BF 72227 Local Road Over Peace River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.009
B = 1.5 m, h = 1.0 m, T_h = 3 m
Use n = 0.055

At Bank Height : Y = 1.0 m, V = 1.2 m/s, Q = 3 cms
At Channel Capacity : Y = 1.5 m, V = 1.8 m/s, Q = 7 cms

Historical Highwater Data :

A 1957 report notes that the bridge has run full (Y = 1.8m) and estimates Q = 7cms.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in April 1979, 1990, and 1997. There are no storms in the storm database that exceed 100mm of rainfall for this area.

Basin Runoff Potential :

d = 60mm, T_p = 20 hrs, q = 0.83 cms/km^2.
Gross DA = 18 km^2.
Q_p = 15 cms.

Conclusion :

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

Recommended parameters : Y = 1.5 m, V = 1.8 m/s, Q = 7 cms.