BF 01568 Hwy 598 Over Lobstick Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0005
B = 6 m, h = 2.5 m, T_h = 13 m
Use n = 0.04

At Bank Height : Y = 2.5 m, V = 0.8 m/s, Q = 18 cms
At Channel Capacity : Y = 3.5 m, V = 1.1 m/s, Q = 40 cms

Historical Highwater Data :

HW was noted in July 1986 with Y = 2.6m. A 1991 BIM report notes a HWM with Y = 3.1m. The 2000 design was based on Y = 3.3m.

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 = 172 km^2.
Q_p = 120 cms.

Conclusion :

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

Recommended parameters : Y = 3.5 m, V = 1.1 m/s, Q = 40 cms.