BF 74449 Local Road Over Clouston Creek
Hydrotechnical Summary

Channel Capacity :

S = 0.0045
B = 4 m, h = 2 m, T_h = 8 m.
Use n = 0.05

At Bank Height : Y = 2.0 m, V = 1.6 m/s, Q = 20 cms
At Channel Capacity : Y = 3.0 m, V = 2.3 m/s, Q = 45 cms

Historical Highwater Data :

A 1957 report notes a HWM with Y = 1.8m and estimates Q = 14cms. A 1987 report notes a HWM with Y = 3m.

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 = 77 km^2.
Q_p = 64 cms.

Conclusion :

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

Recommended parameters : Y = 3.0 m, V = 2.3 m/s, Q = 45 cms.