



## LARGE DIAMETER CORE DRILLING

REF No. D/A12

**Client:** WELLINGTON DAM ALLIANCE  
**Location:** Wellington Dam, Collie WA, Australia  
**Project:** Wellington Dam Upgrade

DecoTEC were deployed to implement their extensive experience in providing practical and cost effective solutions to assist in the upgrade of Wellington Dam in Western Australia

The project: to upgrade Wellington Dam to current safety standards by installing 43 post-tensioned anchors vertically into the crest and through the dam deep into its foundations. To carry out these works a bridge spanning the entire length of the dam was to be constructed.

Part of DecoTEC's contract involved creating large penetrations into the abutments where the post-tensioned anchor heads were designed to reside.

To overcome tight programs and miniscule tolerances whilst eliminating Safety and Environmental Hazards DecoTEC had to engineer an approach that provided the client with a practical and cost effective solution.

The approach: Two adjacent 1.2m diameter core holes up to 3m deep

were diamond core drilled to overlap each other. The base of these cores was then broken with a hydraulic ram called a burster.

**DecoTEC's creative Engineering and Technical Design team along with its experienced Operators guaranteed the success of this project.**

Due to the nature of the works the existing concrete reinforcement could not be located which introduced a threat that would impede the cores from being lifted out of the abutment. DecoTEC engineered a hydraulic jacking system which was certified to lift 3 times the weight of the core. This additional force was then able to free the core from any steel reinforcement which was encountered.

Once the concrete cores were lifted from the penetration DecoTEC installed confined space controls to allow technicians to enter the cavity and finish shaping the anchor recess as per the design drawings. DecoTEC's creative Engineering

and Technical Design team along with its experienced Operators guaranteed the success of this project. The client expressed satisfaction

with the accuracy of the finished surfaces and the performance of the crew to bring DecoTEC's element of the project in on schedule.

Please contact our Global Headquarters to organise for one of our DecoTEC representatives to meet up with you and discuss your project:

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