BF 08174 Hwy 12 Over Lobstick Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0007
B = 5 m, h = 2.5 m, T_h = 12 m
Use n = 0.045

At Bank Height : Y = 2.5 m, V = 0.8 m/s, Q = 17 cms
At Channel Capacity : Y = 3.5 m, V = 1.1 m/s, Q = 35 cms

Historical Highwater Data :

HW was noted in July 1982 (0.6m below deck, abutment washout, Y ~ 3m), and July 1990 (0.4m below curb, Y ~ 3.5m, erosion at approaches). A 1953 report notes a HWM over the grade to the east (Y ~ 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 = 135 km^2.
Q_p = 95 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 = 35 cms.