


NEWS OCTOBER 2023

An institution of  DVGW

TZW
Technologiezentrum
Wasser

Editorial



Dear colleagues,

Is TZW a research centre? To that I would answer: yes, but not only. In today's issue we focus on projects with our clients, because in 2022 TZW generated around 60 % of its turnover with technical and scientific expertise. One example is the design of a reverse osmosis system for nitrate removal together with the city of Groß-Umstadt in Hesse. Further examples of such practical projects will be published regularly in the DVGW journal *energie wasser praxis* and on TZW's website in the coming months.

Our experts are also working on a large number of projects on behalf of authorities and organisations, as was the case with the interactive maps and a storymap on the environmental chemical TFA for the German Environment Agency UBA.

Directly from practice for practice are also the studies on the optical inspection of drinking water pipes. We report on the current status and progress of the test drives with the remote-controlled trolley.

Have an inspiring reading

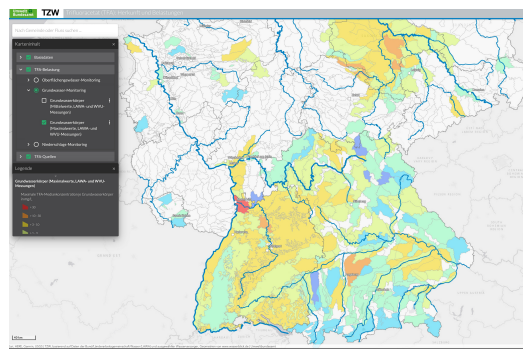
Dr. Josef Klinger



Nitrate removal by reverse osmosis

The public drinking water supply of the city of Groß-Umstadt (Hesse/Germany) designed a reverse osmosis system in close collaboration with TZW. The motivation to apply inland desalination was increasing nitrate concentrations in groundwater and thus the challenge of complying with the nitrate limit value specified in the German Drinking Water Ordinance. Because desirable preventive measures in the catchment area were not fruitful in the past, the waterworks was required to implement other solutions. The example shows how reverse osmosis can be used as a tailor-made and operationally stable alternative solution for the removal of nitrate in waterworks.

[Read more](#)



Interactively following the trail of TFA

On behalf of the Federal Environment Agency (UBA) experts at TZW have developed a [StoryMap](#) on the topic of trifluoroacetate (TFA), that provides an easy-to-understand introduction to the complex topic. In addition, an [interactive TFA map](#) was created based on data from monitoring programmes of 13 federal states and several water supply companies. The map facilitates an overview of the sources and contamination by the environmental chemical TFA by focusing on specific regions.

[Read more](#)



Insights into the underground: Optical inspection of drinking water pipes

Optical methods for pipe inspection are well established in the wastewater sector. In the hygienically relevant drinking water sector with pressure pipes and few access options, this potential has not been exploited so far. Last year, the TZW carried out optical inspections in drinking water pipes of various types using a specially adapted remote-controlled crawler.

[Read more](#)



TZW news in brief

28th TZW Colloquium hybrid "Reallabor Wasser innovativ gestalten" (in German)

On 6 December 2023, the annual TZW Colloquium will take place. After three years of purely digital events, this time it is a hybrid event. As always, it offers compact lectures on current topics from the water sector. This year, these include new legal framework conditions, options for action in extreme events and the use of artificial intelligence in water supply. Strategic perspectives such as climate neutrality in water supply and the roadmap process towards a Water Agenda 2030 will also be presented. In addition to presentations by TZW experts, this time the colloquium offers two double presentations with practice partners. Programme, information and registration can be found [here](#).

Wastewater monitoring system established in Albania

GIZ's Albanian Water Programme "Customer and Performance Oriented Drinking Water and Sanitation Services" worked with Albanian water utilities and wastewater treatment plants to improve their performance in order to reduce ecological risks to the environment and the health of the population. For early detection and tracking of pandemic developments, systematic wastewater monitoring is a new tool to complement conventional surveillance for public health policy decisions. The concentration of SARS-CoV-2 RNA in wastewater show the trends of COVID-19 infections in the population without individual testing. Working with wastewater treatment plant operators in Albania, the GIZ Water Programme, in collaboration with TZW and the Agricultural University of Tirana, initiated the development of a wastewater monitoring system for SARS-CoV-2, other viruses and antimicrobial resistance (AMR). This laboratory was successfully established and is now the centrepiece of wastewater-based epidemiology in Albania. This cooperation is also presented on the [Panorama One Health webpage of the GIZ](#)

Fokus on water quality and infrastructure

In water research, the topics of water quality and infrastructure are high on the international agenda. GWRC Managing Director Stéphanie Rinck-Pfeiffer recently discussed current priority topics of the Global Water Research Coalition GWRC in depth with the staff of TZW: DVGW-Technologiezentrum Wasser (German Water Centre). [Read more](#)

1000+ on LinkedIn

TZW has been active on LinkedIn for about three years now in order to inform and network on this highly used professional social media channel as well. We have recently "cracked" the 1000-follower mark - thank you and welcome to all those who do not yet follow us 😊 [Link to the TZW-Account](#)



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