

Robert Clark Associates		Page 1
Willow Cottage Herne Lane Rustington BN16 3EE	70 Woodland Avenue Rustington West Sussex	
Date 22.May 2018 File Concrete ring.SRCX	Designed by RTFC Checked by	
Micro Drainage	Source Control 2016.1	

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

Half Drain Time : 152 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	6.516	0.816	0.1	1.8	0 K
30 min Summer	6.759	1.059	0.2	2.3	0 K
60 min Summer	6.967	1.267	0.2	2.8	0 K
120 min Summer	7.092	1.392	0.3	3.0	0 K
180 min Summer	7.169	1.469	0.3	3.1	0 K
240 min Summer	7.187	1.487	0.3	3.2	0 K
360 min Summer	7.148	1.448	0.3	3.1	0 K
480 min Summer	7.086	1.386	0.3	3.0	0 K
600 min Summer	7.042	1.342	0.2	2.9	0 K
720 min Summer	6.996	1.296	0.2	2.8	0 K
960 min Summer	6.908	1.208	0.2	2.6	0 K
1440 min Summer	6.760	1.060	0.2	2.3	0 K
2160 min Summer	6.599	0.899	0.2	2.0	0 K
2880 min Summer	6.484	0.784	0.1	1.7	0 K
4320 min Summer	6.329	0.629	0.1	1.4	0 K
5760 min Summer	6.229	0.529	0.1	1.2	0 K
7200 min Summer	6.159	0.459	0.1	1.0	0 K
8640 min Summer	6.106	0.406	0.1	0.9	0 K
10080 min Summer	6.066	0.366	0.1	0.8	0 K
15 min Winter	6.614	0.914	0.2	2.0	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	124.633	0.0	18
30 min Summer	83.789	0.0	32
60 min Summer	53.779	0.0	60
120 min Summer	33.337	0.0	98
180 min Summer	24.832	0.0	130
240 min Summer	20.006	0.0	164
360 min Summer	14.706	0.0	232
480 min Summer	11.818	0.0	300
600 min Summer	9.966	0.0	368
720 min Summer	8.665	0.0	434
960 min Summer	6.943	0.0	562
1440 min Summer	5.071	0.0	820
2160 min Summer	3.696	0.0	1188
2880 min Summer	2.949	0.0	1556
4320 min Summer	2.142	0.0	2292
5760 min Summer	1.705	0.0	3000
7200 min Summer	1.427	0.0	3744
8640 min Summer	1.235	0.0	4488
10080 min Summer	1.093	0.0	5152
15 min Winter	124.633	0.0	18

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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	6.889	1.189	0.2	2.6	0 K
60 min Winter	7.155	1.455	0.3	3.1	0 K
120 min Winter	7.453	1.753	0.3	3.5	Flood Risk
180 min Winter	7.525	1.825	0.3	3.5	Flood Risk
240 min Winter	7.517	1.817	0.3	3.5	Flood Risk
360 min Winter	7.405	1.705	0.3	3.4	Flood Risk
480 min Winter	7.250	1.550	0.3	3.2	0 K
600 min Winter	7.097	1.397	0.3	3.1	0 K
720 min Winter	7.028	1.328	0.2	2.9	0 K
960 min Winter	6.904	1.204	0.2	2.6	0 K
1440 min Winter	6.711	1.011	0.2	2.2	0 K
2160 min Winter	6.515	0.815	0.1	1.8	0 K
2880 min Winter	6.385	0.685	0.1	1.5	0 K
4320 min Winter	6.223	0.523	0.1	1.1	0 K
5760 min Winter	6.126	0.426	0.1	0.9	0 K
7200 min Winter	6.061	0.361	0.1	0.8	0 K
8640 min Winter	6.015	0.315	0.1	0.7	0 K
10080 min Winter	5.980	0.280	0.1	0.6	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	83.789	0.0	32
60 min Winter	53.779	0.0	60
120 min Winter	33.337	0.0	114
180 min Winter	24.832	0.0	142
240 min Winter	20.006	0.0	180
360 min Winter	14.706	0.0	254
480 min Winter	11.818	0.0	324
600 min Winter	9.966	0.0	392
720 min Winter	8.665	0.0	458
960 min Winter	6.943	0.0	590
1440 min Winter	5.071	0.0	852
2160 min Winter	3.696	0.0	1232
2880 min Winter	2.949	0.0	1588
4320 min Winter	2.142	0.0	2332
5760 min Winter	1.705	0.0	3056
7200 min Winter	1.427	0.0	3752
8640 min Winter	1.235	0.0	4496
10080 min Winter	1.093	0.0	5240

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<u>Model Details</u> Storage is Online Cover Level (m) 7.700 <u>Lined Soakaway Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>0.11310</td> </tr> <tr> <td>Safety Factor</td> <td>1.5</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> </tr> <tr> <td>Invert Level (m)</td> <td>5.700</td> </tr> <tr> <td>Ring Diameter (m)</td> <td>1.20</td> </tr> <tr> <td>Pit Multiplier</td> <td>1.8</td> </tr> <tr> <td>Number Required</td> <td>1</td> </tr> <tr> <td>Cap Volume Depth (m)</td> <td>0.000</td> </tr> <tr> <td>Cap Infiltration Depth (m)</td> <td>1.400</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00000	Infiltration Coefficient Side (m/hr)	0.11310	Safety Factor	1.5	Porosity	0.30	Invert Level (m)	5.700	Ring Diameter (m)	1.20	Pit Multiplier	1.8	Number Required	1	Cap Volume Depth (m)	0.000	Cap Infiltration Depth (m)	1.400
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