

11 Broomhead Road
Wombell
Barnsley S73 0SA



Date 01/06/2022 11:38
File Plots 7-8.SRCX

Designed by shaun
Checked by

CADS Source Control 2020.1.3

Summary of Results for 30 year Return Period

Half Drain Time : 67 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	60.832	0.532	0.3	1.3	O K
30 min Summer	60.952	0.652	0.3	1.5	O K
60 min Summer	61.019	0.719	0.3	1.7	O K
120 min Summer	61.037	0.737	0.3	1.8	O K
180 min Summer	61.014	0.714	0.3	1.7	O K
240 min Summer	60.981	0.681	0.3	1.6	O K
360 min Summer	60.915	0.615	0.3	1.5	O K
480 min Summer	60.858	0.558	0.3	1.3	O K
600 min Summer	60.807	0.507	0.2	1.2	O K
720 min Summer	60.761	0.461	0.2	1.1	O K
960 min Summer	60.686	0.386	0.2	0.9	O K
1440 min Summer	60.575	0.275	0.2	0.7	O K
2160 min Summer	60.467	0.167	0.2	0.4	O K
2880 min Summer	60.400	0.100	0.1	0.2	O K
4320 min Summer	60.346	0.046	0.1	0.1	O K
5760 min Summer	60.337	0.037	0.1	0.1	O K
7200 min Summer	60.331	0.031	0.1	0.1	O K
8640 min Summer	60.327	0.027	0.1	0.1	O K
10080 min Summer	60.324	0.024	0.1	0.1	O K
15 min Winter	60.901	0.601	0.3	1.4	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	69.560	0.0	17
30 min Summer	46.077	0.0	31
60 min Summer	29.238	0.0	50
120 min Summer	18.017	0.0	84
180 min Summer	13.426	0.0	118
240 min Summer	10.845	0.0	152
360 min Summer	8.002	0.0	220
480 min Summer	6.447	0.0	286
600 min Summer	5.449	0.0	350
720 min Summer	4.747	0.0	412
960 min Summer	3.817	0.0	538
1440 min Summer	2.803	0.0	780
2160 min Summer	2.056	0.0	1144
2880 min Summer	1.648	0.0	1500
4320 min Summer	1.206	0.0	2200
5760 min Summer	0.966	0.0	2888
7200 min Summer	0.812	0.0	3576
8640 min Summer	0.705	0.0	4328
10080 min Summer	0.626	0.0	5128
15 min Winter	69.560	0.0	17

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Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	61.041	0.741	0.3	1.8	O K
60 min Winter	61.125	0.825	0.3	1.9	O K
120 min Winter	61.168	0.868	0.3	2.0	O K
180 min Winter	61.091	0.791	0.3	1.9	O K
240 min Winter	61.039	0.739	0.3	1.8	O K
360 min Winter	60.941	0.641	0.3	1.5	O K
480 min Winter	60.858	0.558	0.3	1.3	O K
600 min Winter	60.788	0.488	0.2	1.2	O K
720 min Winter	60.728	0.428	0.2	1.0	O K
960 min Winter	60.631	0.331	0.2	0.8	O K
1440 min Winter	60.499	0.199	0.2	0.5	O K
2160 min Winter	60.383	0.083	0.1	0.2	O K
2880 min Winter	60.346	0.046	0.1	0.1	O K
4320 min Winter	60.334	0.034	0.1	0.1	O K
5760 min Winter	60.327	0.027	0.1	0.1	O K
7200 min Winter	60.323	0.023	0.1	0.1	O K
8640 min Winter	60.320	0.020	0.0	0.0	O K
10080 min Winter	60.318	0.018	0.0	0.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
30 min Winter	46.077	0.0	31
60 min Winter	29.238	0.0	54
120 min Winter	18.017	0.0	90
180 min Winter	13.426	0.0	128
240 min Winter	10.845	0.0	164
360 min Winter	8.002	0.0	234
480 min Winter	6.447	0.0	302
600 min Winter	5.449	0.0	368
720 min Winter	4.747	0.0	434
960 min Winter	3.817	0.0	560
1440 min Winter	2.803	0.0	808
2160 min Winter	2.056	0.0	1148
2880 min Winter	1.648	0.0	1468
4320 min Winter	1.206	0.0	2200
5760 min Winter	0.966	0.0	2936
7200 min Winter	0.812	0.0	3672
8640 min Winter	0.705	0.0	4400
10080 min Winter	0.626	0.0	5064

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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)	19.000	Shortest Storm (mins)	15
Ratio R	0.361	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+0

Time Area Diagram

Total Area (ha) 0.011

Time (mins)		Area
From:	To:	(ha)
0	4	0.011

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CADS

Model Details

Storage is Online Cover Level (m) 61.700

Cellular Storage Structure

Invert Level (m) 60.300 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.29520 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.29520

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	2.5	2.5	0.900	0.0	8.1
0.800	2.5	8.1			