

Baker & Associates Ltd		Page 1
Wessex House	Upper Bognor Road	
Uper Market Street	Bognor	
Eastleigh Hampshire SO50 5FD	Soakaway SAT 1	
Date 30/06/2025	Designed by S Baker	
File Soakaway SAT 1 30.06.25.SRCX	Checked by	
Micro Drainage	Source Control 2018.1.1	

Summary of Results for 2 year Return Period (+40%)

Half Drain Time : 146 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	0.069	0.069	0.1	0.5	O K
30 min Summer	0.087	0.087	0.1	0.6	O K
60 min Summer	0.102	0.102	0.1	0.7	O K
120 min Summer	0.125	0.125	0.1	0.9	O K
180 min Summer	0.134	0.134	0.1	1.0	O K
240 min Summer	0.136	0.136	0.1	1.0	O K
360 min Summer	0.135	0.135	0.1	1.0	O K
480 min Summer	0.129	0.129	0.1	0.9	O K
600 min Summer	0.122	0.122	0.1	0.9	O K
720 min Summer	0.115	0.115	0.1	0.8	O K
960 min Summer	0.102	0.102	0.1	0.7	O K
1440 min Summer	0.080	0.080	0.1	0.6	O K
2160 min Summer	0.058	0.058	0.1	0.4	O K
2880 min Summer	0.048	0.048	0.1	0.3	O K
4320 min Summer	0.039	0.039	0.0	0.3	O K
5760 min Summer	0.034	0.034	0.0	0.2	O K
7200 min Summer	0.031	0.031	0.0	0.2	O K
8640 min Summer	0.029	0.029	0.0	0.2	O K
10080 min Summer	0.027	0.027	0.0	0.2	O K
15 min Winter	0.069	0.069	0.1	0.5	O K
30 min Winter	0.087	0.087	0.1	0.6	O K
60 min Winter	0.102	0.102	0.1	0.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	52.899	0.0	18
30 min Summer	34.386	0.0	32
60 min Summer	21.578	0.0	62
120 min Summer	14.706	0.0	112
180 min Summer	11.362	0.0	144
240 min Summer	9.337	0.0	176
360 min Summer	6.953	0.0	246
480 min Summer	5.579	0.0	314
600 min Summer	4.686	0.0	380
720 min Summer	4.057	0.0	448
960 min Summer	3.227	0.0	578
1440 min Summer	2.345	0.0	824
2160 min Summer	1.724	0.0	1168
2880 min Summer	1.400	0.0	1504
4320 min Summer	1.071	0.0	2244
5760 min Summer	0.901	0.0	2944
7200 min Summer	0.797	0.0	3680
8640 min Summer	0.726	0.0	4408
10080 min Summer	0.675	0.0	5144
15 min Winter	52.899	0.0	18
30 min Winter	34.386	0.0	32
60 min Winter	21.578	0.0	60

Baker & Associates Ltd		Page 2
Wessex House	Upper Bognor Road	
Uper Market Street	Bognor	
Eastleigh Hampshire SO50 5FD	Soakaway SAT 1	
Date 30/06/2025	Designed by S Baker	
File Soakaway SAT 1 30.06.25.SRCX	Checked by	
Micro Drainage	Source Control 2018.1.1	

Summary of Results for 2 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
120 min Winter	0.126	0.126	0.1	0.9	O K
180 min Winter	0.133	0.133	0.1	0.9	O K
240 min Winter	0.134	0.134	0.1	1.0	O K
360 min Winter	0.130	0.130	0.1	0.9	O K
480 min Winter	0.121	0.121	0.1	0.9	O K
600 min Winter	0.111	0.111	0.1	0.8	O K
720 min Winter	0.101	0.101	0.1	0.7	O K
960 min Winter	0.082	0.082	0.1	0.6	O K
1440 min Winter	0.056	0.056	0.1	0.4	O K
2160 min Winter	0.042	0.042	0.0	0.3	O K
2880 min Winter	0.035	0.035	0.0	0.2	O K
4320 min Winter	0.027	0.027	0.0	0.2	O K
5760 min Winter	0.023	0.023	0.0	0.2	O K
7200 min Winter	0.021	0.021	0.0	0.1	O K
8640 min Winter	0.019	0.019	0.0	0.1	O K
10080 min Winter	0.018	0.018	0.0	0.1	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
120 min Winter	14.706	0.0	116
180 min Winter	11.362	0.0	146
240 min Winter	9.337	0.0	184
360 min Winter	6.953	0.0	262
480 min Winter	5.579	0.0	336
600 min Winter	4.686	0.0	406
720 min Winter	4.057	0.0	476
960 min Winter	3.227	0.0	606
1440 min Winter	2.345	0.0	826
2160 min Winter	1.724	0.0	1172
2880 min Winter	1.400	0.0	1532
4320 min Winter	1.071	0.0	2252
5760 min Winter	0.901	0.0	2992
7200 min Winter	0.797	0.0	3672
8640 min Winter	0.726	0.0	4488
10080 min Winter	0.675	0.0	5088

