

Robert Clark Associates				Page 1	
Willow Cottage Herne Lane Rustington BN16 3EE		Walberton Farm SA2 FEH22 rainfall data			
Date 8.8.26 File SA2 calcs 10yr rain.SRCX		Designed by RTFC Checked by			
Micro Drainage		Source Control 2016.1			
Summary of Results for 10 year Return Period (+45%)					
Half Drain Time : 80 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	12.476	0.501	0.8	5.7	O K
30 min Summer	12.576	0.601	1.0	6.8	O K
60 min Summer	12.659	0.684	1.1	7.8	O K
120 min Summer	12.731	0.756	1.2	8.6	O K
180 min Summer	12.760	0.785	1.3	8.9	O K
240 min Summer	12.770	0.795	1.3	9.0	O K
360 min Summer	12.762	0.787	1.3	8.9	O K
480 min Summer	12.741	0.766	1.2	8.7	O K
600 min Summer	12.716	0.741	1.2	8.4	O K
720 min Summer	12.690	0.715	1.2	8.1	O K
960 min Summer	12.615	0.640	1.0	7.3	O K
1440 min Summer	12.508	0.533	0.9	6.0	O K
2160 min Summer	12.407	0.432	0.7	4.9	O K
2880 min Summer	12.340	0.365	0.6	4.1	O K
4320 min Summer	12.274	0.299	0.5	3.4	O K
5760 min Summer	12.230	0.255	0.4	2.9	O K
7200 min Summer	12.201	0.226	0.4	2.6	O K
8640 min Summer	12.178	0.203	0.3	2.3	O K
10080 min Summer	12.160	0.185	0.3	2.1	O K
15 min Winter	12.476	0.501	0.8	5.7	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	74.172	0.0	18		
30 min Summer	47.153	0.0	31		
60 min Summer	29.977	0.0	54		
120 min Summer	19.057	0.0	86		
180 min Summer	14.621	0.0	120		
240 min Summer	12.115	0.0	154		
360 min Summer	9.295	0.0	220		
480 min Summer	7.702	0.0	286		
600 min Summer	6.657	0.0	350		
720 min Summer	5.909	0.0	414		
960 min Summer	4.700	0.0	540		
1440 min Summer	3.405	0.0	782		
2160 min Summer	2.466	0.0	1148		
2880 min Summer	1.961	0.0	1524		
4320 min Summer	1.499	0.0	2248		
5760 min Summer	1.238	0.0	2944		
7200 min Summer	1.068	0.0	3680		
8640 min Summer	0.946	0.0	4408		
10080 min Summer	0.854	0.0	5144		
15 min Winter	74.172	0.0	17		
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Micro Drainage		Source Control 2016.1			
Summary of Results for 10 year Return Period (+45%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	12.579	0.604	1.0	6.8	O K
60 min Winter	12.663	0.688	1.1	7.8	O K
120 min Winter	12.724	0.749	1.2	8.5	O K
180 min Winter	12.740	0.765	1.2	8.7	O K
240 min Winter	12.735	0.760	1.2	8.6	O K
360 min Winter	12.705	0.730	1.2	8.3	O K
480 min Winter	12.667	0.692	1.1	7.8	O K
600 min Winter	12.629	0.654	1.1	7.4	O K
720 min Winter	12.594	0.619	1.0	7.0	O K
960 min Winter	12.511	0.536	0.9	6.1	O K
1440 min Winter	12.400	0.425	0.7	4.8	O K
2160 min Winter	12.301	0.326	0.5	3.7	O K
2880 min Winter	12.242	0.267	0.4	3.0	O K
4320 min Winter	12.184	0.209	0.3	2.4	O K
5760 min Winter	12.150	0.175	0.3	2.0	O K
7200 min Winter	12.127	0.152	0.2	1.7	O K
8640 min Winter	12.110	0.135	0.2	1.5	O K
10080 min Winter	12.097	0.122	0.2	1.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	47.153	0.0	31		
60 min Winter	29.977	0.0	58		
120 min Winter	19.057	0.0	90		
180 min Winter	14.621	0.0	128		
240 min Winter	12.115	0.0	164		
360 min Winter	9.295	0.0	234		
480 min Winter	7.702	0.0	302		
600 min Winter	6.657	0.0	368		
720 min Winter	5.909	0.0	434		
960 min Winter	4.700	0.0	560		
1440 min Winter	3.405	0.0	808		
2160 min Winter	2.466	0.0	1172		
2880 min Winter	1.961	0.0	1532		
4320 min Winter	1.499	0.0	2252		
5760 min Winter	1.238	0.0	2992		
7200 min Winter	1.068	0.0	3680		
8640 min Winter	0.946	0.0	4416		
10080 min Winter	0.854	0.0	5144		
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Micro Drainage Source Control 2016.1		

Rainfall Details

Rainfall Model	FEH
Return Period (years)	10
Site Location	497914 105490 SU 979 054
C (1km)	-0.026
D1 (1km)	0.405
D2 (1km)	0.263
D3 (1km)	0.395
E (1km)	0.311
F (1km)	2.329
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	1.000
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+45

Time Area Diagram

Total Area (ha) 0.033

Time (mins)	Area
From:	To: (ha)
0	4 0.033

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Micro Drainage																						
<u>Model Details</u> Storage is Online Cover Level (m) 13.600 <u>Lined Soakaway Structure</u> <table> <tr> <td>Infiltration Coefficient Base (m/hr)</td> <td>0.00000</td> <td>Ring Diameter (m)</td> <td>1.80</td> </tr> <tr> <td>Infiltration Coefficient Side (m/hr)</td> <td>0.30262</td> <td>Pit Multiplier</td> <td>2.0</td> </tr> <tr> <td>Safety Factor</td> <td>1.5</td> <td>Number Required</td> <td>2</td> </tr> <tr> <td>Porosity</td> <td>0.30</td> <td>Cap Volume Depth (m)</td> <td>0.000</td> </tr> <tr> <td>Invert Level (m)</td> <td>11.975</td> <td>Cap Infiltration Depth (m)</td> <td>0.000</td> </tr> </table>			Infiltration Coefficient Base (m/hr)	0.00000	Ring Diameter (m)	1.80	Infiltration Coefficient Side (m/hr)	0.30262	Pit Multiplier	2.0	Safety Factor	1.5	Number Required	2	Porosity	0.30	Cap Volume Depth (m)	0.000	Invert Level (m)	11.975	Cap Infiltration Depth (m)	0.000
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