

## Central organizing PT provider



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# PT-WFD



Network of PT Providers  
to Support the Implementation of the  
Water Framework Directive

## Proficiency Test on „Analysis of priority pesticides in surface water“ 2012

### Aim of the Proficiency Test

To check the chemical analysis of priority and other substances in the context of chemical monitoring for the European Water Framework Directive, especially for compliance of surface waters with Environmental Quality Standards (EQS).

### Organization

The PT exercise will be jointly organized with the cooperating PT providers. The samples will be made and the results will be evaluated by the central organizer AQS-BW. Samples will be distributed by all partners. Identity of the participants will only be known by the PT provider where they apply for participation.

### Who should participate?

All laboratories involved in the monitoring of surface waters. Of course participation could also be helpful for other water testing laboratories.

### Special benefits of network PTs

- low concentration ranges, relevant to the EQS monitoring requirements
- whole water samples including SPM based on real surface water
- higher number of participants allowing more significant statistical evaluation

### Where to find more information?

For more information on this PT and on the PT-WFD network please visit the website <http://www.pt-wfd.eu> or contact one of the cooperating PT providers.

Parameter	Annual average - environmental quality standard in µg/l (proposed values)	Required limit* of quantification* in µg/l
Aclonifen	(0,12)	0,025
Alachlor	0,3	0,025
Atrazine	0,6	0,025
Bifenox	(0,0125)	0,025
Chlorfenvinphos	0,1	0,025
Chlorpyrifos (chlorpyrifos-Ethyl)	0,03	0,025
Cybutryne	(0,0025)	0,025
Diuron	0,2	0,025
Isoproturon	0,3	0,025
Quinoxifen	(0,15)	0,025
Simazine	1	0,025
Terbutryn	(0,065)	0,025
Trifluralin	0,03	0,025

\* for this PT round! These values are fixed according to requirements of EU QA/QC directive 2000/60/EC, but taking into account the current analytical possibilities

### Dates

Application deadline: 17.08.12  
Sample dispatch: 8.10.12  
Deadline for submission of results: 29.10.12, 24:00 h

### Sample dispatch

Samples will be sent by courier service. Some of the PT providers will also allow to pick up the samples at the provider.

### Sample details

3 x 2 surface water samples (with suspended particulate matter) in 1000 ml glass bottles. Conservation by cooling.

### Analytical methods

Participants are free to choose a suitable method.

### Execution of analysis

The samples must be analysed completely by the participating laboratory with own personnel and own equipment. Subcontracting of the analysis is not allowed.

### Evaluation

Statistical evaluation according to ISO 13528. A reference value derived from the formulation of the samples will be used as assigned value (X).

### Assessment

z-scores are used for the assessment of participants' results. A fixed value of  $0,25 \cdot X$  is used as standard deviation for proficiency assessment (SDPA). Therefore the z-scores are calculated according to

$$z = \frac{(x - X)}{SDPA}$$

Criteria for assessment:

$ z  \leq 2,0$	satisfactory
$2,0 <  z  < 3,0$	questionable
$ z  \geq 3,0$	unsatisfactory

### Participation fee

The fee will be 500€ plus transportation costs and VAT (where applicable). For details about transportation costs please consult one of the proficiency test providers.

### Report

The final report will be in English.