Baker & Associates Ltd		Page 3
Wessex House Uper Market Street Eastleigh Hampshire SO50 5FD	Upper Bognor Road Bognor Soakaway SAT 1	
Date 30/06/2025	Designed by S Baker	
File Soakaway SAT 1 30.06.25.SRCX	Checked by	
Micro Drainage	Source Control 2018.1.1	

Rainfall Details

Rainfall Model	FEH	Winter Storms	Yes
Return Period (years)	2	Cv (Summer)	1.000
FEH Rainfall Version	2013	Cv (Winter)	1.000
Site Location	GB 494352 99539 SZ 94352 99539	Shortest Storm (mins)	15
Data Type	Point	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.004

Time (mins)	Area
From:	To: (ha)

0	4 0.004
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Baker & Associates Ltd		Page 4
Wessex House Uper Market Street Eastleigh Hampshire SO50 5FD	Upper Bognor Road Bognor Soakaway SAT 1	
Date 30/06/2025	Designed by S Baker	
File Soakaway SAT 1 30.06.25.SRCX	Checked by	
Micro Drainage	Source Control 2018.1.1	

Model Details

Storage is Online Cover Level (m) 0.400

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.03600	Trench Width (m)	3.0
Infiltration Coefficient Side (m/hr)	0.03600	Trench Length (m)	2.5
Safety Factor	1.5	Slope (1:X)	0.0
Porosity	0.95	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000	Cap Infiltration Depth (m)	0.000

Baker & Associates Ltd		Page 1
Wessex House	Upper Bognor Road	
Uper Market Street	Bognor	
Eastleigh Hampshire SO50 5FD	Soakaway SAT 1	
Date 30/06/2025	Designed by S Baker	
File Soakaway SAT 1 30.06.25.SRCX	Checked by	
Micro Drainage	Source Control 2018.1.1	

Summary of Results for 10 year Return Period (+40%)

Half Drain Time : 212 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	0.117	0.117	0.1	0.8	O K
30 min Summer	0.149	0.149	0.1	1.1	O K
60 min Summer	0.179	0.179	0.1	1.3	O K
120 min Summer	0.208	0.208	0.1	1.5	O K
180 min Summer	0.216	0.216	0.1	1.5	O K
240 min Summer	0.216	0.216	0.1	1.5	O K
360 min Summer	0.212	0.212	0.1	1.5	O K
480 min Summer	0.203	0.203	0.1	1.4	O K
600 min Summer	0.193	0.193	0.1	1.4	O K
720 min Summer	0.184	0.184	0.1	1.3	O K
960 min Summer	0.165	0.165	0.1	1.2	O K
1440 min Summer	0.134	0.134	0.1	1.0	O K
2160 min Summer	0.100	0.100	0.1	0.7	O K
2880 min Summer	0.076	0.076	0.1	0.5	O K
4320 min Summer	0.052	0.052	0.1	0.4	O K
5760 min Summer	0.044	0.044	0.0	0.3	O K
7200 min Summer	0.039	0.039	0.0	0.3	O K
8640 min Summer	0.036	0.036	0.0	0.3	O K
10080 min Summer	0.033	0.033	0.0	0.2	O K
15 min Winter	0.117	0.117	0.1	0.8	O K
30 min Winter	0.149	0.149	0.1	1.1	O K
60 min Winter	0.179	0.179	0.1	1.3	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	87.173	0.0	18
30 min Summer	57.027	0.0	33
60 min Summer	35.840	0.0	62
120 min Summer	22.680	0.0	120
180 min Summer	16.988	0.0	172
240 min Summer	13.713	0.0	200
360 min Summer	10.007	0.0	262
480 min Summer	7.936	0.0	330
600 min Summer	6.610	0.0	398
720 min Summer	5.686	0.0	464
960 min Summer	4.478	0.0	600
1440 min Summer	3.209	0.0	864
2160 min Summer	2.324	0.0	1232
2880 min Summer	1.866	0.0	1584
4320 min Summer	1.400	0.0	2248
5760 min Summer	1.160	0.0	2944
7200 min Summer	1.013	0.0	3680
8640 min Summer	0.914	0.0	4408
10080 min Summer	0.843	0.0	5144
15 min Winter	87.173	0.0	18
30 min Winter	57.027	0.0	32
60 min Winter	35.840	0.0	60

