BF 76718 Local Road Over Montagneuse River
Hydrotechnical Summary

Channel Capacity :

S = 0.0007
B = 7 m, h = 2.0 m, T_h = 15 m
Use n = 0.04

At Bank Height : Y = 2.0 m, V = 0.8 m/s, Q = 20 cms
At Channel Capacity : Y = 3.0 m, V = 1.2 m/s, Q = 45 cms

Historical Highwater Data :

HW was noted in 1968 (Y = 2.4m). A report from 1963 notes a HWM with Y = 2.7m and estimates Q = 55cms.

WSC Gauges 07FD012 (DA = 230, 1976-2003) is located d/s. It has recorded HW events in May 1984 (Qi = 30.6cms, stage rise = 2.2m), July 1988 (Qi = 19.9cms) and April 1997 (Qi = 28.4 cms). The largest storms in the storm database are 123mm of rainfall in Aug 1982, and about 110mm in Jul 1963.

Basin Runoff Potential :

d = 60 mm, T_p = 20 hrs, q = 0.85 cms/km^2.
Gross DA = 210 km^2.
Q_p ~ 180 cms.

Conclusion :

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

Recommended parameters : Y = 3.0 m, V = 1.2 m/s, Q = 45 cms.