BF 78643 Highway 33 Over Jerry Creek
Hydrotechnical Summary

Channel Capacity :

S = 0.02
B = 3.5 m, h = 1.8 m, T_h = 8 m
Use n = 0.06

At Bank Height : Y = 1.8 m, V = 2.5 m/s, Q = 25 cms
At Channel Capacity : Y = 2.7 m, V = 3.8 m/s, Q = 65 cms

Historical Highwater Data :

A 1988 report notes HW ~2.1m above the inlet crown (Y~4.4m, mention of substantial debris) and reports Y~3.1m at 75m u/s of the inlet, indicating the formation of a backwater curve.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in July 1988 and June 1996. The largest storms for this area in the storm database are about 140mm of rainfall in July 1988 and about 115mm in June 1996.

Basin Runoff Potential :

d = 90 mm, T_p = 20 hrs, q = 1.25 cms/km^2.
Gross DA = 15 km^2.
Q_p = 20 cms.

Conclusion :

The basin runoff potential governs for this site.

Recommended parameters : Y = 1.6 m, V = 2.4 m/s, Q = 20 cms.