BF 01800 Hwy 26 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 :

HW was observed in April 1971 with Y = 1.2m and in April 1974 with water close to the grade (modelling suggests Q = 10 – 12 cms). A 1955 report refers to a HWM just over the grade at the bridge (Y = 1.5 – 1.8m, Q = 8cms).

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 = 96 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.