# BF 07242 Local Road Over Driedmeat Ck
# Hydrotechnical Summary

**Channel Capacity** :

S = 0.0003
B = 5 m, h = 2 m, $T_h$ = 12 m
Use n = 0.045

At Bank Height : Y = 2.0 m, V = 0.5 m/s, Q = 8 cms
At Channel Capacity : Y = 3.0 m, V = 0.7 m/s, Q = 20 cms

**Historical Highwater Data :**

HW was observed at this site in April 1974 with water reported to be 0.3m over the deck (deck height = 3.6m). Assuming tailwater just above the bottom of the girders, Y = 3.0m.

WSC Gauge 05FA018 (DA = 1150km$^2$, 1976 – 1995) located d/s reports Q = 16cms in July 1983. Other nearby gauges suggest possible HW for this site in April 1974. The storm database indicates that the largest storms were June 1970 and June 1973 with about 100mm of rainfall.

**Basin Runoff Potential :**

d = 35mm, $T_p$ = 20 hrs, q = 0.25 cms/km$^2$.
Gross DA = 1007 km$^2$.
$Q_p$ = 250 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 = 0.7 m/s, Q = 20 cms.