BF 08412 Local Road Over Sounding Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0018
B = 4 m, h = 1 m, T_h = 7 m
Use n = 0.045

At Bank Height : Y = 1.0 m, V = 0.8 m/s, Q = 4 cms
At Channel Capacity : Y = 1.5 m, V = 1.1 m/s, Q = 10 cms

Historical Highwater Data :

HW was noted in 1915 (Y = 0.6m). A 1982 report notes that water has been up to the deck (Y = 1.5m).

There are no gauges on this stream. Gauges in the area suggest HW events in spring of 1965, 1985, and 1997. The largest storms in the database for this area are 190mm of rainfall in June 1973 and 120mm in July 1962.

Basin Runoff Potential :

d = 35mm, T_p = 40hrs, q = 0.25 cms/km^2.
Gross DA = 173 km^2.
Q_p = 43 cms.

Conclusion :

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

Recommended parameters : Y = 1.5 m, V = 1.1 m/s, Q = 10 cms.