




Project Info

 23 / 03 / 17


 CCH8™ Bulk Rolls


 400m²

 Longitudinal layers

 Shaybah Wildlife Sanctuary (Saudi Aramco)

 FOQSCO

 CCH8™ was used to line four irregular shaped ponds and two tank storage areas in a wildlife sanctuary to prevent damage caused by animal traffic and to improve the safety of the animals which use the ponds.





Completed pond installation at Shaybah Wildlife Sanctuary

In March 2017, CC Hydro™ was used to line 4 irregular shaped water ponds and two tank storage areas for wildlife in the Shaybah Wildlife Sanctuary in Saudi Arabia.

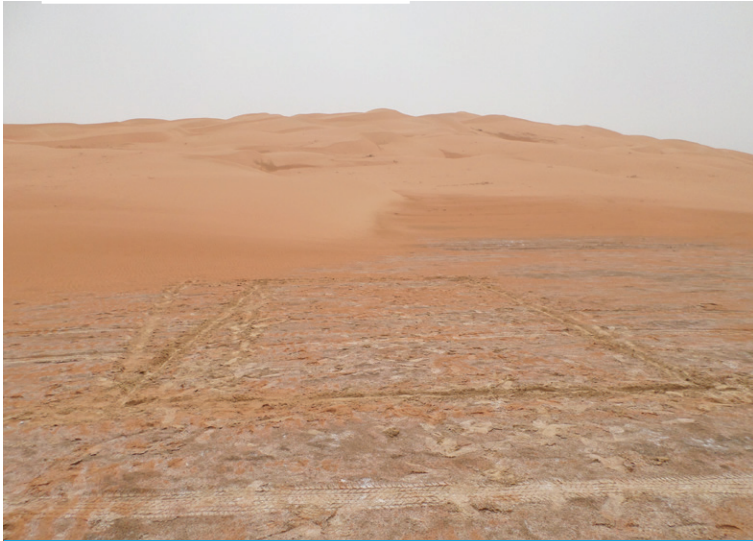
Each pond was approximately 11m in length by 6m wide and 20cm deep. PVC was being used to line the ponds prior to the project, for the two ponds that already existed, however, cleaning them was very difficult and the PVC was slippery and a hazard for the animals using them, as well as being easily damaged by their hooves. CC was chosen for the project as it would resist damage caused by animal hooves, and would be comparatively easier to clean.

The site, owned by Saudi Arabian oil company, Saudi Aramco, not only posed issues for access due to being privately owned, but the environmental conditions of the area were dry and hot with frequent sand storm-like conditions which could slow or stop progress on any works and make the project difficult, and had to be taken into consideration.

The works were carried out by FOQSCO for Saudi Aramco.

In preparation for the installation, the two existing ponds were stripped of their PVC linings, while the two new ponds were marked out, excavated and compacted to the desired shape, with a depression in the centre to allow for adequate water storage in the ponds.

*Geosynthetic Cementitious Composite Mat



The new tank storage areas and ponds were marked out before excavation



The ponds were dug with depressions in the centre for water storage



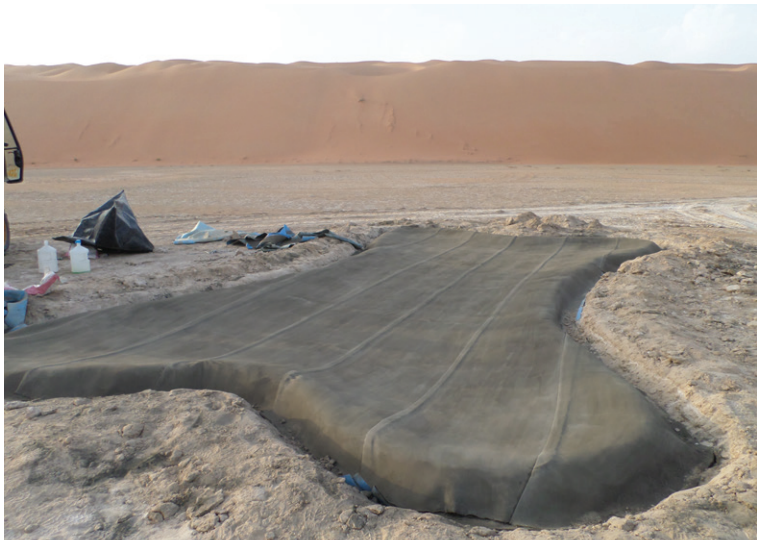
The CCH was cut to length and transported via wheelbarrow to the ponds



The CCH was laid longitudinally along the ponds



The layers of CCH were jointed using a hot air blower and roller



Finished joints



Completed pond installation

The CC was delivered to site in bulk rolls of CCH8™, which was mounted onto a spreader beam, held on two poles, then cut to the required lengths. The pieces were then moved to the site using wheelbarrows, unrolled across the ponds and the layers were the jointed using a hot air blower and rollers. On the outside edges, the CCH was pegged and anchored in pre-dug trenches, before being hydrated using a hose connected to a water tank. This was repeated for each pond, and the two tank storage areas.

400m² of CCH8™ were installed over three 8-hour days by a team of 6 people despite hot, dry weather conditions. The project will be scrutinized over a time period to determine if it sustains any damage from animals. However, the install was successfully, and the client was happy with the solution, particularly due to the speed and ease of installation.