Table 2.3 Modelled estimates of existing peak flood flows near Windsor bridge

Location	Peak flow for modelled flood events (cum/s)			
	5 year ARI	20 year ARI	!00 year ARI	PMF (1)
6.2 km upstream	3,790	7,140	8,310	8,420
3.5 km upstream	3,750	6,610	7,660	7,800
Windsor bridge	3,650	5,440	6,250	6,690
Flood Level (AHD) at Windsor Bridge m	11.04	13.81	17.29	25.54
Sackville(2)	3,680	6,260	10,800	32,000

1. Probable maximum flood.

2. Represents combined flow of river and floodplain.

	Area sqm	Discharge cumecs	Velocity m/sec
Waterway Area at Bridge Site for 1 in 5 years flood (natural) sqm	2253	3650	1.62
Waterway Area at Bridge Sitefor 1 in 5 years flood (constricted) sqm	1825	3650	2.00
Waterway Area at Bridge Site for 1 in 20 years flood (natural) sqm	2953	5440	1.84
Waterway Area at Bridge Site for 1 in 20 years flood (constricted) sqm	2725	5440	2.00
Waterway Area at Bridge Site for 1 in100 years flood (natural) sqm	3828	6250	1.63
Waterway Area at Bridge Site for 1 in100 years flood (constricted) sqm	3600	6250	1.74
MPF (natural)	5851	6690	1.14
MPF (constricted)F	5623	6690	1.19

The reason the velocity decreases as the flood level rises is because of the breakout channel that occu
just upstream at Freemans Reach which results in the bulk of the water bypassing Windsor at approx

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RL10 to RL11 (AHD)