BF 13873 Local Road Over Whitefish Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0015
B = 4 m, h = 1.2 m, T_h = 6 m
Use n = 0.045

At Bank Height : Y = 1.2 m, V = 0.8 m/s, Q = 5 cms
At Channel Capacity : Y = 1.8 m, V = 1.1 m/s, Q = 10 cms

Historical Highwater Data :

A 1963 report notes that water has been over the grade and estimates Q = 10 – 13cms. A 2001 BIM report notes a HWM with Y = 1.0m.

There are no gauges on this stream. Gauges in the area suggest HW events in April 1971, April 1974, and June 1997. The largest storm in the storm database is June 1970 with about 110mm of rainfall.

Basin Runoff Potential :

d = 40 mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 129 km^2.
Q_p = 70cms.

Conclusion :

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

Recommended parameters : Y = 1.8 m, V = 1.1 m/s, Q = 10 cms.