BF 07469 Local Road Over Lobstick Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0003
B = 8 m, h = 2.0 m, T_h = 15 m
Use n = 0.035

At Bank Height : Y = 2.0 m, V = 0.6 m/s, Q = 15 cms
At Channel Capacity : Y = 3.0 m, V = 0.9 m/s, Q = 35 cms

Historical Highwater Data :

HW was noted in July 1986 with Y = 2.5m. The 1956 report notes a HWM with water over the grade and the 1961 report notes a HWM about 1m below deck (Y ~ 2.5m).

There are no WSC gauges on this stream. Gauges in the area suggest HW events in June 1972, July 1982, July 1986, June and July 1990, and July 1999. The largest storms in the storm database are August 1925 and July 1986 with about 105mm of rainfall.

Basin Runoff Potential :

d = 50 mm, T_p = 20 hrs, q = 0.7 cms/km^2.
Gross DA = 161 km^2.
Q_p = 110 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 = 0.9 m/s, Q = 35 cms.