

CALCULATION SHEET



Client GOWER HOMES LTD			Job Title PROPOSED RESIDENTIAL DEVELOPMENT, PACKSADDLE BANK, PENTRE BYCHAN			Job No 5009
By RW	Date 11.16	Chkd	Element SURFACE WATER DRAINAGE ANALYSIS GEOCELLULAR SOAKAWAY DESIGN:			Sheet No FS 1
DATA	CALCULATIONS					RESULTS
	1 in 100 year Exceedence Volumes - From Design Calculations (m³)					
	SA Ref	V100	Residual Volume	Additional provided	+ 30% CC	Provided @ 80% of Area
	P1 F	1.560	0.652	0.111	0.848	N/A - A3
	P1 R	0.610	-0.022	0.109	-0.028	2.616
	P2 F	1.116	0.979	0.097	1.273	N/A - A4
	P2 R	0.369	0.248	0.103	0.323	2.642
	P3	0.616	0.419	0.103	0.544	2.914
	P3 Drive	0.863	0.587	0.132	0.763	N/A - A2
	P4&5 R	2.537	2.248	0.112	2.923	6.207
	P5 & 6 F	2.217	1.344	0.100	1.747	N/A - A1
	P6-8 R (x3)	0.847	0.596	0.301	0.774	7.084
	P7	0.651	0.565	0.100	0.734	0.751
	P8 F	0.907	-0.150	0.097	-0.195	0.921
	P 9-11 drive	0.785	0.588	0.127	0.765	N/A - A1
	P9 & 10 Garage	1.367	0.587	0.097	0.763	1.268
	P9 & 10 (x2)	1.537	1.301	0.213	1.691	5.392
	P11	1.644	1.623	0.107	2.110	3.077
	Highway SA Ref	V100	Additional storage	Residual over provided		
	SA1	2.419	2.338	0.081		
	SA2	3.034	1.461	1.573		
	SA3	3.034	1.107	1.927		
	SA4	3.034	1.434	1.600		
	Flood Areas	V100 total	V100 residual	Additional storage	V100 + 30% CC	Provided @ 80% of Area
	A1	5.421	4.351	2.565	7.047	9.669
	A2	3.897	3.621	1.593	5.066	6.899
	A3	4.150	4.013	1.203	5.395	5.724
	A4	4.594	3.686	1.544	5.972	6.226
	V100 residual does not include storage provided in highway soakaways					