BF 00665 Hwy 2 Over Little Egg Ck
Hydrotechnical Summary

Channel Capacity :

S = 0.0002
B = 3 m, h = 1.2 m, T_h = 7 m
Use n = 0.05

At Bank Height : Y = 1.2 m, V = 0.2 m/s, Q = 1.5 cms
At Channel Capacity : Y = 1.8 m, V = 0.4 m/s, Q = 4 cms

Historical Highwater Data :

A 1997 BIM report notes a HWM with Y = 1.5m. The design was based on AENV drainage improvements with Q = 3.5cms.

There are no WSC Gauges on this stream. Gauges in the area suggest HW events in April 1974, 1982, and 1997. The largest storms in the storm database are 160mm of rainfall in July 1953, and about 100mm in 1937, 1952, 1965, and 1986.

Basin Runoff Potential :

d = 40 mm, T_p = 20 hrs, q = 0.55 cms/km^2.
Gross DA = 138 km^2 (133km^2 u/s of Manawan Lake)
Q_p = 75 cms.

Conclusion :

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

Recommended parameters : Y = 1.8 m, V = 0.4 m/s, Q = 4 cms.