Baker & Associates Ltd		Page 2
Wessex House	Upper Bognor Road	
Uper Market Street	Bognor	
Eastleigh Hampshire SO50 5FD	Soakaway SAT 1	
Date 30/06/2025	Designed by S Baker	
File Soakaway SAT 1 30.06.25.SRCX	Checked by	
Micro Drainage	Source Control 2018.1.1	

Summary of Results for 10 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
120 min Winter	0.209	0.209	0.1	1.5	O K
180 min Winter	0.217	0.217	0.1	1.5	O K
240 min Winter	0.216	0.216	0.1	1.5	O K
360 min Winter	0.209	0.209	0.1	1.5	O K
480 min Winter	0.197	0.197	0.1	1.4	O K
600 min Winter	0.184	0.184	0.1	1.3	O K
720 min Winter	0.171	0.171	0.1	1.2	O K
960 min Winter	0.145	0.145	0.1	1.0	O K
1440 min Winter	0.104	0.104	0.1	0.7	O K
2160 min Winter	0.063	0.063	0.1	0.4	O K
2880 min Winter	0.047	0.047	0.1	0.3	O K
4320 min Winter	0.036	0.036	0.0	0.3	O K
5760 min Winter	0.030	0.030	0.0	0.2	O K
7200 min Winter	0.026	0.026	0.0	0.2	O K
8640 min Winter	0.024	0.024	0.0	0.2	O K
10080 min Winter	0.022	0.022	0.0	0.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
120 min Winter	22.680	0.0	118
180 min Winter	16.988	0.0	172
240 min Winter	13.713	0.0	220
360 min Winter	10.007	0.0	276
480 min Winter	7.936	0.0	352
600 min Winter	6.610	0.0	428
720 min Winter	5.686	0.0	498
960 min Winter	4.478	0.0	638
1440 min Winter	3.209	0.0	896
2160 min Winter	2.324	0.0	1232
2880 min Winter	1.866	0.0	1528
4320 min Winter	1.400	0.0	2248
5760 min Winter	1.160	0.0	3000
7200 min Winter	1.013	0.0	3680
8640 min Winter	0.914	0.0	4408
10080 min Winter	0.843	0.0	5144

Baker & Associates Ltd		Page 3
Wessex House Uper Market Street Eastleigh Hampshire SO50 5FD	Upper Bognor Road Bognor Soakaway SAT 1	
Date 30/06/2025	Designed by S Baker	
File Soakaway SAT 1 30.06.25.SRCX	Checked by	
Micro Drainage	Source Control 2018.1.1	

Rainfall Details

Rainfall Model	FEH	Winter Storms	Yes
Return Period (years)	10	Cv (Summer)	1.000
FEH Rainfall Version	2013	Cv (Winter)	1.000
Site Location	GB 494352 99539 SZ 94352 99539	Shortest Storm (mins)	15
Data Type	Point	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.004

Time (mins)	Area
From:	To: (ha)

0	4 0.004
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Baker & Associates Ltd		Page 4
Wessex House Uper Market Street Eastleigh Hampshire SO50 5FD	Upper Bognor Road Bognor Soakaway SAT 1	
Date 30/06/2025 File Soakaway SAT 1 30.06.25.SRCX	Designed by S Baker Checked by	
Micro Drainage	Source Control 2018.1.1	

Model Details

Storage is Online Cover Level (m) 0.400

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.03600	Trench Width (m)	3.0
Infiltration Coefficient Side (m/hr)	0.03600	Trench Length (m)	2.5
Safety Factor	1.5	Slope (1:X)	0.0
Porosity	0.95	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000	Cap Infiltration Depth (m)	0.000

