

Comprex® cleaning
Raw water pipes

Reference project
**Energie Südwest AG
Landau (Germany)**



Figure 1: Comprex® unit on site

Cleaning raw water pipes and gallery wells on a regular basis

Task

- cleaning main raw water pipelines via Comprex®
- (figure 1)
- effective removal of residues
- ensure operating efficacy
- improve energy efficiency

Specifications

- 2 raw water pipes (from well to waterworks) responsible for the basic water supply
- total length: approx. 4.000 m
- Nominal width DN 200 to DN 400
- Pipe material ductile iron

Cleaning using the Comprex® procedure

- mechanical cleaning based on specific implementations of purified air and water
- supply of compressed air in effective amounts (via Comprex®-unit, see figure 2)
- water feed via hydrants at the wellsite
- water discharge via outlet pipe at the waterworks
- regular sampling of process water to detect the treatment progress, based on water turbidity (figure 4)
- 1 technician, 13 on-site workdays

Result of Comprex® cleaning

- effective mobilisation and removal of residues (foremost iron and manganese sludge)
- improved operating efficiency
- improved hydraulics power due to minor pressure loss
- efficient pump operation



Figure 2: Controlling the cleaning impulses via Comprex® unit



Figure 3: Monitoring water discharge



Figure 4: Sampling of process water