

Comprex® cleaning
Raw water pipes

Reference project
Stadtwerke Heppenheim
(Germany)



Figure 1: Comprex® unit in action (symbolic imaged)

Cleaning two well pipes connected to the waterworks

Task

- cleaning iron ochre precipitations from raw water pipes with Comprex®
- removal of massive iron and manganese residuals from the pipes (figure 2)
- restore original condition of pipe diameter
- ensure operating efficacy
- improve energy efficiency

Specifications

- 5 water pipes (from well to waterworks)
- total length approx. 800 m
- nominal width DN 150 bis DN 300
- pipe material: AC

Cleaning using the Comprex® procedure

- mechanical cleaning based on specific implementations of compressed air and water
- cleaning water feed-in via well
- cleaning water outlet via settling tank at the waterworks (figure 4)
- 1 technician, 18 on-site working hours

Result of Comprex® cleaning

- effective mobilisation and removal of residues for the most parts (predominantly iron and manganese sludge)
- total removal of approx. 10 m³ solids from the pipes
- restored operating efficiency almost equal to as-new condition
- improved hydraulics power due to minor pressure loss
- efficient pump operation



Figure 2: Condition of pipe before cleaning



Figure 3: Condition of pipe post-cleaning



Figure 4: Water outlet at settling tank