

Paul Basham Associates		Page 1
Lancaster Court Fareham Hampshire, PO15 5TU	1:10+40%CC PLOTS 40-42 SIDE INFILTRATION ONLY INFILTRATION CRATES	
Date 18/08/2021 10:29 File 108.5009 - Plot 40-42.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 : 557 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	15.549	0.149	0.1	2.8	O K
30 min Summer	15.598	0.198	0.1	3.8	O K
60 min Summer	15.650	0.250	0.1	4.7	O K
120 min Summer	15.703	0.303	0.1	5.8	O K
180 min Summer	15.731	0.331	0.1	6.3	O K
240 min Summer	15.748	0.348	0.1	6.6	O K
360 min Summer	15.766	0.366	0.1	7.0	O K
480 min Summer	15.778	0.378	0.1	7.2	O K
600 min Summer	15.786	0.386	0.1	7.3	O K
720 min Summer	15.792	0.392	0.2	7.4	O K
960 min Summer	15.798	0.398	0.2	7.6	O K
1440 min Summer	15.801	0.401	0.2	7.6	O K
2160 min Summer	15.791	0.391	0.1	7.4	O K
2880 min Summer	15.777	0.377	0.1	7.2	O K
4320 min Summer	15.747	0.347	0.1	6.6	O K
5760 min Summer	15.720	0.320	0.1	6.1	O K
7200 min Summer	15.698	0.298	0.1	5.7	O K
8640 min Summer	15.679	0.279	0.1	5.3	O K
10080 min Summer	15.662	0.262	0.1	5.0	O K
15 min Winter	15.567	0.167	0.1	3.2	O K
30 min Winter	15.621	0.221	0.1	4.2	O K
60 min Winter	15.680	0.280	0.1	5.3	O K
120 min Winter	15.740	0.340	0.1	6.5	O K
180 min Winter	15.772	0.372	0.1	7.1	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	124
180 min Summer	15.602	0.0	184
240 min Summer	12.744	0.0	242
360 min Summer	9.573	0.0	342
480 min Summer	7.806	0.0	392
600 min Summer	6.660	0.0	454
720 min Summer	5.849	0.0	518
960 min Summer	4.762	0.0	654
1440 min Summer	3.561	0.0	926
2160 min Summer	2.660	0.0	1340
2880 min Summer	2.162	0.0	1732
4320 min Summer	1.613	0.0	2508
5760 min Summer	1.311	0.0	3280
7200 min Summer	1.116	0.0	4032
8640 min Summer	0.978	0.0	4760
10080 min Summer	0.875	0.0	5456
15 min Winter	76.566	0.0	22
30 min Winter	51.183	0.0	37
60 min Winter	32.926	0.0	66
120 min Winter	20.664	0.0	122
180 min Winter	15.602	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	15.792	0.392	0.2	7.4	O K
360 min Winter	15.814	0.414	0.2	7.9	O K
480 min Winter	15.824	0.424	0.2	8.0	O K
600 min Winter	15.832	0.432	0.2	8.2	O K
720 min Winter	15.837	0.437	0.2	8.3	O K
960 min Winter	15.840	0.440	0.2	8.4	O K
1440 min Winter	15.833	0.433	0.2	8.2	O K
2160 min Winter	15.812	0.412	0.2	7.8	O K
2880 min Winter	15.787	0.387	0.1	7.4	O K
4320 min Winter	15.743	0.343	0.1	6.5	O K
5760 min Winter	15.706	0.306	0.1	5.8	O K
7200 min Winter	15.677	0.277	0.1	5.3	O K
8640 min Winter	15.654	0.254	0.1	4.8	O K
10080 min Winter	15.634	0.234	0.1	4.4	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
240 min Winter	12.744	0.0	236
360 min Winter	9.573	0.0	344
480 min Winter	7.806	0.0	408
600 min Winter	6.660	0.0	470
720 min Winter	5.849	0.0	546
960 min Winter	4.762	0.0	698
1440 min Winter	3.561	0.0	996
2160 min Winter	2.660	0.0	1428
2880 min Winter	2.162	0.0	1844
4320 min Winter	1.613	0.0	2640
5760 min Winter	1.311	0.0	3400
7200 min Winter	1.116	0.0	4176
8640 min Winter	0.978	0.0	4928
10080 min Winter	0.875	0.0	5648

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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) 0.020

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

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Model Details

Storage is Online Cover Level (m) 17.500

Cellular Storage Structure

Invert Level (m) 15.400 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	20.0	20.0	0.800	20.0	34.3	0.801	0.0	34.3