BF 07541 Local Road Over Strawberry Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = S = 0.0025
B = 2 m, h = 0.8 m, T_h = 4 m
Use n = 0.05

At Bank Height : Y = 0.8 m, V = 0.7 m/s, Q = 2 cms
At Channel Capacity : Y = 1.3 m, V = 1.0 m/s, Q = 5 cms

Historical Highwater Data :

Bridge reports from 1954 and 1966 note Y = 1.2 – 1.5m, and estimate Q = 4 – 6cms.

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in July 1986, and July 1990. The largest storms in the storm database are about 180mm of rainfall in June 1944, and about 130mm in July 1982 and 1990.

Basin Runoff Potential :

d = 50 mm, T_p = 20 hrs, q = 0.7 cms/km^2.
Gross DA = 12 km^2.
Q_p = 8 cms.

Conclusion :

Channel capacity is consistent with historical observations and is within the basin runoff potential.

Recommended parameters : Y = 1.3 m, V = 1.0 m/s, Q = 5 cms.