

Rogers Cory Ptn Ltd			Page 0		
The Old School Old School Road Hook RG27 9NJ		Fontwell Eastergate Arundel			
Date 24/08/2020 22:19 File BASIN PLUS AREAS 9 & 11&24 & 17&30&30A.SRCX		Designed by Leon Darrell Checked by			
Micro Drainage		Source Control 2017.1.2			
Summary of Results for 10 year Return Period (+50%)					
Half Drain Time : 196 minutes.					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	21.097	0.197	13.4	161.8	0 K
30 min Summer	21.147	0.247	14.0	207.4	0 K
60 min Summer	21.191	0.291	14.5	248.5	0 K
120 min Summer	21.219	0.319	14.8	276.1	Flood Risk
180 min Summer	21.225	0.325	14.9	281.7	Flood Risk
240 min Summer	21.225	0.325	14.9	282.2	Flood Risk
360 min Summer	21.221	0.321	14.9	277.7	Flood Risk
480 min Summer	21.212	0.312	14.8	269.7	Flood Risk
600 min Summer	21.203	0.303	14.7	260.4	Flood Risk
720 min Summer	21.193	0.293	14.5	250.5	0 K
960 min Summer	21.172	0.272	14.3	230.4	0 K
1440 min Summer	21.130	0.230	13.8	192.0	0 K
2160 min Summer	21.076	0.176	13.2	142.8	0 K
2880 min Summer	21.031	0.131	12.7	104.3	0 K
4320 min Summer	20.971	0.071	12.0	54.8	0 K
5760 min Summer	20.948	0.048	11.3	37.0	0 K
7200 min Summer	20.941	0.041	9.6	31.8	0 K
8640 min Summer	20.937	0.037	8.5	27.9	0 K
10080 min Summer	20.933	0.033	7.6	24.9	0 K
15 min Winter	21.120	0.220	13.7	182.2	0 K
30 min Winter	21.176	0.276	14.3	234.3	0 K
60 min Winter	21.225	0.325	14.9	282.3	Flood Risk
120 min Winter	21.261	0.361	15.3	317.9	Flood Risk
180 min Winter	21.269	0.369	15.4	326.6	Flood Risk
240 min Winter	21.268	0.368	15.4	325.2	Flood Risk
360 min Winter	21.261	0.361	15.3	318.6	Flood Risk
480 min Winter	21.249	0.349	15.2	306.0	Flood Risk
600 min Winter	21.234	0.334	15.0	290.9	Flood Risk
720 min Winter	21.218	0.318	14.8	275.0	Flood Risk
960 min Winter	21.185	0.285	14.5	243.0	0 K
1440 min Winter	21.122	0.222	13.7	184.1	0 K
2160 min Winter	21.041	0.141	12.8	113.0	0 K
2880 min Winter	20.981	0.081	12.1	63.0	0 K
4320 min Winter	20.944	0.044	10.2	33.4	0 K
5760 min Winter	20.936	0.036	8.3	27.2	0 K
7200 min Winter	20.931	0.031	7.1	23.3	0 K
8640 min Winter	20.927	0.027	6.1	20.2	0 K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
15 min Summer	82.824	0.0	18		
30 min Summer	54.698	0.0	33		
60 min Summer	34.733	0.0	62		
120 min Summer	21.518	0.0	120		
180 min Summer	16.130	0.0	156		
240 min Summer	13.106	0.0	188		
360 min Summer	9.767	0.0	254		
480 min Summer	7.922	0.0	324		
600 min Summer	6.730	0.0	392		
720 min Summer	5.890	0.0	462		
960 min Summer	4.770	0.0	598		
1440 min Summer	3.540	0.0	864		
2160 min Summer	2.625	0.0	1232		
2880 min Summer	2.123	0.0	1588		
4320 min Summer	1.572	0.0	2252		
5760 min Summer	1.270	0.0	2936		
7200 min Summer	1.076	0.0	3672		
8640 min Summer	0.940	0.0	4400		
10080 min Summer	0.839	0.0	5136		
15 min Winter	82.824	0.0	18		
30 min Winter	54.698	0.0	32		
60 min Winter	34.733	0.0	60		
120 min Winter	21.518	0.0	118		
180 min Winter	16.130	0.0	172		
240 min Winter	13.106	0.0	200		
360 min Winter	9.767	0.0	274		
480 min Winter	7.922	0.0	350		
600 min Winter	6.730	0.0	428		
720 min Winter	5.890	0.0	500		
960 min Winter	4.770	0.0	644		
1440 min Winter	3.540	0.0	910		
2160 min Winter	2.625	0.0	1280		
2880 min Winter	2.123	0.0	1616		
4320 min Winter	1.572	0.0	2204		
5760 min Winter	1.270	0.0	2936		
7200 min Winter	1.076	0.0	3672		
8640 min Winter	0.940	0.0	4400		
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Summary of Results for 10 year Return Period (+50%) <table><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><tr><td>10080 min Winter</td><td>20.924</td><td>0.024</td><td>5.6</td><td>18.2</td><td>0 K</td></tr></table> <table><tr><th>Storm Event</th><th>Rain (mm/hr)</th><th>Flooded Volume (m³)</th><th>Time-Peak (mins)</th></tr><tr><td>10080 min Winter</td><td>0.839</td><td>0.0</td><td>5128</td></tr></table>			Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status	10080 min Winter	20.924	0.024	5.6	18.2	0 K	Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)	10080 min Winter	0.839	0.0	5128
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Micro Drainage Source Control 2017.1.2		
Rainfall Details Rainfall Model Return Period (years) Region M5-60 (mm) FSR 10 Summer Storms England and Wales 19.300 Ratio R 0.348 Yes Winter Storms Cv (Summer) 0.750 Cv (Winter) 0.840 Yes Shortest Storm (mins) 15 Longest Storm (mins) 10080 Climate Change % +50 Time Area Diagram Total Area (ha) 1.107 Time (mins) From: 0 Area To: 4 (ha) 1.107		
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Micro Drainage	Source Control 2017.1.2									
Model Details Storage is Online Cover Level (m) 21.500 Infiltration Basin Structure Invert Level (m) 20.900 Infiltration Coefficient Side (m/hr) 0.00000 Porosity 1.00 Infiltration Coefficient Base (m/hr) 0.10700 Safety Factor 2.0 <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th></tr><tr><td>0.000</td><td>751.5</td><td>0.600</td><td>1217.0</td></tr></table>			Depth (m)	Area (m²)	Depth (m)	Area (m²)	0.000	751.5	0.600	1217.0
Depth (m)	Area (m²)	Depth (m)	Area (m²)							
0.000	751.5	0.600	1217.0							
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