Baker & Associates Ltd		Page 1
Wessex House	Upper Bognor Road	
Uper Market Street	Bognor	
Eastleigh Hampshire SO50 5FD	Soakaway SAT 1	
Date 30/06/2025	Designed by S Baker	
File Soakaway SAT 1 30.06.25.SRCX	Checked by	
Micro Drainage	Source Control 2018.1.1	

Summary of Results for 30 year Return Period (+40%)

Half Drain Time : 266 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	0.152	0.152	0.1	1.1	O K
30 min Summer	0.197	0.197	0.1	1.4	O K
60 min Summer	0.239	0.239	0.1	1.7	O K
120 min Summer	0.272	0.272	0.1	1.9	O K
180 min Summer	0.282	0.282	0.1	2.0	O K
240 min Summer	0.281	0.281	0.1	2.0	O K
360 min Summer	0.274	0.274	0.1	2.0	O K
480 min Summer	0.263	0.263	0.1	1.9	O K
600 min Summer	0.251	0.251	0.1	1.8	O K
720 min Summer	0.240	0.240	0.1	1.7	O K
960 min Summer	0.218	0.218	0.1	1.6	O K
1440 min Summer	0.181	0.181	0.1	1.3	O K
2160 min Summer	0.139	0.139	0.1	1.0	O K
2880 min Summer	0.109	0.109	0.1	0.8	O K
4320 min Summer	0.071	0.071	0.1	0.5	O K
5760 min Summer	0.052	0.052	0.1	0.4	O K
7200 min Summer	0.046	0.046	0.0	0.3	O K
8640 min Summer	0.041	0.041	0.0	0.3	O K
10080 min Summer	0.038	0.038	0.0	0.3	O K
15 min Winter	0.152	0.152	0.1	1.1	O K
30 min Winter	0.197	0.197	0.1	1.4	O K
60 min Winter	0.239	0.239	0.1	1.7	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	112.605	0.0	18
30 min Summer	74.332	0.0	33
60 min Summer	46.979	0.0	62
120 min Summer	28.792	0.0	122
180 min Summer	21.316	0.0	180
240 min Summer	17.091	0.0	218
360 min Summer	12.365	0.0	276
480 min Summer	9.759	0.0	340
600 min Summer	8.102	0.0	410
720 min Summer	6.951	0.0	478
960 min Summer	5.451	0.0	614
1440 min Summer	3.879	0.0	880
2160 min Summer	2.786	0.0	1256
2880 min Summer	2.223	0.0	1616
4320 min Summer	1.650	0.0	2296
5760 min Summer	1.356	0.0	2992
7200 min Summer	1.177	0.0	3672
8640 min Summer	1.055	0.0	4408
10080 min Summer	0.967	0.0	5144
15 min Winter	112.605	0.0	18
30 min Winter	74.332	0.0	32
60 min Winter	46.979	0.0	62

Baker & Associates Ltd		Page 2
Wessex House	Upper Bognor Road	
Uper Market Street	Bognor	
Eastleigh Hampshire SO50 5FD	Soakaway SAT 1	
Date 30/06/2025	Designed by S Baker	
File Soakaway SAT 1 30.06.25.SRCX	Checked by	
Micro Drainage	Source Control 2018.1.1	

Summary of Results for 30 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
120 min Winter	0.273	0.273	0.1	1.9	O K
180 min Winter	0.283	0.283	0.1	2.0	O K
240 min Winter	0.283	0.283	0.1	2.0	O K
360 min Winter	0.273	0.273	0.1	1.9	O K
480 min Winter	0.259	0.259	0.1	1.8	O K
600 min Winter	0.244	0.244	0.1	1.7	O K
720 min Winter	0.229	0.229	0.1	1.6	O K
960 min Winter	0.200	0.200	0.1	1.4	O K
1440 min Winter	0.150	0.150	0.1	1.1	O K
2160 min Winter	0.096	0.096	0.1	0.7	O K
2880 min Winter	0.062	0.062	0.1	0.4	O K
4320 min Winter	0.042	0.042	0.0	0.3	O K
5760 min Winter	0.035	0.035	0.0	0.2	O K
7200 min Winter	0.031	0.031	0.0	0.2	O K
8640 min Winter	0.027	0.027	0.0	0.2	O K
10080 min Winter	0.025	0.025	0.0	0.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
120 min Winter	28.792	0.0	118
180 min Winter	21.316	0.0	174
240 min Winter	17.091	0.0	228
360 min Winter	12.365	0.0	284
480 min Winter	9.759	0.0	362
600 min Winter	8.102	0.0	436
720 min Winter	6.951	0.0	512
960 min Winter	5.451	0.0	656
1440 min Winter	3.879	0.0	924
2160 min Winter	2.786	0.0	1296
2880 min Winter	2.223	0.0	1616
4320 min Winter	1.650	0.0	2248
5760 min Winter	1.356	0.0	3000
7200 min Winter	1.177	0.0	3680
8640 min Winter	1.055	0.0	4416
10080 min Winter	0.967	0.0	5136

