

## SITE 1 - PROPOSED ATTENUATION REQUIREMENTS

Area (Site) (sqm) 5201  
 Actual Impermeable Area (sqm) 4375  
 Storm Return Period **1 in 100 Year**  
 Allowable outflow from site: **3.7 litres/second**

The greenfield run-off rate from the total site was calculated to be 3.7 l/s (QBAR formula on sheet 1.0).

Critical Attenuation Vol.

Storm Duration (mins)	Total Rainfall during storm (100 yr RP)	+10% Total Rainfall during storm (100 yr RP)	Impermeable Contributing Area (m <sup>2</sup> )	Total run-off from site during storm (m <sup>3</sup> )	Discharge allowed from site during storm (m <sup>3</sup> )	Required Storage (m <sup>3</sup> )
5	12.20	13.42	4375	53.38	1.11	52
10	18.10	19.91	4375	79.19	2.22	77
15	23.00	25.30	4375	100.63	3.33	97
30	30.00	33.00	4375	131.25	6.66	125
60	36.00	39.60	4375	157.50	13.32	144
120	43.00	47.30	4375	188.13	26.64	161
240	51.00	56.10	4375	223.13	53.28	170
<b>360</b>	<b>58.00</b>	<b>63.80</b>	<b>4375</b>	<b>253.75</b>	<b>79.92</b>	<b>174</b>
720	70.00	77.00	4375	306.25	159.84	146
1440	82.00	90.20	4375	358.75	319.68	39
2880	95.00	104.50	4375	415.63	639.36	-224