

Membrane Wastewater Treatment Monheim



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The sewage treatment plant of Monheim for the first time uses a membrane bioreactor system for municipal wastewater treatment in Bavaria. Submerged membrane fibres are installed in four separate chambers, which are part of the bioreactor. The fully automatized chemical maintenance cleaning does not require removal of fibre-modules and works without chlorine demand. The high output quality achieved with this system even reaches the governmental pollution abatement criteria for bathing water.

Process technology:

- 1 Mechanical treatment with sieve screen and grit chamber
- 2 Biological treatment with membrane activated sludge process, aerobic stabilisation and phosphate precipitation
- 3 Sludge tanks with mobile dewatering

Design capacity:

- > 9 700 PT equivalents
- > Wastewater inflow: 1.820 m³/d
- > Peak flow: 80 l/s

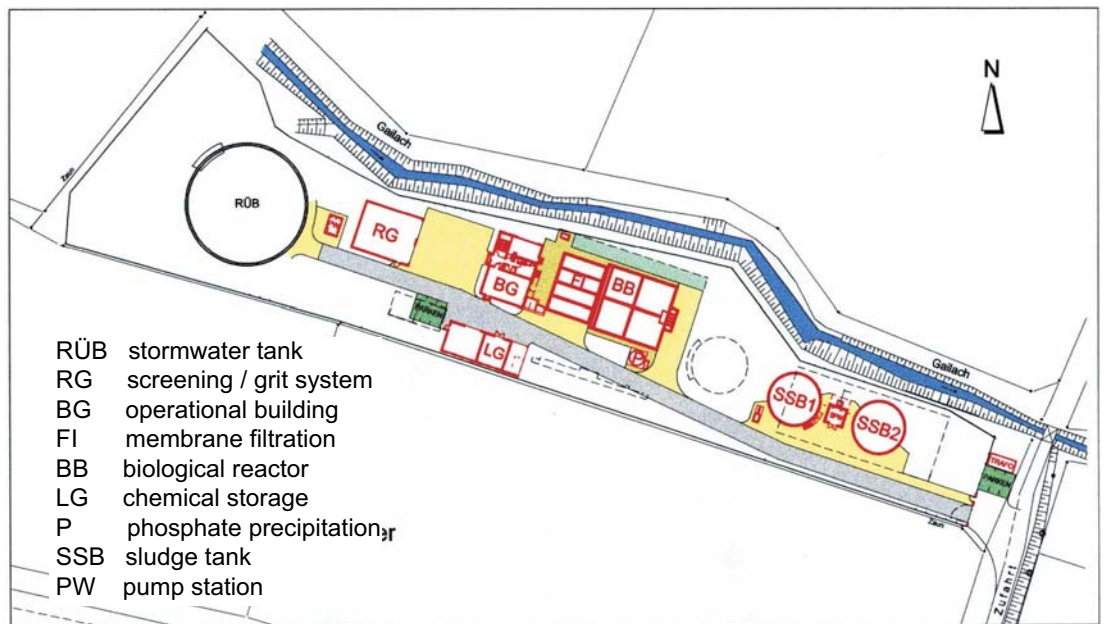
Construction costs:

- > 6,65 million Euro



Biological reactor and filtration ▶

Site plan ▶



◀ View from North

Pilotproject Wastewater Disposal in the Gailachtal



Town of Monheim