BF 73564 Hwy 43 Over Updike Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.005
B = 3 m, h = 1.0 m, T_h = 6 m
Use n = 0.05

At Bank Height : Y = 1.0 m, V = 1.0 m/s, Q = 5 cms
At Channel Capacity : Y = 1.5 m, V = 1.4 m/s, Q = 11 cms

Historical Highwater Data :

HW was noted in June 1964 (0.2m > u/s crown) and May 1974 (0.8m > u/s crown, estimated Q = 11cms). A 1957 report notes a HWM with Y = 1.5m and estimates Q = 6cms. A 2000 BIM report notes a HWM with Y = 1.5m.

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in April 1974, June 1990, and April 1997. The storm database storms in June 1977 (165mm), and June 1964 and 1971 (115mm).

Basin Runoff Potential :

d = 60mm, T_p = 20hrs, q = 0.83 cms/km^2.
DA = 75 km^2.
Q_p = 62 cms.

Conclusion :

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

Recommended parameters : Y = 1.5 m, V = 1.4 m/s, Q = 11 cms.