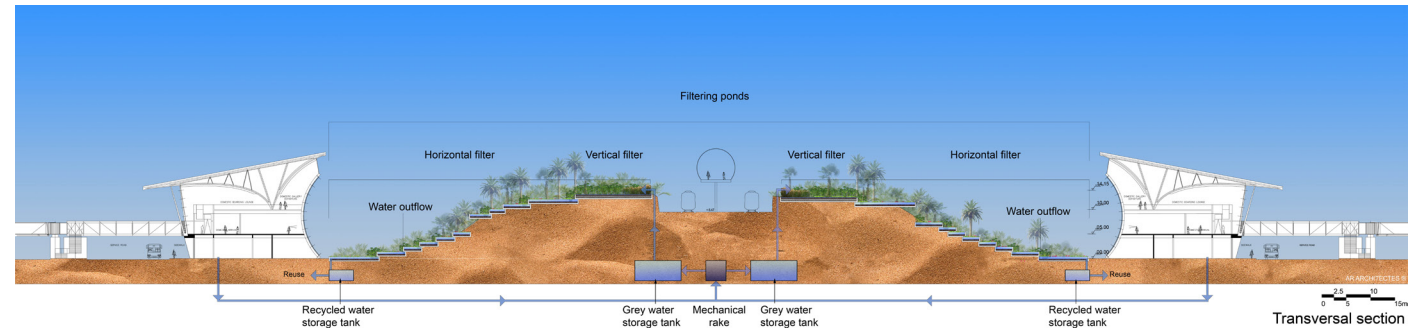


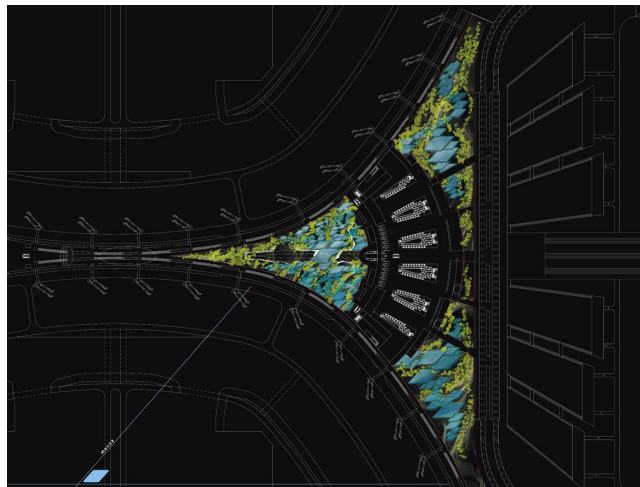
# eco-Design OF A FILTERING SYSTEM THROUGH A GARDEN IN THE NEW AIRPORT OF JEDDAH, IN SAUDI ARABIA

URBAN PLANNING AND LANDSCAPING: INFRASTRUCTURE, HQE® APPROACH

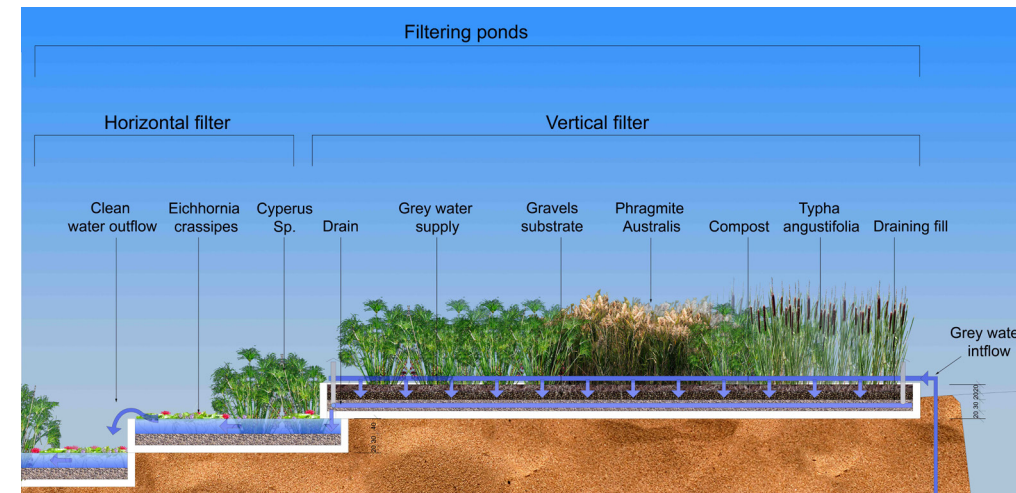
**Client** Jeddah's Airport  
**Location** Jeddah, Saudi Arabia  
**Project** Eco-design of filtering ponds in the garden of the airport  
**Mission** Landscaping HQE®, study  
**Consultant** ADPI, TNPLUS, Atelier d'Ecologie Urbaine, AR ARCHITECTES  
**Designers** plot 25 000 m<sup>2</sup>  
**Area** 1000m<sup>3</sup>/day  
**Capacity**  
**Date** Study in April 2008



Section showing the water treatment plant by a green filtering ponds



Mass plan of the filtering ponds



Section showing the green water filters planted by papyrus

The site is located in a deserts like zone. The aim of the project is to create an artificial garden at the airport site that will recycle the grey water coming out the new terminal. Clean water is then recycled inside of the terminal for sanitary use. The garden is 25 000 m<sup>2</sup> and treats almost 1 000 m<sup>3</sup>/d. of grey water by papyrus plant.

