BF 09457 Local Road Over Dogpound Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0025
B = 10 m, h = 2.7 m, T_h = 16 m
Use AT equation

At Bank Height : Y = 2.7 m, V = 2.2 m/s, Q = 750 cms
At Channel Capacity : Y = 3.7 m, V = 2.8 m/s, Q = 140 cms

Historical Highwater Data :

There are no HW observations at this site.

There are no WSC gauges on Dogpound Ck. Nearby gauges with longer records show a wide variety of flood responses, with some of the more common being in June 1990 and May 1967. The largest storms in the database for this area are June 1970 and June 1928 with about 120mm of rainfall. There are many other storms with rainfall in the 90 to 100 mm range.

Basin Runoff Potential :

d = 60mm, T_p = 20hrs, q = 0.83 cms/km^2.
Gross DA = 320 km^2.
Q_p = 265 cms.

Conclusion :

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

Recommended parameters : Y = 3.7 m, V = 2.8 m/s, Q = 140 cms.