

Paul Basham Associates		Page 1
Lancaster Court Fareham Hampshire, PO15 5TU	1:10+40%CC PLOTS 30-34 SIDE INFILTRATION ONLY INFILTRATION CRATES	
Date 28/10/2021 09:43 File 108.5009 - PLOT	Designed by CLP Checked by RW	
Innovyze	Source Control 2020.1.3	

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

Half Drain Time : 836 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	16.851	0.101	0.1	4.4	O K
30 min Summer	16.884	0.134	0.1	5.9	O K
60 min Summer	16.921	0.171	0.1	7.5	O K
120 min Summer	16.959	0.209	0.1	9.1	O K
180 min Summer	16.981	0.231	0.1	10.1	O K
240 min Summer	16.996	0.246	0.1	10.8	O K
360 min Summer	17.015	0.265	0.2	11.6	O K
480 min Summer	17.025	0.275	0.2	12.0	O K
600 min Summer	17.031	0.281	0.2	12.3	O K
720 min Summer	17.037	0.287	0.2	12.5	O K
960 min Summer	17.044	0.294	0.2	12.9	O K
1440 min Summer	17.052	0.302	0.2	13.2	O K
2160 min Summer	17.053	0.303	0.2	13.3	O K
2880 min Summer	17.049	0.299	0.2	13.1	O K
4320 min Summer	17.036	0.286	0.2	12.5	O K
5760 min Summer	17.020	0.270	0.2	11.8	O K
7200 min Summer	17.006	0.256	0.1	11.2	O K
8640 min Summer	16.993	0.243	0.1	10.6	O K
10080 min Summer	16.982	0.232	0.1	10.1	O K
15 min Winter	16.863	0.113	0.1	4.9	O K
30 min Winter	16.900	0.150	0.1	6.6	O K
60 min Winter	16.941	0.191	0.1	8.4	O K
120 min Winter	16.985	0.235	0.1	10.3	O K
180 min Winter	17.010	0.260	0.2	11.4	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	76.566	0.0	23
30 min Summer	51.183	0.0	37
60 min Summer	32.926	0.0	66
120 min Summer	20.664	0.0	126
180 min Summer	15.602	0.0	184
240 min Summer	12.744	0.0	244
360 min Summer	9.573	0.0	362
480 min Summer	7.806	0.0	480
600 min Summer	6.660	0.0	534
720 min Summer	5.849	0.0	590
960 min Summer	4.762	0.0	712
1440 min Summer	3.561	0.0	982
2160 min Summer	2.660	0.0	1388
2880 min Summer	2.162	0.0	1792
4320 min Summer	1.613	0.0	2596
5760 min Summer	1.311	0.0	3400
7200 min Summer	1.116	0.0	4176
8640 min Summer	0.978	0.0	4928
10080 min Summer	0.875	0.0	5648
15 min Winter	76.566	0.0	23
30 min Winter	51.183	0.0	37
60 min Winter	32.926	0.0	66
120 min Winter	20.664	0.0	124
180 min Winter	15.602	0.0	182

Paul Basham Associates		Page 2
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Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
240 min Winter	17.027	0.277	0.2	12.1	O K
360 min Winter	17.048	0.298	0.2	13.0	O K
480 min Winter	17.060	0.310	0.2	13.6	O K
600 min Winter	17.068	0.318	0.2	13.9	O K
720 min Winter	17.072	0.322	0.2	14.1	O K
960 min Winter	17.079	0.329	0.2	14.4	O K
1440 min Winter	17.084	0.334	0.2	14.6	O K
2160 min Winter	17.079	0.329	0.2	14.4	O K
2880 min Winter	17.068	0.318	0.2	13.9	O K
4320 min Winter	17.044	0.294	0.2	12.8	O K
5760 min Winter	17.021	0.271	0.2	11.8	O K
7200 min Winter	17.000	0.250	0.1	10.9	O K
8640 min Winter	16.983	0.233	0.1	10.2	O K
10080 min Winter	16.968	0.218	0.1	9.5	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	462
600 min Winter	6.660	0.0	566
720 min Winter	5.849	0.0	650
960 min Winter	4.762	0.0	742
1440 min Winter	3.561	0.0	1050
2160 min Winter	2.660	0.0	1496
2880 min Winter	2.162	0.0	1932
4320 min Winter	1.613	0.0	2768
5760 min Winter	1.311	0.0	3568
7200 min Winter	1.116	0.0	4328
8640 min Winter	0.978	0.0	5104
10080 min Winter	0.875	0.0	5856

Paul Basham Associates		Page 3
Lancaster Court Fareham Hampshire, PO15 5TU	1:10+40%CC PLOTS 30-34 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) 0.031

Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)
0 4	0.015	4 8	0.016

Paul Basham Associates		Page 4
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Model Details

Storage is Online Cover Level (m) 18.300

Cellular Storage Structure

Invert Level (m) 16.750 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	46.0	46.0	0.800	46.0	67.7	0.801	0.0	67.7