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GEOLOGY OF THE GOOGONG RESERVOIR, QUEANBEYAN RIVER, N.S.W.

hv

G.B. Simpson



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SUMMARY

The Googong reservoir is underlain by folded and sheared slate, sandstone, and limestone of the London Bridge Formation, and slate and dacite of the Colinton Volcanics of Silurian age.

The London Bridge Formation and Colinton Volcanics have been intruded by Siluro-Devonian granite. Along the eastern side of the reservoir area the Silurian rocks are faulted against Ordovician greywacke and slate at the Queanbeyan Fault. The Beltana Fault crosses the reservoir area sub-parallel to and west of the Queanbeyan Fault.

The reservoir area is considered to offer no leakage problems. No evidence of sulphide mineralization or of areas of slope instability was detected.

It is recommended that limestone beds in the north of the reservoir area should be mapped in greater detail as part of the design investigation. Studies of the amount and movement of sediment in the Queanbeyan River should be made to detect any possible reservoir silting problems which might occur.

The stability and erodability of steeply sloping areas near Bradley's Creek should be further studied.

