BF 71084 Local Road Over Kilini Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.002
B = 6 m, h = 1.7 m, T_h = 9 m
Use n = 0.05

At Bank Height : Y = 1.7 m, V = 1.0 m/s, Q = 13 cms
At Channel Capacity : Y = 2.5 m, V = 1.4 m/s, Q = 30 cms

Historical Highwater Data :

A HWM over the deck was noted in the 1956 report with Y = 2.5m and a HWM to the top of the deck of a higher bridge was noted in the 1966 report (Y = 2.7m u/s). The 1999 BIM report notes HWM with Y = 2.0m. HW was noted at BF71083 u/s in 1950 (Y = 2.4m) and at BF70269 d/s in 1956 with Y = 2.4m. HW was noted at BF13905 u/s in 1956, 1965, and 1986.

There are no WSC gauges on this stream. Gauges in the area report HW events in April 1971, April 1974, July 1986, and July 1990. The largest storms in the database for this area are June 1944 with about 150mm of rainfall, and July 1982 with about 120mm of rainfall.

Basin Runoff Potential :

d = 50mm, T_p = 20hrs, q = 0.7 cms/km^2.
Gross DA = 173 km^2.
Q_p = 120 cms.

Conclusion :

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

Recommended parameters : Y = 2.5 m, V = 1.4 m/s, Q = 30 cms.