BF 07398 Hwy 845 Over Oldman River
Hydrotechnical Summary

Channel Capacity :

S = 0.0009
B = 140 m, h = 7.5 m, T_h = 200 m
Use AT equation

At Bank Height : Y = 7.5 m, V = 2.9 m/s, Q = 3700 cms
At Channel Capacity : Y = 8.5 m, V = 3.2 m/s, Q = 4800 cms

Historical Highwater Data :

HW has been noted at this site in 1902, 1908 (Y ~ 8.5m), 1953, 1964, 1972 (Ice), 1975, 1995 (Y ~ 8m), and 2005.

WSC Gauge 05AD007 (DA ~ 17000km^2, 1911 – Now) reports Q ~ 4600cms (1995, Y ~ 8.5m), and Q ~ 3000 – 3500cms (1923, 1942, 1948, 1953, and 1975, Y ~ 7 – 7.5m).

Basin Runoff Potential :

Gross DA = 17800 km^2, runoff potential is not applicable

Conclusion :

Historic observations govern. Recommended parameters :

Y = 8.5 m, V = 3.2 m/s, Q = 5000 cms
HW EL 787.5m (Dwg. 7751)