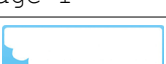


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Eastleigh Hampshire SO50 5FD	Soakaway SAT 2	
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Micro Drainage	Source Control 2018.1.1	

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

Half Drain Time : 169 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	0.072	0.072	0.4	4.1	O K
30 min Summer	0.091	0.091	0.4	5.2	O K
60 min Summer	0.107	0.107	0.4	6.1	O K
120 min Summer	0.133	0.133	0.4	7.6	O K
180 min Summer	0.142	0.142	0.4	8.1	O K
240 min Summer	0.145	0.145	0.4	8.3	O K
360 min Summer	0.144	0.144	0.4	8.2	O K
480 min Summer	0.139	0.139	0.4	7.9	O K
600 min Summer	0.132	0.132	0.4	7.5	O K
720 min Summer	0.125	0.125	0.4	7.1	O K
960 min Summer	0.111	0.111	0.4	6.4	O K
1440 min Summer	0.089	0.089	0.4	5.0	O K
2160 min Summer	0.065	0.065	0.4	3.7	O K
2880 min Summer	0.051	0.051	0.4	2.9	O K
4320 min Summer	0.042	0.042	0.3	2.4	O K
5760 min Summer	0.036	0.036	0.3	2.1	O K
7200 min Summer	0.033	0.033	0.3	1.9	O K
8640 min Summer	0.031	0.031	0.3	1.7	O K
10080 min Summer	0.029	0.029	0.2	1.6	O K
15 min Winter	0.072	0.072	0.4	4.1	O K
30 min Winter	0.091	0.091	0.4	5.2	O K
60 min Winter	0.107	0.107	0.4	6.1	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	120
180 min Summer	11.362	0.0	152
240 min Summer	9.337	0.0	186
360 min Summer	6.953	0.0	252
480 min Summer	5.579	0.0	320
600 min Summer	4.686	0.0	388
720 min Summer	4.057	0.0	456
960 min Summer	3.227	0.0	588
1440 min Summer	2.345	0.0	838
2160 min Summer	1.724	0.0	1188
2880 min Summer	1.400	0.0	1528
4320 min Summer	1.071	0.0	2248
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

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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	0.133	0.133	0.4	7.6	O K
180 min Winter	0.141	0.141	0.4	8.1	O K
240 min Winter	0.143	0.143	0.4	8.2	O K
360 min Winter	0.140	0.140	0.4	8.0	O K
480 min Winter	0.132	0.132	0.4	7.5	O K
600 min Winter	0.122	0.122	0.4	6.9	O K
720 min Winter	0.111	0.111	0.4	6.4	O K
960 min Winter	0.092	0.092	0.4	5.3	O K
1440 min Winter	0.063	0.063	0.4	3.6	O K
2160 min Winter	0.045	0.045	0.4	2.5	O K
2880 min Winter	0.037	0.037	0.3	2.1	O K
4320 min Winter	0.029	0.029	0.2	1.7	O K
5760 min Winter	0.025	0.025	0.2	1.4	O K
7200 min Winter	0.022	0.022	0.2	1.3	O K
8640 min Winter	0.020	0.020	0.2	1.1	O K
10080 min Winter	0.019	0.019	0.2	1.1	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	168
240 min Winter	9.337	0.0	190
360 min Winter	6.953	0.0	268
480 min Winter	5.579	0.0	342
600 min Winter	4.686	0.0	416
720 min Winter	4.057	0.0	484
960 min Winter	3.227	0.0	616
1440 min Winter	2.345	0.0	852
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	3000
7200 min Winter	0.797	0.0	3672
8640 min Winter	0.726	0.0	4408
10080 min Winter	0.675	0.0	5152

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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) 0.033

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

0	4 0.033
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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)	4.0
Infiltration Coefficient Side (m/hr)	0.03600	Trench Length (m)	15.0
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

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Micro Drainage	Source Control 2018.1.1	

