BF 71295 Hwy 43 Over Cornwall Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.012
B = 1 m, h = 0.7 m, T_h = 3 m
Use n = 0.06

At Bank Height : Y = 0.7 m, V = 1.0 m/s, Q = 1.5 cms
At Channel Capacity : Y = 1.2 m, V = 1.7 m/s, Q = 5 cms

Historical Highwater Data :

HW was noted in June 1996 (1/2 full). A 1955 report notes a HWM with Y = 1.2m and estimates Q = 4cms. A 1996 FPS estimates Q = 5cms. A 1998 photo shows that the struts were washed out, and rock was added to the ends in 1978.

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in August 1976, April 1977, August 1987, June 1996, and April 1997. The largest storms in the storm database are about 100mm of rainfall in July 1983, June 1990, and June 1996.

Basin Runoff Potential :

d = 65 mm, T_p = 20 hrs, q = 0.9 cms/km^2.
Gross DA = 6 km^2.
Q_p = 5 cms.

Conclusion :

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

Recommended parameters : Y = 1.2 m, V = 1.7 m/s, Q = 5 cms.