BF 07157 Local Road Over Griffin Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.008
B = 2 m, h = 1.0 m, T_h = 4 m
Use n = 0.055

At Bank Height : Y = 1.0 m, V = 1.2 m/s, Q = 4 cms
At Channel Capacity : Y = 1.5 m, V = 1.8 m/s, Q = 8 cms

Historical Highwater Data :

1954 reports note HWM with Y = 1 and Y = 2m (icing) and estimate Q = 4 – 5cms. A 1999 BIM report notes a HWM with Y = 1m.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in April 1979, May 1984, June 1990, and April 1997. The largest event in the storm database is about 100mm in August 1982.

Basin Runoff Potential :

d = 60mm, T_p = 20 hrs, q = 0.83 cms/km^2.
Gross DA = 10 km^2.
Q_p = 8 cms.

Conclusion :

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

Recommended parameters : Y = 1.5 m, V = 1.8 m/s, Q = 8 cms.