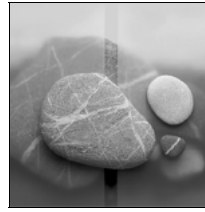


## City of Zurich, Switzerland

### WWTP Werdhölzli Zürich, 640'000 PE, Switzerland



#### Project description

Retrofit and large expansion of the existing plant for enhanced treatment with C-degradation, nitrification physico-chemical phosphorus precipitation and gravity filtration for total suspended solids, anaerobic sludge treatment and dewatering. Project in three phases:

Phase 1: Common design project for retrofit and expansion of the sludge treatment plant with pre-thickener, thermophilic pretreatment, anaerobic digestion, gas utilization and odour control.

Phase 2: Final design project for the sludge treatment plant. Common and final design project for retrofit and expansion of the biological wastewater treatment plant for enhanced nutrient removal. Including pumping station for biological treatment plant with capacity of 9'000 l/s.

Phase 3: Feasibility study and preliminary project for enhanced nutrient removal with nitrification, denitrification and biological phosphorus elimination.

- Location: Werdhölzli Zürich
- Duration: 1976 -1993
- Total Costs: 300 Mio CHF
- Lot 3 and 5: 115 Mio CHF
- Value of Services: 4.50 Mio CHF

#### Highlights

- Retrofit and expansion of the largest wastewater, treatment plant in Switzerland.
- Complex structural details due to groundwater.

#### Our services

- Project management, civil and process engineering for Lot 3 (biological treatment) and Lot 5 (sludge treatment).



**Construction of aeration tanks for biological treatment**



**Aerial view of WWTP Werdhölzli, Zürich, Switzerland**



**Aeration tanks with fine bubble aeration system for activated sludge treatment system**

