

Camden Mill
Lower Bristol Road
Bath



Date 25/03/2024 15:51
File Catchment 5.SRCX

Designed by dwright
Checked by

Innovyze Source Control 2020.1.3

Summary of Results for 2 year Return Period

Half Drain Time : 38 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	8.327	0.327	72.6	215.7	O K
30 min Summer	8.380	0.380	76.3	254.0	O K
60 min Summer	8.389	0.389	76.9	261.0	O K
120 min Summer	8.421	0.421	79.2	284.6	O K
180 min Summer	8.413	0.413	78.6	278.5	O K
240 min Summer	8.392	0.392	77.1	262.8	O K
360 min Summer	8.337	0.337	73.3	222.7	O K
480 min Summer	8.281	0.281	69.3	182.4	O K
600 min Summer	8.230	0.230	65.8	147.3	O K
720 min Summer	8.186	0.186	62.7	117.5	O K
960 min Summer	8.117	0.117	58.0	72.4	O K
1440 min Summer	8.050	0.050	53.2	30.2	O K
2160 min Summer	8.037	0.037	38.9	22.2	O K
2880 min Summer	8.030	0.030	31.4	17.9	O K
4320 min Summer	8.022	0.022	23.3	13.4	O K
5760 min Summer	8.019	0.019	19.6	11.2	O K
7200 min Summer	8.016	0.016	17.0	9.7	O K
8640 min Summer	8.015	0.015	15.4	8.8	O K
10080 min Summer	8.013	0.013	13.8	7.9	O K
15 min Winter	8.370	0.370	75.6	246.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	35.347	0.0	22
30 min Summer	22.544	0.0	32
60 min Summer	13.912	0.0	50
120 min Summer	9.465	0.0	86
180 min Summer	7.351	0.0	120
240 min Summer	6.071	0.0	152
360 min Summer	4.554	0.0	218
480 min Summer	3.668	0.0	280
600 min Summer	3.087	0.0	342
720 min Summer	2.676	0.0	402
960 min Summer	2.130	0.0	518
1440 min Summer	1.537	0.0	736
2160 min Summer	1.116	0.0	1092
2880 min Summer	0.895	0.0	1460
4320 min Summer	0.667	0.0	2148
5760 min Summer	0.549	0.0	2920
7200 min Summer	0.476	0.0	3672
8640 min Summer	0.427	0.0	4392
10080 min Summer	0.391	0.0	5072
15 min Winter	35.347	0.0	22

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Summary of Results for 2 year Return Period

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	8.431	0.431	79.9	292.3	O K
60 min Winter	8.443	0.443	80.7	301.0	O K
120 min Winter	8.469	0.469	82.6	321.0	O K
180 min Winter	8.446	0.446	81.0	303.6	O K
240 min Winter	8.409	0.409	78.4	275.6	O K
360 min Winter	8.325	0.325	72.4	213.8	O K
480 min Winter	8.245	0.245	66.8	157.6	O K
600 min Winter	8.176	0.176	62.1	111.1	O K
720 min Winter	8.119	0.119	58.2	74.0	O K
960 min Winter	8.050	0.050	53.5	30.6	O K
1440 min Winter	8.037	0.037	38.9	22.2	O K
2160 min Winter	8.027	0.027	28.1	16.2	O K
2880 min Winter	8.022	0.022	22.8	13.0	O K
4320 min Winter	8.016	0.016	17.0	9.7	O K
5760 min Winter	8.014	0.014	14.3	8.2	O K
7200 min Winter	8.012	0.012	12.2	7.0	O K
8640 min Winter	8.011	0.011	11.2	6.4	O K
10080 min Winter	8.010	0.010	10.1	5.8	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
30 min Winter	22.544	0.0	33
60 min Winter	13.912	0.0	54
120 min Winter	9.465	0.0	92
180 min Winter	7.351	0.0	128
240 min Winter	6.071	0.0	164
360 min Winter	4.554	0.0	230
480 min Winter	3.668	0.0	294
600 min Winter	3.087	0.0	354
720 min Winter	2.676	0.0	412
960 min Winter	2.130	0.0	496
1440 min Winter	1.537	0.0	734
2160 min Winter	1.116	0.0	1104
2880 min Winter	0.895	0.0	1460
4320 min Winter	0.667	0.0	2184
5760 min Winter	0.549	0.0	2928
7200 min Winter	0.476	0.0	3640
8640 min Winter	0.427	0.0	4360
10080 min Winter	0.391	0.0	5128

