BF 73569 Local Road Over Weiller Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0012
B = 2 m, h = 0.8 m, T_h = 5 m
Use n = 0.05

At Bank Height : Y = 0.8 m, V = 0.4 m/s, Q = 1.5 cms
At Channel Capacity : Y = 1.3 m, V = 0.7 m/s, Q = 4 cms

Historical Highwater Data :

HW was noted in April 1974 with water over the road at a small pipe, Y = 0.9 – 1.2m d/s.

There are no gauges on this stream. Gauges in the area suggest large runoff events in April 1974, April 1982, March 1995, July 1990, and April 1999. The largest storms in the database for this area are 130mm of rainfall in June 1911, and 110mm in July 1937, June 1973, July 1982, and July 1990.

Basin Runoff Potential :

d = 40mm, T_p = 20hrs, q = 0.55 cms/km^2.
Gross DA = 73 km^2.
Q_p = 40 cms.

Conclusion :

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

Recommended parameters : Y = 1.3 m, V = 0.7 m/s, Q = 4 cms.