BF 13601 Local Road Over Peace River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.02
B = 1.5 m, h = 0.7 m, T_h = 3 m (assumed)
Use n = 0.06

At Bank Height : Y = 0.7 m, V = 1.4 m/s, Q = 2 cms
At Channel Capacity : Y = 1.2 m, V = 2.3 m/s, Q = 7 cms

Historical Highwater Data :

Icing was noted at this site in May 1957 (Y = 1.5m) and 1961 (Y = 1.2m). A 1961 report estimates Q = 1.5cms.

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in April 1974, June 1990, and April 1997. The largest storms in the storm database are about 85mm of rainfall in July 1935 and July 1957.

Basin Runoff Potential :

d = 50 mm, T_p = 20 hrs, q = 0.7 cms/km^2.
Gross DA = 15 km^2.
Q_p = 10 cms.

Conclusion :

The channel capacity estimate is consistent with historic observations and is within the basin runoff potential.

Recommended parameters : Y = 1.2 m, V = 2.3 m/s, Q = 7 cms.