BF 77455 Hwy 55 Over Beaver River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.003
B = 2 m, h = 1.2 m, T_h = 5 m
Use n = 0.05

At Bank Height : Y = 1.2 m, V = 0.9 m/s, Q = 4 cms
At Channel Capacity : Y = 1.8 m, V = 1.3 m/s, Q = 10 cms

Historical Highwater Data :

A 1999 inspection notes drift 0.8m above the u/s crown (beaver dam d/s). A 1971 report notes a HWM with Y = 1.8m and estimates Q = 8cms. The 2003 design was based on Y = 1.2m and Q = 15cms.

There are no gauges on this stream. Gauges in the area suggest large runoff events in July 1970, April 1974, April 1985, and April 1996. The largest storms in the storm database are 100mm in June 1962, June 1970, and June 1973.

Basin Runoff Potential :

d = 40mm, T_p = 20hrs, q = 0.55 cms/km^2.
Gross DA = 12 km^2.
Q_p = 7 cms.

Conclusion :

Basin runoff potential governs for this site.

Recommended parameters : Y = 1.6 m, V = 1.2 m/s, Q = 7 cms.