

Paul Basham Associates		Page 1
Lancaster Court Fareham Hampshire, PO15 5TU	1:10+40%CC PLOTS 35-39 SIDE INFILTRATION ONLY INFILTRATION CRATES	
Date 18/08/2021 10:28 File 108.5009 - Plot 35-39.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 : 1446 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	15.578	0.031	0.0	4.0	O K
30 min Summer	15.588	0.041	0.0	5.3	O K
60 min Summer	15.600	0.053	0.1	6.8	O K
120 min Summer	15.612	0.065	0.1	8.4	O K
180 min Summer	15.620	0.073	0.1	9.4	O K
240 min Summer	15.625	0.078	0.1	10.1	O K
360 min Summer	15.633	0.086	0.1	11.1	O K
480 min Summer	15.638	0.091	0.1	11.7	O K
600 min Summer	15.641	0.094	0.1	12.2	O K
720 min Summer	15.644	0.097	0.1	12.5	O K
960 min Summer	15.647	0.100	0.1	12.9	O K
1440 min Summer	15.651	0.104	0.1	13.4	O K
2160 min Summer	15.654	0.107	0.1	13.8	O K
2880 min Summer	15.655	0.108	0.1	13.9	O K
4320 min Summer	15.654	0.107	0.1	13.9	O K
5760 min Summer	15.652	0.105	0.1	13.5	O K
7200 min Summer	15.649	0.102	0.1	13.2	O K
8640 min Summer	15.646	0.099	0.1	12.8	O K
10080 min Summer	15.643	0.096	0.1	12.4	O K
15 min Winter	15.582	0.035	0.0	4.5	O K
30 min Winter	15.593	0.046	0.0	6.0	O K
60 min Winter	15.606	0.059	0.1	7.6	O K
120 min Winter	15.620	0.073	0.1	9.4	O K
180 min Winter	15.629	0.082	0.1	10.6	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	38
60 min Summer	32.926	0.0	68
120 min Summer	20.664	0.0	126
180 min Summer	15.602	0.0	186
240 min Summer	12.744	0.0	246
360 min Summer	9.573	0.0	364
480 min Summer	7.806	0.0	484
600 min Summer	6.660	0.0	602
720 min Summer	5.849	0.0	720
960 min Summer	4.762	0.0	894
1440 min Summer	3.561	0.0	1114
2160 min Summer	2.660	0.0	1496
2880 min Summer	2.162	0.0	1908
4320 min Summer	1.613	0.0	2728
5760 min Summer	1.311	0.0	3528
7200 min Summer	1.116	0.0	4328
8640 min Summer	0.978	0.0	5104
10080 min Summer	0.875	0.0	5944
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
Lancaster Court Fareham Hampshire, PO15 5TU	1:10+40%CC PLOTS 35-39 SIDE INFILTRATION ONLY INFILTRATION CRATES	
Date 18/08/2021 10:28 File 108.5009 - Plot 35-39.SRCX	Designed by CLP Checked by RW	
Innovyze	Source Control 2020.1.3	

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	15.635	0.088	0.1	11.3	O K
360 min Winter	15.643	0.096	0.1	12.5	O K
480 min Winter	15.649	0.102	0.1	13.2	O K
600 min Winter	15.653	0.106	0.1	13.7	O K
720 min Winter	15.656	0.109	0.1	14.1	O K
960 min Winter	15.660	0.113	0.1	14.5	O K
1440 min Winter	15.663	0.116	0.1	15.0	O K
2160 min Winter	15.666	0.119	0.1	15.3	O K
2880 min Winter	15.665	0.118	0.1	15.3	O K
4320 min Winter	15.662	0.115	0.1	14.9	O K
5760 min Winter	15.657	0.110	0.1	14.2	O K
7200 min Winter	15.652	0.105	0.1	13.6	O K
8640 min Winter	15.647	0.100	0.1	12.9	O K
10080 min Winter	15.643	0.096	0.1	12.3	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
240 min Winter	12.744	0.0	242
360 min Winter	9.573	0.0	358
480 min Winter	7.806	0.0	472
600 min Winter	6.660	0.0	586
720 min Winter	5.849	0.0	698
960 min Winter	4.762	0.0	912
1440 min Winter	3.561	0.0	1142
2160 min Winter	2.660	0.0	1600
2880 min Winter	2.162	0.0	2052
4320 min Winter	1.613	0.0	2940
5760 min Winter	1.311	0.0	3800
7200 min Winter	1.116	0.0	4608
8640 min Winter	0.978	0.0	5440
10080 min Winter	0.875	0.0	6248

Paul Basham Associates		Page 3
Lancaster Court Fareham Hampshire, PO15 5TU	1:10+40%CC PLOTS 35-39 SIDE INFILTRATION ONLY INFILTRATION CRATES	
Date 18/08/2021 10:28 File 108.5009 - Plot 35-39.SRCX	Designed by CLP Checked by RW	
Innovyze	Source Control 2020.1.3	

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) 0.028

Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)
0 4	0.014	4 8	0.014

Paul Basham Associates		Page 4
Lancaster Court Fareham Hampshire, PO15 5TU	1:10+40%CC PLOTS 35-39 SIDE INFILTRATION ONLY INFILTRATION CRATES	
Date 18/08/2021 10:28 File 108.5009 - Plot 35-39.SRCX	Designed by CLP Checked by RW	
Innovyze	Source Control 2020.1.3	

Model Details

Storage is Online Cover Level (m) 17.900

Cellular Storage Structure

Invert Level (m) 15.547 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	136.0	136.0	0.800	136.0	173.3	0.801	0.0	173.3