BF 86016 Hwy 43 Over Spruce Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.007
B = 0.7 m, h = 0.7 m, T_h = 3 m
Use n = 0.055

At Bank Height : Y = 0.7 m, V = 0.8 m/s, Q = 1 cms
At Channel Capacity : Y = 1.2 m, V = 1.4 m/s, Q = 4 cms

Historical Highwater Data :

This file has no historical HW data. Past design (1999) based on frequency analysis suggested flow of ~ 5cms.

There are no WSC Gauges on this stream or gauges with similar drainage basin characteristics on nearby streams.

Basin Runoff Potential :

d = 60 mm, T_p = 20 hrs, q = 0.83 cms/km^2.
Gross DA = 12 km^2.
Q_p = 10 cms.

Conclusion :

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

Recommended parameters : Y = 1.2 m, V = 1.4 m/s, Q = 4 cms.