BF 73450 Hwy 35 Over Meander River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.02
B = 2 m, h = 0.8 m, T_h = 4 m
Use n = 0.055

At Bank Height : Y = 0.8 m, V = 1.7 m/s, Q = 4 cms
At Channel Capacity : Y = 1.3 m, V = 2.5 m/s, Q = 10 cms

Historical Highwater Data :

HW was noted in August 1957 with Y = 0.6m. A 1953 report notes a HWM with Y = 0.8m. A 1994 BIM report notes drift 0.8m above the u/s crown (modelling suggests Q ~ 8cms if no blockage).

There are no gauges on this stream. Gauges in the area suggest HW events in June 1977, May 1979, and July 1988. The largest storms in the database for this area are 135mm of rainfall in July 1998 and 120mm in June 1984.

Basin Runoff Potential :

d = 40 mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 54 km^2.
Q_p = 30 cms.

Conclusion :

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

Recommended parameters : Y = 1.3 m, V = 2.5 m/s, Q = 10 cms.