BF 80815 Local Road Over Mink Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.008
B = 2 m, h = 1.0 m, T_h = 5 m
Use n = 0.055

At Bank Height : Y = 1.0 m, V = 1.2 m/s, Q = 4 cms
At Channel Capacity : Y = 1.5 m, V = 1.8 m/s, Q = 10 cms

Historical Highwater Data :

A 1985 report notes a HWM with Y = 1.0m and estimates Q = 6cms.

There are no WSC gauges on this stream. Gauges in the area indicate HW events in June 1965, April 1974, July 1986, and July 1990. The storm database notes storms in June 1944 (150mm) and June 1965 (130mm).

Basin Runoff Potential :

d = 50 mm, T_p = 20 hrs, q = 0.7 cms/km^2.
Gross DA = 14 km^2.
Q_p = 10 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 = 1.8 m/s, Q = 10 cms.