

# Constructed Wetlands for stormwater and advanced sewage treatment

## at wastewater treatment plant Renquishausen, Germany

Owner:  
Municipality Renquishausen  
Kolbinger Str. 1  
78603 Renquishausen, Germany

Tertiary treatment of wastewater and treatment of stormwater for pathogen removal. Discharge into an infiltration area nearby which serves as a drinking water sanctuary.



Person equivalent:  
900 PE

Planning: 1999 – 2000  
Construction: 2001

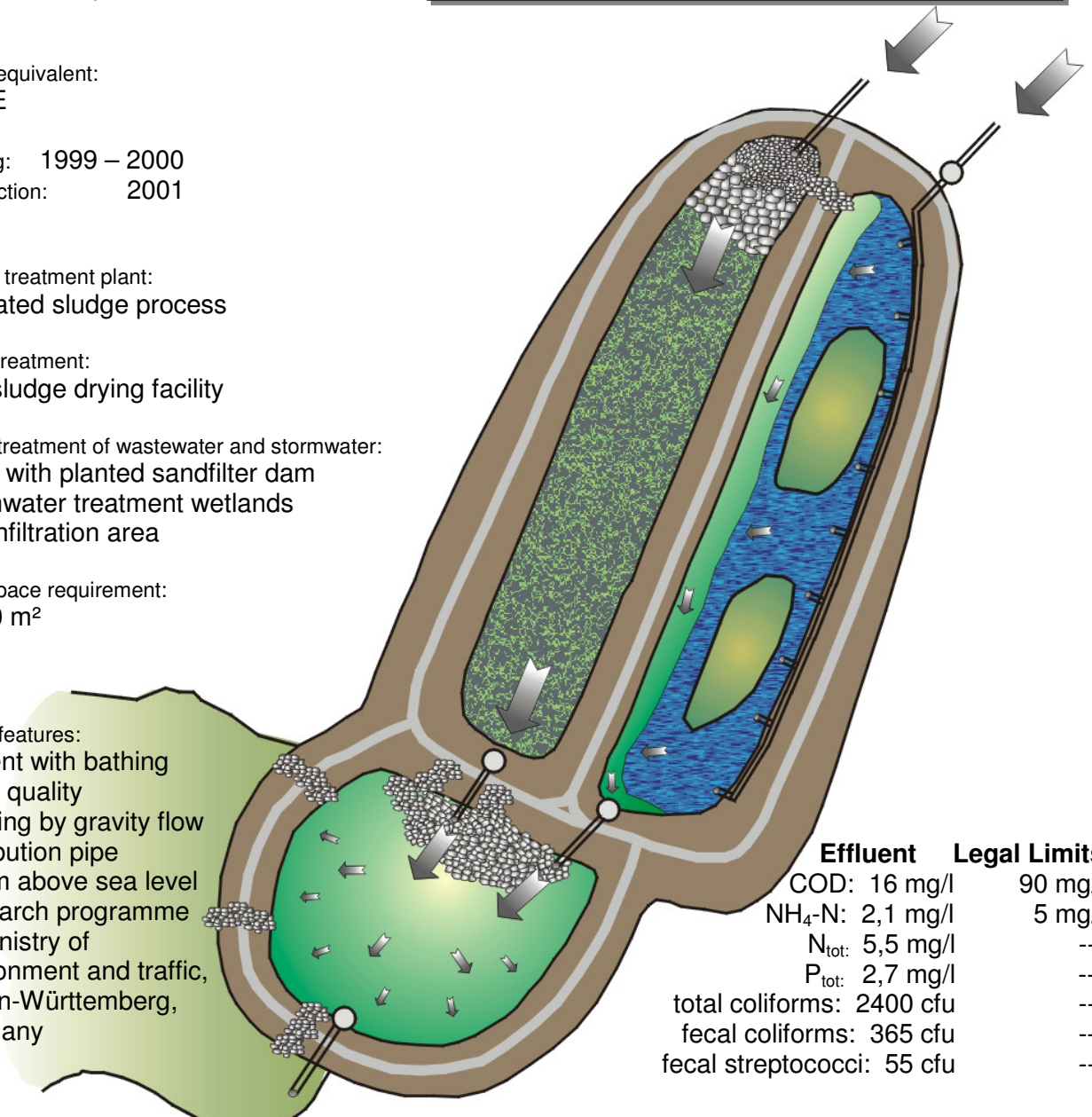
Sewage treatment plant:  
- Activated sludge process

Sludge treatment:  
Solar sludge drying facility

Natural treatment of wastewater and stormwater:  
- Pond with planted sandfilter dam  
- stormwater treatment wetlands  
- Soil infiltration area

Gross space requirement:  
- 6000 m<sup>2</sup>

Special features:  
- effluent with bathing water quality  
- Feeding by gravity flow distribution pipe  
- 800 m above sea level  
- Research programme by ministry of environment and traffic, Baden-Württemberg, Germany



Effluent	Legal Limits
COD: 16 mg/l	90 mg/l
NH <sub>4</sub> -N: 2,1 mg/l	5 mg/l
N <sub>tot</sub> : 5,5 mg/l	---
P <sub>tot</sub> : 2,7 mg/l	---
total coliforms: 2400 cfu	---
fecal coliforms: 365 cfu	---
fecal streptococci: 55 cfu	---