

Kent International Gateway (2005-180A)

Proposed Surface Water Drainage - Attenuation Calculation Summary (19/06/07)

	Catchment 1A	Catchment 1B	Catchment 1 Total	Catchment 2A	Catchment 2B	Catchment 2C	Catchment 2D	Catchment 2 Total	Catchment 3A	Catchment 3B	Catchment 3 Total
Existing Greenfield Area (ha)			38.28					48.51			23.04
Proposed Building Area (ha)	12.29	4.31	16.6	0	0	4.29	9.33	13.62	2.86	3.71	6.57
Proposed Car Park Area (ha)	1.21	0.63	1.84	0	0	0.38	1.07	1.45	0.5	1.39	1.89
Proposed Service/Loading Area (ha)	1.31	0.85	2.16	3.99	2.55	1.08	2.25	9.87	0.89	1.67	2.56
Proposed Highway Area (ha)	0.07	0.75	0.82	0.42	0.43	0.14	1.8	2.79	1.19	1.09	2.28
Proposed Misc. Areas (ha)	0.17	0.18	0.35	0	0	0.11	0.26	0.37	0	0.72	0.72
Total Impermeable Area (ha)	15.05	6.72	21.77	4.41	2.98	6	14.71	28.1	5.44	8.58	14.02
Greenfield Runoff Allowance (l/s)	41.5	18	59.5	9	8.6	18	37.9	73.5	15.9	22	37.9
Attenuation Volume (m3)	8070	3637	11707	3217	2021	3160	8030	16428	2892	5926	8818
Proposed Pond Areas (m2) *	6727	2967	9694	0	0	2579	6511	9090	2456	0	11546
Proposed Cellular Storage Areas (m2) **	0	0	0	1619	1035	0	0	2654	0	3027	5681

* 2m overall depth, 1.8m effective

** 2.5m overall depth, 2m effective