

REPORT ON THE GEOLOGIC CONDITIONS AT
LONG REACH AS AFFECTING WHARF CONSTRUCTION

The area examined at Long Reach extends from Williams Creek upstream to a point 6,336 feet towards East Head.

The whole of the shore for this length consists of basalt very solid in character. Flat floors are characteristic dipping towards the water at 20° . Columnar structure is common, the planes of the columns being 15° to 20° from the vertical. The absence of clay seams, and the slope of the land surface, however, render slipping or breaking on these planes most unlikely.

The crystalline texture of the rock is such as to indicate that the bed is of such thickness as to extend down to river-bottom level at least.

The solidity and continuity of the rock mass constituting the shore is such as to warrant the expression of the opinion that it would provide safe and reliable foundations for wharves and harbour works.

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