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

Half Drain Time : 260 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	0.121	0.121	0.4	6.9	O K
30 min Summer	0.155	0.155	0.4	8.8	O K
60 min Summer	0.187	0.187	0.4	10.6	O K
120 min Summer	0.220	0.220	0.5	12.5	O K
180 min Summer	0.231	0.231	0.5	13.2	O K
240 min Summer	0.232	0.232	0.5	13.2	O K
360 min Summer	0.228	0.228	0.5	13.0	O K
480 min Summer	0.219	0.219	0.5	12.5	O K
600 min Summer	0.210	0.210	0.5	12.0	O K
720 min Summer	0.200	0.200	0.5	11.4	O K
960 min Summer	0.182	0.182	0.4	10.4	O K
1440 min Summer	0.150	0.150	0.4	8.6	O K
2160 min Summer	0.114	0.114	0.4	6.5	O K
2880 min Summer	0.088	0.088	0.4	5.0	O K
4320 min Summer	0.058	0.058	0.4	3.3	O K
5760 min Summer	0.047	0.047	0.4	2.7	O K
7200 min Summer	0.042	0.042	0.3	2.4	O K
8640 min Summer	0.038	0.038	0.3	2.2	O K
10080 min Summer	0.036	0.036	0.3	2.0	O K
15 min Winter	0.121	0.121	0.4	6.9	O K
30 min Winter	0.155	0.155	0.4	8.8	O K
60 min Winter	0.187	0.187	0.4	10.7	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	122
180 min Summer	16.988	0.0	180
240 min Summer	13.713	0.0	220
360 min Summer	10.007	0.0	280
480 min Summer	7.936	0.0	342
600 min Summer	6.610	0.0	410
720 min Summer	5.686	0.0	478
960 min Summer	4.478	0.0	614
1440 min Summer	3.209	0.0	878
2160 min Summer	2.324	0.0	1252
2880 min Summer	1.866	0.0	1612
4320 min Summer	1.400	0.0	2288
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	62

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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	0.221	0.221	0.5	12.6	O K
180 min Winter	0.232	0.232	0.5	13.2	O K
240 min Winter	0.233	0.233	0.5	13.3	O K
360 min Winter	0.226	0.226	0.5	12.9	O K
480 min Winter	0.215	0.215	0.5	12.3	O K
600 min Winter	0.203	0.203	0.5	11.6	O K
720 min Winter	0.190	0.190	0.4	10.8	O K
960 min Winter	0.164	0.164	0.4	9.3	O K
1440 min Winter	0.120	0.120	0.4	6.8	O K
2160 min Winter	0.074	0.074	0.4	4.2	O K
2880 min Winter	0.050	0.050	0.4	2.8	O K
4320 min Winter	0.038	0.038	0.3	2.2	O K
5760 min Winter	0.032	0.032	0.3	1.8	O K
7200 min Winter	0.028	0.028	0.2	1.6	O K
8640 min Winter	0.026	0.026	0.2	1.5	O K
10080 min Winter	0.024	0.024	0.2	1.3	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	174
240 min Winter	13.713	0.0	228
360 min Winter	10.007	0.0	286
480 min Winter	7.936	0.0	362
600 min Winter	6.610	0.0	438
720 min Winter	5.686	0.0	512
960 min Winter	4.478	0.0	654
1440 min Winter	3.209	0.0	922
2160 min Winter	2.324	0.0	1272
2880 min Winter	1.866	0.0	1532
4320 min Winter	1.400	0.0	2252
5760 min Winter	1.160	0.0	2960
7200 min Winter	1.013	0.0	3680
8640 min Winter	0.914	0.0	4408
10080 min Winter	0.843	0.0	5120

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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) 0.033

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

0	4 0.033
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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)	4.0
Infiltration Coefficient Side (m/hr)	0.03600	Trench Length (m)	15.0
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

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Micro Drainage	Source Control 2018.1.1	

