BF 75338 Hwy 2 Over Blindman River
Hydrotechnical Summary

Channel Capacity :

S = 0.0006
B = 18 m, h = 5.5 m, T_h = 36 m
Use AT equation.

At Bank Height : Y = 5.5 m, V = 1.9 m/s, Q = 270 cms
At Channel Capacity : Y = 6.5 m, V = 2.2 m/s, Q = 400 cms

Historical Highwater Data :

HW has been recorded at this site in July 1982 (Y = 5.5m), July 1986 (Y = 4.8m) and July 1990 (Y = 7.3m, no BW). HW was also noted in April 1965 with Y = 4.8m and a 1996 BIM report notes Y = 4.1m based on drift at the centre pier.

WSC gauges 05CC008 (DA = 352km^2, 1965 - Now) reports Q = 330cms (possibly less due to extrapolation) in July 1990 and 05CC001 (DA = 1790km^2, 1916 – 1922, 1962 - Now) reports Q = 395cms in July 1990. Other large runoff events are April 1974 (d/s gauge), July 1981, 1982 and 1986. Flow was measured at 05CC001 at 345cms on July 5, 1990 with a stage rise of 3.5m and V = 2.5m/s. The storm database shows the largest storm for this basin to be about 110m of rainfall in July 1990, although the eye was centered over the productive northern portion of the basin.

Basin Runoff Potential :

d = 60 mm, T_p = 20 hrs, q = 0.83 cms/km^2.
Gross DA = 1780 km^2.
Q_p = 1480 cms.

Conclusion :

The channel capacity estimate is consistent with most historic observations (except for July 1990) and is within the basin runoff potential.

Recommended parameters : Y = 7.0 m, V = 2.2 m/s, Q = 400 cms.