Summary of Results for 10 year Return Period (+30%)

Half Drain Time : 47 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	-1.893	1.007	26.7	99.9	O K
30 min Summer	-1.702	1.198	29.1	118.9	O K
60 min Summer	-1.615	1.285	30.2	127.5	O K
120 min Summer	-1.634	1.266	30.0	125.6	O K
180 min Summer	-1.700	1.200	29.2	119.1	O K
240 min Summer	-1.772	1.128	28.2	111.9	O K
360 min Summer	-1.913	0.987	26.5	97.9	O K
480 min Summer	-2.039	0.861	24.9	85.4	O K
600 min Summer	-2.149	0.751	23.5	74.5	O K
720 min Summer	-2.246	0.654	22.3	64.9	O K
960 min Summer	-2.405	0.495	20.3	49.1	O K
1440 min Summer	-2.628	0.272	17.5	27.0	O K
2160 min Summer	-2.813	0.087	15.2	8.7	O K
2880 min Summer	-2.855	0.045	13.3	4.5	O K
4320 min Summer	-2.867	0.033	9.8	3.3	O K
5760 min Summer	-2.873	0.027	8.0	2.7	O K
7200 min Summer	-2.877	0.023	6.7	2.3	O K
8640 min Summer	-2.880	0.020	6.0	2.0	O K
10080 min Summer	-2.882	0.018	5.2	1.8	O K
15 min Winter	-1.756	1.144	28.4	113.5	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	70.770	0.0	17
30 min Summer	46.698	0.0	30
60 min Summer	29.629	0.0	46
120 min Summer	18.344	0.0	82
180 min Summer	13.747	0.0	116
240 min Summer	11.169	0.0	150
360 min Summer	8.317	0.0	216
480 min Summer	6.743	0.0	280
600 min Summer	5.728	0.0	344
720 min Summer	5.011	0.0	406
960 min Summer	4.057	0.0	530
1440 min Summer	3.009	0.0	766
2160 min Summer	2.231	0.0	1108
2880 min Summer	1.803	0.0	1452
4320 min Summer	1.335	0.0	2200
5760 min Summer	1.078	0.0	2872
7200 min Summer	0.913	0.0	3672
8640 min Summer	0.798	0.0	4392
10080 min Summer	0.711	0.0	5024
15 min Winter	70.770	0.0	17

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Summary of Results for 10 year Return Period (+30%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	-1.524	1.376	31.4	136.5	O K
60 min Winter	-1.423	1.477	32.6	146.5	O K
120 min Winter	-1.467	1.433	32.1	142.1	O K
180 min Winter	-1.581	1.319	30.6	130.8	O K
240 min Winter	-1.697	1.203	29.2	119.4	O K
360 min Winter	-1.910	0.990	26.5	98.3	O K
480 min Winter	-2.089	0.811	24.3	80.5	O K
600 min Winter	-2.239	0.661	22.4	65.6	O K
720 min Winter	-2.365	0.535	20.8	53.1	O K
960 min Winter	-2.564	0.336	18.3	33.4	O K
1440 min Winter	-2.811	0.089	15.2	8.8	O K
2160 min Winter	-2.860	0.040	11.9	4.0	O K
2880 min Winter	-2.867	0.033	9.6	3.2	O K
4320 min Winter	-2.876	0.024	7.1	2.4	O K
5760 min Winter	-2.880	0.020	5.8	1.9	O K
7200 min Winter	-2.883	0.017	4.9	1.7	O K
8640 min Winter	-2.885	0.015	4.3	1.5	O K
10080 min Winter	-2.887	0.013	3.9	1.3	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	46.698	0.0	30
60 min Winter	29.629	0.0	50
120 min Winter	18.344	0.0	88
180 min Winter	13.747	0.0	124
240 min Winter	11.169	0.0	160
360 min Winter	8.317	0.0	230
480 min Winter	6.743	0.0	296
600 min Winter	5.728	0.0	360
720 min Winter	5.011	0.0	422
960 min Winter	4.057	0.0	546
1440 min Winter	3.009	0.0	766
2160 min Winter	2.231	0.0	1080
2880 min Winter	1.803	0.0	1456
4320 min Winter	1.335	0.0	2200
5760 min Winter	1.078	0.0	2832
7200 min Winter	0.913	0.0	3600
8640 min Winter	0.798	0.0	4256
10080 min Winter	0.711	0.0	5016

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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)	19.000	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+30

Time Area Diagram

Total Area (ha) 0.899

Time (mins) From:	To:	Area (ha)
0	4	0.899

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Model Details

Storage is Online Cover Level (m) 0.000

Lined Soakaway Structure

Infiltration Coefficient Base (m/hr)	1.81080	Ring Diameter (m)	3.00
Infiltration Coefficient Side (m/hr)	1.81080	Pit Multiplier	1.5
Safety Factor	6.5	Number Required	9
Porosity	0.30	Cap Volume Depth (m)	2.900
Invert Level (m)	-2.900	Cap Infiltration Depth (m)	2.900

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