

Summary of Results for 10 year Return Period

Half Drain Time : 4793 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	0.064	0.064	0.0	6.0	O K
30 min Summer	0.082	0.082	0.0	7.8	O K
60 min Summer	0.100	0.100	0.0	9.5	O K
120 min Summer	0.120	0.120	0.0	11.4	O K
180 min Summer	0.131	0.131	0.0	12.5	O K
240 min Summer	0.140	0.140	0.0	13.3	O K
360 min Summer	0.152	0.152	0.0	14.4	O K
480 min Summer	0.160	0.160	0.0	15.2	O K
600 min Summer	0.167	0.167	0.0	15.9	O K
720 min Summer	0.172	0.172	0.0	16.4	O K
960 min Summer	0.180	0.180	0.0	17.1	O K
1440 min Summer	0.190	0.190	0.0	18.1	O K
2160 min Summer	0.197	0.197	0.0	18.7	O K
2880 min Summer	0.200	0.200	0.0	19.0	O K
4320 min Summer	0.198	0.198	0.0	18.8	O K
5760 min Summer	0.195	0.195	0.0	18.5	O K
7200 min Summer	0.191	0.191	0.0	18.1	O K
8640 min Summer	0.186	0.186	0.0	17.7	O K
10080 min Summer	0.182	0.182	0.0	17.3	O K
15 min Winter	0.071	0.071	0.0	6.8	O K
30 min Winter	0.091	0.091	0.0	8.7	O K
60 min Winter	0.112	0.112	0.0	10.7	O K
120 min Winter	0.134	0.134	0.0	12.7	O K
180 min Winter	0.147	0.147	0.0	14.0	O K
240 min Winter	0.157	0.157	0.0	14.9	O K
360 min Winter	0.171	0.171	0.0	16.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	60.041	0.0	27
30 min Summer	38.563	0.0	42
60 min Summer	23.761	0.0	72
120 min Summer	14.274	0.0	132
180 min Summer	10.513	0.0	190
240 min Summer	8.439	0.0	250
360 min Summer	6.177	0.0	370
480 min Summer	4.947	0.0	490
600 min Summer	4.163	0.0	608
720 min Summer	3.614	0.0	728
960 min Summer	2.891	0.0	968
1440 min Summer	2.108	0.0	1446
2160 min Summer	1.537	0.0	2164
2880 min Summer	1.228	0.0	2880
4320 min Summer	0.894	0.0	3848
5760 min Summer	0.714	0.0	4552
7200 min Summer	0.599	0.0	5272
8640 min Summer	0.519	0.0	6056
10080 min Summer	0.460	0.0	6864
15 min Winter	60.041	0.0	27
30 min Winter	38.563	0.0	41
60 min Winter	23.761	0.0	70
120 min Winter	14.274	0.0	130
180 min Winter	10.513	0.0	188
240 min Winter	8.439	0.0	248
360 min Winter	6.177	0.0	366

Summary of Results for 10 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
480 min Winter	0.181	0.181	0.0	17.1	O K
600 min Winter	0.188	0.188	0.0	17.9	O K
720 min Winter	0.194	0.194	0.0	18.5	O K
960 min Winter	0.204	0.204	0.0	19.3	O K
1440 min Winter	0.216	0.216	0.0	20.5	O K
2160 min Winter	0.225	0.225	0.0	21.4	O K
2880 min Winter	0.229	0.229	0.0	21.8	O K
4320 min Winter	0.229	0.229	0.0	21.8	O K
5760 min Winter	0.224	0.224	0.0	21.3	O K
7200 min Winter	0.218	0.218	0.0	20.7	O K
8640 min Winter	0.213	0.213	0.0	20.2	O K
10080 min Winter	0.206	0.206	0.0	19.6	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
480 min Winter	4.947	0.0	482
600 min Winter	4.163	0.0	600
720 min Winter	3.614	0.0	718
960 min Winter	2.891	0.0	954
1440 min Winter	2.108	0.0	1422
2160 min Winter	1.537	0.0	2120
2880 min Winter	1.228	0.0	2800
4320 min Winter	0.894	0.0	4112
5760 min Winter	0.714	0.0	5304
7200 min Winter	0.599	0.0	5688
8640 min Winter	0.519	0.0	6576
10080 min Winter	0.460	0.0	7472

Old Hall Chambers
 31 Old Hall Street
 Liverpool L3 9SY



Date 25/08/2021 10:55
 File AB 1 in 10 P1.SRCX

Designed by WinDes
 Checked by

Micro Drainage Source Control 2020.1

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)	19.800	Shortest Storm (mins)	15
Ratio R	0.415	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.054

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)	From: To:	(ha)
0	4 0.018	4	8 0.018	8	12 0.018

Old Hall Chambers
 31 Old Hall Street
 Liverpool L3 9SY



Date 25/08/2021 10:55
 File AB 1 in 10 P1.SRCX

Designed by WinDes
 Checked by

Micro Drainage Source Control 2020.1

Model Details

Storage is Offline Cover Level (m) 1.500 Dividing Weir Level (m) 0.000

Cellular Storage Structure

Invert Level (m) 0.000 Safety Factor 2.0
 Infiltration Coefficient Base (m/hr) 0.00273 Porosity 0.95
 Infiltration Coefficient Side (m/hr) 0.00273

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	100.0	100.0	0.800	100.0	100.0