

# REFERENCE 2010 - 4

## INDUSTRIAL WASTEWATER TREATMENT

### JUICE PRODUKTION



**Content of wastewater:** sugar, small pieces of fruits, detergents,

**Influent data** :

COD	:	1850	-	8400	mg/l
BOD <sub>5</sub>	:	1060	-	6500	mg/l
pH	:	3	-	12	
NH <sub>4</sub>	:	0,06	-	0,6	mg/l
NO <sub>3</sub>	:	0,5	-	20	mg/l
P <sub>tot</sub>	:	1,8	-	2,9	mg/l
COD/BOD: 1,12 - 5,56					

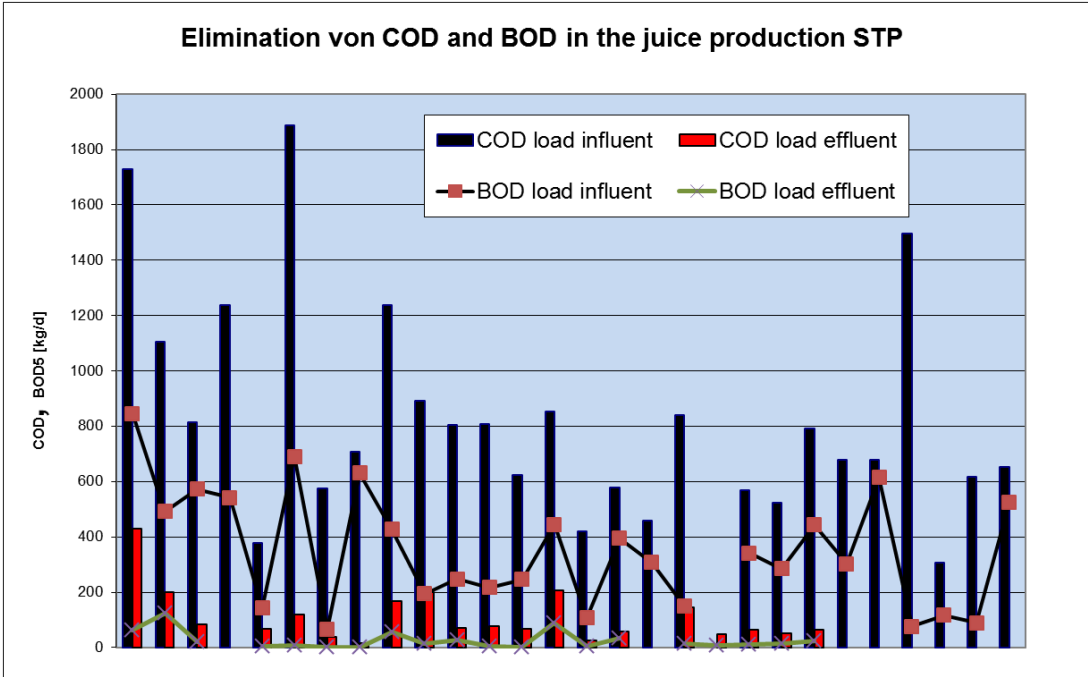
**Target: COD-Elimination for load reduction of the local STP**

**Results with an ENVIMAC SFBBR-Sytem**

Submerged fixed bed	=	24 m <sup>3</sup>
Specific surface	=	100 m <sup>2</sup> /m <sup>3</sup>
Surface load	=	125 g BOD <sub>5</sub> /m <sup>2</sup> *d
Volume pre/postsedimentation	=	12 m <sup>3</sup>

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**COD Removal i.a. 87%**  
**BOD removal i.A. 93%**

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