

Cedar Grove Weir



The \$18.5 million Cedar Grove Weir is a major milestone in the strategy to meet the water needs of a fast growing South East Queensland (SEQ). It reached its capacity of 1,139 mega litres (ML) in December 2007.

The weir will provide 3,000 ML of water per year to improve water supply during drought, help accommodate growing demand in the Beaudesert area and provide additional supply for the SEQ Water Grid. When the weir is operated in conjunction with the proposed Wyaralong Dam, the project will yield a total of 21,000 ML a year, enough water for more than 150,000 people.

The Project was delivered by the Water Infrastructure Solutions Alliance, comprising Macmahon, SMEC, Hydro Tasmania and Queensland Water Infrastructure. Up to 50 staff completed more than 53,000 man hours to deliver the project from May to December in 2007. 4,400 cubic metres of concrete were poured, 400 tonnes of reinforcement installed and 1330 tonnes of sheet pile used to complete the weir. The Cedar Grove Weir is part of the Logan River system which includes the proposed \$333 million Wyaralong Dam on the Teviot Brook and \$39.7 million Bromelton Offstream Storage facility.

The weir will supply water to the local Beaudesert region and into the SEQ Water Grid.

Cedar Grove Weir Facts

Anticipated annual system yield	3,000 MI <i>increases to 21,000 ML when operated in conjunction with proposed Wyaralong Dam</i>
Total capacity	1,139 MI
Elevation above sea level	20.5 metres
Max. water depth at dam wall	6.5 metres
Average depth (in river channel)	3.25 metres
Dam wall length	102 metres
Volume of concrete	4400 cubic metres
Quantity of sheet pile	1,330 tonnes
Quantity of reinforcement	400 tonnes
Full Supply Area	47 ha
Construction commenced	June 2007
Structural completion	Dec 2007
Construction employment	Up to 50 staff and 53,000 man hours completed
Total capital cost	\$18.5M



The SEQ Water Grid.