Baker & Associates Ltd		Page 3
Wessex House Uper Market Street Eastleigh Hampshire SO50 5FD	Upper Bognor Road Bognor Soakaway SAT 1	
Date 30/06/2025	Designed by S Baker	
File Soakaway SAT 1 30.06.25.SRCX	Checked by	
Micro Drainage	Source Control 2018.1.1	

Rainfall Details

Rainfall Model	FEH	Winter Storms	Yes
Return Period (years)	30	Cv (Summer)	1.000
FEH Rainfall Version	2013	Cv (Winter)	1.000
Site Location	GB 494352 99539 SZ 94352 99539	Shortest Storm (mins)	15
Data Type	Point	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.004

Time (mins)	Area
From:	To: (ha)

0	4 0.004
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Baker & Associates Ltd		Page 4
Wessex House Uper Market Street Eastleigh Hampshire SO50 5FD	Upper Bognor Road Bognor Soakaway SAT 1	
Date 30/06/2025 File Soakaway SAT 1 30.06.25.SRCX	Designed by S Baker Checked by	
Micro Drainage	Source Control 2018.1.1	

Model Details

Storage is Online Cover Level (m) 0.400

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.03600	Trench Width (m)	3.0
Infiltration Coefficient Side (m/hr)	0.03600	Trench Length (m)	2.5
Safety Factor	1.5	Slope (1:X)	0.0
Porosity	0.95	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000	Cap Infiltration Depth (m)	0.000

Baker & Associates Ltd		Page 1
Wessex House	Upper Bognor Road	
Uper Market Street	Bognor	
Eastleigh Hampshire SO50 5FD	Soakaway SAT 1	
Date 30/06/2025	Designed by S Baker	
File Soakaway SAT 1 30.06.25.SRCX	Checked by	
Micro Drainage	Source Control 2018.1.1	

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

Half Drain Time : 312 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	0.191	0.191	0.1	1.4	O K
30 min Summer	0.251	0.251	0.1	1.8	O K
60 min Summer	0.309	0.309	0.1	2.2	O K
120 min Summer	0.350	0.350	0.1	2.5	O K
180 min Summer	0.363	0.363	0.1	2.6	O K
240 min Summer	0.363	0.363	0.1	2.6	O K
360 min Summer	0.354	0.354	0.1	2.5	O K
480 min Summer	0.341	0.341	0.1	2.4	O K
600 min Summer	0.328	0.328	0.1	2.3	O K
720 min Summer	0.314	0.314	0.1	2.2	O K
960 min Summer	0.289	0.289	0.1	2.1	O K
1440 min Summer	0.246	0.246	0.1	1.8	O K
2160 min Summer	0.196	0.196	0.1	1.4	O K
2880 min Summer	0.158	0.158	0.1	1.1	O K
4320 min Summer	0.106	0.106	0.1	0.8	O K
5760 min Summer	0.074	0.074	0.1	0.5	O K
7200 min Summer	0.056	0.056	0.1	0.4	O K
8640 min Summer	0.048	0.048	0.1	0.3	O K
10080 min Summer	0.044	0.044	0.0	0.3	O K
15 min Winter	0.191	0.191	0.1	1.4	O K
30 min Winter	0.251	0.251	0.1	1.8	O K
60 min Winter	0.310	0.310	0.1	2.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
15 min Summer	140.810	0.0	19
30 min Summer	93.925	0.0	33
60 min Summer	59.920	0.0	62
120 min Summer	36.135	0.0	122
180 min Summer	26.556	0.0	180
240 min Summer	21.210	0.0	240
360 min Summer	15.297	0.0	292
480 min Summer	12.051	0.0	354
600 min Summer	9.991	0.0	422
720 min Summer	8.562	0.0	490
960 min Summer	6.700	0.0	626
1440 min Summer	4.746	0.0	894
2160 min Summer	3.387	0.0	1280
2880 min Summer	2.686	0.0	1668
4320 min Summer	1.972	0.0	2376
5760 min Summer	1.606	0.0	3056
7200 min Summer	1.382	0.0	3744
8640 min Summer	1.231	0.0	4408
10080 min Summer	1.122	0.0	5144
15 min Winter	140.810	0.0	18
30 min Winter	93.925	0.0	33
60 min Winter	59.920	0.0	62

