BF 74389 Local Road Over Paddle River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0045
B = 1 m, h = 0.8 m, T_h = 3 m
Use n = 0.05

At Bank Height : Y = 0.8 m, V = 0.8 m/s, Q = 1 cms
At Channel Capacity : Y = 1.3 m, V = 1.3 m/s, Q = 4 cms

Historical Highwater Data :

HW was noted in 1954 with a washout at a small culvert and estimated Q = 4 – 5cms. A 1976 report estimates Q = 4cms.

There are no gauges on this stream. Gauges in the area suggest HW events in April 1971, April 1974, April 1982, and April 1997. The largest storms in the storm database are 170mm of rainfall in August 1957, and 115mm in July 1953 and June 1965.

Basin Runoff Potential :

d = 45mm, T_p = 20hrs, q = 0.6 cms/km^2.
Gross DA = 10 km^2.
Q_p = 6 cms.

Conclusion :

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

Recommended parameters : Y = 1.3 m, V = 1.3 m/s, Q = 4 cms.