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Rainfall Details

Rainfall Model	FEH
Return Period (years)	2
FEH Rainfall Version	2013
Site Location	GB 447876 213399 SP 47876 13399
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.890
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+0

Time Area Diagram

Total Area (ha) 3.600

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)	From: To:	(ha)
0 4	1.200	4 8	1.200	8 12	1.200

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Model Details

Storage is Online Cover Level (m) 10.000

Infiltration Basin Structure

Invert Level (m) 8.000 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.60120 Porosity 1.00
Infiltration Coefficient Side (m/hr) 0.60120

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	600.0	2.000	1495.7

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Bath



Date 25/03/2024 15:50
File Catchment 5.SRCX

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Summary of Results for 10 year Return Period (+10%)

Half Drain Time : 61 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	8.635	0.635	94.6	455.0	O K
30 min Summer	8.748	0.748	102.9	553.4	O K
60 min Summer	8.794	0.794	106.2	594.2	O K
120 min Summer	8.816	0.816	107.9	614.3	O K
180 min Summer	8.795	0.795	106.3	594.8	O K
240 min Summer	8.762	0.762	103.9	565.7	O K
360 min Summer	8.688	0.688	98.5	500.6	O K
480 min Summer	8.613	0.613	93.0	437.0	O K
600 min Summer	8.543	0.543	87.9	379.8	O K
720 min Summer	8.479	0.479	83.3	329.2	O K
960 min Summer	8.369	0.369	75.5	245.9	O K
1440 min Summer	8.209	0.209	64.3	133.0	O K
2160 min Summer	8.076	0.076	55.2	46.3	O K
2880 min Summer	8.045	0.045	47.7	27.1	O K
4320 min Summer	8.033	0.033	35.1	20.0	O K
5760 min Summer	8.027	0.027	28.1	16.2	O K
7200 min Summer	8.023	0.023	24.4	13.9	O K
8640 min Summer	8.021	0.021	21.7	12.4	O K
10080 min Summer	8.019	0.019	19.6	11.2	O K
15 min Winter	8.708	0.708	99.9	517.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	68.124	0.0	23
30 min Summer	43.927	0.0	34
60 min Summer	27.024	0.0	56
120 min Summer	16.992	0.0	90
180 min Summer	12.754	0.0	124
240 min Summer	10.327	0.0	158
360 min Summer	7.576	0.0	226
480 min Summer	6.028	0.0	290
600 min Summer	5.030	0.0	354
720 min Summer	4.329	0.0	418
960 min Summer	3.405	0.0	540
1440 min Summer	2.420	0.0	778
2160 min Summer	1.727	0.0	1116
2880 min Summer	1.367	0.0	1444
4320 min Summer	0.996	0.0	2176
5760 min Summer	0.805	0.0	2888
7200 min Summer	0.688	0.0	3664
8640 min Summer	0.609	0.0	4352
10080 min Summer	0.552	0.0	4992
15 min Winter	68.124	0.0	23

