# BF 00293 Local Road Over Lac La Biche Tributary
# Hydrotechnical Summary

**Channel Capacity** :

S = 0.0015
B = 2 m, h = 1.0 m, T = 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 1978 report notes a HWM with Y = 1.2m (over road at small pipe crossing).

There are no WSC gauges on this stream. Gauges in the area suggest HW events in April 1974 and 1996. The largest storms in the storm database are June 1962, 1970, and 1973 with about 105mm of rainfall.

**Basin Runoff Potential :**

d = 40mm, $T_p$ = 20hrs, q = 0.55 cms/km$^2$.
DA = 50 km$^2$.
$Q_p$ = 28 cms.

**Conclusion :**

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

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