BF 70247 Local Road Over McLeod River
Hydrotechnical Summary

Channel Capacity :

S = 0.0012
B = 90 m, h = 5.5 m, T_h = 140 m
Use AT Equation

At Bank Height : Y = 5.5 m, V = 2.6 m/s, Q = 1700 cms
At Channel Capacity : Y = 6.5 m, V = 3.0 m/s, Q = 2300 cms

Historical Highwater Data :

HW was noted in June 1954 to the bottom chord of the old truss bridge (Y ~ 6.5m), August 1969 (Y ~ 6m), and July 1986 (Y ~ 4.5m). The 1950 design was based on Y = 6.5m.

Gauge 07AG001 (DA = 6310 km2, 1914 – 1930, 1958 – 1983), 07AG007 (DA = 7150km^2, 1984 – Now), and 07AG004 (DA = 9100 km^2, 1968 – Now) note large events in August 1969, June 1980, and July 1986 with Q ~ 2000cms and Y ~ 5.0m above zero flow stage. Q > 1000cms was also noted in June 1972 and July 1982.

Basin Runoff Potential :

Gross DA ~ 5450 km^2, beyond range of method.

Conclusion :

Historic observations govern. Recommended parameters :

Y = 6.5m, V = 3.0 m/s, Q = 2300 cms
EL 853.5m (714-P)