# BF 76515 Hwy 676 Over Little Puskwaskau Ck
# Hydrotechnical Summary

**Channel Capacity** :

S = 0.0035
B = 4 m, h = 2.0 m, $T_h$ = 9 m
Use n = 0.045

At Bank Height : Y = 2.0 m, V = 1.5 m/s, Q = 20 cms
At Channel Capacity : Y = 3.0 m, V = 2.3 m/s, Q = 50 cms

**Historical Highwater Data :**

HW was noted in June 1996, with embankment slides and a hanging outlet (no sign of HW over top of bank d/s). A 1966 report notes a HWM with Y = 2.7 – 3m, and estimates Q = 38cms. A 1996 design was based on Q = 28cms, and a 2007 design was based on Y = 2.3m and Q = 37cms.

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in April 1974, August 1976, and April 1997. The largest storms in the storm database are about 150mm of rainfall in June 1990, 120mm in August 1982, and 100mm in June 1965.

**Basin Runoff Potential :**

d = 60 mm, $T_p$ = 20 hrs, q = 0.85 cms/km$^2$.
Gross DA = 85 km$^2$.
$Q_p$ = 70 cms.

**Conclusion :**

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

Recommended parameters : Y = 3.0 m, V = 2.3 m/s, Q = 50 cms.