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66a Church Walk Burgess Hill West Sussex RH15 9AS	38 Heath Drive Existing 1 in 30 year Runoff rates	
Date 14 July 2015 File Existing runoff rates	Designed by JWR Checked by	

Micro Drainage Source Control 2015.1

Summary of Results for 30 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m <sup>3</sup> )	Status
15 min Summer	8.673	0.673	33.4	0.8	O K
30 min Summer	8.489	0.489	28.0	0.7	O K
60 min Summer	8.271	0.271	19.8	0.4	O K
120 min Summer	8.173	0.173	12.9	0.3	O K
180 min Summer	8.144	0.144	9.6	0.3	O K
240 min Summer	8.126	0.126	7.8	0.2	O K
360 min Summer	8.102	0.102	5.6	0.2	O K
480 min Summer	8.087	0.087	4.5	0.1	O K
600 min Summer	8.080	0.080	3.8	0.1	O K
720 min Summer	8.076	0.076	3.3	0.1	O K
960 min Summer	8.069	0.069	2.6	0.1	O K
1440 min Summer	8.057	0.057	1.9	0.1	O K
2160 min Summer	8.048	0.048	1.3	0.1	O K
2880 min Summer	8.043	0.043	1.1	0.1	O K
4320 min Summer	8.037	0.037	0.8	0.0	O K
5760 min Summer	8.033	0.033	0.6	0.0	O K
7200 min Summer	8.030	0.030	0.5	0.0	O K
8640 min Summer	8.028	0.028	0.5	0.0	O K
10080 min Summer	8.025	0.025	0.4	0.0	O K
15 min Winter	8.674	0.674	33.4	0.9	O K
30 min Winter	8.389	0.389	24.6	0.6	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Discharge Volume (m <sup>3</sup> )	Time-Peak (mins)
15 min Summer	82.295	0.0	13.1	10
30 min Summer	52.823	0.0	16.8	17
60 min Summer	32.372	0.0	20.6	32
120 min Summer	19.246	0.0	24.5	62
180 min Summer	14.051	0.0	26.9	92
240 min Summer	11.193	0.0	28.5	122
360 min Summer	8.120	0.0	31.1	182
480 min Summer	6.460	0.0	32.9	244
600 min Summer	5.407	0.0	34.5	300
720 min Summer	4.674	0.0	35.8	358
960 min Summer	3.712	0.0	37.9	484
1440 min Summer	2.680	0.0	41.0	732
2160 min Summer	1.933	0.0	44.4	1064
2880 min Summer	1.532	0.0	46.9	1460
4320 min Summer	1.103	0.0	50.6	2184
5760 min Summer	0.874	0.0	53.5	2880
7200 min Summer	0.729	0.0	55.7	3560
8640 min Summer	0.628	0.0	57.7	4256
10080 min Summer	0.554	0.0	59.3	4912
15 min Winter	82.295	0.0	14.7	10
30 min Winter	52.823	0.0	18.9	17


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Summary of Results for 30 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m <sup>3</sup> )	Status
60 min Winter	8.200	0.200	16.0	0.4	O K
120 min Winter	8.144	0.144	9.6	0.3	O K
180 min Winter	8.119	0.119	7.0	0.2	O K
240 min Winter	8.102	0.102	5.6	0.2	O K
360 min Winter	8.083	0.083	4.1	0.1	O K
480 min Winter	8.075	0.075	3.2	0.1	O K
600 min Winter	8.071	0.071	2.8	0.1	O K
720 min Winter	8.065	0.065	2.3	0.1	O K
960 min Winter	8.057	0.057	1.9	0.1	O K
1440 min Winter	8.049	0.049	1.4	0.1	O K
2160 min Winter	8.041	0.041	1.0	0.0	O K
2880 min Winter	8.036	0.036	0.8	0.0	O K
4320 min Winter	8.031	0.031	0.6	0.0	O K
5760 min Winter	8.027	0.027	0.4	0.0	O K
7200 min Winter	8.026	0.026	0.4	0.0	O K
8640 min Winter	8.024	0.024	0.3	0.0	O K
10080 min Winter	8.022	0.022	0.3	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m <sup>3</sup> )	Discharge Volume (m <sup>3</sup> )	Time-Peak (mins)
60 min Winter	32.372	0.0	23.1	32
120 min Winter	19.246	0.0	27.5	62
180 min Winter	14.051	0.0	30.1	92
240 min Winter	11.193	0.0	32.0	120
360 min Winter	8.120	0.0	34.8	184
480 min Winter	6.460	0.0	36.9	248
600 min Winter	5.407	0.0	38.6	304
720 min Winter	4.674	0.0	40.0	372
960 min Winter	3.712	0.0	42.4	474
1440 min Winter	2.680	0.0	45.9	722
2160 min Winter	1.933	0.0	49.7	1108
2880 min Winter	1.532	0.0	52.5	1520
4320 min Winter	1.103	0.0	56.7	2180
5760 min Winter	0.874	0.0	59.9	2888
7200 min Winter	0.729	0.0	62.4	3704
8640 min Winter	0.628	0.0	64.6	4312
10080 min Winter	0.554	0.0	66.5	5104

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	30	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	21.000	Shortest Storm (mins)	15
Ratio R	0.434	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.085

Time (mins)	Area
From:	To: (ha)
0	4 0.085