BF 81185 Local Road Over Driedmeat Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0002
B = 5 m, h = 1.6 m, T_h = 12 m
Use n = 0.045

At Bank Height : Y = 1.6 m, V = 0.3 m/s, Q = 5 cms
At Channel Capacity : Y = 2.4 m, V = 0.5 m/s, Q = 10 cms

Historical Highwater Data :

There is no HW data on file. A design in 2003 was based on Q = 14cms and Y = 2.6m.

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 = 427 km^2.
Q_p = 105 cms.

Conclusion :

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

Recommended parameters : Y = 2.4 m, V = 0.5 m/s, Q = 10 cms.