BF 73136 Hwy 47 Over McLeod River
Hydrotechnical Summary

Channel Capacity:

S = 0.0012
B = 50 m, h = 5 m, T_h = 90 m
Use AT Equation

At Bank Height: Y = 5 m, V = 2.4 m/s, Q = 800 cms
At Channel Capacity: Y = 6 m, V = 2.8 m/s, Q = 1200 cms

Historical Highwater Data:

HW was noted in 1969 (Y ~ 6m), 1980 (Y ~ 6m), 1982 (Y ~ 2.5m), and 1986 (Y ~ 5m).

Gauge 07AF002 (DA = 2560km^2, 1955 – Now) reports Q ~ 1260cms in June 1980 and Q ~ 900 in August 1969.

Basin Runoff Potential:

Gross DA ~ 2560 km^2, beyond range of method.

Conclusion:

Historic observations govern. Recommended parameters:

Y = 6 m, V = 2.8 m/s, Q = 1200 cms

HWL August 1969 = 298.9 m (9049-C)