BF 75446 Local Road Over Notikewin River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0022
B = 2 m, h = 1.2 m, T_h = 5 m
Use n = 0.05

At Bank Height : Y = 1.2 m, V = 0.8 m/s, Q = 3 cms
At Channel Capacity : Y = 1.8 m, V = 1.1 m/s, Q = 8 cms

Historical Highwater Data :

A 1961 photo shows a HWM with Y = 2.1m u/s of the pipe (Q ~ 6cms). The 2000 design was based on Q = 14cms and the 1961 design was based on Y = 1.8m and Q = 17cms (assumed u/s drainage improvements would occur).

There are no WSC gauges on this stream. Gauges in the area suggest HW events in July 1963, May 1964, July 1972, June 1977, May 1978, June 1990, and April 1997. The largest storm in the storm database is about 105mm in July 1963.

Basin Runoff Potential :

d = 40 mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 32 km^2.
Q_p = 18 cms.

Conclusion :

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

Recommended parameters : Y = 1.8 m, V = 1.1 m/s, Q = 8 cms.