

CASE STUDY

Keiges Road Reservoir

Crib wall – curved

Max Height: 3.85m

Face Area = 334m²

Length 160m

Founded in moderately weathered sandstone, retained material is clay sections and moderately weathered sandstone. Imposed loads are generally 5kPa with the maintenance rounding at 10 kPa.

Ipswich Water required the removal of failed shot-crete batter protection and replacement with an aesthetically pleasing, engineered retaining system curved to match the circular water reservoir. The council chose to use a Concrib concrete crib wall system that addressed the design criteria as well as budget constraints. Some concerns were raised regarding the variable nature of the foundation material ranging from clay to moderately weathered sandstone as well as the need for efficient drainage of the embankment.

Concrib was awarded a design/construct contract to fulfill the councils' needs. After investigative drilling a design was proposed and certified. The wall has a maximum height of 3.8m tapering to about 1m at each end over a length of 160m for a total face area of 334m². The radius of the curve is approximately 40m.

Need a curved crib wall?

Talk to the experts at Concrib. We have the knowledge and experience to tackle a variety of earth stabilisation, and construction projects.

Please contact us on (07) 3375 1800, or visit our website at www.concrib.com.au to see more examples of our work.

