

Paul Basham Associates		Page 1
Lancaster Court Fareham Hampshire, PO15 5TU	1:100+40%CC PLOT 16-17 SIDE INFILTRATION ONLY INFILTRATION CRATES	
Date 28/10/2021 09:31 File 108.5009 - PLOT 16&17.SRCX	Designed by RD Checked by RW	
Innovyze	Source Control 2020.1.3	

Summary of Results for 100 year Return Period (+40%)

Half Drain Time : 580 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	15.083	0.233	0.1	4.9	O K
30 min Summer	15.165	0.315	0.1	6.6	O K
60 min Summer	15.253	0.403	0.2	8.4	O K
120 min Summer	15.338	0.488	0.2	10.2	O K
180 min Summer	15.380	0.530	0.2	11.1	O K
240 min Summer	15.402	0.552	0.2	11.5	O K
360 min Summer	15.425	0.575	0.2	12.0	O K
480 min Summer	15.437	0.587	0.2	12.3	O K
600 min Summer	15.445	0.595	0.2	12.4	O K
720 min Summer	15.450	0.600	0.2	12.5	O K
960 min Summer	15.454	0.604	0.2	12.6	O K
1440 min Summer	15.448	0.598	0.2	12.5	O K
2160 min Summer	15.425	0.575	0.2	12.0	O K
2880 min Summer	15.397	0.547	0.2	11.4	O K
4320 min Summer	15.344	0.494	0.2	10.3	O K
5760 min Summer	15.301	0.451	0.2	9.4	O K
7200 min Summer	15.265	0.415	0.2	8.7	O K
8640 min Summer	15.235	0.385	0.2	8.1	O K
10080 min Summer	15.210	0.360	0.1	7.5	O K
15 min Winter	15.111	0.261	0.1	5.5	O K
30 min Winter	15.203	0.353	0.1	7.4	O K
60 min Winter	15.302	0.452	0.2	9.4	O K
120 min Winter	15.398	0.548	0.2	11.5	O K
180 min Winter	15.446	0.596	0.2	12.5	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	125.250	0.0	23
30 min Summer	85.368	0.0	37
60 min Summer	55.544	0.0	66
120 min Summer	34.816	0.0	124
180 min Summer	26.038	0.0	184
240 min Summer	21.042	0.0	242
360 min Summer	15.601	0.0	350
480 min Summer	12.593	0.0	402
600 min Summer	10.656	0.0	462
720 min Summer	9.290	0.0	524
960 min Summer	7.475	0.0	658
1440 min Summer	5.489	0.0	930
2160 min Summer	4.021	0.0	1344
2880 min Summer	3.220	0.0	1736
4320 min Summer	2.348	0.0	2512
5760 min Summer	1.878	0.0	3288
7200 min Summer	1.581	0.0	4032
8640 min Summer	1.373	0.0	4760
10080 min Summer	1.219	0.0	5544
15 min Winter	125.250	0.0	22
30 min Winter	85.368	0.0	37
60 min Winter	55.544	0.0	66
120 min Winter	34.816	0.0	122
180 min Winter	26.038	0.0	180

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Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
240 min Winter	15.472	0.622	0.2	13.0	O K
360 min Winter	15.500	0.650	0.3	13.6	O K
480 min Winter	15.509	0.659	0.3	13.8	O K
600 min Winter	15.516	0.666	0.3	13.9	O K
720 min Winter	15.520	0.670	0.3	14.0	O K
960 min Winter	15.518	0.668	0.3	14.0	O K
1440 min Winter	15.499	0.649	0.3	13.6	O K
2160 min Winter	15.457	0.607	0.2	12.7	O K
2880 min Winter	15.414	0.564	0.2	11.8	O K
4320 min Winter	15.340	0.490	0.2	10.3	O K
5760 min Winter	15.283	0.433	0.2	9.1	O K
7200 min Winter	15.238	0.388	0.2	8.1	O K
8640 min Winter	15.203	0.353	0.1	7.4	O K
10080 min Winter	15.173	0.323	0.1	6.8	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
240 min Winter	21.042	0.0	236
360 min Winter	15.601	0.0	346
480 min Winter	12.593	0.0	442
600 min Winter	10.656	0.0	474
720 min Winter	9.290	0.0	550
960 min Winter	7.475	0.0	704
1440 min Winter	5.489	0.0	1000
2160 min Winter	4.021	0.0	1432
2880 min Winter	3.220	0.0	1848
4320 min Winter	2.348	0.0	2640
5760 min Winter	1.878	0.0	3408
7200 min Winter	1.581	0.0	4184
8640 min Winter	1.373	0.0	4928
10080 min Winter	1.219	0.0	5656

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.600	Shortest Storm (mins)	15
Ratio R	0.322	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.021

Time (mins)	Area	Time (mins)	Area
From:	To: (ha)	From:	To: (ha)
0	4 0.010	4	8 0.011

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Model Details

Storage is Online Cover Level (m) 16.700

Cellular Storage Structure

Invert Level (m) 14.850 Safety Factor 4.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.30852

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	22.0	22.0	0.800	22.0	37.0	0.801	0.0	37.0