



## Philippines

### WWTP Data

Type of WWTP	Portable wastewater treatment plant treating 80% kitchen wastewater and 20% domestic wastewater from septic tank
Maximum Flow	10 - 15 m <sup>3</sup> /d
Process stages	1st screen chamber 2nd oil & grease separation 3rd aeration chamber 4th sedimentation 5th disinfection chamber
Operation	continuous aeration
Treatment	Carbon Elimination



### Why using Cleartec® Biotextil as growth media ?

Based on previous installations using a different media the growth of microorganism requires longer time. In 2012 when coconut fibers with recycled PVC fillers of cooling towers were used following BOD effluent results were obtained over a period of 4 months.

Date	15.03	19.04	17.05	15.06	16.07
BOD Effluent [mg/l]	630	258	872	250	529

The results neither met the legal standard of 50 mg/l nor were the process stable to cope with influent fluctuations. In 2014 when Cleartec® Biotextil was introduced the treatment showed better efficiency in terms of microbial growth because of its texture and it took shorter time to attain better results. After only 43 of installation, legal requirements were met.

### Which results are reached with Cleartec® Biotextil?

Parameter	Influent [mg/l]	Effluent [mg/l]	
		Feb 2016	Legal Standard
COD	835	20	100
BOD	267	14	50
TSS	300	14	70

Cultured bacteria are put into the system to enhance the degradation of persistent organic pollutants. Since the start up in 2014, the positive effect of Cleartec® Biotextil led to more installations of PWWTP for fast food restaurants.



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