

## Construction of the waterworks Zillierbach

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<b>Project Objective:</b>	Construction of the waterworks Zillierbach with the clean water pump station
<b>Location:</b>	Wernigerode, Saxony-Anhalt
<b>Client:</b>	Stadtwerke Wernigerode Harz GmbH
<b>Beneficiary:</b>	Stadtwerke Wernigerode Harz GmbH
<b>Completion:</b>	2001
<b>Investment:</b>	approx. 3,8 Mio €



Removal of the existing aggregates and pipework to elevated tanks of Elbingerode, construction of piping and pump systems including clean water pump station.

### Services provided:



Phases 1-9 according to the German Fee Scales for Architects and Engineers (HOAI)

- Technology
- Control technology
- Project design and structural design
- Construction supervision acc. to § 57 HOAI
- Project Management

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### Project description:

#### Clean water pump station

- Clean water pump station with 3 vertical centrifugal pumps (Q=100m<sup>3</sup>/h, H=150m)
- Pipeline construction, relocation of double pipelines to elevated tanks of Elbingerode
- Control technology for fully automatic operation with remote surveillance

#### Completely new treatment technology used as floc filtration facility

- Pressure filtration done in 2-steps (deironing / demagnetisation)
- Upstreamed floc formation reactors
- Chemicals dosing plant (lime water, powdered activated carbon, FM, FHM)
- Drinking water disinfection with chlorine dioxide and/or chloride)
- Purge air and rinsing water pumps



#### Filtrated rinsing waste water treatment facility

- Settling pond (V=340m<sup>3</sup>)
- Plate cutter with pre-thickening
- Machine sludge thickening
- Sludge storage tank (V=85m<sup>3</sup>)
- Removal of liquid sludge
- Construction of filter hall and sludge treatment hall with transfer station
- Control technology for fully automatic operation with remote surveillance
- Roads, channels, outside facilities, greening, lighting and site security