BF 71616 Highway 2 Over 3rd Order Tributary to Baptiste Creek Hydrotechnical Summary

Channel Capacity :

S = 0.008
B = 1 m, h = 0.8 m, T_h = 3 m
Use n = 0.055.

At Bank Height : Y = 0.8 m, V = 1.0 m/s, Q = 2 cms
At Channel Capacity : Y = 1.3 m, V = 1.6 m/s, Q = 6 cms

Historical Highwater Data :

A 1999 BIM Inspection refers to a HWM of Y ~ 1m.

There are no WSC gauges located on this stream. Gauges in the area suggest large events in April 1997 and July 1986

The storm database repots large events in July 1953 and June 1973.

Basin Runoff Potential :

d = 40mm, T_p = 20hrs, q = 0.56 cms/km^2.
Gross DA = 30 km^2,
Q_p = 12 cms.

Conclusion :

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

Recommended parameters : Y = 1.3 m, V = 1.6 m/s, Q = 6 cms.