BF 02273 Hwy 17 Over Big Gully Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0015
B = 4 m, h = 1.4 m, T_h = 6 m
Use n = 0.05

At Bank Height : Y = 1.4 m, V = 0.7 m/s, Q = 5 cms
At Channel Capacity : Y = 2.1 m, V = 1.1 m/s, Q = 12 cms

Historical Highwater Data :

A photo from 1985 shows water close to the bottom of the caps with some overbank ponding and very low V. A note from 1980 and a report from 1986 indicate HWM close to the bottom of the stringers.

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in April 1974, April 1979, and April 1997. There are no storms in the storm database that exceed 100mm for this area.

Basin Runoff Potential :

d = 35 mm, T_p = 40 hrs, q = 0.25 cms/km^2.
Gross DA = 218 km^2.
Q_p = 55 cms.

Conclusion :

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

Recommended parameters : Y = 2.1 m, V = 1.1 m/s, Q = 12 cms.