BF 78075 Local Road Over Iroquois Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.00005 (BW likely from d/s lake)
B = 10 m, h = 1.0 m, T_h = 15 m
Use n = 0.04

At Bank Height : Y = 1.0 m, V = 0.2 m/s, Q = 2 cms
At Channel Capacity : Y = 1.5 m, V = 0.2 m/s, Q = 4 cms

Historical Highwater Data :

A 1975 report estimates Q = 3cms. A 2000 BIM report notes a HWM with Y = 1.2m (current ice level).

There are no gauges on this stream. Gauges in the area suggest HW events in July 1983, May 1991, and June 1996. The largest storms in the storm database for this area are 115mm in July 1983 and June 1993.

Basin Runoff Potential :

d = 60 mm, T_p = 20 hrs, q = 0.83 cms/km^2.
Gross DA = 15 km^2 (7 km^2 d/s of lake).
Q_p = 6 cms.

Conclusion :

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

Recommended parameters : Y = 1.5 m, V = 0.2 m/s, Q = 4 cms.