BF 75596 Local Road Over Pine Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.003
B = 3 m, h = 1.0 m, T_h = 6 m
Use n = 0.055

At Bank Height : Y = 1.0 m, V = 0.8 m/s, Q = 3 cms
At Channel Capacity : Y = 1.5 m, V = 1.1 m/s, Q = 8 cms

Historical Highwater Data :

Reports from 1962 and 1965 note HWM over the grade at small culvert crossing, and estimate Q = 7cms. A 1998 BIM report notes that water is ponded in the culvert, possibly due to a d/s beaver dam. A 2003 BIM report notes a HWM with Y = 2m (no description).

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in April 1974, August 1996 and April 1997. The largest storms in the storm database are about 100mm of rainfall in June 1970, June 1973, and August 1980.

Basin Runoff Potential :

d = 40 mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 26 km^2.
Q_p = 14 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 = 1.1 m/s, Q = 8 cms.