BF 08972 Local Road Over Driedmeat Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.001
B = 4 m, h = 1.4 m, T_h = 8 m
Use n = 0.05

At Bank Height : Y = 1.4 m, V = 0.6 m/s, Q = 5 cms
At Channel Capacity : Y = 2.1 m, V = 0.9 m/s, Q = 12 cms

Historical Highwater Data :

The pipe at this site was washed out in April 1969 and April 1974 (1' over grade, H = 2.7m, Q ~ 10cms). A report from 1963 notes a HWM over the grade (Y = 1.8m u/s) and reports from 1961 and 1963 estimate Q = 9 – 10cms.

There are no gauges on this stream. Gauges in the area suggest large runoff events in April 1974, and March 1985. No storms in the storm database exceed 100mm for this area.

Basin Runoff Potential :

d = 35mm, T_p = 40hrs, q = 0.25 cms/km^2.
Gross DA = 97 km^2.
Q_p = 24 cms.

Conclusion :

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

Recommended parameters : Y = 2.1 m, V = 0.9 m/s, Q = 12 cms.