



June 7, 2005

To: All Standards Council of Canada (SCC) and Canadian Association for Environmental Analytical Laboratories (CAEAL) Accredited Environmental Testing Laboratories in Ontario

Subject: Accreditation Requirements for Environmental Testing Laboratories as Specified by the Ontario Ministry of the Environment (MOE)

The MOE, SCC and CAEAL have received several inquiries about the process to achieve the accreditation requirements contained in MOE regulations pertaining to environmental testing. Some of the confusion stems from the expiration of the SCC/CAEAL partnership agreement and introduction of accreditation requirements in new MOE regulations. This memo should clarify the situation in Ontario.

#### **Laboratories conducting drinking water testing under the *Safe Drinking Water Act***

- Laboratories conducting tests on Ontario drinking water must be accredited by the SCC. At present only SCC is recognized as a designated accreditation body, as detailed through a tri-partite agreement among the SCC, CAEAL and the MOE. Under the agreement, the assessments and proficiency testing will continue to be conducted by CAEAL with accreditation granted by SCC. Your request for assessment of drinking water methods should be made to CAEAL using the form titled "Supplementary Application Form (for use by laboratories operating under the MOE/SCC/CAEAL Agreement for the Accreditation of Ontario Drinking-water Testing Laboratories)".

#### **Laboratories that analyze soil and land applied material for nutrients, metals, and *E. coli* under the *Nutrient Management Act 2002***

- Laboratories must be accredited by the SCC to the international standard ISO/IEC 17025 "General requirement for the competence of testing and calibration laboratories".
- Accredited laboratories should work with SCC to ensure that the applicable tests have been properly identified.
- The Scope of Accreditation for all accredited methods used for the analysis of soil and land applied material for nutrients, regulated metals and *E. coli*, are to be submitted electronically by the laboratory owner/manager to [nma@ene.gov.on.ca](mailto:nma@ene.gov.on.ca)

- SCC will apply the designation of Ontario Nutrient Management Act (ONMA) to all acceptable Scopes of Accreditation listed on the SCC web site, when recommended by MOE.

### **Laboratories conducting other environmental testing**

For purposes of the analyses for Record of Site Condition, O. Reg. 153/04 laboratories must be accredited by SCC to the international standard ISO/IEC17025 “*General requirement for the competence of testing and calibration laboratories*” and specifically for those methods which analyse the parameters listed in Tables A & B attached.

#### **Parameters Requiring Testing by an Accredited Method**

##### **Table A - Ground Water**

Benzo (a) anthracene  
 Benzo (a) pyrene  
 Benzo (b) fluoranthene  
 Benzo (g,h,i) perylene  
 Benzo (k) fluoranthene  
 Fluoranthene  
 Indeno (1,2,3-cd) pyrene  
 Phenanthrene  
 Pyrene  
 Aldrin  
 Dieldrin  
 Chlordane (total)  
 Endosulphan  
 Endrin  
 Heptachlor  
 Heptachlor epoxide  
 DDT  
 Methoxychlor  
 PCB (total)  
 1,1-dichloroethylene  
 1,2-dichlorobenzene  
 1,2-dichloroethane  
 1,4-dichlorobenzene  
 Benzene  
 Bromodichloromethane  
 Bromoform  
 Carbon tetrachloride  
 Chlorobenzene  
 Dichlorobromomethane  
 Chloroform  
 Dichloromethane (methylene chloride)  
 Ethylbenzene  
 Xylenes (total)  
 Tetrachloroethylene  
 Toluene  
 Trichloroethylene  
 Chloride  
 Nitrate  
 Nitrite  
 Antimony

Arsenic  
Barium  
Beryllium  
Cadmium  
Chromium (total)  
Cobalt  
Copper  
Lead  
Molybdenum  
Nickel  
Selenium  
Silver  
Thallium  
Vanadium  
Zinc

**Table B - Soil & Sediment**

Benzo (a) anthracene  
Benzo (a) pyrene  
Benzo (b) fluoranthene  
Benzo (g,h,i) perylene  
Benzo (k) fluoranthene  
Fluoranthene  
Indeno (1,2,3-cd) pyrene  
Phenanthrene  
Pyrene  
Antimony  
Arsenic  
Cadmium  
Chromium (total)  
Cobalt  
Copper  
Lead  
Mercury  
Nickel  
Zinc  
Benzene  
Ethylbenzene  
Toluene  
Xylene (total)  
Petroleum hydrocarbons

- Additional information and clarification can be obtained by contacting the following individuals:

Dan Toner  
Ministry of the Environment  
Laboratory Services Branch  
125 Resources Road  
Toronto, ON M9P 3V6

David Dulmage  
Standards Council of Canada  
270 Albert Street, Suite 200  
Ottawa, ON K1P 6N7

Colleen Cutter  
Canadian Association for Environmental  
Analytical Laboratories  
310-1565 Carling Avenue  
Ottawa, ON K1Z 8R1