BF 70153 Local Road Over Mud Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.001
B = 3 m, h = 1.6 m, T_h = 7 m
Use n = 0.05

At Bank Height : Y = 1.6 m, V = 0.6 m/s, Q = 5 cms
At Channel Capacity : Y = 2.4 m, V = 0.9 m/s, Q = 12 cms

Historical Highwater Data :

A 1958 report notes a HWM with Y = 2.4m. The 1993 design was based on Y = 2.3m and Q = 10cms.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in June 1965, June 1972, July 1981, July 1986, June 1990, and July 1999. The largest storms for this area in the database are June 1972 (130mm), and August 1925, June 1970, and June 1981 (100mm).

Basin Runoff Potential :

d = 60mm, T_p = 20hrs, q = 0.83 cms/km^2.
Gross DA = 52 km^2.
Q_p = 43 cms.

Conclusion :

The channel capacity estimate appears to be consistent with historic data and within the basin runoff potential.

Recommended parameters : Y = 2.4 m, V = 0.9 m/s, Q = 12 cms.