

REFERENCE 2008-10

MOBILE WASTE WATER TREATMENT GERMANY, NEAR KOBLENZ



Edge conditions:

Municipal Wastewater
Fluctuating influent
Combined sewer system

Input data

COD : 793 - 1589 mg/l
BOD₅ : 397 - 580 mg/l
NH₄-N : 38 - 90 mg/l
P_{tot} : 10 - 28 mg/l
Q_t : 5 - 24 m³/d (Average 32)

Results with ENVIMAC SFBBR-System

Fixed Bed volume 24 m³
Specific surface 150 m²/m³
BOD surface load 8 g BOD₅/m²*d
Pre/post sedimentation 11,94 m³

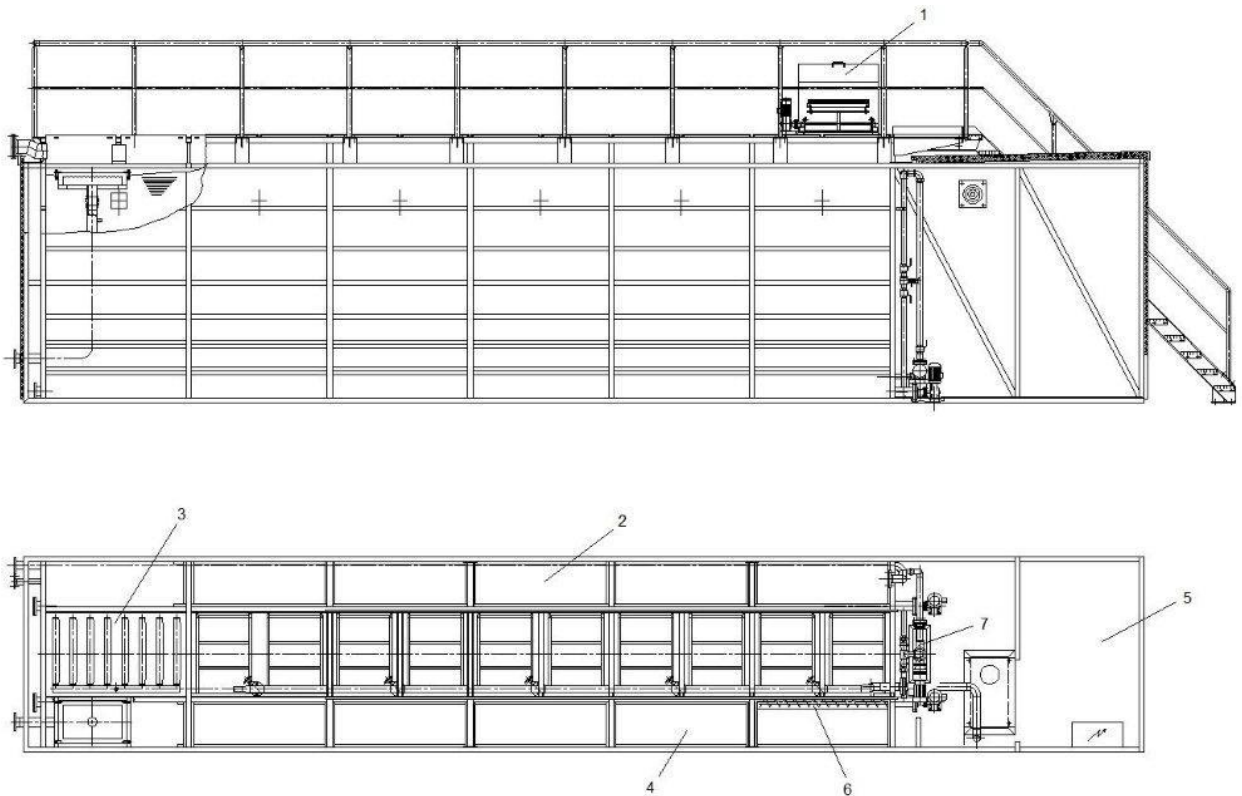


Average influent concentrations

BOD₅: 448 mg/l,
COD 1194 mg/l,
NH₄-N 73 mg/l

Elimination:

BSB₅: 99 %
CSB 96 %
N_{Tot.} 66 %



SFBBR Mobile Treatment Unit [1 Screen, 2 Presedimentation, 3 Submerged fixed bed, 4 Postsedimentation, 5 Engineer room, 6 Covering, 7 Water and sludge pumps]