BF 76933 Hwy 41 Over Sounding Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0025
B = 1 m, h = 0.8 m, T_h = 3 m
Use n = 0.05

At Bank Height : Y = 0.8 m, V = 0.6 m/s, Q = 1 cms
At Channel Capacity : Y = 1.3 m, V = 1.0 m/s, Q = 3 cms

Historical Highwater Data :

A 1960 report estimates Q = 3cms. A 1988 BIM report notes a HWM at Y = 1.0m.

There are no gauges on this stream. Gauges in the area suggest HW events in spring of 1965, 1985, and 1997. The largest storms in the database for this area are 190mm in June 1973 and 120mm in July 1962.

Basin Runoff Potential :

d = 35mm, T_p = 40hrs, q = 0.25 cms/km^2.
Gross DA = 16 km^2.
Q_p = 4 cms.

Conclusion :

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

Recommended parameters : Y = 1.3 m, V = 1.0 m/s, Q = 3 cms.