

# 17 Project Profile

Principal Contractor:  
*Fulton Hogan  
Civil and Structural  
design build*

## Chem-Bolt answers all the requirements at Silver-Field drainage project.

Powers Fasteners innovative Chem-Bolt system was the perfect high performance anchoring solution for the temporary "Tilt Panel" foot anchoring at the new Silver-Field West water drainage project in New Zealand's North Island.

Construction of a pre cast concrete inner wall of the water reservoir required anchor props to be installed into the reservoirs concrete floor.

Traditional metal expansion anchors used in prop anchoring are either "ground off" or leave their expansion components at the base of the hole when the anchor bolts are removed.

One of the requirements was the need for a totally removable, non corrosive anchor.

The Chem-Bolt anchor is a one piece removable metric stud bolt that is used in conjunction with Power-Fast® PLUS adhesive injection system. The Chem-Bolt has a proprietary coating applied to the threaded section which does not adhere to the cured adhesive and allows adjustment of the bolt both forwards and backwards into a spacer cap which is located over the end of the Chem-Bolt.

The Chem-Bolt was totally removed from the reservoir floor.

As a further product system benefit, the Power-Fast® PLUS epoxy used to set the Chem-Bolts has "drinking water approvals" and considered a very safe adhesive to be used in this environment.

200 Tubes of Power-Fast® PLUS used  
Chem-Bolt sizes used M20 x 150, M20 x 200,  
and M20 x 250

