

## Dubai Sports City, UAE

### Industrial Reverse Osmosis Waste and Processed Water

In the Middle East, fresh water is becoming more and more difficult and expensive to obtain. As a result countries are investing in alternatives in water purification such as reverse osmosis and desalination.

In May 2007, Pure Aqua successfully supplied a water treatment package consisting of a Reverse Osmosis System to produce 200 gpm of product from 250 gpm feed, antiscalant chemical dosing, prechlorination chemical dosing, acid injection dosing, and dechlorination dosing systems.



### SYSTEMS & PROCESS

Feed water to the system is processed water with raw water TDS of about 1,500 PPM. The system design was based on high rejection TFC spiral wound low fouling membranes.

The Reverse Osmosis system was selected from our RO-500 Series, model number BW-360K-8680-3. It produces 200 gpm of drinking water with TDS less than 100 mg/L.

The Reverse Osmosis unit consists of 5-micron cartridge filters to reduce feed water Silt Density Index (SDI) and to limit the SS to 5-micron size. TFC spiral wound membranes have a recovery rate of 80% with an advanced microprocessor control panel and cleaning system.

### PERFORMANCE

From a feed TDS of about 1,500 mg/L at temperature range of 27°C, the system produces 200gpm of high quality water at less than 100 ppm. The water produced will be used in the water park area of the Sports Center in boating areas, pools and water slides.



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