BF 00700 Local Road Over Egg Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.00045
B = 6 m, h = 1.8 m, T_h = 10 m
Use n = 0.04

At Bank Height : Y = 1.8 m, V = 0.6 m/s, Q = 9 cms
At Channel Capacity : Y = 2.7 m, V = 0.9 m/s, Q = 20 cms

Historical Highwater Data :

HW was noted in September 1954 with the bridge flowing full and water over the grade (Y = 1.8 – 2.1m). A 1958 report notes a HWM 0.3m over the deck (Y = 2.1 – 2.4m).

There are no WSC gauges on this stream. Gauges in the area suggest HW events in April 1971, 1974, 1979, and 1997. The largest storms in the database for this area are July 1955 and June 1973 with 105mm of rainfall.

Basin Runoff Potential :

d = 35mm, T_p = 40hrs, q = 0.25 cms/km^2.
Gross DA = 721 km^2.
Q_p = 180 cms.

Conclusion :

The channel capacity estimate is consistent with historic observations and is within the basin runoff potential.

Recommended parameters : Y = 2.7 m, V = 0.9 m/s, Q = 20 cms.