

# eco-Design of water management in the artificial island of SIR BAN YAS IN ABU DHABI, UNITED ARAB EMIRATES

URBAN PLANNING AND LANDSCAPING: eco-District and rainwater treatment BY PLANTS

**Client** City of Abu Dhabi  
TDIC

**Location** Sir Ban Yas Island, UAE

**Project** Eco-design of water management in Sir Ban Yas

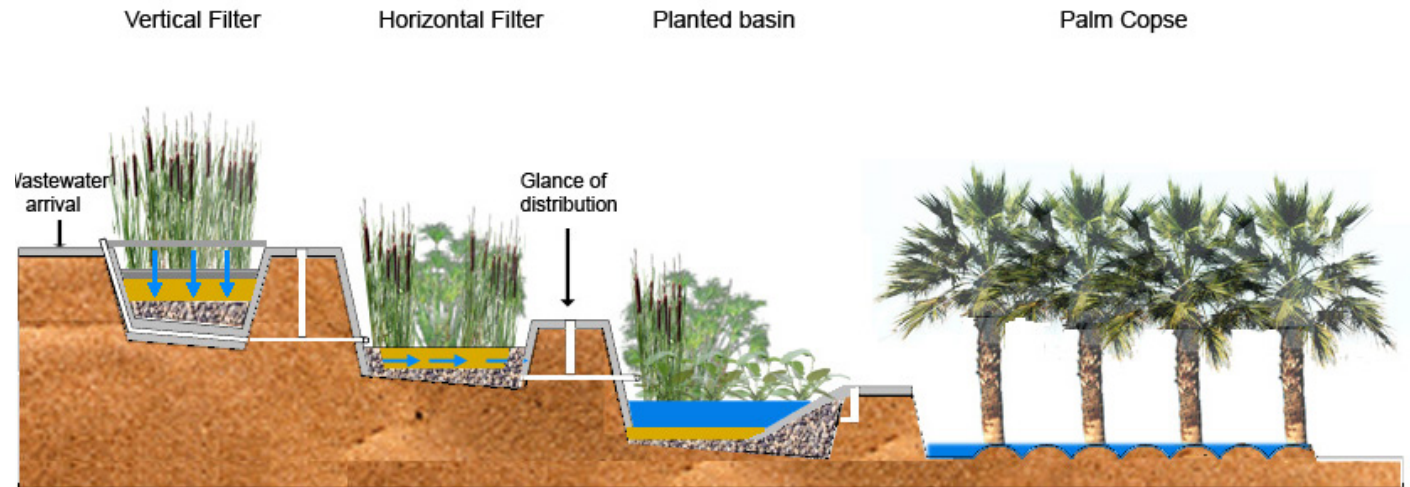
**Mission** Landscaping HQE® design, study

**Consultant** AR ARCHITECTES

**Designer**

**Area** plot 289 km<sup>2</sup>

**Date** Study in Décembre 2009



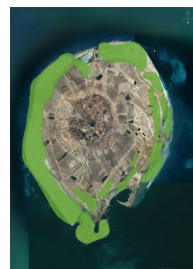
Section showing the sewage treatment plant by constructed wetlands



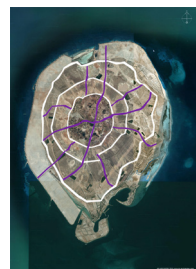
Aerial view of the island, 170 km from Abu Dhabi



Biodiversity



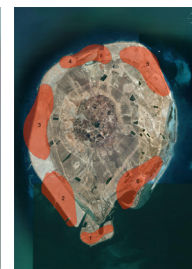
green belt



Infrastructure



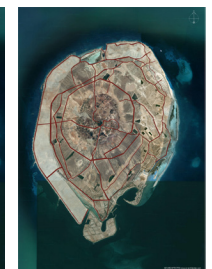
Nucleous



Theme parks



Water reservoirs



Roads

The aim of this project is to create a green landscaping in the Sir Ban Yas Island by designing ecological zones, green areas, and constructed wetlands capable to clean the grey water coming out of the futur constructions and restore the island's biodiversity. New environmental technologies are used, especially the filtering of sewage water by the plants

