

Robert Clark Associates		Page 1
Willow Cottage Herne Lane Rustington BN16 3EE	Tulley Cottages Toddington Lane Concrete Ring Soakaways	
Date 8.4.18 File SA3.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

Summary of Results for 100 year Return Period (+40%)

Half Drain Time : 49 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	3.915	0.815	0.5	2.1	0 K
30 min Summer	4.100	1.000	0.6	2.5	0 K
60 min Summer	4.221	1.121	0.7	2.9	0 K
120 min Summer	4.269	1.169	0.7	3.0	0 K
180 min Summer	4.240	1.140	0.7	2.9	0 K
240 min Summer	4.191	1.091	0.7	2.8	0 K
360 min Summer	4.090	0.990	0.6	2.5	0 K
480 min Summer	4.005	0.905	0.6	2.3	0 K
600 min Summer	3.934	0.834	0.5	2.1	0 K
720 min Summer	3.874	0.774	0.5	2.0	0 K
960 min Summer	3.779	0.679	0.4	1.7	0 K
1440 min Summer	3.650	0.550	0.3	1.4	0 K
2160 min Summer	3.533	0.433	0.3	1.1	0 K
2880 min Summer	3.459	0.359	0.2	0.9	0 K
4320 min Summer	3.373	0.273	0.2	0.7	0 K
5760 min Summer	3.322	0.222	0.1	0.6	0 K
7200 min Summer	3.288	0.188	0.1	0.5	0 K
8640 min Summer	3.264	0.164	0.1	0.4	0 K
10080 min Summer	3.246	0.146	0.1	0.4	0 K
15 min Winter	4.015	0.915	0.6	2.3	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	124.633	0.0	17
30 min Summer	83.789	0.0	30
60 min Summer	53.779	0.0	46
120 min Summer	33.337	0.0	80
180 min Summer	24.832	0.0	114
240 min Summer	20.006	0.0	146
360 min Summer	14.706	0.0	212
480 min Summer	11.818	0.0	274
600 min Summer	9.966	0.0	338
720 min Summer	8.665	0.0	398
960 min Summer	6.943	0.0	520
1440 min Summer	5.071	0.0	764
2160 min Summer	3.696	0.0	1124
2880 min Summer	2.949	0.0	1496
4320 min Summer	2.142	0.0	2204
5760 min Summer	1.705	0.0	2936
7200 min Summer	1.427	0.0	3672
8640 min Summer	1.235	0.0	4408
10080 min Summer	1.093	0.0	5136
15 min Winter	124.633	0.0	17

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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	4.226	1.126	0.7	2.9	0 K
60 min Winter	4.351	1.251	0.8	3.2	0 K
120 min Winter	4.366	1.266	0.8	3.2	0 K
180 min Winter	4.301	1.201	0.7	3.1	0 K
240 min Winter	4.221	1.121	0.7	2.9	0 K
360 min Winter	4.079	0.979	0.6	2.5	0 K
480 min Winter	3.967	0.867	0.5	2.2	0 K
600 min Winter	3.877	0.777	0.5	2.0	0 K
720 min Winter	3.805	0.705	0.4	1.8	0 K
960 min Winter	3.696	0.596	0.4	1.5	0 K
1440 min Winter	3.559	0.459	0.3	1.2	0 K
2160 min Winter	3.445	0.345	0.2	0.9	0 K
2880 min Winter	3.380	0.280	0.2	0.7	0 K
4320 min Winter	3.305	0.205	0.1	0.5	0 K
5760 min Winter	3.264	0.164	0.1	0.4	0 K
7200 min Winter	3.238	0.138	0.1	0.4	0 K
8640 min Winter	3.220	0.120	0.1	0.3	0 K
10080 min Winter	3.206	0.106	0.1	0.3	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	83.789	0.0	30
60 min Winter	53.779	0.0	48
120 min Winter	33.337	0.0	84
180 min Winter	24.832	0.0	120
240 min Winter	20.006	0.0	156
360 min Winter	14.706	0.0	222
480 min Winter	11.818	0.0	286
600 min Winter	9.966	0.0	350
720 min Winter	8.665	0.0	412
960 min Winter	6.943	0.0	538
1440 min Winter	5.071	0.0	780
2160 min Winter	3.696	0.0	1144
2880 min Winter	2.949	0.0	1500
4320 min Winter	2.142	0.0	2208
5760 min Winter	1.705	0.0	2944
7200 min Winter	1.427	0.0	3672
8640 min Winter	1.235	0.0	4400
10080 min Winter	1.093	0.0	5136

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