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Summary of Results for 10 year Return Period (+10%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	8.836	0.836	109.4	632.6	O K
60 min Winter	8.893	0.893	113.7	686.6	O K
120 min Winter	8.913	0.913	115.2	705.5	O K
180 min Winter	8.877	0.877	112.5	671.5	O K
240 min Winter	8.827	0.827	108.7	624.6	O K
360 min Winter	8.718	0.718	100.7	526.6	O K
480 min Winter	8.612	0.612	92.9	436.3	O K
600 min Winter	8.516	0.516	86.0	358.5	O K
720 min Winter	8.431	0.431	79.9	292.4	O K
960 min Winter	8.290	0.290	70.0	188.8	O K
1440 min Winter	8.099	0.099	56.8	61.3	O K
2160 min Winter	8.041	0.041	43.8	24.9	O K
2880 min Winter	8.033	0.033	34.6	19.7	O K
4320 min Winter	8.024	0.024	25.5	14.5	O K
5760 min Winter	8.020	0.020	20.7	11.8	O K
7200 min Winter	8.017	0.017	17.5	10.1	O K
8640 min Winter	8.015	0.015	15.4	9.0	O K
10080 min Winter	8.014	0.014	14.3	8.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
30 min Winter	43.927	0.0	35
60 min Winter	27.024	0.0	58
120 min Winter	16.992	0.0	96
180 min Winter	12.754	0.0	134
240 min Winter	10.327	0.0	170
360 min Winter	7.576	0.0	240
480 min Winter	6.028	0.0	308
600 min Winter	5.030	0.0	374
720 min Winter	4.329	0.0	436
960 min Winter	3.405	0.0	560
1440 min Winter	2.420	0.0	784
2160 min Winter	1.727	0.0	1092
2880 min Winter	1.367	0.0	1472
4320 min Winter	0.996	0.0	2204
5760 min Winter	0.805	0.0	2872
7200 min Winter	0.688	0.0	3616
8640 min Winter	0.609	0.0	4408
10080 min Winter	0.552	0.0	5016

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Rainfall Details

Rainfall Model	FEH
Return Period (years)	10
FEH Rainfall Version	2013
Site Location	GB 447876 213399 SP 47876 13399
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.890
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+10

Time Area Diagram

Total Area (ha) 3.600

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)	From: To:	(ha)
0	4 1.200	4	8 1.200	8	12 1.200

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Model Details

Storage is Online Cover Level (m) 10.000

Infiltration Basin Structure

Invert Level (m) 8.000 Safety Factor 2.0
 Infiltration Coefficient Base (m/hr) 0.60120 Porosity 1.00
 Infiltration Coefficient Side (m/hr) 0.60120

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	600.0	2.000	1495.7

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Summary of Results for 30 year Return Period (+20%)

Half Drain Time : 77 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	8.892	0.892	113.5	685.2	O K
30 min Summer	9.056	1.056	126.0	846.8	O K
60 min Summer	9.143	1.143	132.6	937.3	O K
120 min Summer	9.163	1.163	134.2	959.3	O K
180 min Summer	9.139	1.139	132.3	933.3	O K
240 min Summer	9.099	1.099	129.3	891.5	O K
360 min Summer	9.011	1.011	122.6	801.5	O K
480 min Summer	8.925	0.925	116.0	716.5	O K
600 min Summer	8.843	0.843	109.9	639.6	O K
720 min Summer	8.768	0.768	104.3	571.1	O K
960 min Summer	8.636	0.636	94.7	456.5	O K
1440 min Summer	8.433	0.433	80.0	293.6	O K
2160 min Summer	8.231	0.231	65.9	148.0	O K
2880 min Summer	8.109	0.109	57.5	67.3	O K
4320 min Summer	8.043	0.043	46.0	26.2	O K
5760 min Summer	8.035	0.035	36.8	21.0	O K
7200 min Summer	8.030	0.030	31.4	17.9	O K
8640 min Summer	8.026	0.026	27.6	15.8	O K
10080 min Summer	8.024	0.024	24.9	14.2	O K
15 min Winter	8.987	0.987	120.7	777.1	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	99.129	0.0	23
30 min Summer	64.350	0.0	35
60 min Summer	39.805	0.0	60
120 min Summer	24.311	0.0	92
180 min Summer	18.051	0.0	126
240 min Summer	14.526	0.0	162
360 min Summer	10.577	0.0	230
480 min Summer	8.380	0.0	296
600 min Summer	6.971	0.0	360
720 min Summer	5.985	0.0	424
960 min Summer	4.690	0.0	548
1440 min Summer	3.312	0.0	794
2160 min Summer	2.338	0.0	1148
2880 min Summer	1.833	0.0	1500
4320 min Summer	1.315	0.0	2180
5760 min Summer	1.049	0.0	2920
7200 min Summer	0.888	0.0	3616
8640 min Summer	0.780	0.0	4280
10080 min Summer	0.701	0.0	5008
15 min Winter	99.129	0.0	23

