

Summary of Results for 1 year Return Period

Storm Duration (mins)	Maximum Control (l/s)	Maximum Outflow (l/s)	Maximum Water Level (m OD)	Maximum Depth (m)	Maximum Volume (m³)	Status
15 Summer	11.8	11.8	177.4453	0.0453	2.4	O K
30 Summer	11.8	11.8	177.4417	0.0418	2.2	O K
60 Summer	11.7	11.7	177.4227	0.0227	1.2	O K
120 Summer	11.5	11.5	177.4000	0.0000	0.0	O K
180 Summer	9.3	9.3	177.4000	0.0000	0.0	O K
240 Summer	7.8	7.8	177.4000	0.0000	0.0	O K
360 Summer	6.0	6.0	177.4000	0.0000	0.0	O K
480 Summer	5.0	5.0	177.4000	0.0000	0.0	O K
600 Summer	4.3	4.3	177.4000	0.0000	0.0	O K
720 Summer	3.9	3.9	177.4000	0.0000	0.0	O K
960 Summer	3.2	3.2	177.4000	0.0000	0.0	O K
1440 Summer	2.5	2.5	177.4000	0.0000	0.0	O K
2160 Summer	1.9	1.9	177.4000	0.0000	0.0	O K
2880 Summer	1.6	1.6	177.4000	0.0000	0.0	O K
4320 Summer	1.2	1.2	177.4000	0.0000	0.0	O K
5760 Summer	1.0	1.0	177.4000	0.0000	0.0	O K
7200 Summer	0.9	0.9	177.4000	0.0000	0.0	O K
8640 Summer	0.8	0.8	177.4000	0.0000	0.0	O K
10080 Summer	0.7	0.7	177.4000	0.0000	0.0	O K
15 Winter	11.8	11.8	177.4517	0.0518	2.8	O K
30 Winter	11.8	11.8	177.4392	0.0392	2.1	O K
60 Winter	11.6	11.6	177.4067	0.0068	0.4	O K
120 Winter	8.6	8.6	177.4000	0.0000	0.0	O K
180 Winter	6.8	6.8	177.4000	0.0000	0.0	O K
240 Winter	5.6	5.6	177.4000	0.0000	0.0	O K
360 Winter	4.4	4.4	177.4000	0.0000	0.0	O K
480 Winter	3.6	3.6	177.4000	0.0000	0.0	O K
600 Winter	3.1	3.1	177.4000	0.0000	0.0	O K
720 Winter	2.8	2.8	177.4000	0.0000	0.0	O K
960 Winter	2.3	2.3	177.4000	0.0000	0.0	O K

Storm Duration (mins)	Rain (mm/hr)	Time-Peak (mins)
15 Summer	28.17	12
30 Summer	19.18	20
60 Summer	12.80	36
120 Summer	8.41	0
180 Summer	6.56	0
240 Summer	5.47	0
360 Summer	4.21	0
480 Summer	3.50	0
600 Summer	3.03	0
720 Summer	2.70	0
960 Summer	2.25	0
1440 Summer	1.73	0
2160 Summer	1.33	0
2880 Summer	1.11	0
4320 Summer	0.85	0
5760 Summer	0.71	0
7200 Summer	0.61	0
8640 Summer	0.54	0
10080 Summer	0.49	0
15 Winter	28.17	13
30 Winter	19.18	21
60 Winter	12.80	36
120 Winter	8.41	0
180 Winter	6.56	0
240 Winter	5.47	0
360 Winter	4.21	0
480 Winter	3.50	0
600 Winter	3.03	0
720 Winter	2.70	0
960 Winter	2.25	0

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1440 Winter	1.8	1.8	177.4000	0.0000	0.0	O K
2160 Winter	1.4	1.4	177.4000	0.0000	0.0	O K
2880 Winter	1.1	1.1	177.4000	0.0000	0.0	O K
4320 Winter	0.9	0.9	177.4000	0.0000	0.0	O K
5760 Winter	0.7	0.7	177.4000	0.0000	0.0	O K
7200 Winter	0.6	0.6	177.4000	0.0000	0.0	O K
8640 Winter	0.6	0.6	177.4000	0.0000	0.0	O K
10080 Winter	0.5	0.5	177.4000	0.0000	0.0	O K

Storm Duration (mins)	Rain (mm/hr)	Time-Peak (mins)
1440 Winter	1.73	0
2160 Winter	1.33	0
2880 Winter	1.11	0
4320 Winter	0.85	0
5760 Winter	0.71	0
7200 Winter	0.61	0
8640 Winter	0.54	0
10080 Winter	0.49	0

Rainfall Details

Region	ENG+WAL	Cv (Summer)	0.750	Summer Storms	Yes
Return Period (years)	1	Cv (Winter)	0.840	Winter Storms	Yes
M5-60 (mm)	20.000	Shortest Storm (mins)	15	Climate Change %	+0
Ratio-R	0.300	Longest Storm (mins)	10080		

Time / Area Diagram

Total Area (ha) = 0.175

Time	(mins)	Area
from:	to:	(ha)
	0	4
		0.175

Tank/Pond Details

Invert Level (m)		177.400	Ground Level (m)		178.000						
Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.00	52.0	0.50	89.1	1.00	1000.0	1.50	1000.0	2.00	1000.0	2.50	1000.0
0.10	59.0	0.60	97.3	1.10	1000.0	1.60	1000.0	2.10	1000.0		
0.20	66.0	0.70	1000.0	1.20	1000.0	1.70	1000.0	2.20	1000.0		
0.30	73.4	0.80	1000.0	1.30	1000.0	1.80	1000.0	2.30	1000.0		
0.40	81.1	0.90	1000.0	1.40	1000.0	1.90	1000.0	2.40	1000.0		

Orifice Outflow Control

Diameter (m) 0.075 Discharge Coefficient 0.600 Invert Level (m) 176.400