

# SHOWCASE

## SP68 Pump Station

Project: SP68 Sewage Pump Station  
Client: BMP Alliance  
Price: 6.8 Million  
Completed: December 2008

Doval was engaged to carry out the excavation and construction of the 14m dia and 25m deep SP68 pump station in Robina. Caisson construction methodology incorporating a jacking system to control the accuracy of the descent of the caisson was used. This required installation of 6no. 100t hydraulic jacks around the caisson supported by a 2m x 2m concrete ringbeam which provided the kentledge required for the jacks.

A high water table was identified and managed through the installation and 24/7 maintenance of 5no. dewatering wells around the caisson. After identifying contaminants in the water a CSM cut-off wall was installed around the outside of the dewatering wells and direct injection of the dewatering into the sewer system was required.

45no. rock anchors were installed in the caisson base where a 2m high floor was constructed. The caisson was then bisected with a 1.1m wide dividing wall constructed with jump forms for the full height of the caisson.



*Top: Caisson during excavation and sinking using 6 no. 100T hydraulic jacks*

*Bottom From Left: Caisson during excavation and sinking; Base of caisson and formwork for dividing wall pour showing the 4 deck levels; Base of caisson showing preparation of reo and formwork for the 3<sup>rd</sup> floor pour*



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