BF 77926 Hwy 58 Over Sousa Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.01
B = 2 m, h = 1.0 m, T_h = 4 m
Use n = 0.055

At Bank Height : Y = 1.0 m, V = 1.3 m/s, Q = 4 cms
At Channel Capacity : Y = 1.5 m, V = 2.0 m/s, Q = 10 cms

Historical Highwater Data :

A 1975 report estimates Q = 9cms.

There are no WSC gauges on this stream. Gauge 07OA001 on Sousa Ck notes a HW event in June 1977. The storm database notes storms in July 1987 (190mm), July 1998 (150mm), and August 1993 (140mm).

Basin Runoff Potential :

d = 40 mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 14 km^2.
Q_p = 8 cms.

Conclusion :

Basin runoff potential governs for this site.

Recommended parameters : Y = 1.4 m, V = 1.8 m/s, Q = 8 cms.