BF 77857 Hwy 947 Over Edson River
Hydrotechnical Summary

Channel Capacity :

S = 0.0017
B = 8 m, h = 3.0 m, T_h = 14 m
Use n = 0.04

At Bank Height : Y = 3.0 m, V = 1.6 m/s, Q = 55 cms
At Channel Capacity : Y = 4.0 m, V = 2.1 m/s, Q = 100 cms

Historical Highwater Data :

There are no HW observations for this site. DD791 (prepared in 1975, bridge never built) notes Q = 70cms and Y = 3.3m. HW was noted at BF09001 d/s in July 1965.

There are no WSC gauges on this stream. Gauges in the area suggest HW events in June 1972, June 1980, July 1986, and July 1999. The largest storms in the database for this area are July 1939, June 1944, June 1958, July 1965, and June 1972 with about 105mm of rainfall.

Basin Runoff Potential :

d = 60 mm, T_p = 20 hrs, q = 0.83 cms/km^2
Gross DA = 235 km^2.
Q_p = 195 cms.

Conclusion :

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

Recommended parameters : Y = 4.0 m, V = 2.1 m/s, Q = 100 cms.