

Robert Clark Associates			Page 1		
Willow Cottage Herne Lane Rustington BN16 3EE		2 Downview Road Yapton			
Date 28 May 2026 File Main pp 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 : 80 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	6.294	0.216	1.7	11.5	O K
30 min Summer	6.332	0.254	1.7	13.5	O K
60 min Summer	6.360	0.282	1.7	14.9	O K
120 min Summer	6.370	0.292	1.7	15.5	O K
180 min Summer	6.368	0.290	1.7	15.3	O K
240 min Summer	6.360	0.282	1.7	14.9	O K
360 min Summer	6.339	0.261	1.7	13.8	O K
480 min Summer	6.316	0.238	1.7	12.6	O K
600 min Summer	6.292	0.214	1.7	11.4	O K
720 min Summer	6.270	0.192	1.7	10.2	O K
960 min Summer	6.212	0.134	1.7	7.1	O K
1440 min Summer	6.143	0.065	1.7	3.4	O K
2160 min Summer	6.119	0.041	1.4	2.2	O K
2880 min Summer	6.110	0.032	1.1	1.7	O K
4320 min Summer	6.102	0.024	0.8	1.3	O K
5760 min Summer	6.098	0.020	0.7	1.1	O K
7200 min Summer	6.095	0.017	0.6	0.9	O K
8640 min Summer	6.093	0.015	0.5	0.8	O K
10080 min Summer	6.091	0.013	0.5	0.7	O K
15 min Winter	6.294	0.216	1.7	11.5	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	164.378	0.0	18		
30 min Summer	100.725	0.0	32		
60 min Summer	61.720	0.0	60		
120 min Summer	37.820	0.0	94		
180 min Summer	28.398	0.0	128		
240 min Summer	23.174	0.0	162		
360 min Summer	17.401	0.0	232		
480 min Summer	14.200	0.0	298		
600 min Summer	12.129	0.0	364		
720 min Summer	10.663	0.0	428		
960 min Summer	8.286	0.0	546		
1440 min Summer	5.807	0.0	764		
2160 min Summer	4.070	0.0	1104		
2880 min Summer	3.163	0.0	1468		
4320 min Summer	2.365	0.0	2204		
5760 min Summer	1.923	0.0	2928		
7200 min Summer	1.639	0.0	3648		
8640 min Summer	1.438	0.0	4384		
10080 min Summer	1.287	0.0	5136		
15 min Winter	164.378	0.0	17		
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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) 0.033

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

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) 6.750

Porous Car Park Structure

Infiltration Coefficient Base (m/hr)	0.05256	Width (m)	9.1
Membrane Percolation (mm/hr)	1000	Length (m)	19.4
Max Percolation (l/s)	49.0	Slope (1:X)	0.0
Safety Factor	1.5	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	6.078	Membrane Depth (m)	0

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