BF 81753 Local Road Over North Saskatchewan River Tributary Hydrotechnical Summary

Channel Capacity :

S = 0.025
B = 2 m, h = 0.8 m, T_h = 4 m
Use n = 0.055

At Bank Height : Y = 0.8 m, V = 1.9 m/s, Q = 4 cms
At Channel Capacity : Y = 1.3 m, V = 2.9 m/s, Q = 12 cms

Historical Highwater Data :

There is no HW data for this site.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in July 1982, 1986, 1990 and 2001. The largest events in the storm database are July 1982 (150mm), and June 1944, June 1965, and August 1989 (110mm).

Basin Runoff Potential :

d = 60mm, T_p = 20 hrs, q = 0.83 cms/km^2.
Gross DA = 4 km^2.
Q_p = 4 cms.

Conclusion :

Basin runoff potential governs for this site.

Recommended parameters : Y = 0.8 m, V = 1.8 m/s, Q = 4 cms.