BF 13116 Local Road Over Muriel Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0003
B = 4 m, h = 1.5 m, T_h = 8 m
Use n = 0.045

At Bank Height : Y = 1.5 m, V = 0.4 m/s, Q = 4 cms
At Channel Capacity : Y = 2.3 m, V = 0.6 m/s, Q = 9 cms

Historical Highwater Data :

A 1960 report notes a HWM with Y = 0.6m and a 1974 report notes a HWM with Y = 1.8m and Q = 7cms.

There are no gauges on this stream. Gauges in the area suggest HW events in April 1974, 1979, and 1997. The largest storms in the storm database are June 1962 with about 130mm of rainfall, June 1988 with 115mm, and June 1970 with 100mm.

Basin Runoff Potential :

d = 40 mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 765 km^2.
Q_p = 420 cms.

Conclusion :

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

Recommended parameters : Y = 2.3 m, V = 0.6 m/s, Q = 9 cms.