

ROUSE HILL RWP - STAGE 2 AMPLIFICATION, IDAL TANKS AND EQUALISATION BASIN



A large sewage tank was constructed in Western Sydney. The project was won using a unique method for constructing the retaining walls that involved post tensioning the walls to reduce cracking and using the good quality sandstone foundation which enabled the builder to save significant costs, due to the complexity of the model a full Strand7 finite element model of both the tank and the foundation was undertaken.

Project involves construction of four number IDAL tanks, 24 x 48 metres x 5.85 metres high and an equalisation basin 27 x 49 metres, with a wall height ranging from 4.40 to 6.9 metres. The walls of the tanks have been designed to be socketted into the underlying rock and act as cantilevers. The project was secured on a 'design-construct' basis.

Location:
Rouse Hill, New South Wales

Client:
Sydney Water

Construction Cost:
\$4 million

