# BF 01748 Hwy 622 Over Strawberry Ck Tributary
# Hydrotechnical Summary

**Channel Capacity** :

S = 0.01 (survey), S = 0.0025 for u/s channel (DTM)
B = 2 m, h = 0.8 m, $T_h$ = 4 m
Use n = 0.055

At Bank Height : Y = 0.8 m, V = 1.2 m/s, Q = 3 cms
At Channel Capacity : Y = 1.3 m, V = 1.8 m/s, Q = 8 cms

**Historical Highwater Data :**

The west abutment washed out in 1953.

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 = 13 km$^2$.
$Q_p$ = 9 cms.
Channel capacity limitation for u/s channel – Q = 5cms.

**Conclusion :**

Basin runoff potential, accounting for u/s channel capacity governs for this site.

Recommended parameters : Y = 1.0 m, V = 1.5 m/s, Q = 5 cms.