BF 75642 Local Road Over Lac La Biche Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0015
B = 3 m, h = 1.5 m, T = 6 m
Use n = 0.05

At Bank Height : Y = 1.5 m, V = 0.7 m/s, Q = 5 cms
At Channel Capacity : Y = 2.3 m, V = 1.1 m/s, Q = 12 cms

Historical Highwater Data :

HW was noted in July 1962 with water over the road (Y = 2.7m u/s) and estimated Q = 7cms. A 1987 BIM report notes a HWM with Y = 2.5m (no description).

There are no WSC gauges on this stream. Gauges in the area suggest HW events in April 1974 and 1996. The largest storms in the storm database are June 1962, 1970, and 1973 with about 105mm of rainfall.

Basin Runoff Potential :

d = 40mm, T_p = 20hrs, q = 0.55 cms/km^2.
DA = 112 km^2.
Q_p = 60 cms.

Conclusion :

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

Recommended parameters : Y = 2.3 m, V = 1.1 m/s, Q = 12 cms.