BF 70104 Local Road Over St. Lina Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.002
B = 2 m, h = 1 m, T_h = 4 m
Use n = 0.05

At Bank Height : Y = 1 m, V = 0.7 m/s, Q = 2 cms
At Channel Capacity : Y = 1.5 m, V = 1.0 m/s, Q = 5 cms

Historical Highwater Data :

A 1955 report notes a HWM with Y = 1.2m and estimates Q = 4cms.

There are no WSC gauges on this stream. Gauges in the area suggest HW in spring of 1974, 1996 and 1997. The largest storm in the database for this area is June 1970 with about 130mm of rainfall.

Basin Runoff Potential :

d = 40mm, T_p = 20hrs, q = 0.55 cms/km^2.
Gross DA = 23 km^2.
Q_p = 13 cms.

Conclusion :

The channel capacity estimate appears to be consistent with historic data and is within the basin runoff potential.

Recommended parameters : Y = 1.5 m, V = 1.0 m/s, Q = 5 cms.