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# Technical Rule – Standard **DVGW W 119**

December 2002

**Development of Wells by Desanding –  
Requirements, Methods, Residual Sand Contents**

**WATER**

The DVGW is the technical and scientific association of gas and water engineers and comprises approximately 14,000 members. For more than 150 years, the DVGW has been setting the technical standards for the safe, secure and reliable supply of gas and water, actively initiating the exchange of ideas and information in the gas and water sectors and encouraging and promoting on-going progress in the sectors through practical guidance.

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DVGW German Technical and Scientific Association for Gas and Water

Josef-Wirmer-Straße 1–3

D-53123 Bonn

Phone: +49 228 9188-5

Fax: +49 228 9188-990

Email: [info@dvgw.de](mailto:info@dvgw.de)

Internet: [www.dvgw.de](http://www.dvgw.de)

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Distribution: Wirtschafts- und Verlagsgesellschaft Gas und Wasser mbH, Josef-Wirmer-Str. 3, D-53123 Bonn

Phone: +49 228 9191-40 · Fax: +49 228 9191-499

Email: [info@wvgw.de](mailto:info@wvgw.de) · Internet: [www.wvgw.de](http://www.wvgw.de)

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## **Preamble**

This Technical Standard has been prepared by a project group of the DVGW Technical Committee "Water abstraction". It serves as basis for the development of wells by desanding. Sand contents arising during well operation can have a disruptive effect. The consequences can for instance be sanding up of the well, destruction of the submersible motor pumps or disruptions in water treatment. In addition, long-lasting sand production of a well may lead to soil settlements, which in turn can have a negative impact on the entire construction.

On account of the practical experience gained and the technical progress of the last few years, it became necessary to revise and consolidate DVGW Technical Standards W 117:1975-12 and W 119:1982-02.

The technical standard defines criteria for assessing the sand content of raw water and provides guide values for a (still to be approved) residual sand content during the development and operation of wells. The requirement of "sand-free" water (technical absence of sand) raised in DIN 18302 will in particular be explained in more detail.

In addition, experts at water utilities, drilling and well construction companies, engineering offices, pertinent authorities and scientific institutions in charge of planning and construction work are provided with aids for the development of wells by desanding.

This technical standard replaces DVGW Technical Standard W 117.

## **Amendments**

Compared to DVGW Code of Practice W 119:1982-02, the following amendments were made:

- a) Implementation and revision of individual sections of DVGW Technical Standard W 117:1975-12
- b) Revision of the provisions in all sections.

## **Earlier editions**

DVGW W 117:1975-12

DVGW W 119:1982-02