

FUEL TANK FARM

Lagoon Liner Dallas Fort Worth Airport (DFW)

When Dallas Fort Worth Airport (DFW) needed to upgrade their fuel tank farm storage facility, the project engineers, Burns & McDonnell Engineering, decided to use the same lagoon liner which they had successfully installed at a similar upgrade project at the SeaTac airport in the Seattle/Tacoma area.



The GEOWEB® System including pre-drilled, texturized GEOWEB sections, ATRA® clips, tendons and the specified stapling system were delivered in December of 1998. In January, layout crews began the process of setting up the GEOWEB tendon anchor system.

Sections were first placed, then pre-threaded with tendons and then expanded into place and stapled at the seams. The ATRA clip system was used as a restraint clip at specified intervals on the tendon. With the GEOWEB cells open and anchored, the wet concrete would be held in place by the GEOWEB System.



The GEOWEB System was set up a day or two before the concrete materials were poured.

A 23 meter concrete pump was used with a special fitting on the end of the boom which smoothed out the pumping action and made placement easier.



Placement crews put down 120 cubic yards of materials on the first day's pour. On following days, the same crews placed 140 and 150 cubic yard per day with the same number of laborers. The pump was large enough to complete the pour of this dike from just two setup positions.



Finisher in foreground is applying final broom finish. Both broom and rake finishes were used on this job. With the GEOWEB tendon anchor system, the contractor was able to deploy and finish large areas of concrete on top of a liner protected dike without use of stakes and without time consuming forming. The crew placed 12,000 square feet in one day!

Crews apply the final finish.

