

Robert Clark Associates				Page 1																																																																																																																																																																																																																			
Willow Cottage Herne Lane Rustington BN16 3EE		2 Downview Road Yapton																																																																																																																																																																																																																					
Date 28 May 2026 File Main pp area 30yr.SRCX		Designed by RTFC Checked by																																																																																																																																																																																																																					
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<u>Summary of Results for 30 year Return Period (+45%)</u> Half Drain Time : 47 minutes. <table><thead><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Summer</td><td>6.209</td><td>0.131</td><td>1.7</td><td>6.9</td><td>O K</td></tr><tr><td>30 min Summer</td><td>6.234</td><td>0.156</td><td>1.7</td><td>8.2</td><td>O K</td></tr><tr><td>60 min Summer</td><td>6.251</td><td>0.173</td><td>1.7</td><td>9.1</td><td>O K</td></tr><tr><td>120 min Summer</td><td>6.259</td><td>0.181</td><td>1.7</td><td>9.6</td><td>O K</td></tr><tr><td>180 min Summer</td><td>6.256</td><td>0.178</td><td>1.7</td><td>9.4</td><td>O K</td></tr><tr><td>240 min Summer</td><td>6.249</td><td>0.171</td><td>1.7</td><td>9.1</td><td>O K</td></tr><tr><td>360 min Summer</td><td>6.230</td><td>0.152</td><td>1.7</td><td>8.1</td><td>O K</td></tr><tr><td>480 min 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Date 28 May 2026 File Main pp area 30yr.SRCX		Designed by RTFC Checked by			
Micro Drainage		Source Control 2016.1			
Summary of Results for 30 year Return Period (+45%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	6.233	0.155	1.7	8.2	O K
60 min Winter	6.249	0.171	1.7	9.0	O K
120 min Winter	6.252	0.174	1.7	9.2	O K
180 min Winter	6.242	0.164	1.7	8.7	O K
240 min Winter	6.228	0.150	1.7	7.9	O K
360 min Winter	6.196	0.118	1.7	6.2	O K
480 min Winter	6.167	0.089	1.7	4.7	O K
600 min Winter	6.144	0.066	1.7	3.5	O K
720 min Winter	6.129	0.051	1.7	2.7	O K
960 min Winter	6.119	0.041	1.4	2.1	O K
1440 min Winter	6.107	0.029	1.0	1.5	O K
2160 min Winter	6.099	0.021	0.7	1.1	O K
2880 min Winter	6.094	0.016	0.6	0.9	O K
4320 min Winter	6.090	0.012	0.4	0.7	O K
5760 min Winter	6.088	0.010	0.4	0.5	O K
7200 min Winter	6.087	0.009	0.3	0.5	O K
8640 min Winter	6.086	0.008	0.3	0.4	O K
10080 min Winter	6.085	0.007	0.2	0.4	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	67.597	0.0	31		
60 min Winter	42.338	0.0	54		
120 min Winter	26.518	0.0	90		
180 min Winter	20.169	0.0	128		
240 min Winter	16.609	0.0	164		
360 min Winter	12.632	0.0	230		
480 min Winter	10.403	0.0	290		
600 min Winter	8.948	0.0	344		
720 min Winter	7.912	0.0	390		
960 min Winter	6.205	0.0	502		
1440 min Winter	4.405	0.0	738		
2160 min Winter	3.127	0.0	1104		
2880 min Winter	2.452	0.0	1472		
4320 min Winter	1.857	0.0	2204		
5760 min Winter	1.524	0.0	2864		
7200 min Winter	1.308	0.0	3640		
8640 min Winter	1.154	0.0	4352		
10080 min Winter	1.038	0.0	5088		
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Micro Drainage Source Control 2016.1		

Rainfall Details

Rainfall Model	FEH
Return Period (years)	30
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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