BF 81578 Local Road Over Muskeg Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.01
B = 1.5 m, h = 1.0m, T_h = 3 m
Use n = 0.055

At Bank Height : Y = 1.0 m, V = 1.2 m/s, Q = 3 cms
At Channel Capacity : Y = 1.5 m, V = 1.9 m/s, Q = 7 cms

Historical Highwater Data :

There are no HW observations at this site.

WSC gauge 05FA912 (DA = 92km^2, 1982 - 1990) reports HW events in July 1982 (Q = 16cms), July 1986 (Q = 29cms) and July 1990 (Q = 67cms, highest gauging unknown). The 1990 value is likely based on a significant extrapolation, and the gauge stopped reporting right after this event, indicating the possibility of damage. The storm database shows the largest storms to be July 1990 with 135mm of rainfall, and July 1982 with 115mm.

Basin Runoff Potential :

d = 60 mm, T_p = 20 hrs, q = 0.83 cms/km^2.
Gross DA = 6 km^2.
Q_p = 5 cms.

Conclusion :

Basin runoff potential governs for this site and is consistent with historic observations.

Recommended parameters : Y = 1.3 m, V = 1.6 m/s, Q = 5 cms.