

Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m³)	Status
15 min Summer	7.700	1.200	2.0	222.5	O K
30 min Summer	8.039	1.539	2.0	285.3	O K
60 min Summer	8.364	1.864	2.0	345.6	O K
120 min Summer	8.862	2.362	2.0	437.9	O K
180 min Summer	9.159	2.659	2.0	493.0	O K
240 min Summer	9.356	2.856	2.0	529.4	O K
360 min Summer	9.585	3.085	2.0	572.0	O K
480 min Summer	9.701	3.201	2.0	593.4	Flood Risk
600 min Summer	9.760	3.260	2.0	604.3	Flood Risk
720 min Summer	9.786	3.286	2.0	609.3	Flood Risk
960 min Summer	9.783	3.283	2.0	608.6	Flood Risk
1440 min Summer	9.681	3.181	2.0	589.7	O K
2160 min Summer	9.433	2.933	2.0	543.8	O K
2880 min Summer	9.211	2.711	2.0	502.6	O K
4320 min Summer	8.893	2.393	2.0	443.7	O K
5760 min Summer	8.659	2.159	2.0	400.3	O K
7200 min Summer	8.473	1.973	2.0	365.8	O K
8640 min Summer	8.315	1.815	2.0	336.5	O K
10080 min Summer	8.178	1.678	2.0	311.1	O K
15 min Winter	7.700	1.200	2.0	222.5	O K
30 min Winter	8.039	1.539	2.0	285.3	O K
60 min Winter	8.364	1.864	2.0	345.6	O K
120 min Winter	8.863	2.363	2.0	438.1	O K
180 min Winter	9.161	2.661	2.0	493.4	O K
240 min Winter	9.358	2.858	2.0	530.0	O K
360 min Winter	9.590	3.090	2.0	572.8	O K
480 min Winter	9.706	3.206	2.0	594.5	Flood Risk

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
15 min Summer	177.456	0.0	172.3	19
30 min Summer	114.185	0.0	172.0	34
60 min Summer	69.652	0.0	335.3	64
120 min Summer	44.603	0.0	343.8	124
180 min Summer	33.805	0.0	343.2	184
240 min Summer	27.485	0.0	342.6	244
360 min Summer	20.164	0.0	341.5	364
480 min Summer	15.978	0.0	340.3	482
600 min Summer	13.260	0.0	339.1	602
720 min Summer	11.348	0.0	337.9	722
960 min Summer	8.827	0.0	335.3	962
1440 min Summer	6.156	0.0	329.6	1442
2160 min Summer	4.266	0.0	664.5	2100
2880 min Summer	3.289	0.0	650.2	2364
4320 min Summer	2.290	0.0	610.6	3068
5760 min Summer	1.781	0.0	864.0	3864
7200 min Summer	1.474	0.0	894.1	4680
8640 min Summer	1.269	0.0	923.7	5456
10080 min Summer	1.123	0.0	953.1	6256
15 min Winter	177.456	0.0	172.3	19
30 min Winter	114.185	0.0	172.0	34
60 min Winter	69.652	0.0	335.3	64
120 min Winter	44.603	0.0	343.7	122
180 min Winter	33.805	0.0	343.0	182
240 min Winter	27.485	0.0	342.3	240
360 min Winter	20.164	0.0	341.0	358
480 min Winter	15.978	0.0	339.7	476

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Storm Event	Max Level (m)	Max Depth (m)	Max Control (l/s)	Max Volume (m³)	Status
600 min Winter	9.767	3.267	2.0	605.7	Flood Risk
720 min Winter	9.795	3.295	2.0	610.9	Flood Risk
960 min Winter	9.796	3.296	2.0	611.0	Flood Risk
1440 min Winter	9.702	3.202	2.0	593.7	Flood Risk
2160 min Winter	9.469	2.969	2.0	550.5	O K
2880 min Winter	9.220	2.720	2.0	504.4	O K
4320 min Winter	8.850	2.350	2.0	435.8	O K
5760 min Winter	8.544	2.044	2.0	379.0	O K
7200 min Winter	8.283	1.783	2.0	330.6	O K
8640 min Winter	8.054	1.554	2.0	288.2	O K
10080 min Winter	7.853	1.353	2.0	250.8	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)
600 min Winter	13.260	0.0	338.4	594
720 min Winter	11.348	0.0	337.0	712
960 min Winter	8.827	0.0	334.2	944
1440 min Winter	6.156	0.0	328.1	1400
2160 min Winter	4.266	0.0	663.2	2056
2880 min Winter	3.289	0.0	649.8	2624
4320 min Winter	2.290	0.0	615.0	3244
5760 min Winter	1.781	0.0	864.0	4144
7200 min Winter	1.474	0.0	894.1	4976
8640 min Winter	1.269	0.0	923.8	5800
10080 min Winter	1.123	0.0	953.3	6656

Rainfall Details

Rainfall Model	FEH	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.950
FEH Rainfall Version	2013	Cv (Winter)	0.950
Site Location	GB 530591 182813	Shortest Storm (mins)	15
Data Type	Point	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.532

Time (mins)		Area
From:	To:	(ha)
0	4	0.532

Model Details

Storage is Online Cover Level (m) 10.000

Tank or Pond Structure

Invert Level (m) 6.500

Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	185.4	3.300	185.4

Pump Outflow Control

Invert Level (m) 6.500

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.200	2.0000	1.400	2.0000	2.600	2.0000	3.800	2.0000	5.000	2.0000
0.400	2.0000	1.600	2.0000	2.800	2.0000	4.000	2.0000	5.200	2.0000
0.600	2.0000	1.800	2.0000	3.000	2.0000	4.200	2.0000	5.400	2.0000
0.800	2.0000	2.000	2.0000	3.200	2.0000	4.400	2.0000	5.600	2.0000
1.000	2.0000	2.200	2.0000	3.400	2.0000	4.600	2.0000	5.800	2.0000
1.200	2.0000	2.400	2.0000	3.600	2.0000	4.800	2.0000	6.000	2.0000