BF 73034 Local Road Over Updike Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0015
B = 2 m, h = 1.0 m, T_h = 5 m
Use n = 0.05

At Bank Height : Y = 1.0 m, V = 0.6 m/s, Q = 2 cms
At Channel Capacity : Y = 1.5 m, V = 0.8 m/s, Q = 5 cms

Historical Highwater Data :

A 1967 report estimates Q = 6cms. The 1995 design was based on Y = 1.2m and Q = 5cms. A 1995 BIM report notes a HWM with Y = 1m.

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in April 1974, June 1990, and April 1997. The storm database storms in June 1977 (165mm), and June 1964 and 1971 (115mm).

Basin Runoff Potential :

d = 60mm, T_p = 20hrs, q = 0.83 cms/km^2.
DA = 41 km^2.
Q_p = 34 cms.

Conclusion :

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

Recommended parameters : Y = 1.5 m, V = 0.8 m/s, Q = 5 cms.