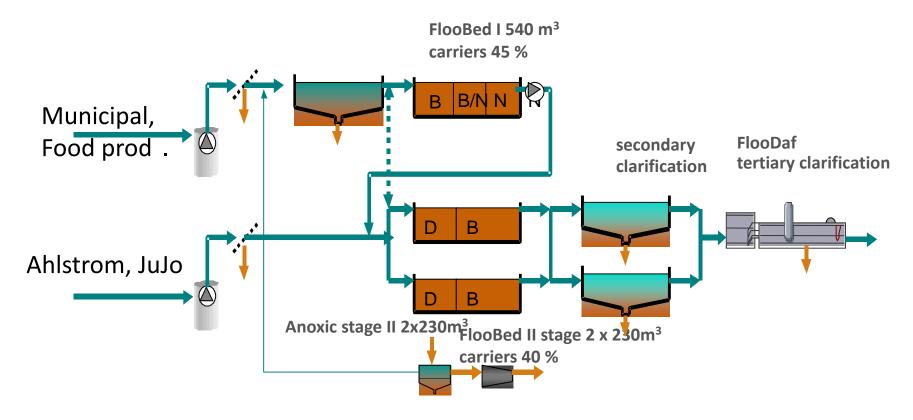
FlooBed MBBR Based Process

Eura Municipal Sewage Treatment Plant



Eura Treatment Plant Process Description



B = BOD removal (*soluble organics* are removed by microbes)

N = Nitrification stage (ammonium is changed into *nitrate by* microbes)

D = Denitrification stage (nitrate changed into *nitrogen gas* by microbes)



Eura Treatment plant Dimensioning

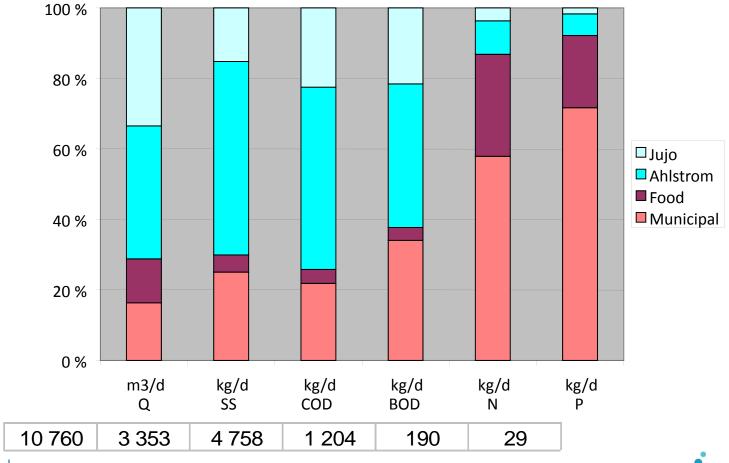
- Municipal wastewater (Eura municipality)
- Food processing wastewater (HK)
- Paper Mill wastewater (Jujo Thermal, Ahlstrom Kauttua)
- Flow

•	Q	10 760	m3/c
•	q _{avg.}	360	m³/h
•	q _{dim}	560	m³/h

- Suspended solids
 - TSS 3 353 kg/d ~ 311 mg/l
- Organic load
 - COD_{Cr} 4 758 kg/d ~ 442 mg/l • BOD_{7ATU} 1204 kg/d ~ 112 mg/l
- Nutrients
 - N_{tot}
 P_{tot}
 191 kg/d
 29 kg/d



Eura Treatment plant Dimensioning, Wastewater Loadings





Eura Treatment plant Required quality of treated wastewater

Target values

Measured values 10.12.2007

Temperature in nitrification stage from 9 (winter) to 20 °C (summer)

