BF 71676 Hwy 2 Over Leith River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.006
B = 2 m, h = 1.0 m, T_h = 4 m
Use n = 0.06

At Bank Height : Y = 1.0 m, V = 0.9 m/s, Q = 3 cms
At Channel Capacity : Y = 1.5 m, V = 1.4 m/s, Q = 7 cms

Historical Highwater Data :

The 1953 report notes a HWM with Y = 1.5m, and a 1999 BIM report notes a HWM with Y = 1.5m.

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in June 1968, April 1974, May 1984, June 1990, and April 1997. The largest storms in the storm database are about 100mm of rainfall in July 1957 and August 1982.

Basin Runoff Potential :

d = 55 mm, T_p = 20 hrs, q = 0.75 cms/km^2.
Gross DA = 15 km^2.
Q_p = 11 cms.

Conclusion :

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

Recommended parameters : Y = 1.5 m, V = 1.4 m/s, Q = 7 cms.