

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

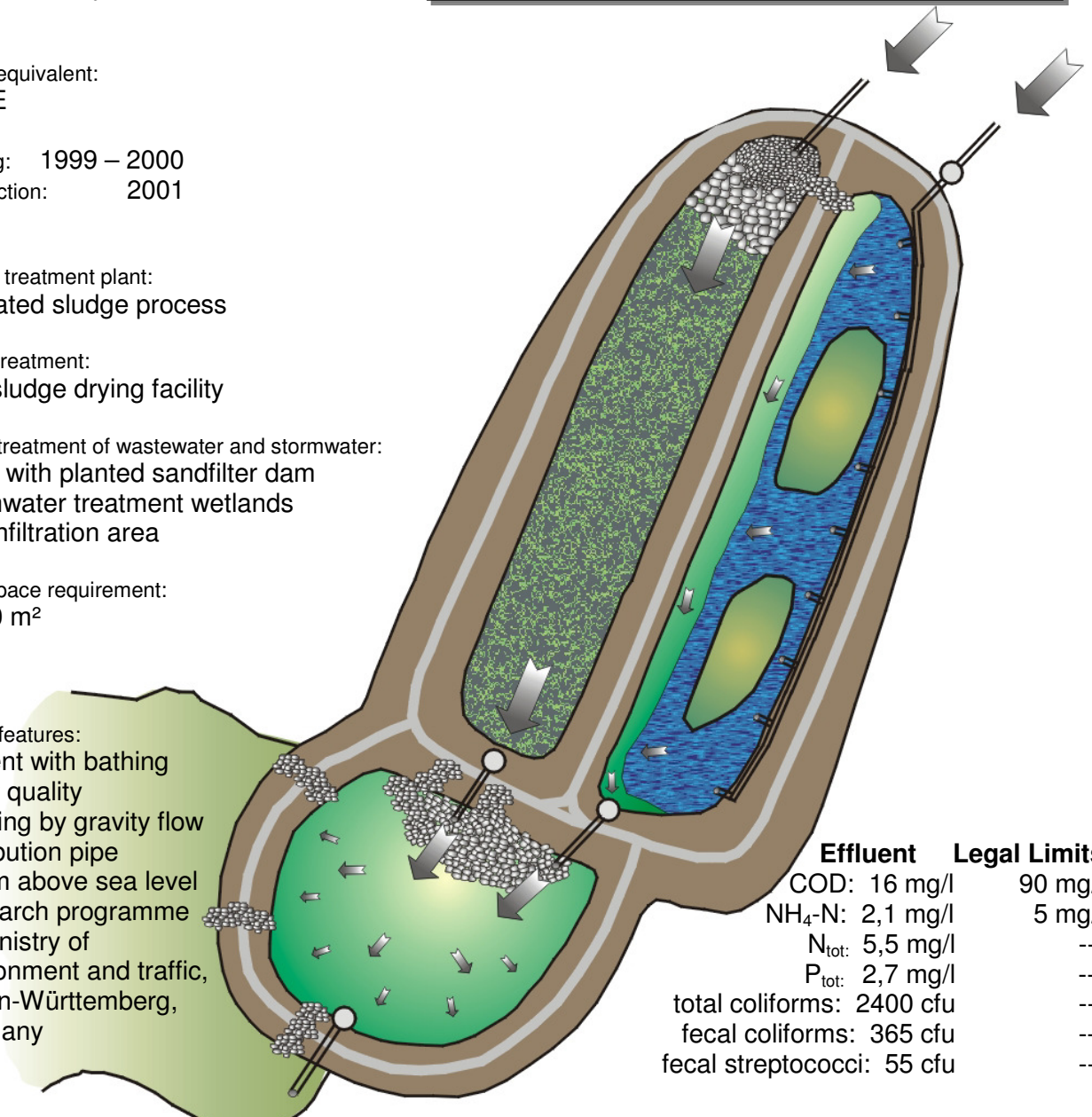
Sewage treatment plant:
- Activated sludge process

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 m²

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 ₄ -N: 2,1 mg/l	5 mg/l
N _{tot} : 5,5 mg/l	---
P _{tot} : 2,7 mg/l	---
total coliforms: 2400 cfu	---
fecal coliforms: 365 cfu	---
fecal streptococci: 55 cfu	---