Baker & Associates Ltd		Page 2
Wessex House	Upper Bognor Road	
Uper Market Street	Bognor	
Eastleigh Hampshire SO50 5FD	Soakaway SAT 1	
Date 30/06/2025	Designed by S Baker	
File Soakaway SAT 1 30.06.25.SRCX	Checked by	
Micro Drainage	Source Control 2018.1.1	

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

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
120 min Winter	0.351	0.351	0.1	2.5	O K
180 min Winter	0.365	0.365	0.1	2.6	O K
240 min Winter	0.366	0.366	0.1	2.6	O K
360 min Winter	0.354	0.354	0.1	2.5	O K
480 min Winter	0.339	0.339	0.1	2.4	O K
600 min Winter	0.323	0.323	0.1	2.3	O K
720 min Winter	0.306	0.306	0.1	2.2	O K
960 min Winter	0.273	0.273	0.1	1.9	O K
1440 min Winter	0.215	0.215	0.1	1.5	O K
2160 min Winter	0.149	0.149	0.1	1.1	O K
2880 min Winter	0.102	0.102	0.1	0.7	O K
4320 min Winter	0.050	0.050	0.1	0.4	O K
5760 min Winter	0.041	0.041	0.0	0.3	O K
7200 min Winter	0.036	0.036	0.0	0.3	O K
8640 min Winter	0.032	0.032	0.0	0.2	O K
10080 min Winter	0.029	0.029	0.0	0.2	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
120 min Winter	36.135	0.0	120
180 min Winter	26.556	0.0	176
240 min Winter	21.210	0.0	230
360 min Winter	15.297	0.0	304
480 min Winter	12.051	0.0	370
600 min Winter	9.991	0.0	446
720 min Winter	8.562	0.0	522
960 min Winter	6.700	0.0	672
1440 min Winter	4.746	0.0	952
2160 min Winter	3.387	0.0	1344
2880 min Winter	2.686	0.0	1700
4320 min Winter	1.972	0.0	2252
5760 min Winter	1.606	0.0	2992
7200 min Winter	1.382	0.0	3680
8640 min Winter	1.231	0.0	4440
10080 min Winter	1.122	0.0	5144

Baker & Associates Ltd		Page 3
Wessex House Uper Market Street Eastleigh Hampshire SO50 5FD	Upper Bognor Road Bognor Soakaway SAT 1	
Date 30/06/2025 File Soakaway SAT 1 30.06.25.SRCX	Designed by S Baker Checked by	
Micro Drainage	Source Control 2018.1.1	

Rainfall Details

Rainfall Model	FEH	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	1.000
FEH Rainfall Version	2013	Cv (Winter)	1.000
Site Location	GB 494352 99539 SZ 94352 99539	Shortest Storm (mins)	15
Data Type	Point	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.004

Time (mins)	Area
From:	To: (ha)

0	4 0.004
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Baker & Associates Ltd		Page 4
Wessex House Uper Market Street Eastleigh Hampshire SO50 5FD	Upper Bognor Road Bognor Soakaway SAT 1	
Date 30/06/2025 File Soakaway SAT 1 30.06.25.SRCX	Designed by S Baker Checked by	
Micro Drainage	Source Control 2018.1.1	

Model Details

Storage is Online Cover Level (m) 0.400

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.03600	Trench Width (m)	3.0
Infiltration Coefficient Side (m/hr)	0.03600	Trench Length (m)	2.5
Safety Factor	1.5	Slope (1:X)	0.0
Porosity	0.95	Cap Volume Depth (m)	0.000
Invert Level (m)	0.000	Cap Infiltration Depth (m)	0.000