BF 76305 Local Road Over La Biche River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.006
B = 2 m, h = 1 m, T_h = 5 m
Use n = 0.055

At Bank Height : Y = 1.0 m, V = 1.0 m/s, Q = 4 cms
At Channel Capacity : Y = 1.5 m, V = 1.5 m/s, Q = 9 cms

Historical Highwater Data :

HW was noted in July 1970 (about 2m above u/s crown, Q_{est} ~ 10cms with no blockage, but struts still in pipe and drift observed). A 1965 report was based on Y = 1.5m and Q = 4cms.

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in June 1920, April 1971, April 1974, and April 1997. The largest storms in the storm database are about 150mm of rainfall in June 1970, and about 110mm in August 1996.

Basin Runoff Potential :

d = 40 mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 68 km^2.
Q_p = 37 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 = 1.5 m/s, Q = 9 cms.