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

Half Drain Time : 323 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	0.157	0.157	0.4	9.0	O K
30 min Summer	0.204	0.204	0.5	11.6	O K
60 min Summer	0.250	0.250	0.5	14.2	O K
120 min Summer	0.288	0.288	0.5	16.4	O K
180 min Summer	0.301	0.301	0.5	17.2	O K
240 min Summer	0.304	0.304	0.5	17.3	O K
360 min Summer	0.296	0.296	0.5	16.9	O K
480 min Summer	0.285	0.285	0.5	16.3	O K
600 min Summer	0.274	0.274	0.5	15.6	O K
720 min Summer	0.263	0.263	0.5	15.0	O K
960 min Summer	0.241	0.241	0.5	13.7	O K
1440 min Summer	0.203	0.203	0.5	11.6	O K
2160 min Summer	0.160	0.160	0.4	9.1	O K
2880 min Summer	0.127	0.127	0.4	7.2	O K
4320 min Summer	0.083	0.083	0.4	4.7	O K
5760 min Summer	0.059	0.059	0.4	3.3	O K
7200 min Summer	0.049	0.049	0.4	2.8	O K
8640 min Summer	0.044	0.044	0.4	2.5	O K
10080 min Summer	0.041	0.041	0.3	2.3	O K
15 min Winter	0.157	0.157	0.4	9.0	O K
30 min Winter	0.204	0.204	0.5	11.6	O K
60 min Winter	0.250	0.250	0.5	14.2	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	240
360 min Summer	12.365	0.0	302
480 min Summer	9.759	0.0	362
600 min Summer	8.102	0.0	428
720 min Summer	6.951	0.0	492
960 min Summer	5.451	0.0	628
1440 min Summer	3.879	0.0	896
2160 min Summer	2.786	0.0	1280
2880 min Summer	2.223	0.0	1644
4320 min Summer	1.650	0.0	2336
5760 min Summer	1.356	0.0	3008
7200 min Summer	1.177	0.0	3680
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	33
60 min Winter	46.979	0.0	62

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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	0.289	0.289	0.5	16.5	O K
180 min Winter	0.303	0.303	0.5	17.3	O K
240 min Winter	0.306	0.306	0.5	17.4	O K
360 min Winter	0.297	0.297	0.5	16.9	O K
480 min Winter	0.283	0.283	0.5	16.2	O K
600 min Winter	0.269	0.269	0.5	15.4	O K
720 min Winter	0.255	0.255	0.5	14.5	O K
960 min Winter	0.226	0.226	0.5	12.9	O K
1440 min Winter	0.174	0.174	0.4	9.9	O K
2160 min Winter	0.115	0.115	0.4	6.6	O K
2880 min Winter	0.074	0.074	0.4	4.2	O K
4320 min Winter	0.045	0.045	0.4	2.6	O K
5760 min Winter	0.038	0.038	0.3	2.1	O K
7200 min Winter	0.033	0.033	0.3	1.9	O K
8640 min Winter	0.029	0.029	0.2	1.7	O K
10080 min Winter	0.027	0.027	0.2	1.5	O K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
120 min Winter	28.792	0.0	120
180 min Winter	21.316	0.0	176
240 min Winter	17.091	0.0	232
360 min Winter	12.365	0.0	334
480 min Winter	9.759	0.0	376
600 min Winter	8.102	0.0	452
720 min Winter	6.951	0.0	528
960 min Winter	5.451	0.0	674
1440 min Winter	3.879	0.0	952
2160 min Winter	2.786	0.0	1336
2880 min Winter	2.223	0.0	1668
4320 min Winter	1.650	0.0	2248
5760 min Winter	1.356	0.0	2992
7200 min Winter	1.177	0.0	3680
8640 min Winter	1.055	0.0	4416
10080 min Winter	0.967	0.0	5112

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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) 0.033

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

0	4 0.033
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Model Details

Storage is Online Cover Level (m) 0.400

Trench Soakaway Structure

Infiltration Coefficient Base (m/hr)	0.03600	Trench Width (m)	4.0
Infiltration Coefficient Side (m/hr)	0.03600	Trench Length (m)	15.0
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

