BF 86024 Local Road Over Dunvegan Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.01
B = 1 m, h = 0.7 m, T_h = 2.5 m
Use n = 0.06

At Bank Height : Y = 0.7 m, V = 0.9 m/s, Q = 1 cms
At Channel Capacity : Y = 1.2 m, V = 1.6 m/s, Q = 4 cms

Historical Highwater Data :

A HWM was noted in 2004 with Y = 1.5m u/s (drift on bank). Icing was noted in the barrel in 2005 with Y = 1.0m.

There are no gauges on this stream. Gauges in the area suggest HW events in June 1968, April 1974, May 1984, June 18990, and April 1997. The largest storms in the database for this area are July 1935, August 1982, and June 1990 with about 120mm of rainfall.

Basin Runoff Potential :

d = 60 mm, T_p = 20 hrs, q = 0.83 cms/km^2.
Gross DA = 11 km^2.
Q_p = 9 cms.

Conclusion :

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

Recommended parameters : Y = 1.2 m, V = 1.6 m/s, Q = 4 cms.