BF 74829 Local Road Over Clouston Creek
Hydrotechnical Summary

Channel Capacity :

S = 0.004
B = 5 m, h = 3 m, T_h = 12 m.
Use n = 0.045

At Bank Height : Y = 3.0 m, V = 2.1 m/s, Q = 50 cms
At Channel Capacity : Y = 4.0 m, V = 2.8 m/s, Q = 105 cms

Historical Highwater Data :

HW was noted in July 1983 (Y = 4m d/s, estimated Q = 113cms), and June 1990 (Y = 2 – 2.5m d/s).

There are no WSC gauges on this stream. Gauges in the area suggest HW events in June 1990 and July 1983. There are no storms in the database that exceed 100mm of rainfall.

Basin Runoff Potential :

d = 60 mm, T_p = 20 hrs, q = 0.83 cms/km^2.
Gross DA = 331 km^2.
Q_p = 275 cms.

Conclusion :

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

Recommended parameters : Y = 4.0 m, V = 2.8 m/s, Q = 105 cms.