

HINZE DAM STAGE 3

FOUNDATION GROUTING



Client: Gold Coast City Council
Consultant: Hinze Dam Alliance

Contractor: Hinze Dam Alliance
Specialist Contractor: Menard Bachy Pty Ltd

THE PROJECT

Stage 3 of the Hinze Dam project will result in the dam wall being raised by approximately 15 metres. With a rapidly growing population and widespread drought, the pressure on water supply continues to increase. The Stage 3 project has been identified as a priority to increase the dam's water storage capacity and delay the release of floodwaters onto the floodplains. This will reduce downstream flood levels and decrease the number of properties vulnerable to flooding.

The scope of works involved in the foundation curtain grouting works is to the east of the existing dam spillway along the alignment of the dam extension to depths of up to 40m in highly fractured rock.

MENARD BACHY'S ROLE

Menard Bachy has been selected as a specialist foundation grouting contractor on previous dam remediation project such as Lake Manchester Dam Upgrade. Along with the Hinze Dam Alliance (HDA) partners Menard Bachy offers the project team technical knowhow and assistance in all technical matters involved in the grouting procedures and techniques. Works on the project commenced in early 2008 in areas of the project which were critical on program to the overall success of the project which extends to 2010 for completion. Initial grouting works have been completed which has allowed for

the HDA main works to continue without delay. A summary of the works provided under the contract is as follows:

- Provision of all supervision, plant, equipment and personnel to undertake the drilling and grouting works;
- Specialist expertise in drilling and grouting techniques/procedures in higher fractured ground conditions;
- Technical assistance to HDA in interpretation, review and amendment of the foundation grouting design specification;
- Programming of the drilling and grouting works to be incorporated into the main HDA construction program requirements on the project critical path;
- Management of all safety, environmental and quality documentation and issues for the grouting works;

Menard Bachy has been chosen for its expertise and experience in foundation grouting on a project such as Hinze Dam Stage 3. Throughout the duration of the project Menard Bachy's skills have proven to be of great value to the Hinze Dam Alliance which has led to a successful partnership and project outcome for all involved.