was undertaken to bind the soluble phosphorus in the lake that had been fuelling cyanobacterial blooms. At the time of this publication water samples had been taken however results are pending. The lake will be monitored for several years after the application. The application generated considerable media interest and resulted in coverage on national Canadian TV and several newspapers.



Figure 2: Photos from Lac Bromont during the application of Phoslock. The first photo was taken at sunrise at Lac Bromont (photo taken by Helene Oigny-Hebert), the second photo is during the application of Phoslock and the third is an aerial photo of the Phoslock application to Lac Bromont (photo taken by Richard Cauchon).

Conclusion

Phoslock was applied to Lac Bromont in October/November of 2017. At the time of this publication water samples had been taken however results are still yet to be reported. The lake will be monitored for several years after the application. The application generated considerable media interest and resulted in coverage on national Canadian TV and several newspapers.

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