

To whom it concerns



WEPAL

### **Invitation to participate in:**

### **Validation Interlaboratory Trial for ISO/FDIS 16751: Soil quality — Environmental availability of non-polar organic compounds — Determination of the potentially bioavailable fraction and the non-bioavailable fraction using a strong adsorbent or complexing agent**

#### **Introduction**

In 2016 ISO/FDIS 16751: Soil quality — Environmental availability of non-polar organic compounds — Determination of the potentially bioavailable fraction and the non-bioavailable fraction using a strong adsorbent or complexing agent will become available in 2016 and has to be validated to become a full ISO standard. WEPAL in Wageningen has been asked to organize this validation. WEPAL, part of Wageningen University is organising six large international laboratory-evaluating programs for environmental and agricultural laboratories. For more information go to [www.wepal.nl](http://www.wepal.nl). We have the honour to invite you to participate in this validation.

**The participation is free of taxes and charges.**

#### **ISO/FDIS 16751**

This International Standard specifies an extraction method to determine the bioavailable (potential and environmental available) fraction and the non-bioavailable fraction of a contaminant in soil using a 'receiver phase' for an organic contaminant with strong sorbing or complexing properties. The soil, soil-like material or sediment sample with particle size < 2 mm is extracted with water containing a 'receiver phase' for the organic contaminants. This phase is either a complexing agent (cyclodextrin) or a strong adsorbent (Tenax®). The solubility of non-polar compounds is limited and in this method the receiver phase acts as an "infinite sink". The measured amount, which is the amount that desorbs from the soil material during 20 hours, reflects the fraction of contaminant that can have effects on biotic systems and that can become mobile.

In the following step, the contaminants adsorbed are extracted from the receiver phase and determined by appropriate analytical methods. The amount of contaminants left in the soil residue, the non-bioavailable fraction, can be measured using a subsequent harsh/exhaustive extraction designed to measure the total concentration.

#### **The validation**

To obtain the date necessary for validation, WEPAL will distribute homogenous soil or sediment samples. Four different samples will be distributed. Participant will be asked to perform the analysis according to the described method and deliver the result to Wepal. They have to analyse the organic contaminants in the receiver phase and in the residual soil. They can use one of the receiver phases, but can also participate for both receiver

DATE  
**29 March 2016**

SUBJECT  
**Invitation Validation  
ISO/FDIS 16751**

OUR REFERENCE  
**WU16-A-007**

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Within Wageningen UR, Wageningen University's department of Environmental Sciences co-operates closely with Alterra on research and education with regard to our green living environment.

phases. Contaminants to be measured are PAH's, PCB's and pesticides. Information on the presence of these contaminants will be given together with the samples.

The following organisation of the trial is planned:

- Registration as participant by May 1, 2016
- Delivering of the samples and method to be used June 2016
- Reporting of results by participants September 30, 2016
- Reporting of the validation results by December 1, 2016

If you agree to participate, you will receive:

- The ISO document with the procedure
- 4 different soil or sediment samples
- Instructions to deliver the results

The task:

- Analyse the samples provided according the description in ISO/FDIS 16751
- Deliver the results according the instructions
- Deliver details on instrumentation used for measurement according instructions

If you are interested in participating, please go to [www.wepal.nl](http://www.wepal.nl) and leave your information by the 1<sup>th</sup> of May 2016.

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OUR REFERENCE  
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Thank you very much for your kind cooperation. Please do not hesitate to contact me if there are any questions.

Yours faithfully,



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