

## Shalom M. Mandaville

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**From:** Thiyake Rajaratnam [rajaratt@biology.queensu.ca]  
**Sent:** Tuesday, January 09, 2007 12:28 PM  
**To:** S.M. Mandaville  
**Cc:** John Smol Brian Ginn; Thiyake Rajaratnam; Brian Cumming  
**Subject:** Re: Metro eutrophication lakes

Hi there,

I'm Thiyake Rajaratnam, Master's candidate under the supervision of John Smol and Brian Cumming. I am currently analysing the extent of changes in diatom floras from 45 Halifax Region lakes. The primary objectives and relevance of my study are to:  
(1) Examine the pre- and post-industrial water-quality status of Halifax region lakes using sub-fossil diatom assemblages and water chemistry characteristics; (2) evaluate the anthropogenic impact, including urbanization and other environmental stressors, on the observed changes;  
(3) provide relevant information on water quality changes in Halifax region, and thereby stimulate further research in the area. Observed trends in sub-fossil diatom assemblages from ca. 1850 to present, for most of the study lakes (14 lakes thus far), indicate some large-scale environmental changes in nutrient enrichment, acid precipitation, and climate change since pre-disturbance lake conditions. As John mentioned, most of the work is still in progress and we'll keep you posted.

regards,  
Thiyake

> Hi Shalom: Good to talk to you.  
>  
> I am copying Brian Ginn and Thiyake - they can update you on the  
> Halifax metro lakes - and where we stand right now. Most of this work  
> is in progress. John  
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