

Rogers Cory Ptn Ltd		Page 1
The Old School Old School Road Hook RG27 9NJ	Fontwell Eastergate Area 10 Soakaway	
Date 25/06/2020 19:12 File Area 10.SRCX	Designed by Terry Seymour Checked by Terry Seymour	
Micro Drainage	Source Control 2017.1.2	

Summary of Results for 100 year Return Period (+50%)

Half Drain Time : 1904 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	25.741	0.441	0.4	33.2	O K
30 min Summer	25.887	0.587	0.4	44.5	O K
60 min Summer	26.045	0.745	0.4	56.7	O K
120 min Summer	26.208	0.908	0.5	69.2	O K
180 min Summer	26.298	0.998	0.5	76.1	O K
240 min Summer	26.356	1.056	0.5	80.6	O K
360 min Summer	26.434	1.134	0.5	86.6	O K
480 min Summer	26.485	1.185	0.5	90.5	O K
600 min Summer	26.518	1.218	0.5	93.0	O K
720 min Summer	26.540	1.240	0.5	94.7	O K
960 min Summer	26.562	1.262	0.5	96.4	O K
1440 min Summer	26.559	1.259	0.5	96.2	O K
2160 min Summer	26.528	1.228	0.5	93.8	O K
2880 min Summer	26.490	1.190	0.5	90.8	O K
4320 min Summer	26.413	1.113	0.5	85.0	O K
5760 min Summer	26.343	1.043	0.5	79.6	O K
7200 min Summer	26.279	0.979	0.5	74.6	O K
8640 min Summer	26.220	0.920	0.5	70.1	O K
10080 min Summer	26.163	0.863	0.5	65.8	O K
15 min Winter	25.793	0.493	0.4	37.2	O K
30 min Winter	25.958	0.658	0.4	49.9	O K
60 min Winter	26.136	0.836	0.4	63.6	O K
120 min Winter	26.320	1.020	0.5	77.8	O K
180 min Winter	26.423	1.123	0.5	85.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	135.580	0.0	19
30 min Summer	91.216	0.0	34
60 min Summer	58.567	0.0	64
120 min Summer	36.294	0.0	124
180 min Summer	27.017	0.0	184
240 min Summer	21.749	0.0	242
360 min Summer	16.006	0.0	362
480 min Summer	12.864	0.0	482
600 min Summer	10.849	0.0	602
720 min Summer	9.435	0.0	722
960 min Summer	7.561	0.0	960
1440 min Summer	5.523	0.0	1372
2160 min Summer	4.026	0.0	1712
2880 min Summer	3.213	0.0	2104
4320 min Summer	2.333	0.0	2936
5760 min Summer	1.857	0.0	3752
7200 min Summer	1.555	0.0	4544
8640 min Summer	1.347	0.0	5368
10080 min Summer	1.192	0.0	6160
15 min Winter	135.580	0.0	19
30 min Winter	91.216	0.0	34
60 min Winter	58.567	0.0	64
120 min Winter	36.294	0.0	122
180 min Winter	27.017	0.0	180

Rogers Cory Ptn Ltd		Page 2
The Old School Old School Road Hook RG27 9NJ	Fontwell Eastergate Area 10 Soakaway	
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Summary of Results for 100 year Return Period (+50%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
240 min Winter	26.490	1.190	0.5	90.9	O K
360 min Winter	26.582	1.282	0.5	97.9	O K
480 min Winter	26.642	1.342	0.5	102.6	O K
600 min Winter	26.683	1.383	0.5	105.7	O K
720 min Winter	26.712	1.412	0.5	108.0	O K
960 min Winter	26.746	1.446	0.6	110.6	O K
1440 min Winter	26.760	1.460	0.6	111.7	O K
2160 min Winter	26.722	1.422	0.5	108.7	O K
2880 min Winter	26.680	1.380	0.5	105.5	O K
4320 min Winter	26.575	1.275	0.5	97.5	O K
5760 min Winter	26.474	1.174	0.5	89.7	O K
7200 min Winter	26.379	1.079	0.5	82.4	O K
8640 min Winter	26.291	0.991	0.5	75.6	O K
10080 min Winter	26.209	0.909	0.5	69.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
240 min Winter	21.749	0.0	240
360 min Winter	16.006	0.0	358
480 min Winter	12.864	0.0	474
600 min Winter	10.849	0.0	590
720 min Winter	9.435	0.0	706
960 min Winter	7.561	0.0	934
1440 min Winter	5.523	0.0	1372
2160 min Winter	4.026	0.0	1944
2880 min Winter	3.213	0.0	2220
4320 min Winter	2.333	0.0	3156
5760 min Winter	1.857	0.0	4040
7200 min Winter	1.555	0.0	4968
8640 min Winter	1.347	0.0	5792
10080 min Winter	1.192	0.0	6656

Rogers Cory Ptn Ltd		Page 3
The Old School Old School Road Hook RG27 9NJ	Fontwell Eastergate Area 10 Soakaway	
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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.300	Shortest Storm (mins)	15
Ratio R	0.348	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+50

Time Area Diagram

Total Area (ha) 0.132

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

0	4 0.132
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Rogers Cory Ptn Ltd		Page 4
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Model Details

Storage is Online Cover Level (m) 27.300

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.13640	Trench Width (m)	4.5
Infiltration Coefficient Side (m/hr)	0.13640	Trench Length (m)	18.0
Safety Factor	10.0	Slope (1:X)	1000.0
Porosity	0.95	Cap Volume Depth (m)	1.500
Invert Level (m)	25.300	Cap Infiltration Depth (m)	1.500