

# CASE STUDY

December 2012

## Environmental Sustainability at Helmand Regional Distribution Centre (HRDC)

*The Helmand Regional Distribution Centre (HRDC) is an off-base camp, located in Southern Afghanistan. The camp was constructed by Supreme to provide a base for delivery of services to US and UK military clients. HRDC covers an area of more than five football fields and provides an integrated logistics hub and warehouse facility for activities in the region.*

### SCOPE

880 personnel are employed directly for the distribution operations of the facility and live and work on site. To promote environmental sustainability, two Reverse Osmosis Plants were constructed to provide a sustainable and uninterrupted supply of water for the camp and its residents. At HRDC potable water is required for:

- Kitchen facility which feeds 880 people
- Ablutions for all personnel on site
- Warehouse chiller plants for the freezers.

### SOLUTION

A project was initiated for the drilling and drawing of raw water, and the construction and management of two Reverse Osmosis Plants to make the water safe for use.

The project was spread out over three phases:

1. Designing the plant according to the requirements;
2. Identifying the most applicable components according to water quality, environmental conditions and the budget, drilling of six bore holes;
3. Assembling all the plant components together according to the design.



*Supreme constructed two Reverse Osmosis plants at the HRDC to provide an uninterrupted supply of water for the camp and its residents.*

### OUTCOME

All phases were completed within a six month period with treatment plants built in Dubai and installed on site by our own technicians. The facility took roughly six weeks to build from date of order and was installed in two days, including commissioning.

Maintenance is now carried out daily, weekly and monthly and involves checking and replacing filters on a regular basis to ensure a complete filtration at all times. We have both 20 and five micron filters on the plant to screen out any impurities that may be drawn from the wells. The waste water from the plant is pumped through pipe work to the sewage treatment plant where it is processed, treated and then discharged into a pond where it may be used for dust suppression.

With the construction and operation of the two Reverse Osmosis Plants, Supreme has made a significant contribution towards the environmental sustainability of the camp, ensuring an uninterrupted water supply for the operation and maintenance of the site.