



DUNBAR TREATED WATER STORAGE (TWS) TANK

The Dunbar TWS project was to provide increased treated water storage capacity to provide greater security of supply and also to accommodate increased demand from development in the area.

The works incorporated the demolition of the redundant old tank and the construction of a new, 30m x 30m x 5m high twin-cell, reinforced concrete structure with 450mm thick walls and circular support supporting column, and ancillary chambers for control valves, instrumentation, and process dosing. A new access road, footpaths, plinths and ducting completed the work-scope.

The work was undertaken in a small confined area, where excavated material was stockpiled and retained on site for final backfill & reinstatement, and with the essential craneage accommodated within the footprint of the new structure, necessitating carefully programmed sequencing.

The work was effectively on-line construction with water-into-supply from the adjacent water storage structure, which was in poor condition, being maintained throughout and with the extensive pipework installed and flows transferred, on the live network with complex DOMS compliance requirements.



CLIENT:	Scottish Water
ENGINEER / DESIGNER:	Aecom
CONDITIONS OF CONTRACT:	NEC Option C
DURATION OF WORKS:	Jan – Oct 2013
CONTRACT VALUE:	£1,450,000

- Concrete structure including roof
- Aqueous retaining structure
- Max 400mm ductile iron pipework
- DOMS tie ins
- High volume of Earthworks, groundworks and landscaping
- MEICA works