

Irrigation Water Supply Well, Perth (Australia)

Client: Not disclosed
Location: Perth and Mandurah Area
Product: BoreSaver Ultra C
Project Description: Construction of new metro, ground water had severe levels of iron oxide.
Keywords: BoreSaver Ultra C, iron oxide, Construction dewatering.



Construction of the new metro between Perth and outer southern suburb of Mandurah, a distance of 73 km, was completed in 2006 at a cost of over \$1.3 billion.

The groundwater table level is within two meters of the ground surface within the SWMR (South West Metropolitan Railway) alignment and dewatering was carried out in a number of stages to allow construction to take place.

During stage one, and within the first six months of the dewatering process, severe levels of iron oxide contamination as well as other organic residues were discovered. At the six month point, the pumps and pipes were badly clogged with the oxide residues as shown in the picture below, to the extent that the pumps could not be used to maximum efficiency.

There were additional problems with the back-pressure of the recharge bore which was sitting at 200psi. The pumps, pipes and recharge bore were then treated with BoreSaver Ultra C which completely removed the iron oxide and organic residues. Within just minutes of the treatment the back-pressure in the recharge bore dropped by an incredible 80psi. A regular treatment regime was then implemented to maintain the recharge flow rates. A weekly treatment of the extraction pumps with BoreSaver Ultra C was also initiated and the pumps were quickly brought back into full service and maintained at optimum operational levels.

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