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CIVIL STRUCTURAL

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3rd December, 2025
Project No.2025/292

Mr. Colin Weir,
26 Clear Creek Road,
Woodbridge. TAS. 7162

Dear Mr. Weir,

RE: EXISTING BRIDGE OVER THE CREEK AT NO.26 CLEAR CREEK ROAD, WOODBRIDGE, TAS. 7162
STRUCTURAL CERTIFICATE.

I attended the site and inspected the bridge and the abutments.

The bridge consists of a 40 foot container platform flatrack, mounted on mass concrete abutments at each end.

I contacted the contractor Mr. David De Jong and he advised that the abutments were bearing generally onto rock or very stiff clay. The mass concrete pads were 2.8M x 1.5M x 0.5M deep.

I have assumed a minimum safe bearing capacity of 100Kpa for the foundation material. This is quite conservative.

The load capacity of each abutment = $2.8 \times 1.5 \times 100 = 420$ KNS or 42.8 Tonnes

The weight of each abutment = $2.8 \times 1.5 \times 0.5 \times 2.5$ T/M³

= 5.25 Tonnes

The maximum gross load capacity of each abutment = $42.8 - 5.25 = 37.55$ Tonnes

The container flatrack bridge has a gross weight capacity of 25 Tonnes and a TARE weight of 5.5 Tonnes approximately. That gives a superimposed load capacity of 19.5 Tonnes.

On the basis of the above calculations I certify that the existing container platform flatrack bridge, mounted on 2.8M x 1.5M x 0.5M deep mass concrete abutment pads each end of the bridge is structurally adequate to support vehicles with a maximum 15 Tonnes gross weight, in accordance with the relevant Australian Standards and the requirements of the Building Code of Australia.

Yours faithfully,



R. D. Williams,
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