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# Technical Rule – Standard **DVGW W 111** March 2015

**Planning, Execution and Analysis of Pumping Tests  
in Groundwater Development**

**WATER**

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## **Preamble**

This Code of Practice has been elaborated by the "W 111" project group of the DVGW Technical Committee on "Water Abstraction".

Since the publication of the 1997 edition, more experience has been gained, more findings have been made and new methods have been developed for executing and analysing pumping tests as well as for the electronic capture of data at optional intervals. The measurement behaviour of groundwater data loggers can now be programmed much more extensively; moreover, they can now transmit the collected data via radio-based systems like GSM or GRPS either immediately or according to a predefined schedule. This Code of Practice discusses the resultant opportunities for quality assurance and the analysis of the frequently very elaborate tests.

This Code of Practice supersedes DVGW Code of Practice W 111:1997-03.

## **Amendments**

The following amendments have been made compared to DVGW W 111:1997-03:

- a) Complete revision of the document structure
- b) Reduction of pumping test types to two relevant test types
- c) Introduction of cessation criteria for the single pumping stage
- d) Guidance on how to draw up a bill of quantities

## **Earlier editions**

DVGW W 111:1997-03

DVGW W 111:1995-08

DVGW W 111:1975-05

DVGW W 111 1963-11