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Summary of Results for 30 year Return Period (+20%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	9.168	1.168	134.6	964.7	O K
60 min Winter	9.272	1.272	142.7	1078.5	O K
120 min Winter	9.292	1.292	144.3	1101.6	O K
180 min Winter	9.258	1.258	141.6	1062.6	O K
240 min Winter	9.201	1.201	137.2	1000.4	O K
360 min Winter	9.074	1.074	127.4	865.5	O K
480 min Winter	8.954	0.954	118.2	744.6	O K
600 min Winter	8.843	0.843	109.9	639.0	O K
720 min Winter	8.742	0.742	102.4	548.0	O K
960 min Winter	8.571	0.571	89.9	402.1	O K
1440 min Winter	8.319	0.319	72.0	209.5	O K
2160 min Winter	8.092	0.092	56.3	56.6	O K
2880 min Winter	8.044	0.044	46.6	26.5	O K
4320 min Winter	8.032	0.032	33.5	19.1	O K
5760 min Winter	8.025	0.025	26.5	15.2	O K
7200 min Winter	8.022	0.022	22.8	13.0	O K
8640 min Winter	8.019	0.019	20.1	11.5	O K
10080 min Winter	8.017	0.017	18.0	10.3	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
30 min Winter	64.350	0.0	35
60 min Winter	39.805	0.0	60
120 min Winter	24.311	0.0	98
180 min Winter	18.051	0.0	136
240 min Winter	14.526	0.0	174
360 min Winter	10.577	0.0	246
480 min Winter	8.380	0.0	314
600 min Winter	6.971	0.0	382
720 min Winter	5.985	0.0	446
960 min Winter	4.690	0.0	574
1440 min Winter	3.312	0.0	816
2160 min Winter	2.338	0.0	1152
2880 min Winter	1.833	0.0	1464
4320 min Winter	1.315	0.0	2152
5760 min Winter	1.049	0.0	2832
7200 min Winter	0.888	0.0	3560
8640 min Winter	0.780	0.0	4296
10080 min Winter	0.701	0.0	5136

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Date 25/03/2024 15:49
 File Catchment 5.SRCX

Source Control 2020.1.3

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Rainfall Details

Rainfall Model	FEH
Return Period (years)	30
FEH Rainfall Version	2013
Site Location	GB 447876 213399 SP 47876 13399
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.890
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+20

Time Area Diagram

Total Area (ha) 3.600

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)	From: To:	(ha)
0	4 1.200	4	8 1.200	8	12 1.200

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Model Details

Storage is Online Cover Level (m) 10.000

Infiltration Basin Structure

Invert Level (m) 8.000 Safety Factor 2.0
 Infiltration Coefficient Base (m/hr) 0.60120 Porosity 1.00
 Infiltration Coefficient Side (m/hr) 0.60120

