



GOVERNMENT LABORATORY OF HONG KONG (GLHK)
HONG KONG ACCREDITATION SERVICES (HKAS)
APLAC PROFICIENCY TESTING PROGRAM ON PAH IN SEDIMENT
(APLAC T078)



**INSTRUCTIONS
(FOR PARTICIPATING LABORATORIES)**

1. SAMPLE

- (a) Participating laboratories will be given an amber sample bottle that containing about 30 g of dried sediment powder from the organizers directly or via their nominating accreditation bodies (AB).
- (b) Upon receipt of the sample, participating laboratories should carefully inspect the sample for any physical damages and defects.
- (c) Participating laboratories shall promptly acknowledge receipt of the sample by returning the "Receipt Form (for Participating Laboratories)" electronically to the GLHK to T78@govtlab.gov.hk. New samples will be replaced for any damaged claims.
- (d) Intact sample is recommended to be stored in a secure environment at room temperature (around 25°C) before use. Sample should be immediately capped after used and be kept in a dry box when not in use.

2. ANALYSIS

- (a) Participating laboratories are required to determine the concentration (in **mg/kg**) of five polynuclear aromatic hydrocarbons (PAH): Phenanthrene (PHE), fluoranthene (FLT), benzo(a)anthracene (BAA), benzo(a)pyrene (BAP) and benzo(ghi)perylene (BGP) in the sample. The approximate concentrations were estimated to be in the range of 1 to 10 mg/kg.
- (b) Participating laboratories are expected to use the test methods of their choice, which should be consistent with their routine procedures normally used for testing their customer samples. The test method used shall be recorded on the results sheet provided.

3. RESULTS

- (a) Report all the data and the arithmetic mean in Part I of the "Results Proforma".
- (b) Estimate and report the expanded uncertainty (\pm mg/kg) for individual analyte.
- (c) Fill in the information of your analytical method in Part II of the "Results Proforma".
- (d) Submit the results electronically to the organizers on or before 31 October 2010 to T78@govtlab.gov.hk using the soft copy of the "Result Proforma" provided. (Notes: 1. Results submitted after the deadline will not be accepted by the organizers. 2. Owing to possible poor transmission quality, results returned by fax are generally not acceptable).

4. ENQUIRIES

Please contact the organizers at T78@govtlab.gov.hk for further enquiries concerning the program.