BF 81102 Local Road Over Hay River
Hydrotechnical Summary

Channel Capacity :

S = 0.0001
B = 60 m, h = 5.0 m, T_h = 100 m
Use AT equation

At Bank Height : Y = 5.0 m, V = 0.9 m/s, Q = 350 cms
At Channel Capacity : Y = 6.0 m, V = 1.0 m/s, Q = 500 cms

Historical Highwater Data :

The 1987 design was based on Y ~ 6.5 – 7m.

WSC Gauge 07OB003 (DA = 36900km^2, 1974 – Now) reports Q ~ 880cms (1977), and Q > 600cms (1979, 1988, 1989).

Basin Runoff Potential :

Gross DA = 20700 km^2, runoff potential is not applicable.

Conclusion :

Historic observations govern. Recommended parameters :

Y = 6.5 m, V = 1.1 m/s, Q = 600 cms
EL 329.0 m (12320-P)