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

Half Drain Time : 409 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
15 min Summer	0.198	0.198	0.5	11.3	O K
30 min Summer	0.260	0.260	0.5	14.8	O K
60 min Summer	0.323	0.323	0.5	18.4	O K
120 min Summer	0.370	0.370	0.5	21.1	O K
180 min Summer	0.388	0.388	0.5	22.1	O K
240 min Summer	0.393	0.393	0.5	22.4	O K
360 min Summer	0.385	0.385	0.5	22.0	O K
480 min Summer	0.372	0.372	0.5	21.2	O K
600 min Summer	0.359	0.359	0.5	20.4	O K
720 min Summer	0.346	0.346	0.5	19.7	O K
960 min Summer	0.321	0.321	0.5	18.3	O K
1440 min Summer	0.277	0.277	0.5	15.8	O K
2160 min Summer	0.225	0.225	0.5	12.8	O K
2880 min Summer	0.185	0.185	0.4	10.5	O K
4320 min Summer	0.127	0.127	0.4	7.2	O K
5760 min Summer	0.089	0.089	0.4	5.1	O K
7200 min Summer	0.065	0.065	0.4	3.7	O K
8640 min Summer	0.052	0.052	0.4	3.0	O K
10080 min Summer	0.048	0.048	0.4	2.7	O K
15 min Winter	0.198	0.198	0.5	11.3	O K
30 min Winter	0.260	0.260	0.5	14.8	O K
60 min Winter	0.323	0.323	0.5	18.4	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	182
240 min Summer	21.210	0.0	240
360 min Summer	15.297	0.0	336
480 min Summer	12.051	0.0	390
600 min Summer	9.991	0.0	450
720 min Summer	8.562	0.0	514
960 min Summer	6.700	0.0	648
1440 min Summer	4.746	0.0	922
2160 min Summer	3.387	0.0	1316
2880 min Summer	2.686	0.0	1700
4320 min Summer	1.972	0.0	2420
5760 min Summer	1.606	0.0	3112
7200 min Summer	1.382	0.0	3752
8640 min Summer	1.231	0.0	4416
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

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Wessex House	Upper Bognor Road	
Uper Market Street	Bognor	
Eastleigh Hampshire SO50 5FD	Soakaway SAT 2	
Date 30/06/2025	Designed by S Baker	
File Soakaway SAT 2 30.006.25.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	0.371	0.371	0.5	21.1	O K
180 min Winter	0.389	0.389	0.5	22.2	O K
240 min Winter	0.395	0.395	0.5	22.5	O K
360 min Winter	0.389	0.389	0.5	22.2	O K
480 min Winter	0.372	0.372	0.5	21.2	O K
600 min Winter	0.357	0.357	0.5	20.4	O K
720 min Winter	0.341	0.341	0.5	19.4	O K
960 min Winter	0.309	0.309	0.5	17.6	O K
1440 min Winter	0.250	0.250	0.5	14.3	O K
2160 min Winter	0.179	0.179	0.4	10.2	O K
2880 min Winter	0.126	0.126	0.4	7.2	O K
4320 min Winter	0.060	0.060	0.4	3.4	O K
5760 min Winter	0.044	0.044	0.4	2.5	O K
7200 min Winter	0.038	0.038	0.3	2.2	O K
8640 min Winter	0.034	0.034	0.3	2.0	O K
10080 min Winter	0.031	0.031	0.3	1.8	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	178
240 min Winter	21.210	0.0	234
360 min Winter	15.297	0.0	342
480 min Winter	12.051	0.0	402
600 min Winter	9.991	0.0	466
720 min Winter	8.562	0.0	542
960 min Winter	6.700	0.0	694
1440 min Winter	4.746	0.0	982
2160 min Winter	3.387	0.0	1384
2880 min Winter	2.686	0.0	1756
4320 min Winter	1.972	0.0	2376
5760 min Winter	1.606	0.0	2992
7200 min Winter	1.382	0.0	3744
8640 min Winter	1.231	0.0	4416
10080 min Winter	1.122	0.0	5144

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Wessex House Uper Market Street Eastleigh Hampshire SO50 5FD	Upper Bognor Road Bognor Soakaway SAT 2	
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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) 0.033

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

0	4 0.033
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Wessex House Uper Market Street Eastleigh Hampshire SO50 5FD	Upper Bognor Road Bognor Soakaway SAT 2	
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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)	4.0
Infiltration Coefficient Side (m/hr)	0.03600	Trench Length (m)	15.0
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