BF 08882 Local Road Over Little Strawberry Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.006
B = 2 m, h = 1.2 m, T_h = 4 m
Use n = 0.055

At Bank Height : Y = 1.2 m, V = 1.1 m/s, Q = 4 cms
At Channel Capacity : Y = 1.4 m, V = 1.7 m/s, Q = 10 cms

Historical Highwater Data :

A 2003 BIM report notes drift to 1m above the u/s crown (modelling suggests Q = 5cms if no blockage). The 1956 design was based on Q = 5cms.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in July 1982, July 1986, July 1990, and July 2000. The storm database notes storms in 1944 (155mm), 1982 and 1990 (140mm), and 1986 (115mm).

Basin Runoff Potential :

d = 50mm, T_p = 20hrs, q = 0.7 cms/km^2.
Gross DA = 10 km^2.
Q_p = 7cms.

Conclusion :

Basin runoff potential governs for this site.

Recommended parameters : Y = 1.5 m, V = 1.4 m/s, Q = 7 cms.