BF 79459 Hwy 881 Over Milton's Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0008
B = 4 m, h = 1.4 m, T_h = 8 m
Use n = 0.045

At Bank Height : Y = 1.4 m, V = 0.6 m/s, Q = 5 cms
At Channel Capacity : Y = 2.1 m, V = 0.9 m/s, Q = 12 cms

Historical Highwater Data :

A 1998 BIM report notes a HWM with Y = 2.3m.

There are no WSC Gauges on this stream. There is a gauge on Gregoire Lake d/s reporting the largest event in July 1970, with other large runoff events in 1977, 1985, and 2005. The largest storms in the storm database are about 160mm in July 1960, ~ 140mm in August 1980 and 1995, and ~ 120mm in June 1970 and August 1976.

Basin Runoff Potential :

d = 40 mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 25 km^2.
Q_p ~ 14 cms.

Conclusion :

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

Recommended parameters : Y = 2.1 m, V = 0.9 m/s, Q = 12 cms.