



10 April 2008

Dear APLAC Colleagues,

Re: APLAC T062 BOD, COD, NO₂+NO₃ & NH₃ in Wastewater Proficiency Testing Program

This is an **INVITATION** for your testing laboratories to participate in the **APLAC T062 BOD, COD, NO₂+NO₃ & NH₃ in Wastewater Proficiency Testing Program** coordinated by Standards Council of Canada in partnership with our collaborator, the *Le Centre d'expertise en analyse environnementale du Québec (CEAEQ)*.

Each APLAC accreditation body member is invited to nominate up to a **maximum of 4 laboratories from your economy** to participate in this program. Participation on this program is free of charge. Note that preference will be given to laboratories that are accredited for these specific tests.

This APLAC T062 PT program is specifically designed to evaluate some of the most commonly used parameters for monitoring of wastewater effluents: Biochemical Demand for Oxygen (BOD), Chemical Demand for Oxygen (COD), Nitrites plus Nitrates (NO₂+NO₃) and Nitrogen ammonia (NH₃). The PT program will consist of three samples for BOD with no preservative and three samples for COD, NO₂+NO₃ and NH₃ preserved with sulfuric acid 0.1% in 250 mL Nalgene™ bottles. The Biochemical Demand for Oxygen (BOD) test is a 5 day test and the laboratories will be required to seed the samples (polyseed or natural seeding) for this analysis.

A separately labelled package will be prepared for each participating laboratory. Each set of three bottles will be sealed in a leak-proof plastic sleeve and placed in a standard packing carton, an absorbent paper and Styrofoam. The matrix is composed of effluent water from a wastewater treatment facilities to which parameters required have been added. The 3 samples for each set will have concentrations that are unique, randomly spanning the concentration ranges for each parameter within the low to high concentrations identified in the following table.

<u>Parameter</u>	<u>Concentration range</u>
BOD	From 50 to 500 mg O ₂ /L
COD	From 15 to 1000 mg O ₂ /L
NO ₂ +NO ₃	From 1 to 100 mg N/L
NH ₃	From 0,5 to 20 mg N/L

Standards Council of Canada will coordinate the program in partnership with our collaborator, the *Le Centre d'expertise en analyse environnementale du Québec (CEAEQ)*. This SCC accredited proficiency testing provider, CEAEQ, will dispatch sample packages to each participating accreditation body in September 2008. The participating accreditation body shall be responsible for the distribution of the individual samples with instructions to each of their designated participating laboratories.

The participant laboratories will forward their results on a standardized report form to the accreditation body who will then forward these forms to the SCC Coordinator, APLAC T062 PT Program for evaluation.

If laboratories in your economy wish to participate in this program, please email me the attached completed Nomination Form with the details of your nominated laboratories no later than May 26, 2008.

Thank you in advance for your cooperation. We look forward to receiving your reply to have your laboratories participate in this program. If you have any queries or suggestions, please do not hesitate to contact me.

Yours Sincerely,



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Attached: *APLAC T056 Nomination Form (APLAC)*