

Paul Basham Associates		Page 1
Lancaster Court Fareham Hampshire, PO15 5TU	1:10+40%CC PLOT 4 SIDE INFILTRATION ONLY INFILTRATION CRATES	
Date 18/08/2021 09:43 File 108.5009 - Plot 4.SRCX	Designed by CLP Checked by RW	
Innovyze	Source Control 2020.1.3	

Summary of Results for 10 year Return Period (+40%)

Half Drain Time : 933 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	16.155	0.165	0.0	1.3	O K
30 min Summer	16.209	0.219	0.0	1.7	O K
60 min Summer	16.269	0.279	0.0	2.2	O K
120 min Summer	16.333	0.343	0.0	2.7	O K
180 min Summer	16.370	0.380	0.0	3.0	O K
240 min Summer	16.395	0.405	0.0	3.2	O K
360 min Summer	16.427	0.437	0.0	3.4	O K
480 min Summer	16.446	0.456	0.0	3.6	O K
600 min Summer	16.457	0.467	0.0	3.6	O K
720 min Summer	16.466	0.476	0.0	3.7	O K
960 min Summer	16.479	0.489	0.0	3.8	O K
1440 min Summer	16.494	0.504	0.0	3.9	O K
2160 min Summer	16.499	0.509	0.0	4.0	O K
2880 min Summer	16.495	0.505	0.0	3.9	O K
4320 min Summer	16.476	0.486	0.0	3.8	O K
5760 min Summer	16.453	0.463	0.0	3.6	O K
7200 min Summer	16.431	0.441	0.0	3.4	O K
8640 min Summer	16.410	0.420	0.0	3.3	O K
10080 min Summer	16.391	0.401	0.0	3.1	O K
15 min Winter	16.174	0.184	0.0	1.4	O K
30 min Winter	16.235	0.245	0.0	1.9	O K
60 min Winter	16.302	0.312	0.0	2.4	O K
120 min Winter	16.374	0.384	0.0	3.0	O K
180 min Winter	16.416	0.426	0.0	3.3	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	76.566	0.0	19
30 min Summer	51.183	0.0	34
60 min Summer	32.926	0.0	64
120 min Summer	20.664	0.0	122
180 min Summer	15.602	0.0	182
240 min Summer	12.744	0.0	242
360 min Summer	9.573	0.0	362
480 min Summer	7.806	0.0	480
600 min Summer	6.660	0.0	562
720 min Summer	5.849	0.0	614
960 min Summer	4.762	0.0	732
1440 min Summer	3.561	0.0	996
2160 min Summer	2.660	0.0	1404
2880 min Summer	2.162	0.0	1816
4320 min Summer	1.613	0.0	2636
5760 min Summer	1.311	0.0	3408
7200 min Summer	1.116	0.0	4184
8640 min Summer	0.978	0.0	4928
10080 min Summer	0.875	0.0	5656
15 min Winter	76.566	0.0	19
30 min Winter	51.183	0.0	33
60 min Winter	32.926	0.0	62
120 min Winter	20.664	0.0	122
180 min Winter	15.602	0.0	180

Paul Basham Associates		Page 2
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Summary of Results for 10 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
240 min Winter	16.445	0.455	0.0	3.5	O K
360 min Winter	16.482	0.492	0.0	3.8	O K
480 min Winter	16.504	0.514	0.0	4.0	O K
600 min Winter	16.518	0.528	0.0	4.1	O K
720 min Winter	16.526	0.536	0.1	4.2	O K
960 min Winter	16.538	0.548	0.1	4.3	O K
1440 min Winter	16.549	0.559	0.1	4.4	O K
2160 min Winter	16.545	0.555	0.1	4.3	O K
2880 min Winter	16.530	0.540	0.1	4.2	O K
4320 min Winter	16.494	0.504	0.0	3.9	O K
5760 min Winter	16.458	0.468	0.0	3.6	O K
7200 min Winter	16.425	0.435	0.0	3.4	O K
8640 min Winter	16.397	0.407	0.0	3.2	O K
10080 min Winter	16.372	0.382	0.0	3.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
240 min Winter	12.744	0.0	238
360 min Winter	9.573	0.0	352
480 min Winter	7.806	0.0	464
600 min Winter	6.660	0.0	570
720 min Winter	5.849	0.0	670
960 min Winter	4.762	0.0	752
1440 min Winter	3.561	0.0	1056
2160 min Winter	2.660	0.0	1512
2880 min Winter	2.162	0.0	1956
4320 min Winter	1.613	0.0	2772
5760 min Winter	1.311	0.0	3584
7200 min Winter	1.116	0.0	4392
8640 min Winter	0.978	0.0	5184
10080 min Winter	0.875	0.0	5952

Paul Basham Associates		Page 3
Lancaster Court Fareham Hampshire, PO15 5TU	1:10+40%CC PLOT 4 SIDE INFILTRATION ONLY INFILTRATION CRATES	
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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	10	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) 0.009

Time (mins) Area
From: To: (ha)

0 4 0.009

Paul Basham Associates		Page 4
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Model Details

Storage is Online Cover Level (m) 17.600

Cellular Storage Structure

Invert Level (m) 15.990 Safety Factor 4.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.11800

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	8.2	8.2	1.200	8.2	21.9	1.201	0.0	22.0