

Robert Clark Associates				Page 1	
Willow Cottage Herne Lane Rustington BN16 3EE			2 Downview Road Yapton		
Date 28 May 2026 File Small parking area 100yr.SRCX			Designed by RTFC Checked by		
Micro Drainage			Source Control 2016.1		
Summary of Results for 100 year Return Period (+45%)					
Half Drain Time : 34 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	6.314	0.094	0.5	1.5	Flood Risk
30 min Summer	6.327	0.107	0.5	1.7	Flood Risk
60 min Summer	6.335	0.115	0.5	1.8	Flood Risk
120 min Summer	6.334	0.114	0.5	1.8	Flood Risk
180 min Summer	6.327	0.107	0.5	1.7	Flood Risk
240 min Summer	6.317	0.097	0.5	1.6	Flood Risk
360 min Summer	6.299	0.079	0.5	1.3	Flood Risk
480 min Summer	6.284	0.064	0.5	1.0	Flood Risk
600 min Summer	6.274	0.054	0.5	0.9	Flood Risk
720 min Summer	6.268	0.048	0.5	0.8	Flood Risk
960 min Summer	6.259	0.039	0.4	0.6	Flood Risk
1440 min Summer	6.249	0.029	0.3	0.5	Flood Risk
2160 min Summer	6.241	0.021	0.2	0.3	Flood Risk
2880 min Summer	6.236	0.016	0.2	0.3	Flood Risk
4320 min Summer	6.232	0.012	0.1	0.2	Flood Risk
5760 min Summer	6.230	0.010	0.1	0.2	Flood Risk
7200 min Summer	6.229	0.009	0.1	0.1	Flood Risk
8640 min Summer	6.228	0.008	0.1	0.1	Flood Risk
10080 min Summer	6.227	0.007	0.1	0.1	Flood Risk
15 min Winter	6.314	0.094	0.5	1.5	Flood Risk
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	164.378	0.0	17		
30 min Summer	100.725	0.0	29		
60 min Summer	61.720	0.0	46		
120 min Summer	37.820	0.0	80		
180 min Summer	28.398	0.0	114		
240 min Summer	23.174	0.0	146		
360 min Summer	17.401	0.0	208		
480 min Summer	14.200	0.0	266		
600 min Summer	12.129	0.0	320		
720 min Summer	10.663	0.0	378		
960 min Summer	8.286	0.0	500		
1440 min Summer	5.807	0.0	736		
2160 min Summer	4.070	0.0	1100		
2880 min Summer	3.163	0.0	1468		
4320 min Summer	2.365	0.0	2200		
5760 min Summer	1.923	0.0	2936		
7200 min Summer	1.639	0.0	3656		
8640 min Summer	1.438	0.0	4368		
10080 min Summer	1.287	0.0	5080		
15 min Winter	164.378	0.0	16		
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Summary of Results for 100 year Return Period (+45%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	6.326	0.106	0.5	1.7	Flood Risk
60 min Winter	6.332	0.112	0.5	1.8	Flood Risk
120 min Winter	6.325	0.105	0.5	1.7	Flood Risk
180 min Winter	6.311	0.091	0.5	1.4	Flood Risk
240 min Winter	6.296	0.076	0.5	1.2	Flood Risk
360 min Winter	6.273	0.053	0.5	0.8	Flood Risk
480 min Winter	6.264	0.044	0.5	0.7	Flood Risk
600 min Winter	6.259	0.039	0.4	0.6	Flood Risk
720 min Winter	6.255	0.035	0.4	0.5	Flood Risk
960 min Winter	6.247	0.027	0.3	0.4	Flood Risk
1440 min Winter	6.239	0.019	0.2	0.3	Flood Risk
2160 min Winter	6.234	0.014	0.1	0.2	Flood Risk
2880 min Winter	6.231	0.011	0.1	0.2	Flood Risk
4320 min Winter	6.228	0.008	0.1	0.1	Flood Risk
5760 min Winter	6.227	0.007	0.1	0.1	Flood Risk
7200 min Winter	6.226	0.006	0.1	0.1	Flood Risk
8640 min Winter	6.225	0.005	0.0	0.1	Flood Risk
10080 min Winter	6.224	0.004	0.0	0.1	Flood Risk
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	100.725	0.0	30		
60 min Winter	61.720	0.0	48		
120 min Winter	37.820	0.0	84		
180 min Winter	28.398	0.0	120		
240 min Winter	23.174	0.0	152		
360 min Winter	17.401	0.0	206		
480 min Winter	14.200	0.0	264		
600 min Winter	12.129	0.0	322		
720 min Winter	10.663	0.0	384		
960 min Winter	8.286	0.0	502		
1440 min Winter	5.807	0.0	748		
2160 min Winter	4.070	0.0	1092		
2880 min Winter	3.163	0.0	1444		
4320 min Winter	2.365	0.0	2208		
5760 min Winter	1.923	0.0	2920		
7200 min Winter	1.639	0.0	3736		
8640 min Winter	1.438	0.0	4280		
10080 min Winter	1.287	0.0	4984		
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Micro Drainage Source Control 2016.1		

Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
Site Location	493650 105600 SU 93650 05600
C (1km)	-0.026
D1 (1km)	0.413
D2 (1km)	0.243
D3 (1km)	0.402
E (1km)	0.310
F (1km)	2.325
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) 0.005

Time (mins)		Area
From:	To:	(ha)
0	4	0.005

Time Area Diagram

Total Area (ha) 0.000

Time (mins)		Area
From:	To:	(ha)
0	4	0.000

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Model Details

Storage is Online Cover Level (m) 6.500

Porous Car Park Structure

Infiltration Coefficient Base (m/hr)	0.05256	Width (m)	9.0
Membrane Percolation (mm/hr)	1000	Length (m)	5.9
Max Percolation (l/s)	14.8	Slope (1:X)	0.0
Safety Factor	1.5	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.220	Membrane Depth (m)	0

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