BF 75200 Local Road Over Peace River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.04
B = 1.5 m, h = 1.0 m, T_h = 3 m
Use n = 0.06

At Bank Height : Y = 1.0 m, V = 2.3 m/s, Q = 5 cms
At Channel Capacity : Y = 1.5 m, V = 3.5 m/s, Q = 13 cms

Historical Highwater Data :

A 1958 report notes a HWM with Y = 1.5m (based on icing) and estimates Q = 6cms. A 1998 BIM report notes that water has been over the grade and notes that there is drift above the u/s crown.

There are no WSC gauges on this stream. Gauges in the area indicate HW events in April 1979, June 1990, and April 1997. The storm database indicates that no storms have exceeded 100mm in rainfall for this area.

Basin Runoff Potential :

d = 50 mm, T_p = 20 hrs, q = 0.7 cms/km^2.
Gross DA = 18 km^2.
Q_p = 13 cms (9 cms based on capacity at BF70818 u/s).

Conclusion :

Basin runoff potential governs for this site.

Recommended parameters : Y = 1.3 m, V = 3.0 m/s, Q = 9 cms.