

Drinking water, the key to life!

10 Ultrafiltration for drinking water production

2 | *TrinkwV = German Drinking Water Ordinance*

3 | *DVGW = German Technical and Scientific Association for Gas and Water*

4 | *FNU = formazin nephelometric unit, scattered light measurement to determine the turbidity according to ISO 7027*

Germany's biggest mining company for the production of products containing potash and magnesium focuses on the extraction of potash and salt for agricultural and industrial applications. OSMO was commissioned by this company with supplying an ultrafiltration plant for the production of drinking water and process water.

The ultrafiltration system was specially designed and delivered according to the high requirements of the TrinkwV² and the regulations of the DVGW e.V.³.

Clarity from turbidity

The mixed raw water originating from multiple sources and deep wells has a turbidity of about 40 FNU⁴ in the event of rain, which OSMO Membrane Systems GmbH successfully

filters and processes to give a FNU measurement of less than 0.2. The plant has an output of 60 m³/h. The turbidity-free and germ-free filtrate generated is further treated with a UV plant and chlorine dosing to meet high demands.

In addition to the planning, delivery and installation of the ultrafiltration plant, the scope of supply also includes electrical integration into the process control centre as well as start-up, a one-month trial operation and on-site training. The ultrafiltration plant successfully went into operation in March this year. This contract demonstrates once again the great confidence and first-class reputation that OSMO Membrane Systems GmbH has in the European market.

OSMO Membrane Systems GmbH was awarded a contract to supply an ultrafiltration plant for drinking water production in Germany.

