Structural Defects

There are the obvious and not so obvious things when it comes to structural issues.

All materials used in water transportation or storage need to be ‘fit for purpose’. What is suitable in a normal factory or building situation is often not suitable in a hot, humid and often chemical infused environment.

Many water assets are at least half way through their design lives, so concrete spalling from corroding reinforcement bars and chloride impacts from the surrounding environment are to be expected.

Steel structures need to have effective protective coatings in place to avoid destructive corrosion impacts.

Jointing materials and pipework have shorter design lives than the main asset shell, so mid-life renovations will be required to avoid leakage failures.