BF 77855 Local Road Over Paddle River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0025
B = 2 m, h = 1.0 m, T_h = 4 m
Use n = 0.05

At Bank Height : Y = 1.0 m, V = 0.7 m/s, Q = 2 cms
At Channel Capacity : Y = 1.5 m, V = 1.1 m/s, Q = 5 cms

Historical Highwater Data :

A 1973 report notes a HWM with Y = 1.2m and estimates Q = 3cms.

There are no gauges on this stream. Gauges in the area suggest large runoff events in June 1965, July 1971, April 1974, April 1982, and July 1986. The largest storms in the storm database are 155mm of rainfall in June 1944, 135mm in June 1965, and 105mm in August 1969 and July 1978.

Basin Runoff Potential :

d = 50mm, T_p = 20hrs, q = 0.7 cms/km^2.
Gross DA = 17 km^2.
Q_p = 12 cms.

Conclusion :

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

Recommended parameters : Y = 1.5 m, V = 1.1 m/s, Q = 5 cms.