

"ONE TANK REACTOR"-PLANT **Moritzburg** near Dresden(Germany-Saxonia)



- Start-up date: June 1993
- Connection Load: Designed for 2,000 population equivalents (p.e.)
BOD₅-load: 120 kg/d
- Plant concept: Extended aeration (sequenced batch technology) Simultaneous sludge stabilisation, nitrification, denitrification, organic sludge age > 20 days
- Sewer concept: Separated system (rainwater is separately discharged).
- Effluent results: BSB₅ = < 5.0 mg/l
CSB = < 30.0 mg/l
NH₄-N = < 0.5 mg/l
P_{total} = < 3.0 mg/l
- Technical features: One stage SBR-system with inlet-equalization tank, sludge storage tank (retention period 180 days).

Discharge of the pretreated sewage by a pumping station, sized as an inlet buffer tank.

Aeration and oxygen-supply by use of a floating surface-aerator (type BSK ZK 2000). Speed control according to the oxygen requirement.

Discharge of the purified wastewater by use of two decanting pumps.

Circular tank constructions out of waterproof concrete (B 35). Tank height 5.0 m, tank diameter 15 m.

