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PT-WFD

The Self-committed Network of PT Providers to Support the Implementation of the Water Framework Directive

Proficiency Test on „Volatile compounds in surface water" 2009

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

- international comparison with EU laboratories
- lower management costs
- 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	Required limit of quantification in µg/l
Benzene	10	3
1,2-Dichloroethane	10	3
Dichloromethane	20	6
Trichloro-methane	2,5	0,75
Carbon-tetrachloride	12	3,6
Tetrachloro-ethylene	10	3
Trichloro-ethylene	10	3

Dates
Application deadline: 30.06.09
Sample dispatch: 14.10.09
Deadline for submission
of results: 13.11.09, 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 in 250 ml amber ground bottles. Conservation by acidification and 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 using Algorithm A from ISO 13528 for calculation of mean. The consensus mean is used as assigned value (X).

Assessment
z-scores are used for the assessment of participants‘ results.
A fixed value of 0,25·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:

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

Participation fee
The fee will be 350€ plus transportation costs.
For details about transportation costs please consult one of the proficiency test providers.

Report
The final report will be in English. Translations into German, Slovenian, Italian, Spanish and Hungarian will be made by the cooperating PT providers.