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	600.0	2.000	1495.7

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File Catchment 5.SRCX

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Source Control 2020.1.3

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

Half Drain Time : 97 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	9.255	1.255	141.4	1060.0	O K
30 min Summer	9.489	1.489	159.9	1333.2	O K
60 min Summer	9.633	1.633	171.5	1516.1	O K
120 min Summer	9.665	1.665	174.1	1557.7	O K
180 min Summer	9.651	1.651	173.0	1539.5	O K
240 min Summer	9.616	1.616	170.1	1493.7	O K
360 min Summer	9.520	1.520	162.4	1372.7	O K
480 min Summer	9.422	1.422	154.5	1252.5	O K
600 min Summer	9.329	1.329	147.2	1143.0	O K
720 min Summer	9.241	1.241	140.3	1044.4	O K
960 min Summer	9.083	1.083	128.1	875.0	O K
1440 min Summer	8.829	0.829	108.8	626.2	O K
2160 min Summer	8.557	0.557	88.9	390.9	O K
2880 min Summer	8.370	0.370	75.6	246.3	O K
4320 min Summer	8.140	0.140	59.6	87.1	O K
5760 min Summer	8.048	0.048	51.5	29.3	O K
7200 min Summer	8.041	0.041	43.3	24.6	O K
8640 min Summer	8.035	0.035	37.3	21.4	O K
10080 min Summer	8.032	0.032	33.5	19.1	O K
15 min Winter	9.378	1.378	151.0	1200.1	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	149.151	0.0	24
30 min Summer	97.695	0.0	36
60 min Summer	60.761	0.0	62
120 min Summer	36.541	0.0	96
180 min Summer	27.028	0.0	130
240 min Summer	21.730	0.0	164
360 min Summer	15.828	0.0	234
480 min Summer	12.545	0.0	300
600 min Summer	10.431	0.0	366
720 min Summer	8.949	0.0	432
960 min Summer	6.994	0.0	558
1440 min Summer	4.908	0.0	806
2160 min Summer	3.428	0.0	1172
2880 min Summer	2.661	0.0	1532
4320 min Summer	1.875	0.0	2244
5760 min Summer	1.473	0.0	2904
7200 min Summer	1.231	0.0	3624
8640 min Summer	1.070	0.0	4400
10080 min Summer	0.954	0.0	5080
15 min Winter	149.151	0.0	24

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Date 25/03/2024 15:48
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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	9.632	1.632	171.5	1514.6	O K
60 min Winter	9.796	1.796	184.9	1735.1	Flood Risk
120 min Winter	9.831	1.831	187.8	1783.7	Flood Risk
180 min Winter	9.809	1.809	186.0	1753.0	Flood Risk
240 min Winter	9.760	1.760	182.0	1685.6	Flood Risk
360 min Winter	9.630	1.630	171.3	1512.6	O K
480 min Winter	9.492	1.492	160.1	1337.9	O K
600 min Winter	9.365	1.365	150.0	1185.2	O K
720 min Winter	9.248	1.248	140.8	1052.1	O K
960 min Winter	9.041	1.041	124.9	831.9	O K
1440 min Winter	8.721	0.721	100.8	528.8	O K
2160 min Winter	8.400	0.400	77.7	268.5	O K
2880 min Winter	8.194	0.194	63.3	123.2	O K
4320 min Winter	8.045	0.045	47.7	27.1	O K
5760 min Winter	8.035	0.035	37.3	21.3	O K
7200 min Winter	8.030	0.030	31.4	17.9	O K
8640 min Winter	8.026	0.026	27.1	15.6	O K
10080 min Winter	8.023	0.023	24.4	14.0	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
30 min Winter	97.695	0.0	36
60 min Winter	60.761	0.0	62
120 min Winter	36.541	0.0	102
180 min Winter	27.028	0.0	140
240 min Winter	21.730	0.0	176
360 min Winter	15.828	0.0	250
480 min Winter	12.545	0.0	322
600 min Winter	10.431	0.0	390
720 min Winter	8.949	0.0	456
960 min Winter	6.994	0.0	586
1440 min Winter	4.908	0.0	836
2160 min Winter	3.428	0.0	1196
2880 min Winter	2.661	0.0	1556
4320 min Winter	1.875	0.0	2208
5760 min Winter	1.473	0.0	2880
7200 min Winter	1.231	0.0	3632
8640 min Winter	1.070	0.0	4328
10080 min Winter	0.954	0.0	5008

Camden Mill
 Lower Bristol Road
 Bath

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Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 447876 213399 SP 47876 13399
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	0.890
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

Time Area Diagram

Total Area (ha) 3.600

Time (mins)	Area	Time (mins)	Area	Time (mins)	Area
From: To:	(ha)	From: To:	(ha)	From: To:	(ha)
0	4 1.200	4	8 1.200	8	12 1.200

Camden Mill
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Bath



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Model Details

Storage is Online Cover Level (m) 10.000

Infiltration Basin Structure

Invert Level (m) 8.000 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.60120 Porosity 1.00
Infiltration Coefficient Side (m/hr) 0.60120

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	600.0	2.000	1495.7