



The waste water treatment plant at Ta'Barkat on Malta during construction in October 2010.



Some of the Biological Aerated Filters at the waste water treatment plant at Ta'Barkat on Malta, filled with Filtralite®.

# Filtralite® helps to keep the Mediterranean clean

In 2005, it was estimated that only 6.4 % of the domestic wastewater in Malta was treated. The remaining was discharged untreated into the Mediterranean Sea.

Based on these numbers it was decided that there were going to be built three new wastewater treatment plants. One of these was the Malta South Sewage Treatment Plant in Ta'barkat at Xghajra. The plant is designed to clean 51,000 m<sup>3</sup> of sewage every day, which equals 80 % of all the wastewater produced in Malta. This will reinstate good seawater quality in areas previously polluted and will to some extent remove odors. The plant started operations in January 2011.

**Leca Norge AS** delivered in 2010 6000 m<sup>3</sup> of Filtralite® to the plant in Ta'barkat.

**Filtralite®** will be used in biological aerated filters, where bacteria degrade compounds in the wastewater. In total there are 8 filters for denitrification and 12 filters for removal of organic compounds and nitrogen. Further the process consists of filtration through a sand filter to remove fine particles and bacteria, and UV disinfection to kill the remaining microorganisms.

Two-thirds of the treated water is finally discharged into the Mediterranean and is of bathing water quality, while one-third is re-used for irrigation.

## RAW WATER QUALITY AT THE MALTA SOUTH SEWAGE TREATMENT PLANT

Parameter	Average value
COD (mg/L)	983
BOD5 (mg/L)	492
Suspended Solids (mg/L)	573
Total Nitrogen (mg/L)	73
Temperature [°C]	18-25
pH	6.5

The treated water quality is in accordance with the Urban Wastewater Directive and the European Regulation.