

- 1.58 Improvement notices shall be prepared as appropriate and should be applicable for the circumstances prevailing, such that human health and hygiene impacts are resolved as soon as possible, but after no longer than 1 week. “Do Not Drink” warning notices shall be issued to all consumers of water supplied from the failed tanks. Structurally damaged and leaking facilities may warrant a less urgent time scale, but no longer than 1 month.
- 1.59 Follow-up inspections, to lift the improvement notice, shall be undertaken at a timely interval and water quality tests performed, at the owner’s expense, to ensure the water stored is wholesome.
- 1.60 Appropriate written notices, giving no less than 48 hours’ notice, shall be provided by the Responsible Person to all Customers within the Premises prior to any maintenance work, advising them of any possible interruptions to the water supply or any precautions that need to be taken while the maintenance work is being carried out.

Reinforced concrete water storage tanks and reservoirs

- 1.61 The following information details the minimum requirements for design consideration when constructing reinforced concrete reservoirs. In general, constructions of underground reinforced concrete water storage tanks and reservoirs shall be avoided for Low-rise Buildings unless approved by the Distribution Company.

Basic design considerations

- 1.62 A site survey and soil investigation are required at the proposed location of the reinforced concrete tank.
- 1.63 The reservoir foundation shall be free of unsuitable material to the level required as per survey/soil investigation recommendations.
- 1.64 The quality of concrete (minimum to be of grade 40 N/mm²), other materials and workmanship shall be adequate for safety, serviceability and durability.
- 1.65 The concrete reservoir shall be designed in such a manner that it sustains all loads and deformations of normal construction and use, and has adequate durability and resistance to the effects of arid desert conditions and winds.
- 1.66 The specification for concrete reservoirs should be in accordance with ADWEA Standard Specification for Water Works NO. W-C-SS-007, or as approved by the Distribution Company for small storage tanks.
- 1.67 The dividing wall (where constructed) shall be designed such that either compartment may remain full of water (to under roof soffit) whilst the other compartment is empty. The minimum free-board (top water level) shall be 300mm to roof soffit.
- 1.68 The reservoir roof shall be designed for the dead load from the concrete roof slab and other fixtures, live loads and an allowance for personnel working on the roof as