BF 74428 Local Road Over Slims Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.012
B = 3 m, h = 1.0 m, T_h = 5 m
Use n = 0.055

At Bank Height : Y = 1.0 m, V = 1.5 m/s, Q = 6 cms
At Channel Capacity : Y = 1.5 m, V = 2.2 m/s, Q = 15 cms

Historical Highwater Data :

HW was noted in 1965 (Y = 1.5m). A 1954 report estimates Q = 12cms. A 1958 report estimates Q = 10cms. The 1992 design was based on Y = 1.2m and Q = 19cms.

There are no gauges on this stream. Gauges in the area suggest HW events in July 1963, May 1964, July 1972, June 1977, June 1990, and April 1997. The largest storm in the storm database is about 105mm of rainfall in July 1963.

Basin Runoff Potential :

d = 40 mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 98 km^2.
Q_p = 54 cms.

Conclusion :

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

Recommended parameters : Y = 1.5 m, V = 2.2 m/s, Q = 15 cms.