

# Mobile Drinking Water Treatment Hecklingen



Based on newly developed treatment concept, WTE constructed a **mobile pilot plant** for future challenges in drinking water supply.

The installed technology with our unique treatment process has been successfully used for the piloting of a new drinking water plant.

# Technical details

The pilot plant has a capacity of 3,000 liters per hour and includes multiple process steps with oxidation by aeration, bio-filtration with nitrification, ion exchange for reduction of the organic load, ion exchanger for removal of arsenic as well as a membrane stage.



## Pilot trial results

	Influent	Effluent
KMnO <sub>4</sub>	46 mg/l	6 mg/l
Fe	0,39 mg/l	0,11 mg/l
Color	50°	6,5°
NH <sub>3</sub>	1,37 mg/l	0,5 mg/l
As	95 µg/l	2 µg/l

**The aim of the mobile drinking water treatment** is the development of a technically and economically optimum treatment concept for different water sources. A high operating stability and securing best water quality in the long term are a special focus. Furthermore, the pilot plant is characterized by very high flexibility for different processes in order to adapt to different raw water qualities.

### The system concept is focused on:

- **Process selection** and design for maximum recovery and efficiency;
- **High operational** reliability through high level of automation;
- **High process flexibility** with the possibility of combining and by-passing each treatment step.

