BF 00370 Hwy 22 Over Dogpound Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.003
B = 9 m, h = 2.0 m, T_h = 14 m
Use n = 0.04

At Bank Height : Y = 2.0 m, V = 1.8 m/s, Q = 40 cms
At Channel Capacity : Y = 3.0 m, V = 2.5 m/s, Q = 90 cms

Historical Highwater Data :

Reports in 1952, 1954, and 1958 did not note HWM. A design note from 1961 notes a design Y = 2.7m and Q = 65 – 70cms.

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 = 205 km^2.
Q_p = 170 cms.

Conclusion :

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

Recommended parameters : Y = 3.0 m, V = 2.5 m/s, Q = 90 cms.