BF 02347 Hwy 646 Over Mooswa Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.008
B = 3 m, h = 1.0 m, T_h = 7 m
Use n = 0.055

At Bank Height : Y = 1.0 m, V = 1.2 m/s, Q = 6 cms
At Channel Capacity : Y = 1.5 m, V = 1.8 m/s, Q = 15 cms

Historical Highwater Data :

A BIM report notes a HWM with Y = 1.9m (no description).

WSC gauges in the area show the spring events of 1974 and 1997 to be the largest on record. The largest storm in the database for this area was June 1962 with about 120mm of rainfall. The next highest was June 1988 with about 100mm.

Basin Runoff Potential :

d = 40 mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 171 km^2.
Q_p = 95 cms.

Conclusion :

Basin runoff potential appears to govern at this site. Higher water levels may occur due to backwater from d/s controls, beaver dams etc.

Recommended parameters : Y = 1.5 m, V = 1.8 m/s, Q = 15 cms.