

**Soil & Water Conservation Society of Metro Halifax (SWCSMH)**

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**Ref.:** lcc\_MorrisRussell2006august02 (1 page only)  
**To:** **Chair and Members, Harbour East Community Council (HECC)**  
**From:** S. M. Mandaville Post-Grad Dip., Professional Lake Manage.  
Chairman and Scientific Director  
**Date:** August 02, 2006 (Hand delivered same day to the Municipal Clerk)  
**Subject:** **LCCs (based on TP) for Morris and Russell Lakes, Dartmouth  
pursuant to the HECC's agenda for August 03, 2006**

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Based on the CCME (2004) Phosphorus Management Policy, we recommend that HRM set Lake Carrying Capacities (LCC) based on yearly mean total phosphorus (TP) as follows:

**Morris Lake- 5 (five) µg/l** (refer to our submissions to you dated June 22 and 26, 2006 for the scientific rationale/narrative), and

**Russell Lake- 7 (seven) µg/l** (refer to our submission to you dated June 26, 2006 for a detailed rationale/narrative).

The LCC's are indicative of the pre-cultural states and whilst at first glance may appear stringent to the uninitiated, some recent years' data (prior to recent construction activities) show that the lakes were progressing towards their natural background values which was totally good news!

Our LCC's were derived from predictive modelling utilizing locally published unit phosphorus export coefficients; we also carried out initial comparison with other indicators of lake biology!

The unit phosphorus export coefficients were developed by the local academia with total support by the Province as well as the Federal Government and available for public use at the NS Dept. of Environment & Labour Library, Terminal Road, Halifax.

The multi-year national peer consensus initiatives of the Federal CCME, Environment Canada, and all the Provinces take into account varying conditions throughout Canada since they base their preferred recommendations on the natural background values!