



**Micro
Drainage®**

Designed by m.hayes
Checked by

Source Control 2013.1.1

Half Drain Time : 24 minutes.

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Discharge Volume (m ³)	Time-Peak (mins)
15 min Summer	106.828	0.0	0.0	15
30 min Summer	71.819	0.0	0.0	24
60 min Summer	46.096	0.0	0.0	40
120 min Summer	28.574	0.0	0.0	74
180 min Summer	21.285	0.0	0.0	108
240 min Summer	17.148	0.0	0.0	140
360 min Summer	12.605	0.0	0.0	202
480 min Summer	10.130	0.0	0.0	262
600 min Summer	8.542	0.0	0.0	322
720 min Summer	7.427	0.0	0.0	382
960 min Summer	5.951	0.0	0.0	500
1440 min Summer	4.347	0.0	0.0	736
2160 min Summer	3.168	0.0	0.0	1100
2880 min Summer	2.528	0.0	0.0	1468
4320 min Summer	1.836	0.0	0.0	2200
5760 min Summer	1.461	0.0	0.0	2936
7200 min Summer	1.223	0.0	0.0	3664
8640 min Summer	1.059	0.0	0.0	4400
10080 min Summer	0.937	0.0	0.0	5016



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Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control Σ (l/s)	Max Outflow (l/s)	Max Volume (m ³)	Status
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15 min Winter	34.584	0.584	0.0	39.2	39.2	83.3	0 K
30 min Winter	34.678	0.678	0.0	47.8	47.8	96.7	0 K
60 min Winter	34.703	0.703	0.0	50.3	50.3	100.1	Flood Risk
120 min Winter	34.639	0.639	0.0	43.9	43.9	91.0	0 K
180 min Winter	34.556	0.556	0.0	37.8	37.8	79.3	0 K
240 min Winter	34.480	0.480	0.0	34.0	34.0	68.4	0 K
360 min Winter	34.366	0.366	0.0	28.3	28.3	52.1	0 K
480 min Winter	34.288	0.288	0.0	24.4	24.4	41.0	0 K
600 min Winter	34.232	0.232	0.0	21.6	21.6	33.1	0 K
720 min Winter	34.196	0.196	0.0	19.6	19.6	28.0	0 K
960 min Winter	34.160	0.160	0.0	16.0	16.0	22.7	0 K
1440 min Winter	34.118	0.118	0.0	11.8	11.8	16.8	0 K
2160 min Winter	34.087	0.087	0.0	8.7	8.7	12.4	0 K
2880 min Winter	34.069	0.069	0.0	6.9	6.9	9.9	0 K
4320 min Winter	34.051	0.051	0.0	5.1	5.1	7.2	0 K
5760 min Winter	34.040	0.040	0.0	4.0	4.0	5.7	0 K
7200 min Winter	34.034	0.034	0.0	3.4	3.4	4.8	0 K
8640 min Winter	34.029	0.029	0.0	2.9	2.9	4.1	0 K
10080 min Winter	34.026	0.026	0.0	2.6	2.6	3.7	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Discharge Volume (m ³)	Time-Peak (mins)
15 min Winter	106.828	0.0	0.0	16
30 min Winter	71.819	0.0	0.0	25
60 min Winter	46.096	0.0	0.0	44
120 min Winter	28.574	0.0	0.0	80
180 min Winter	21.285	0.0	0.0	114
240 min Winter	17.148	0.0	0.0	146
360 min Winter	12.605	0.0	0.0	210
480 min Winter	10.130	0.0	0.0	270
600 min Winter	8.542	0.0	0.0	328
720 min Winter	7.427	0.0	0.0	382
960 min Winter	5.951	0.0	0.0	502
1440 min Winter	4.347	0.0	0.0	738
2160 min Winter	3.168	0.0	0.0	1104
2880 min Winter	2.528	0.0	0.0	1468
4320 min Winter	1.836	0.0	0.0	2184
5760 min Winter	1.461	0.0	0.0	2888
7200 min Winter	1.223	0.0	0.0	3656
8640 min Winter	1.059	0.0	0.0	4320
10080 min Winter	0.937	0.0	0.0	5136

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Kingston House Blackbrook Park Avenue Taunton Somerset TA1...		
Date 22/05/2013 09:06 File STORM TANK 1 2012...	Designed by m.hayes Checked by	
Micro Drainage Source Control 2013.1.1		

Model Details

Storage is Online Cover Level (m) 35.000

Cellular Storage Structure

Invert Level (m) 34.000 Safety Factor 5.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	150.0	0.0	2.600	0.0	0.0
0.200	150.0	0.0	2.800	0.0	0.0
0.400	150.0	0.0	3.000	0.0	0.0
0.600	150.0	0.0	3.200	0.0	0.0
0.800	150.0	0.0	3.400	0.0	0.0
1.000	150.0	0.0	3.600	0.0	0.0
1.200	0.0	0.0	3.800	0.0	0.0
1.400	0.0	0.0	4.000	0.0	0.0
1.600	0.0	0.0	4.200	0.0	0.0
1.800	0.0	0.0	4.400	0.0	0.0
2.000	0.0	0.0	4.600	0.0	0.0
2.200	0.0	0.0	4.800	0.0	0.0
2.400	0.0	0.0	5.000	0.0	0.0

Pump Outflow Control

Invert Level (m) 34.000

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.200	20.0000	1.800	0.0000	3.400	0.0000	5.000	0.0000
0.400	30.0000	2.000	0.0000	3.600	0.0000	5.200	0.0000
0.600	40.0000	2.200	0.0000	3.800	0.0000	5.400	0.0000
0.800	60.0000	2.400	0.0000	4.000	0.0000	5.600	0.0000
1.000	75.0000	2.600	0.0000	4.200	0.0000	5.800	0.0000
1.200	0.0000	2.800	0.0000	4.400	0.0000	6.000	0.0000
1.400	0.0000	3.000	0.0000	4.600	0.0000		
1.600	0.0000	3.200	0.0000	4.800	0.0000		

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