

tank shall be tested separately, provided that the design of structure will sustain all imposed loads.

4. All temporary bulkheads, cofferdams, pipe blank flanges and closed valves shall be checked to see that they form a complete seal and if possible, they should be observed during the actual test.
5. Backfilling against exterior walls shall not take place until the Engineer has given his written approval.

#### **14.3.4 Test Procedure**

- A After completion and cleaning of the structure and all associated pipework, if any, the Contractor shall fill the structure with potable water or irrigation water as approved by the Engineer, at a rate of not more than 2m in 24 hours or as agreed with the Engineer. The structure shall then be left filled for a stabilizing period of 7 days or as directed by the Engineer.
  - 1 The water level shall be filled up to the maximum operational level.
  - 2 Water shall be added during the stabilizing period to maintain the maximum operational level.
  - 3 The final water level for the test shall be the top water level or the operational water level or as shown on the drawings.
  - 4 Should any dampness or visible leakage occur at any stage the Contractor shall immediately stop filling and investigate and repair the problem to the satisfaction of the Engineer prior to continuation of the test.
  - 5 If emptied for repairs, the structure shall be refilled, as described above.
  - 6 Before and during testing, flows in the structure underdrainage, if any, shall be monitored, measured and recorded. Each underdrain shall be numbered and observations reported by underdrain number to facilitate analysis of the data.
  - 7 After stabilization, two shallow watertight evaporation trays 200 x 200 x 150 mm deep shall be filled with 75mm of water and placed to float in the structure.
  - 8 The containers shall be positioned away from the sides of the structure and any overhead members that may shield or shade the container.
  - 9 The level of the water surface in the structure shall be measured at a minimum of two locations to be agreed with the Engineer at the start of the test. Commence the test and continue for a period of seven days, unless otherwise agreed by the Engineer.