BF 73608 Local Rd Over Waterton River
Hydrotechnical Summary

Channel Capacity :

S = 0.004
B = 35 m, h = 2.5 m, T_h = 75 m
Use AT equation

At Bank Height : Y = 2.5 m, V = 2.3 m/s, Q = 315 cms
At Channel Capacity : Y = 3.5 m, V = 3.1 m/s, Q = 650 cms

Historical Highwater Data :

HW was observed in June 1964 (water over the road), July 1975 (water to bottom of girders), and June 1995 (HWM at 1190.3m).

WSC gauge 05AD003 (DA ~ 615km^2, 1908 - now) reports Q ~ 680cms (estimated), Q ~ 600cms (June 1964), Q ~ 500cms (July 1975), and Q ~ 500cms (June 1995).WSC gauge 05AD028 (DA ~ 1,630km^2, 1966 – Now) reports Q ~ 1100cms (June 1995, gauged at Q ~ 620cms, stage rise ~ 4.5m at peak), and Q ~ 760cms (June 1975).

Basin Runoff Potential :

Gross DA = 950 km^2 (beyond range of technique)

Conclusion :

Channel capacity estimate is consistent with historic highwater observations. Recommended parameters :

Y = 3.5 m, V = 2.3 m/s, Q = 650 cms.