BF 72763 Local Road Over East Lobstick Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.002
B = 3 m, h = 1.2 m, T = 7 m
Use n = 0.05

At Bank Height : Y = 1.2 m, V = 0.8 m/s, Q = 5 cms
At Channel Capacity : Y = 1.8 m, V = 1.1 m/s, Q = 12 cms

Historical Highwater Data :

A report from 1964 notes HW to the bottom of the stringers with Qest = 240cfs. A report from 1982 notes a HWM of Y = 1.6m and Q = 15cms. A HWM of Y=1.7m was noted in 1990. In 1999 the road was overtopped.

There are no WSC gauges on this stream. Gauges in the area have noted HW in July 2005 and 1999. The largest storms in the storm database are July 1986 and August 1925 with about 105mm of rainfall.

Basin Runoff Potential :

d = 60mm, T_p = 20hrs, q = 0.83 cms/km^2.
Gross DA = 45 km^2.
Q_p = 40 cms.

Conclusion :

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

Recommended parameters : Y = 1.8 m, V = 1.1 m/s, Q = 12 cms.