BF 07068 Local Road over Strawberry Creek Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.006
B = 3 m, h = 1.2 m, T_h = 5 m
Use n = 0.05

At Bank Height: Y = 1.2 m, V = 1.3 m/s, Q = 6 cms
At Channel Capacity: Y = 1.8 m, V = 1.9 m/s, Q = 15 cms

Historical Highwater Data :

HW was noted in July 1990 with the inlet bevel buckling. A 1962 report notes a HWM with Y = 1.2m and estimates Q = 9cms. A 2001 photo shows drift to the inlet crown.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in April 1974, July 1982, July 1986, and July 1990. The largest storms in the database for this basin are about 180mm in June 1944 and 130mm in July 1982 and July 1990.

Basin Runoff Potential :

d = 50-60 mm, T_p = 20 hrs, q = 0.75 cms/km^2.
Gross DA = 28 km^2.
Q_p = 21 cms.

Conclusion :

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

Recommended parameters : Y = 1.8 m, V = 1.9 m/s, Q = 15 cms.